Baseline Water Quality Data

Inventory and Analysis

Grand Canyon National Park



Water Resources Division and Servicewide Inventory and Monitoring Program

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

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BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

GRAND CANYON NATIONAL PARK

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

The results of the retrievals for the study area from the IFD, DRINKS, GAGES, and DAMS databases located five industrial/municipal dischargers (including three belonging to the National Park Service (NPS)); three drinking water intakes; twelve active or inactive U. S. Geological Survey (USGS) stream gages; and one water impoundment. The results of the STORET retrieval for the study area yielded 104,911 observations for 768 separate parameters collected by the USGS, NPS, EPA, U.S. Bureau of Reclamation, Arizona Department of Environmental Quality, and the Utah Health Department at 168 monitoring stations. Fourteen stations within the study area (11 within the park boundary) were established but contained no data. One station at Glen Canyon Dam (GRCA 0005) did not contain data appropriate for statistical analysis and one station in the Colorado River (GRCA 0010) was used only for monitoring radiological parameters. One-hundred-seven stations were located within the park boundary (see Station Period of Record Tabulation).

Most of the monitoring stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Thirty-three stations within the study area (24 within the park boundary) yielded longer-term records consisting of multiple observations for several important water quality parameters (see Station Period of Record Tabulation). The stations yielding the longest-term records within the park boundary are: (1) Colorado River near Grand Canyon, Ariz. (GRCA 0055); (2) Kanab Creek at Colorado River (GRCA 0106); (3) Tapeats Creek at Colorado River (GRCA 0098); (4) Havasu Creek at Colorado River (GRCA 0119); and (5) Nankoweap Creek at Colorado River (GRCA 0033)[†]. The stations yielding the longest-term records within the study area, but outside of the park boundary, are: (1) Colorado River at Lees Ferry, AZ (GRCA 0011); (2) Paria River at Lees Ferry, Ariz. (GRCA 0012); (3) Colorado River at Page (GRCA 0001); (4) Pierce Ferry Bay (GRCA 0166); (5) Paria River below Water Pockets Gulch near Page, AZ (GRCA 0017); and (6) Colorado River below Glen Canyon Dam (GRCA 0004).

Screening criteria consisting of published EPA water-quality criteria and instantaneous concentration values selected by the WRD were used to identify potential water quality problems within the study area. While the criteria represent important threshold concentrations of pollutants, it is important to remember that criteria may have been exceeded due to any number of natural or anthropogenic factors, including errors in field, laboratory, and/or recording procedures. The reader is advised to read the Introduction for additional caveats in interpreting the exceeded criteria in this report. The results of the GRCA water quality criteria screen found 20 groups of

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

parameters that exceeded screening criteria at least once within the study area. Dissolved oxygen, pH, chloride, arsenic, cadmium, copper, lead, silver, and zinc exceeded their respective EPA criteria for the protection of freshwater aquatic life. Chloride, sulfate, antimony, arsenic, beryllium, cadmium, chromium, lead, mercury, nickel, natural uranium, and carbon chloroform exceeded their respective EPA drinking water criteria. Bacteria concentrations (total coliform and fecal coliform) and turbidity exceeded the WRD screening limits for freshwater bathing and aquatic life, respectively.

Dissolved oxygen concentrations were measured 815 times at 86 monitoring stations from 1961 through 1995. Ten observations in the Colorado River below Glen Canyon Dam (GRCA 0003), Colorado River at Lees Ferry (GRCA 0011), and three springs (GRCA 0028, GRCA 0144, and GRCA 0164), ranging from 0.0 milligrams per liter (mg/L) to 4.0 mg/L from 1989 through 1994, were less than or equal to the 4 mg/L EPA criterion for the protection of aquatic life.

The pH was measured 2,962 times at 137 monitoring stations from 1943 through 1995. Of the 1,637 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 35 observations at 14 stations throughout the study area were outside the pH range of 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life). Thirteen observations were greater than or equal to pH 9.0 and 22 observations were less than or equal to pH 6.5. The highest reported pH was 9.7 SU in Nankoweap Creek at the Colorado River (GRCA 0033) in October 1993. The lowest pH of 2.0 SU was reported in the Colorado River below Glen Canyon Dam (GRCA 0003) in January 1994.

Turbidity was measured 851 times at 92 monitoring stations from 1959 through 1995. Of the 845 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 195 observations at 11 stations exceeded the WRD screening criterion of 50 turbidity units (JTU/FTU/NTU). Almost 80 percent of the observations exceeding this criterion were recorded upstream of the Park at Colorado River stations between Glen Canyon Dam and Lees Ferry. The highest reported value was 80,000 JTU in the Colorado River at Page (GRCA 0001) in October 1962. The construction of Glen Canyon Dam which has altered the Colorado River's hydrologic regime through Grand Canyon took place between 1958 and 1963.

Total coliform concentrations were measured 258 times at four monitoring stations from 1959 through 1979. Forty-five observations in the Colorado River at Page (GRCA 0001), Colorado River at Lees Ferry (GRCA 0011), and Paria River at Lees Ferry (GRCA 0012) exceeded the WRD bathing water criterion of 1,000 Colony Forming Units/Most Probable Number per 100 milliliters (CFU/MPN/100 ml). Eighty-nine percent of the observations exceeding the criterion, including the highest reported value of 26,000 CFU/100 ml, were in the Colorado River at Page (GRCA 0001) between March 1960 and August 1965. Fecal coliform concentrations were measured 447 times at 60 monitoring stations from 1974 through 1995. Of the 436 observations used in the criteria analysis (see Remark Code and Composite Type Screens in the Methodology for explanation), 21 observations at ten stations throughout the study area exceeded the WRD bathing water criterion of 200 CFU/MPN/100 ml. The highest reported concentration was 5,100 CFU/100 ml in the Paria River at Lees Ferry (GRCA 0012) in May 1974.

Chloride concentrations (including dissolved and total) were measured 3,124 times at 94 monitoring stations from 1925 through 1995. Of the 1,288 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 31 concentrations at ten monitoring stations throughout the study area (GRCA 0003, GRCA 0020, GRCA 0022, GRCA 0025, GRCA 0026, GRCA 0028, GRCA 0055, GRCA 0076, GRCA 0087, GRCA 0144) exceeded the secondary drinking water criterion of 250 mg/L. Fifteen of these 31 concentrations also exceeded the acute freshwater criterion of 860 mg/L. Most of the observations exceeding the criteria were recorded in tributaries of the Colorado River (particularly the Little Colorado River) and springs. The highest reported concentration was 3,920 mg/L in Pumpkin Spring (GRCA 0144) in October 1992.

Sulfate concentrations (including dissolved and total) were measured 2,909 times at 110 monitoring stations from 1925 through 1995. Of the 1,075 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), 440 concentrations at 21 monitoring stations throughout the study area exceeded the secondary drinking water criterion of 250 mg/L. The highest reported concentration was 2,240 mg/L in a spring (GRCA 0016) in April 1952.

Antimony concentrations (including dissolved and total) were measured 173 times at 40 monitoring stations from 1978 through 1995. Of the 172 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 dissolved concentration of 30 micrograms per liter (µg/L) in the Paria River below Water Pockets Gulch near Page (GRCA 0017) exceeded the drinking water criterion of 6 µg/L in February 1978.

Arsenic concentrations (including dissolved, suspended, and total) were measured 539 times at 73 monitoring stations from 1962 through 1995. Of the 538 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 17 concentrations in the Paria River (GRCA 0012, GRCA 0017), Lava Canyon at the Colorado River (GRCA 0025), Crystal Creek at the Colorado River (GRCA 0086, GRCA 0087), and Pumkin Spring (GRCA 0144) exceeded the drinking water criterion of 50 µg/L. Six of these 17 concentrations also exceeded the acute freshwater criterion of 360 µg/L. The highest reported concentration was 2,400 µg/L in the Paria River below Water Pockets Gulch near Page (GRCA 0017) in September 1977.

Beryllium concentrations (including dissolved and total) were measured 233 times at 56 monitoring stations from 1962 through 1995. Two total concentrations of 22 µg/L and 18 µg/L, in the Colorado River at the confluence with the Paria River (GRCA 0013), exceeded the drinking water criterion of 4.0 µg/L in October 1994 and February 1994, respectively.

Cadmium concentrations (including dissolved, suspended, and total) were measured 504 times at 82 monitoring stations from 1962 through 1995. Of the 487 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide to Water Quality Results for explanation), 31 concentrations in the Colorado River below Glen Canyon (GRCA 0004), Colorado River at Lees Ferry (GRCA 0011), Colorado River at the confluence with the Paria River (GRCA 0013), Paria River at Lees Ferry (GRCA 0012), and the Paria River below Water Pockets Gulch near Page (GRCA 0017) exceeded the acute freshwater criterion of 3.9 µg/L. Twenty-five of these 31 concentrations also exceeded the drinking water criterion of 5.0 µg/L. All of the observations exceeding these cadmium criteria were recorded at stations outside the Park boundary upstream of the Park. The highest reported value was 100 µg/L in the Colorado River at Lees Ferry (GRCA 0011) in February 1981.

Chromium concentrations (including dissolved, suspended, total, and hexavalent) were measured 492 times at 63 monitoring stations from 1962 through 1995. Eight suspended and total concentrations in the Colorado River at Lees Ferry (GRCA 0008), Colorado River confluence with the Paria River (GRCA 0013), Paria River at Lees Ferry (GRCA 0012), and Kanab Creek at the Colorado River (GRCA 0106) exceeded the drinking water criterion of 100 µg/L. The highest reported concentration was 520 µg/L in the Colorado River at the confluence with the Paria River (GRCA 0013) in October 1994.

Copper concentrations (including dissolved, suspended, and total) were measured 554 times at 82 monitoring stations from 1962 through 1995. Of the 553 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 50 concentrations at 11 stations (GRCA 0004, GRCA 0011, GRCA 0012, GRCA 0013, GRCA 0017, GRCA 0020, GRCA 0022, GRCA 0025, GRCA 0055, GRCA 0098, GRCA 0106) exceeded the acute freshwater criterion of 18 µg/L. The highest reported concentration was 610 µg/L in the Colorado River at the confluence with the Paria River (GRCA 0013) in October 1994.

Lead concentrations (including dissolved, suspended, and total) were measured 551 times at 82 monitoring stations from 1962 through 1995. Of the 543 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 39 concentrations at 13 stations throughout the study area exceeded the drinking water criterion of 15 µg/L. Ten of these 39 concentrations also exceeded the acute freshwater criterion of 82 µg/L. The highest reported value was 1,000 µg/L in the Paria River at Lees Ferry (GRCA 0012) in September 1977.

Mercury concentrations (including dissolved, suspended, and total) were measured 436 times at 73 monitoring stations from 1973 through 1995. One suspended concentration and one total concentration, both measuring 2.1 µg/L in the Paria River below Water Pockets Gulch near Page (GRCA 0017) exceeded the drinking water criterion of 2.0 µg/L in September 1977.

Nickel concentrations (including dissolved, suspended, and total) were measured 332 times at 77 monitoring stations from 1962 through 1995. Two total concentrations of 490 µg/L and 148 µg/L in the Colorado River confluence with the Paria River (GRCA 0013) in October 1994 and February 1994, respectively, and one total concentration of 110 µg/L in Kanab Creek at the Colorado River (GRCA 0106) in May 1992, exceeded the drinking water criterion of 100 µg/L.

Silver concentrations (including dissolved, suspended, and total) were measured 365 times at 60 monitoring stations from 1962 through 1995. Of the 216 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), three total concentrations, 12 µg/L in Tapeats Creek at the Colorado River (GRCA 0098) in February 1994, 10 µg/L in Crystal Creek at the Colorado River (GRCA 0087) in July 1993, and 5 µg/L in the Colorado River below Glen Canyon (GRCA 0004) in May 1978, exceeded the acute freshwater criterion of 4.1 µg/L.

Zinc concentrations (including dissolved, suspended, and total) were measured 554 times at 82 monitoring stations from 1962 through 1995. Twenty-six concentrations at ten stations (GRCA 0011, GRCA 0012, GRCA 0013, GRCA 0017, GRCA 0022, GRCA 0025, GRCA 0055, GRCA 0106, GRCA 0110, GRCA 0144) exceeded the acute freshwater criterion of 120 µg/L. The highest reported value was 2,130 µg/L in the Colorado River at the confluence with the Paria River (GRCA 0013) in October 1994.

Natural uranium concentrations (including dissolved and total) were measured 169 times at 46 monitoring stations from 1963 through 1994. Of the 158 observations used in the criteria analysis (see Composite Type Screen in the Methodology for explanation), three total concentrations, 3,720 µg/L in the Colorado River below Glen Canyon Dam (GRCA 0004) in October 1981, 34 µg/L in the Little Colorado River (GRCA 0022) in June 1992, and 23 µg/L in a spring (GRCA 0152) in May 1993, exceeded the drinking water criterion of 20 µg/L.

Carbon chloroform concentrations were measured 158 times at one monitoring station, the Colorado River at Page (GRCA 0001), from 1959 through 1971. Sixty-five concentrations exceeded the drinking water criterion of 100 µg/L (sum of trihalomethanes). The highest reported value was 1,121 µg/L in May 1968.

The IDEA conducted for GRCA indicates that STORET data exist for all 13 Level I parameter groups in the study area. For the groups Alkalinity, pH, Conductivity, Nitrate/Nitrogen, Chlorophyll, and Sulfates/Total Dissolved Solids/Hardness, less than 25 percent of the observations were recorded since 1985. For the group Chlorophyll, no observations were recorded since 1985. Relative to other parameter groups, data were limited for the group Chlorophyll. Results for 119 of the 126 EPA priority toxic pollutants (consisting of metals, organic parameters, and pesticides) were retrieved from STORET. Two stations in the Colorado River at Lees Ferry (GRCA 0007 and GRCA 0008) measured toxic organic parameters in bottom deposits and fish tissue.

Surface water resources in the GRCA study area include the Colorado, Paria, and Little Colorado Rivers and numerous creeks and springs. Based on the data inventories and analyses contained in this report, surface water quality within the study area is typical of that generally encountered in the arid southwest, with some indications of impacts from human activities. Potential anthropogenic sources of contaminants include fluctuations in the controlled flow regime of the Colorado River, resulting in erosion and sedimentation; mining activities in the surrounding areas; recreational activities; agricultural activities; and wastewater treatment effluents.

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INTRODUCTION

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

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

Goal

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

Purpose

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

Objectives

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

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

2. Develop a complete inventory of all retrieved data;

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

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

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

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

Document Overview

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

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

Caveats

While intended primarily as a reference document, it is important that users peruse the first three chapters and Appendices of this report to better understand and interpret the results presented in chapter four. As a means for identifying potential areas for more intensive study, comparisons of the park's water quality data with relevant national EPA water quality criteria for appropriate designated uses[2] and with the Servicewide Inventory and

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

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

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

Key Personnel

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

National Park Service, Water Resources Division:

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

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

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

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

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

Julie Mattick and Mike Matz helped prepare reports and write the Executive Summaries.

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

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

Jacquie Nolan designed the cover.

Horizon Systems:

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

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

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

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

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

Other National Park Service:

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

METHODOLOGY

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

Delineation of Park Study Area

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

Data Sources

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

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

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

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

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

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

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

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

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

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

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

Data Retrieval and Analysis Procedures

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

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

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

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

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

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

Park Unit Databases

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

(A) Water Quality Parameter Data: This database includes all the water quality parameter data downloaded from STORET that passed the STORET Edit Criteria, Date, Station Type, and Phase 0 Parameter screens (described below) and is summarized tabularly and graphically in this document. This constitutes the park's baseline water quality data. Since it is already in digital format, more sophisticated analysis of the data is possible than the descriptive statistics and graphics presented here.

(B) Water Quality Station Locations: This database consists of the STORET header information describing each station where water quality data was collected. As the latitude and longitude of the station are included in the database, this file is easily imported into the park's GIS.

(C) Industrial Facility Discharge Locations: This database includes any industrial or municipal point source discharges located within the park's study area. As the latitude and longitude of each discharge facility are included in the database, this file is easily imported into the park's GIS.

(D) Drinking Water Intake Locations: This database includes any drinking water intakes located within the park's study area. As the latitude and longitude of each intake are included in the database, this file is easily imported into the park's GIS.

(E) Water Gage Locations: This database includes water (stream, lake, estuary, well, spring, climate, or other) gages located within the park's study area. Most of the gages will likely be stream gages belonging to the USGS. As the latitude and longitude of each gage are included in the database, this file is easily imported into the park's GIS.

(F) Water Impoundment Locations: This database includes any water impoundments (dams) located within the park's study area. As the latitude and longitude of each impoundment are included in the database, this file is easily imported into the park's GIS.

(G) River Reach Data: This database includes all stream traces (1:100,000 scale) and attributes for reaches falling within any USGS catalog unit that touches the park's study area. The traces are geo-referenced in ASCII format. The attributes are in both ASCII export and DBASE III+ formats. This information is also readily incorporated into the park's GIS.

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

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

Screening Methodologies and Procedures

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

STORET Edit Criteria

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

Table A. Categories of Screening Criteria and to Which Output Products They Apply (A "yes" Entry Means the Screening Category Eliminated or Prevented Data From Being Used in the Product):

Screening Category	Data Download	Overview Tables	Inventory Tables	Annual Tables	Seasonal Tables	Standards Tables	Plots (All)
STORET Edit Criteria	yes	yes	yes	yes	yes	yes	yes
Date	yes	yes	yes	yes	yes	yes	yes
Station Type	yes	yes	yes	yes	yes	yes	yes
Phase 0 Parameter	yes	yes	yes	yes	yes	yes	yes
Phase 1 Parameter	no	no	yes	yes	yes	yes	yes
Media Type	no	no	yes	yes	yes	yes	yes
Remark Codes	no	no	yes	yes	yes	yes	yes
Composite Type	no	no	yes	yes	yes	yes	yes
Phase 2 Parameter	no	no	no	no	no	no	yes
Observations/Period of Record	no	no	no	yes	yes	no	yes

Date Screen

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

Station Type Screen

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

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

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

Phase 0 Parameter Screen

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

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

Phase 1 Parameter Screen

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

Media Type Screen

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

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

Remark Code Screen

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

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

Table B. Non-composite Parameters With the Following Remark Codes Were Eliminated From Statistical and Graphical Analysis:

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

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

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

Composite Type Screen

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

Table D. Possible STORET Composite Type Codes

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

Phase 2 Parameter Screen

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

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

Observations/Period of Record Screen

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

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

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

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

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

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

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

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

Statistical Definitions

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

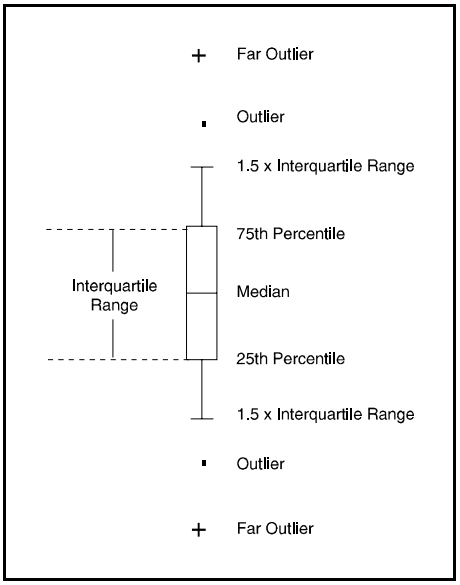
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

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

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

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

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



INTERPRETIVE GUIDE

TO WATER QUALITY RESULTS

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

Overview

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

Regional Location Map

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

Water Quality Monitoring Locations Map(s)

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

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

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

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

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

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

Representative Mean Annual Hydrograph for Seasonal Analysis

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

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

(2) Retrieve the daily discharge values for the selected station from the USGS Daily Values File and generate a mean annual hydrograph and a box-and-whiskers plot of daily flows by month.

(3) Interpret the plots based on our knowledge of the hydrologic regime at these parks and assign seasons.

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

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

Contacts for Agency Codes Retrieved

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

Quantity of Data Retrieved by Agency Code

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

Station Period of Record Tabulation

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

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

Parameter Period of Record Tabulation

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

Station/Parameter Period of Record Tabulation

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

Station-By-Station Results

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

Station Inventory for Station

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

Parameter Inventory for Station

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

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

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

EPA Water Quality Criteria Analysis for Station

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

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

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

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

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

Time Series Plots for Station

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

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

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

Annual Analysis for Station

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

Annual Box-and-Whiskers Plots for Station

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

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

Seasonal Analysis for Station

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

Seasonal Box-and-Whiskers Plots for Station

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

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

EPA Water Quality Criteria Analysis for Entire Park Study Area

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

NPS Servicewide Inventory and Monitoring Program
Level I Water Quality Inventory Data Evaluation and Analysis (IDEA)

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

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

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

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

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

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

Case-By-Case Parameters Groups:
(8) Toxic Elements
(9) Clarity/Turbidity
(10) Nitrate/Nitrogen
(11) Phosphate/Phosphorus
(12) Chlorophyll
(13) Sulfates
(14) Bacteria

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

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

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

Water Quality Observations Outside STORET Edit Criteria for Park

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

WATER QUALITY RESULTS

OVERVIEW FOR GRCA

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:	2385090	1204340
# STORET Stations:	168	107
# Stations With No Data:	14	11
# Stations With No Stat. Analysis:	1	0
# Longer Term Stations:	33	24
Date of STORET Retrieval:	04/25/96	04/25/96
Period of Record:	08/23/25-10/25/95	08/23/25-10/25/95
# Parameters Measured:	768	219
# Water Quality Observations:	104911	47352
# Industrial/Municipal Facilities:	5	3
# Drinking Water Intakes:	3	2
# Water Gages:	12	7
# Water Impoundments:	1	0
# Total Plots:	140	35
# Time Series:	39	8
# Annual:	33	1
# Seasonal:	68	26

Hydrologic Definition of Seasons:

1. October 1 - March 14
2. March 15 - June 19
3. June 20 - September 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 8 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.

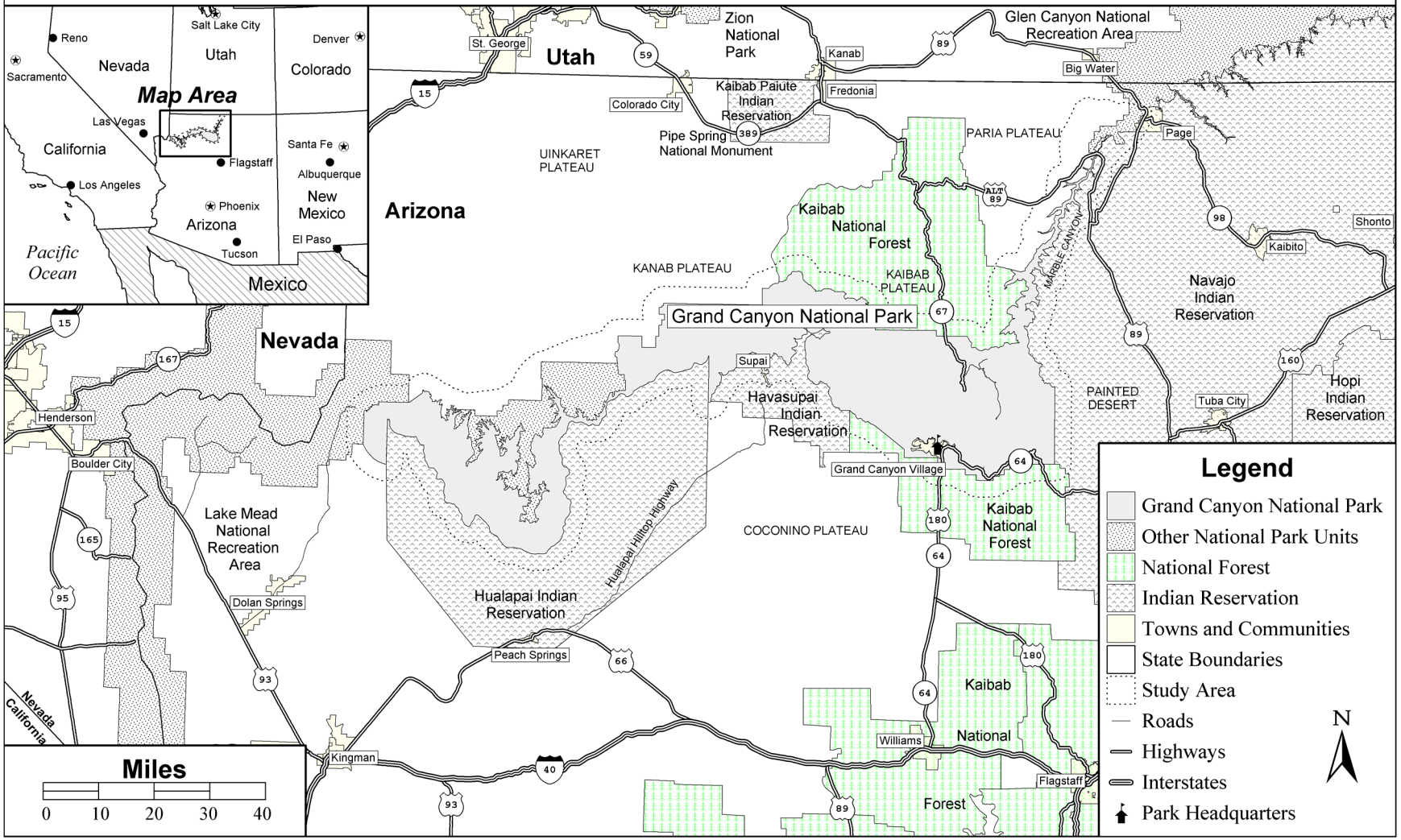
Seasonal Analysis Criteria:

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 35 years and observations in at least 4 of the 35 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.

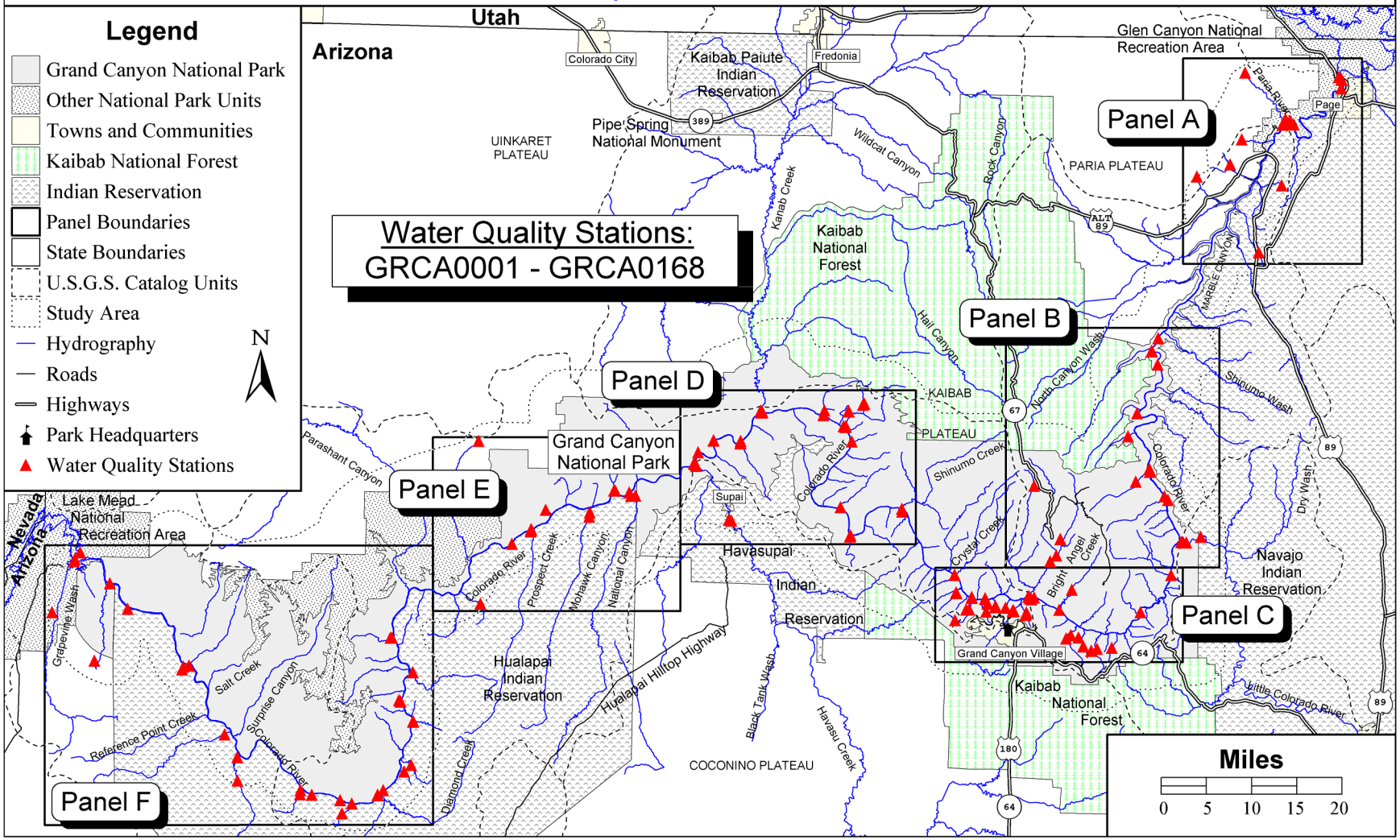
Grand Canyon National Park

Regional Location Map



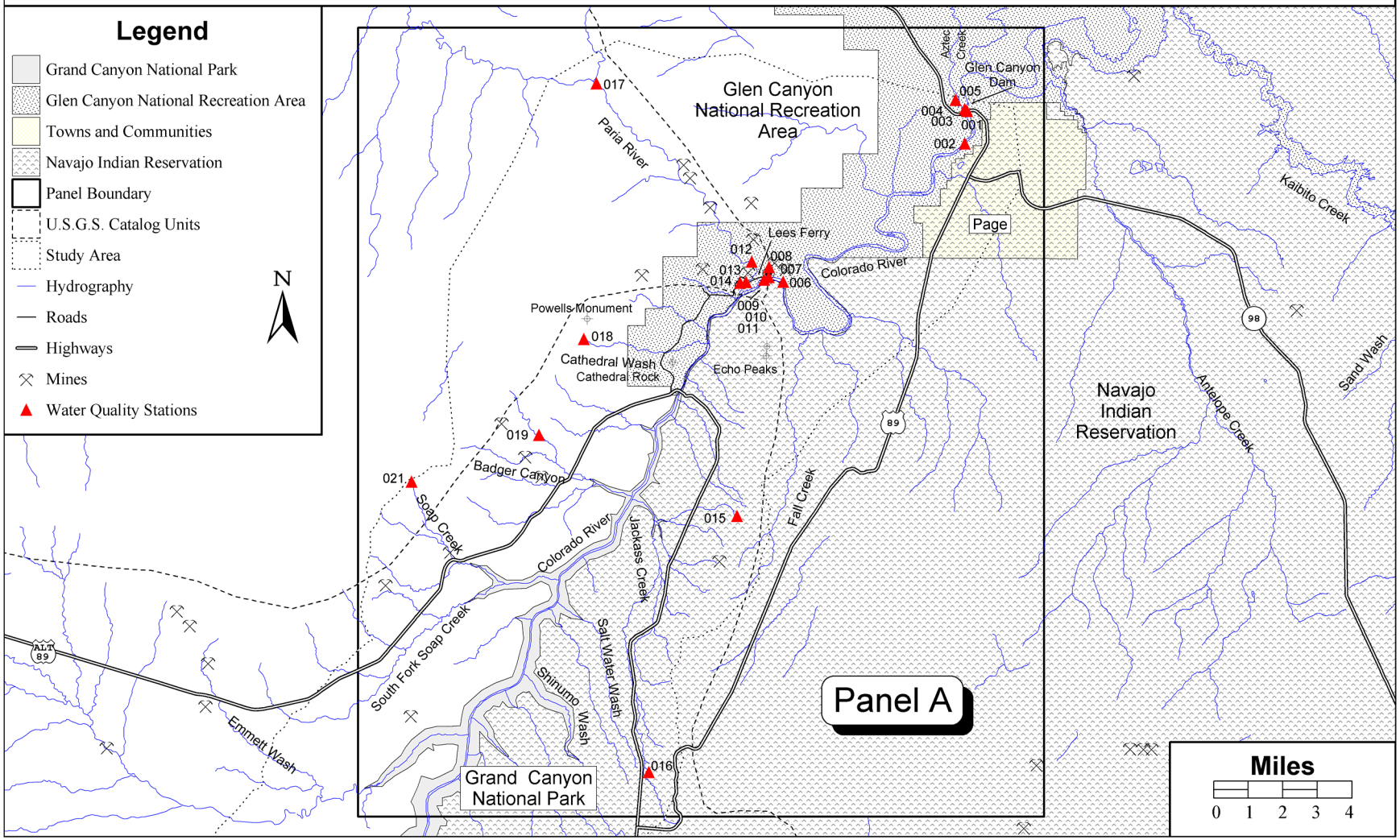
Grand Canyon National Park

Water Quality Monitoring Locations
Graphic Panel Index



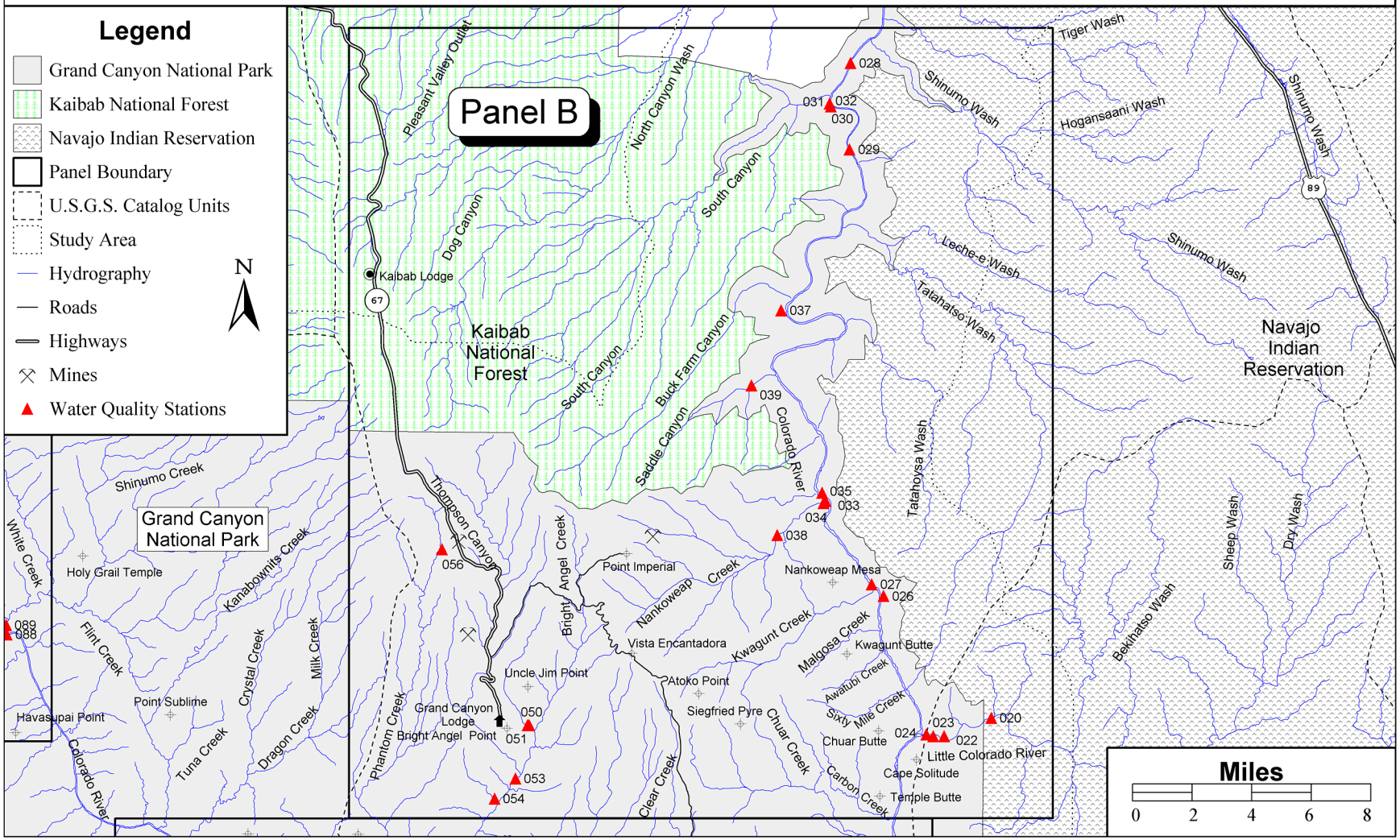
Grand Canyon National Park

Water Quality Monitoring Locations



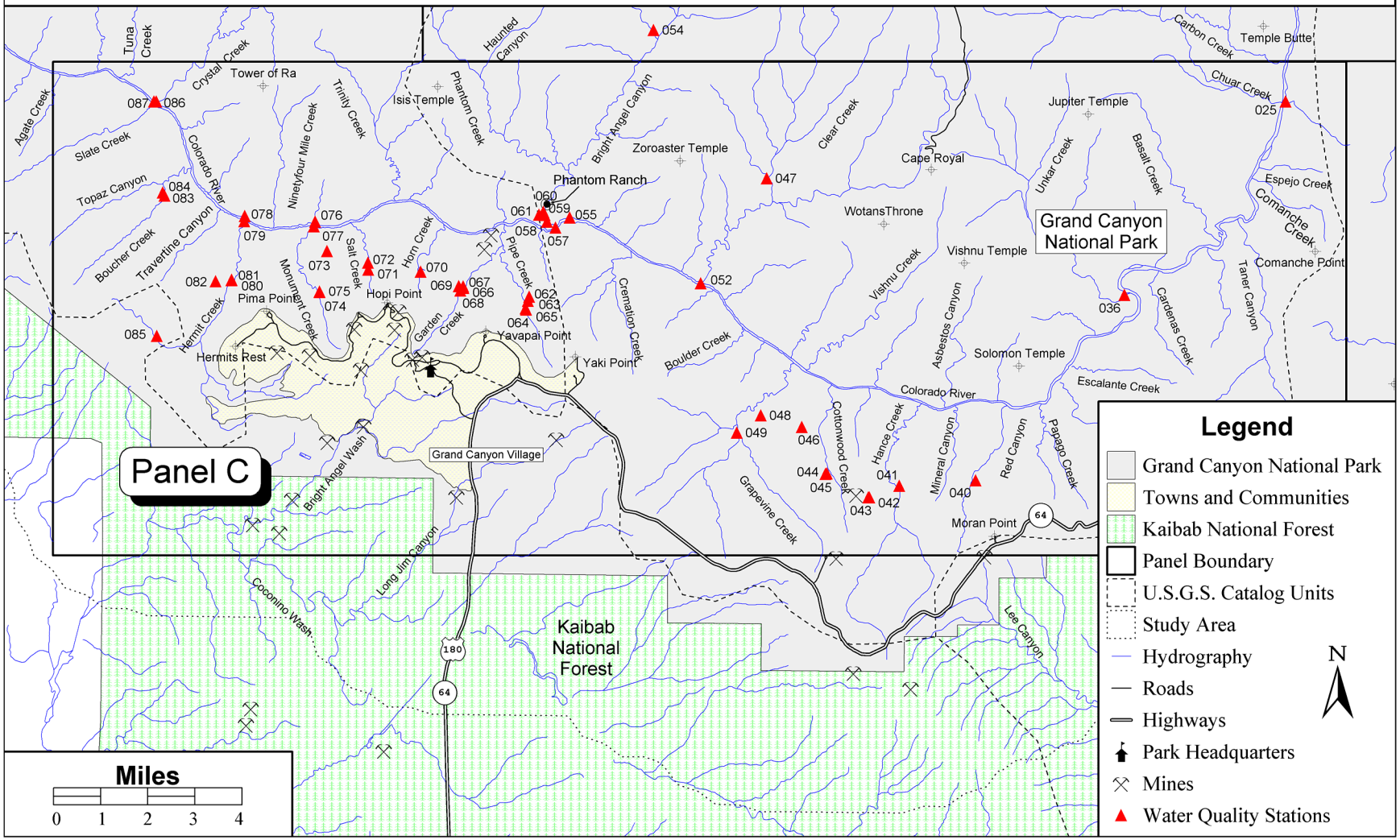
Grand Canyon National Park

Water Quality Monitoring Locations



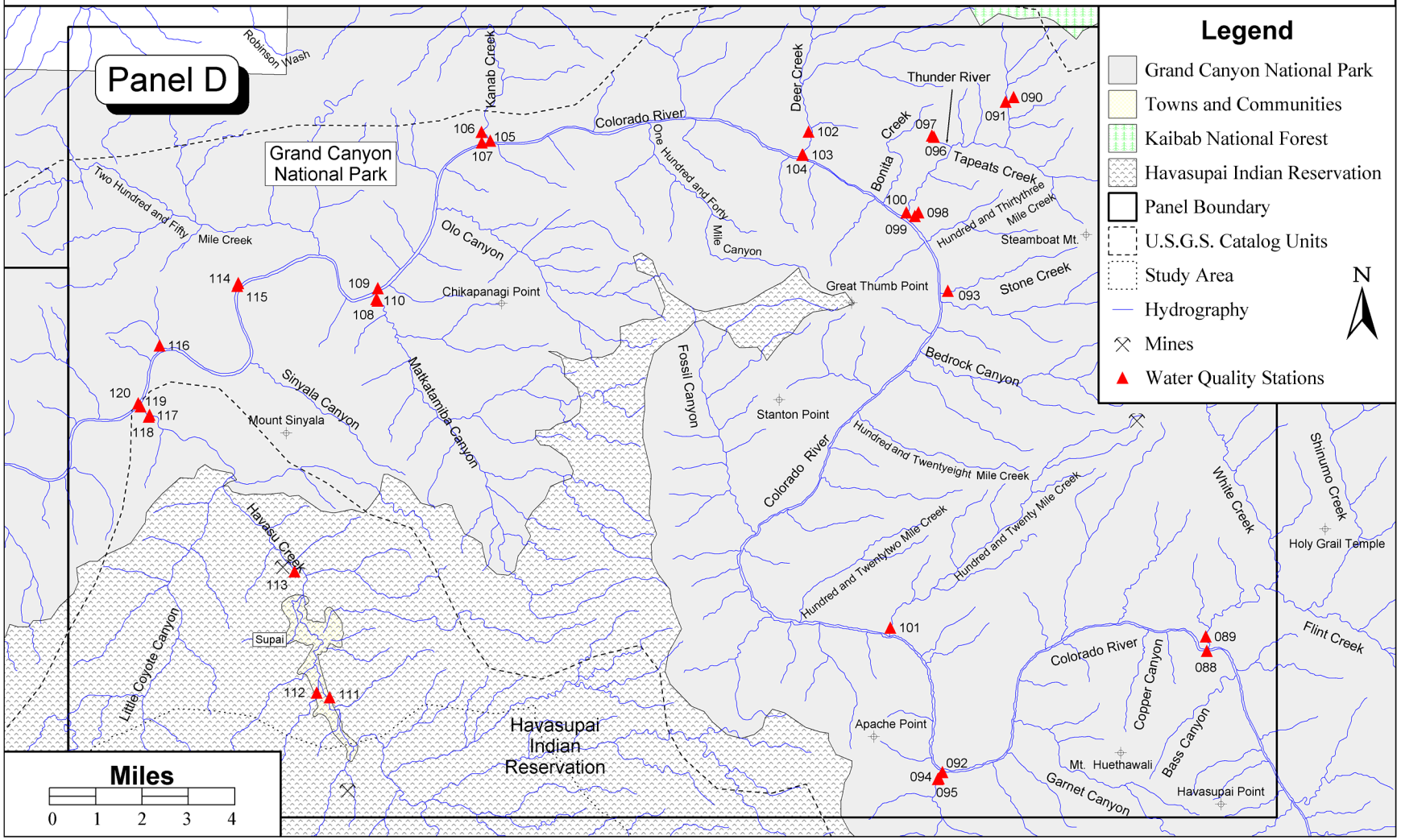
Grand Canyon National Park

Water Quality Monitoring Locations



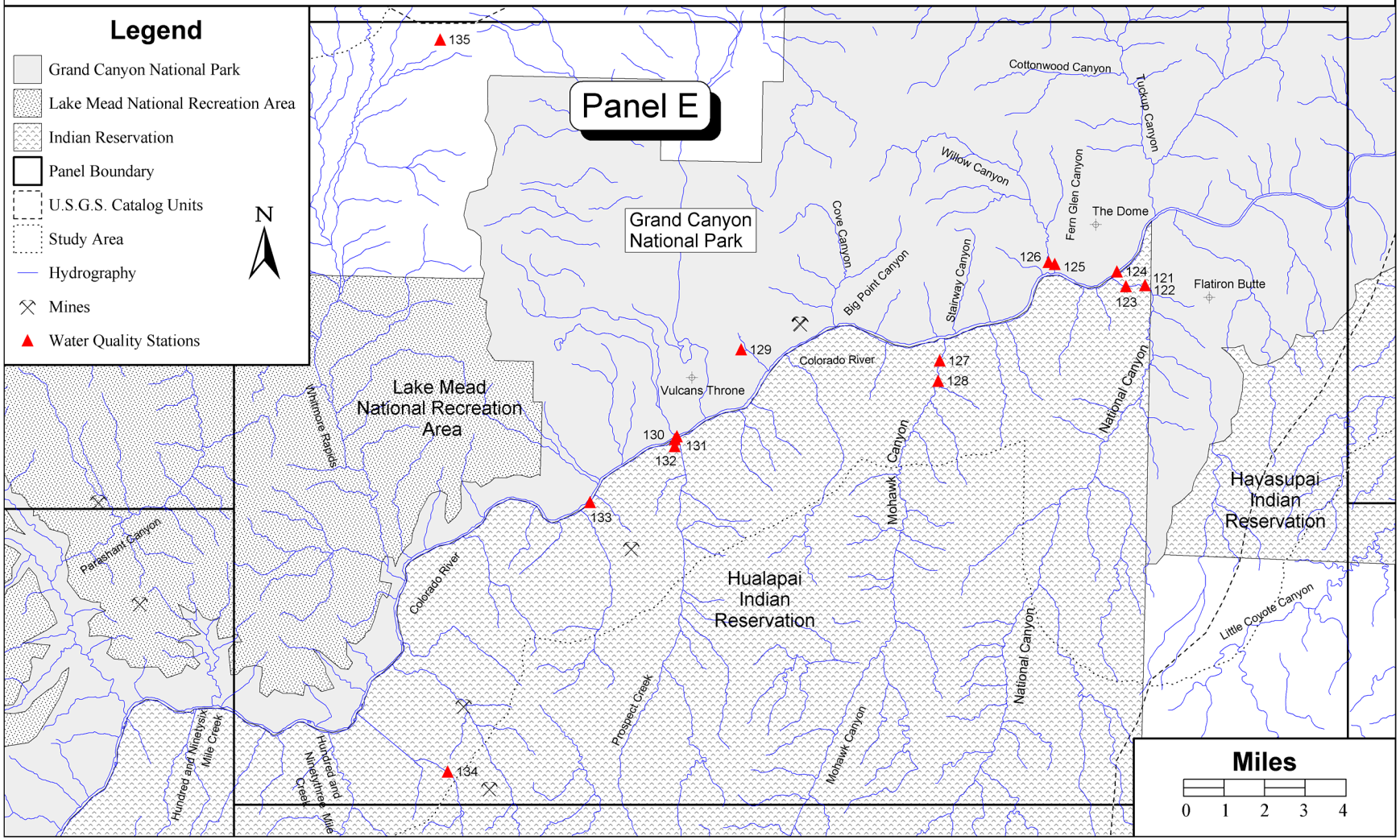
Grand Canyon National Park

Water Quality Monitoring Locations



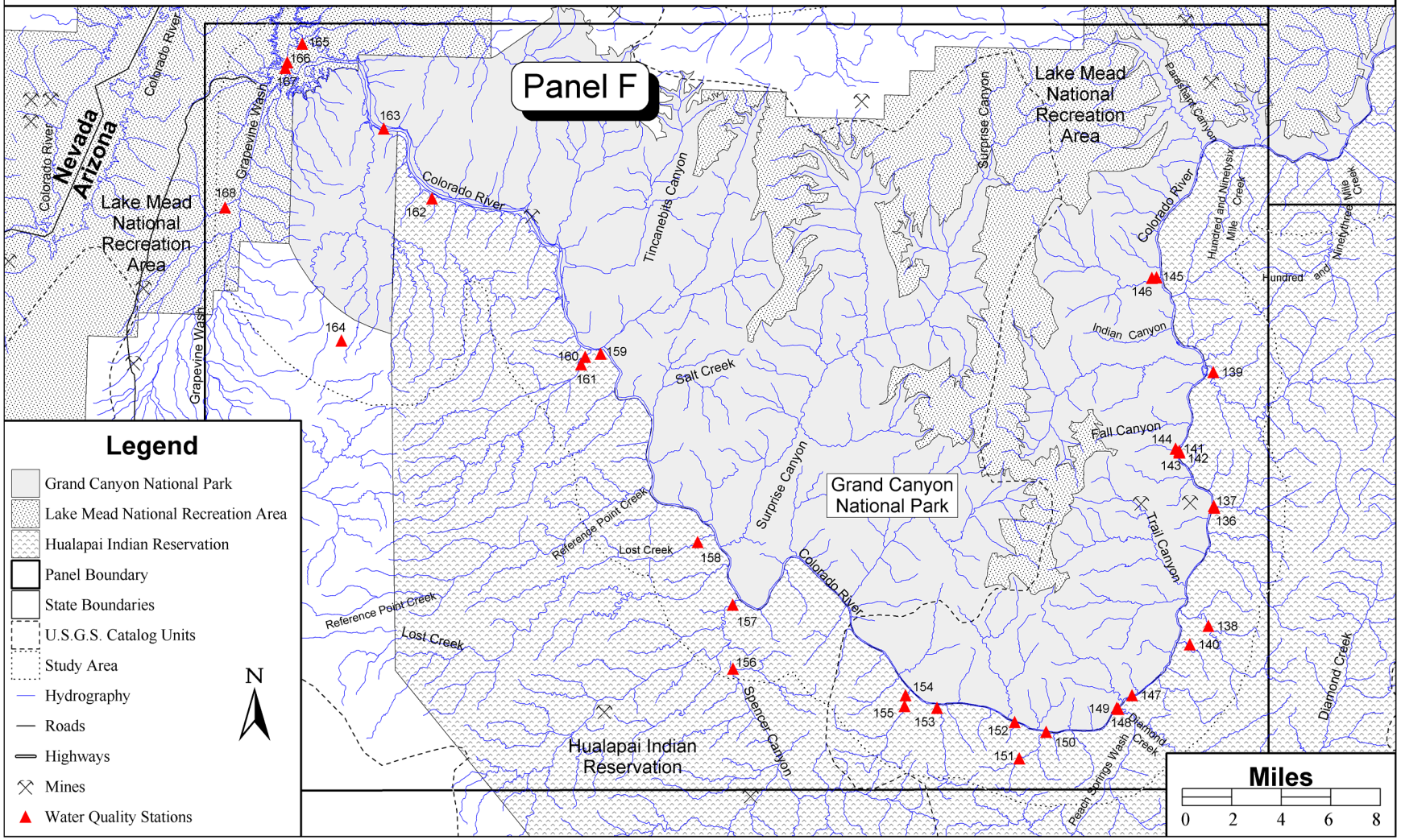
Grand Canyon National Park

Water Quality Monitoring Locations



Grand Canyon National Park

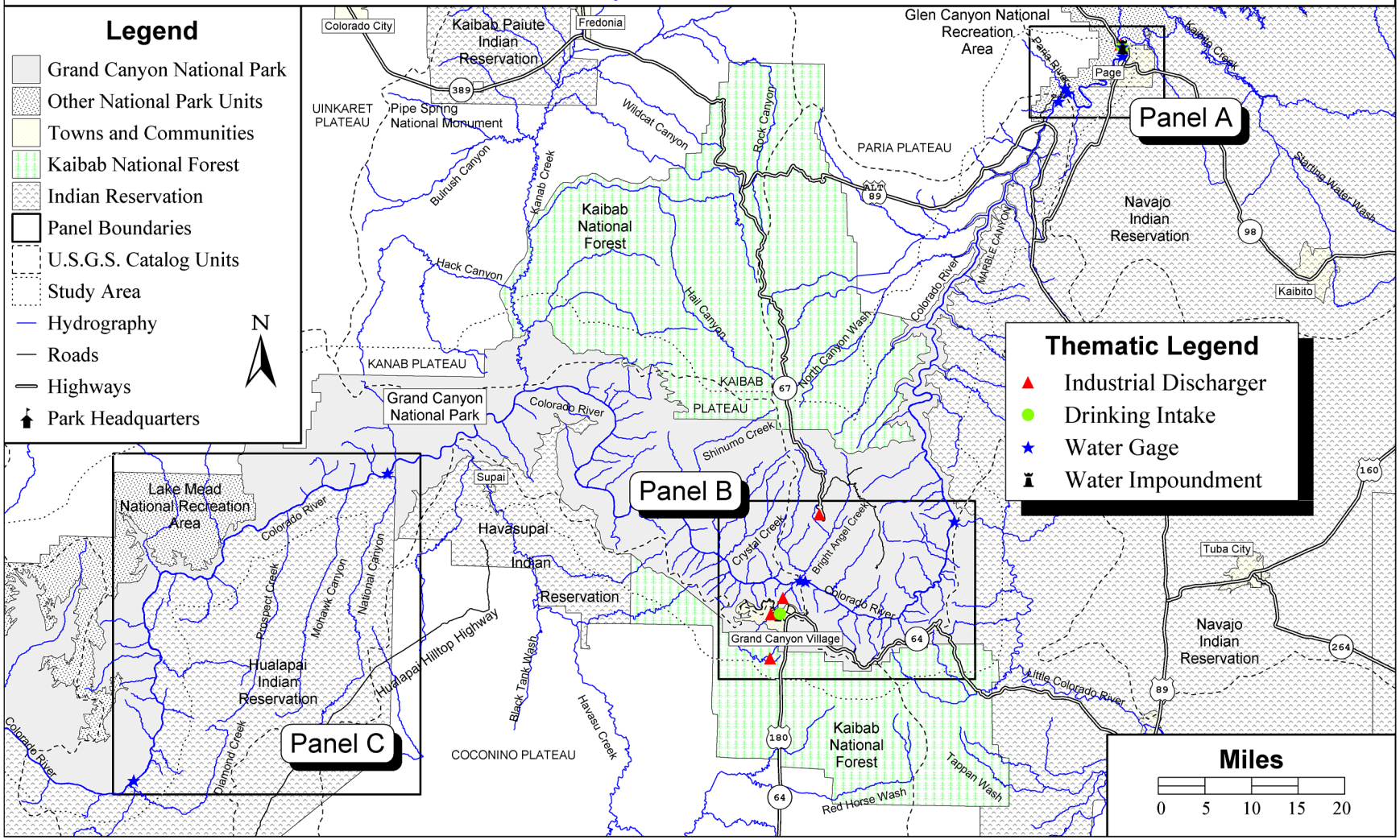
Water Quality Monitoring Locations



Grand Canyon National Park

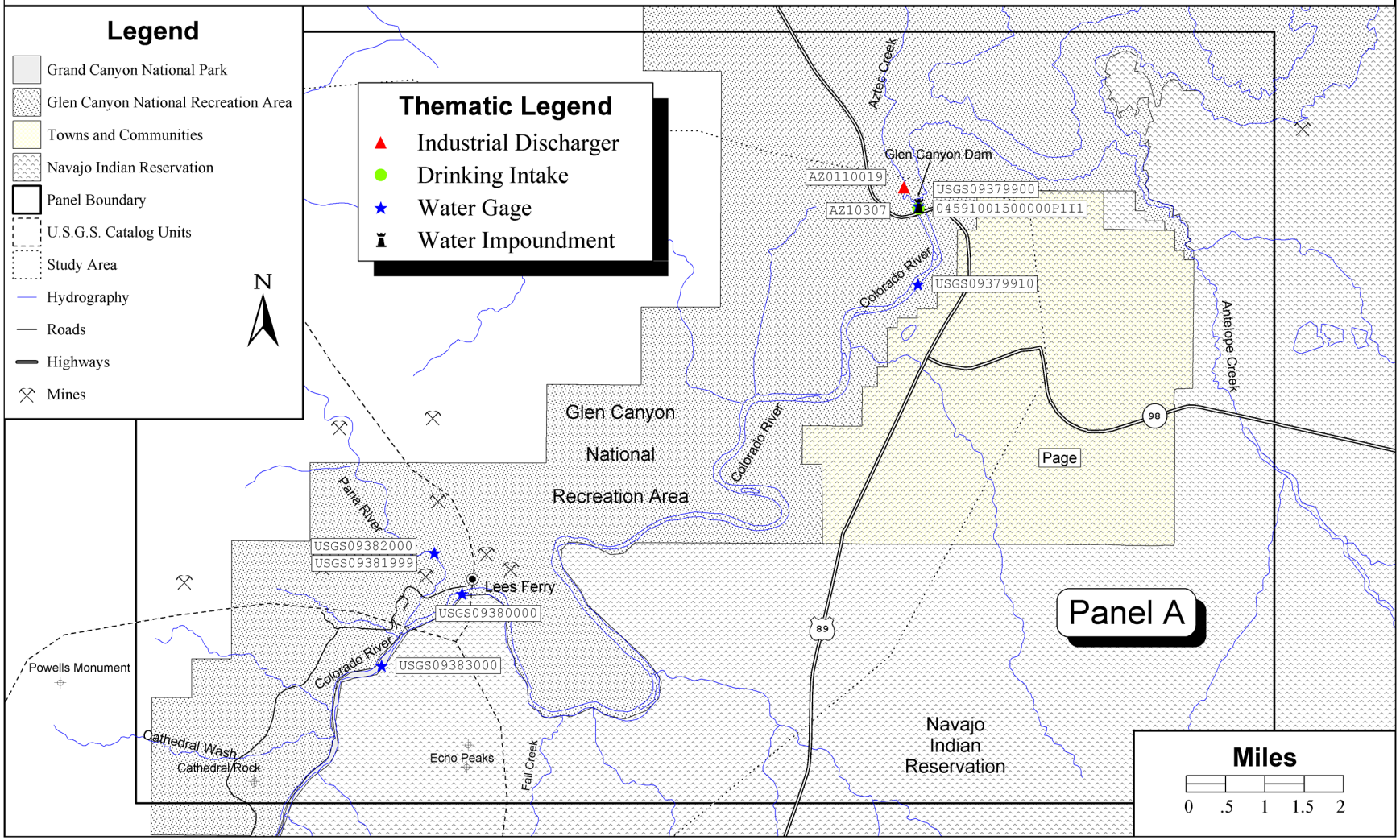
Dischargers, Drinking Intakes, Water Gages, & Water Impoundments

Graphic Panel Index



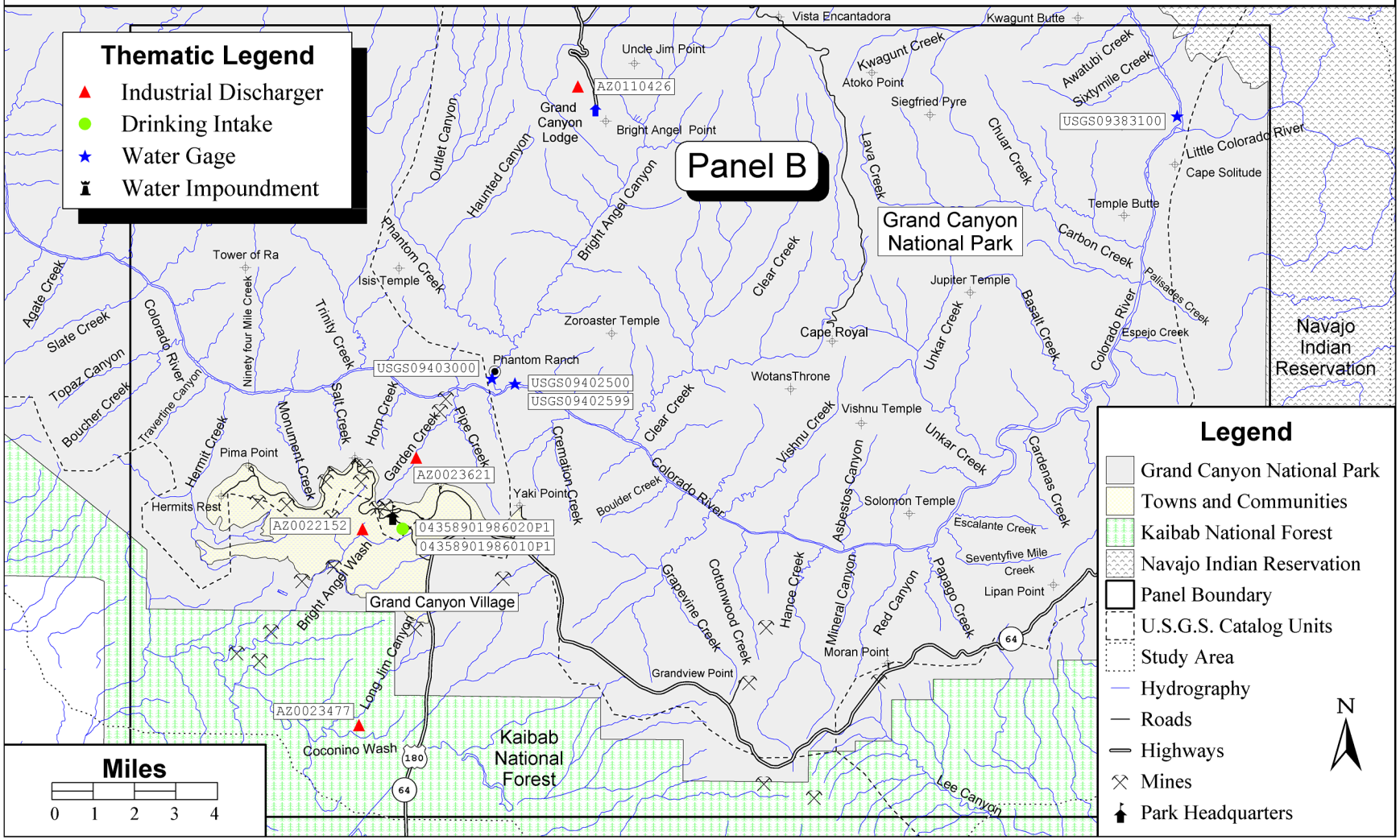
Grand Canyon National Park

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



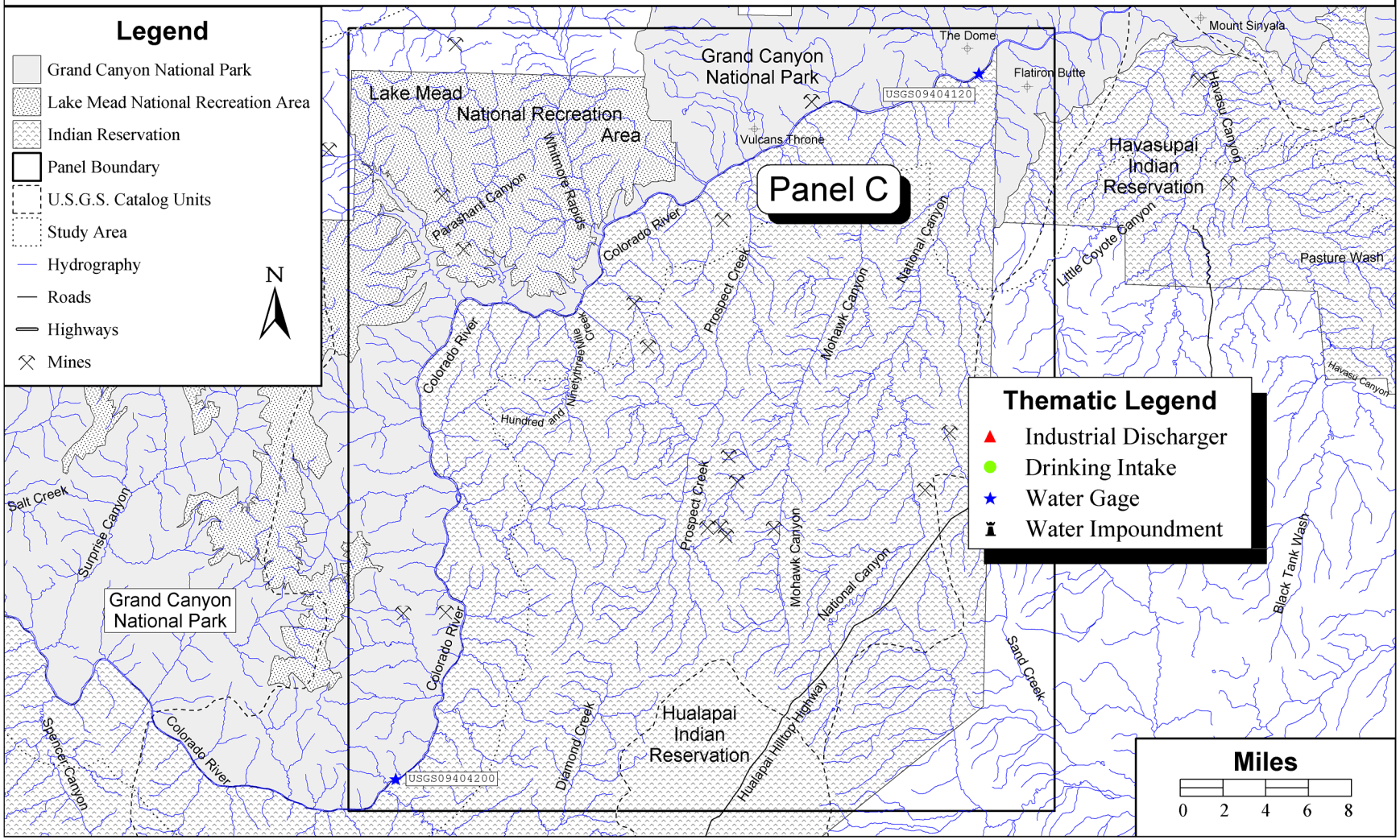
Grand Canyon National Park

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



Grand Canyon National Park

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



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

Industrial Facility Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name
AZ0022152	U.S. NATIONAL PARK SERVICE	GRAND CANYON SOUTH RIM	GRAND CANYON	BRIGHT ANGEL WASH
AZ0023477	SOUTH GRAND CANYON SAN. DIST.			COCONINO WASH
AZ0023621	NPS GRAND CANYON NATIONAL PRK			GARDEN CREEK
AZ0110019	U.S. BUR. RECLAM. GLEN CANYON	GLEN CANYON DAM	PAGE	COLORADO RIVER
AZ0110426	U.S. NATIONAL PARK SERVICE	GRAND CANYON NORTH RIM	FLAGSTAFF	R.W. UNNAMED WASH TO BRIGHT AN

Drinking Water Intakes

Site ID	Station/Facility Name	City	Population Served	Avg. Daily Production (Gal./Day)
04358901986010P1	.....	GRAND CANYON	1600	5000.00
04358901986020P1	.....	GRAND CANYON	6500	0000.00
04591001500000P111	LAKE POWELL	PAGE	6500	

Water Gages

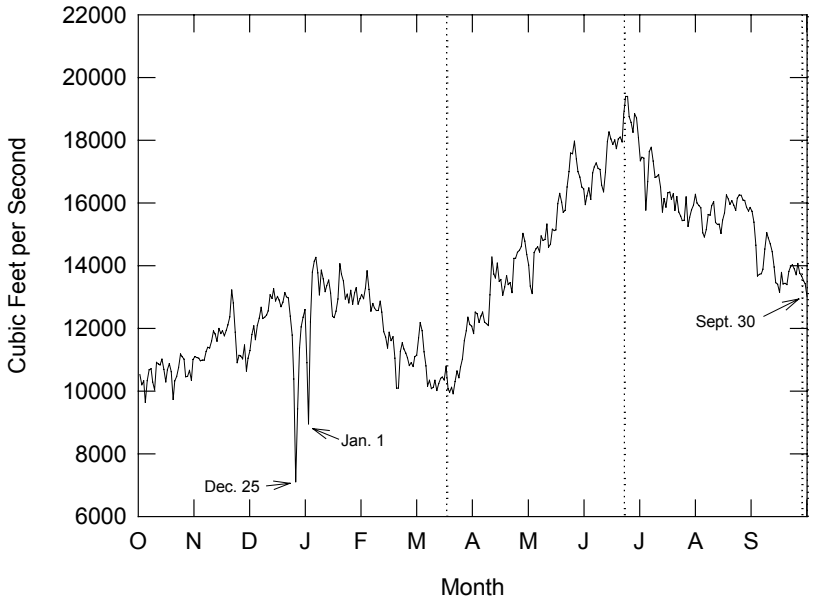
Site ID	Station Name	Site Type	Drainage Area (Square Miles)	Begin Year	End Year
USGS09379900	LAKE POWELL AT GLEN CANYON DAM, ARIZ.	Stream	7700.00		
USGS09380000	COLORADO R AT LEES FERRY, AZ.	Stream	7900.00	1922	1993
USGS09382000	PARIA RIVER AT LEES FERRY, ARIZ.	Stream	1410.00	1924	1993
USGS09402500	COLORADO R. NEAR GRAND CANYON, ARIZ.	Stream	7800.00	1923	1993
USGS09403000	BRIGHT ANGEL CREEK NEAR GRAND CANYON, ARIZ.		0100.00	1924	1974
USGS09379910	COLORADO RIVER BELOW GLEN CANYON DAM, ARIZ.	Stream	107700	1966	1993
USGS09381999	PARIA R FAKE STA TONS DIV BY 10	Stream		1979	1979
USGS09383000	COLORADO RIVER AT COMPACT POINT NR LEES FERRY AZ	Stream	112000	1981	1992
USGS09383100	COLORADO R ABV LITTLE COLORADO R NR DESERT VIEW	Stream	14272.0	1985	1989
USGS09402599	SUMMATION 3800,3820,4020,CONST.220.	Stream		1964	1982
USGS09404120	COLORADO R ABV NATIONAL CANYON NR SUPAI	Stream	47931.0	1983	1989
USGS09404200	COLORADO R ABV DIAMOND CR NR PEACH SPRINGS	Stream	149316	1983	1986

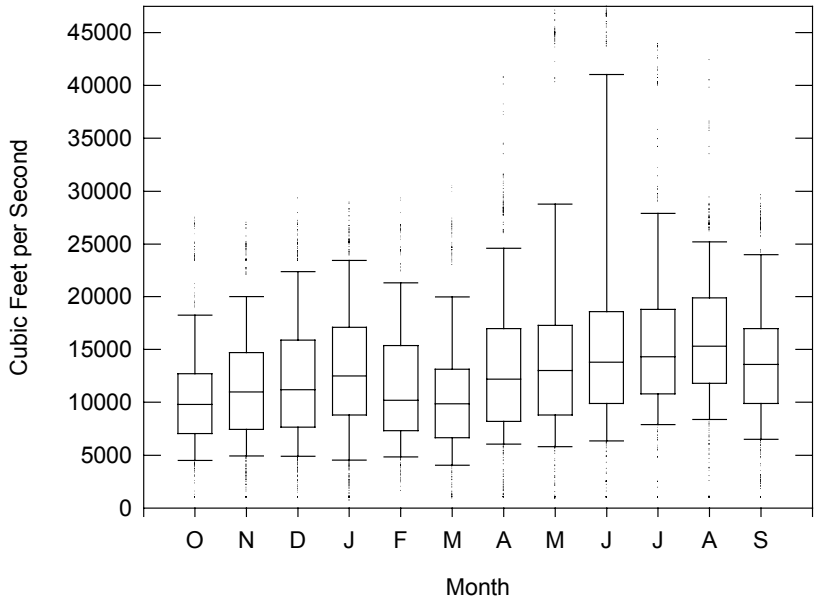
Water Impoundments

Site ID	Impoundment Name	Owner	Primary Purpose	Type of Dam	Downstream Hazard	Year Completed
AZ10307	GLEN CANYON	DOI BR	Hydro	V. Arch	Significant	1966

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

GRAND CANYON NATIONAL PARK
Colorado River at Lee's Ferry, AZ (09380000)
Graph displays water years 1963-1990 (28 years)





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 Grand Canyon National Park are: Oct. 1 to Mar. 14, Mar. 15 to Jun. 19, and Jun. 20 to Sep. 30.

CONTACTS FOR AGENCY CODES RETRIEVED FOR GRCA

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)	
112WRD	WILLIAMS, OWEN	US GEOLOGICAL SURVEY	(703)648-5610	
11NPSWRD	TUCKER, DEAN	NATIONAL PARK SERVICE	(970)225-3516	(970)225-3518
11EPALES	LAMBOU, VICTOR W.	USEPA	(702)798-2259	
21AZRWTR	WILSON, ERIC	USEPA REGION 9	(415)744-1964	
11USBRLC	HEMPHILL, DAVE	US BUREAU OF RECLAMANTION	(702)293-8655	
11TOX09	WILSON, ERIC	USEPA REGION 9	(415)744-1964	
1118C030	STORET USER ASSISTANCE	USEPA HQ	(202)260-7050	(800)424-9067
* DATA FOR 1118C030 HAS BEEN 'RETIRED' AT THE REQUEST OF STORET USER ASSISTANCE (703)883-8861 ON 03/14/86.				
21ARIZ	MEYERHOFF, RICHARD	ARIZONA DEPT ENV QUALITY	(602)207-4539	
1110NET	STORET USER ASSISTANCE	USEPA HQ	(202)260-7050	(800)424-9067
21UTAH	DENTON, RICHARD	UTAH HEALTH DEPT	(801)538-6146	

QUANTITY OF DATA RETRIEVED FOR GRCA BY AGENCY CODE

WITHIN THE ENTIRE STUDY AREA (S.A.) AND JUST WITHIN THE PARK

Agency	Organization	Period of Record		Water Quality Stations		Longer Term[1] Stations		No Data Stations		Water Quality Observations		Water Quality Parameters	
		Study Area	Park Only	S.A.	Park	S.A.	Park	S.A.	Park	S.A.	Park	S.A.	Park
112WRD	US GEOLOGICAL SURVEY	08/23/25-09/22/95	08/23/25-03/30/92	88	43	6	3	2	1	83655	41127	316	195
11NPSWRD	NATIONAL PARK SERVICE	05/24/92-10/25/95	05/24/92-10/25/95	56	52	24	21	0	0	7005	6213	48	47
11EPALES	USEPA	02/24/75-06/10/76	No Data in Park	3	0	0	0	0	0	329	0	16	0
21AZRWTR	USEPA REGION 9	No Data in S.A.	No Data in Park	10	9	0	0	10	9	0	0	0	0
11USBRLC	US BUREAU OF RECLAMANTION	11/01/41-06/01/53	No Data in Park	2	1	1	0	1	1	1148	0	13	0
11TOX09	USEPA REGION 9	08/29/80-05/27/89	05/26/89-05/27/89	4	2	0	0	0	0	504	12	374	6
1118C030	USEPA HQ	05/06/63-06/27/72	No Data in Park	1	0	0	0	0	0	363	0	23	0
21ARIZ	ARIZONA DEPT ENV QUALITY	No Data in S.A.	No Data in Park	1	0	0	0	1	0	0	0	0	0
1110NET	USEPA HQ	10/01/59-02/17/71	No Data in Park	1	0	1	0	0	0	9897	0	122	0
21UTAH	UTAH HEALTH DEPT	05/10/78-09/22/94	No Data in Park	2	0	1	0	0	0	2010	0	97	0
Totals		08/23/25-10/25/95	08/23/25-10/25/95	168	107	33	24	14	11	104911	47352	768	219

[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 08/23/25 To 10/25/95

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75
GRCA0001[1]	COLORADO RIVER AT PAGE	No	9897	0	0	9897
GRCA0002	COLORADO RIVER BELOW GLEN CANYON DAM, ARIZ.	No	474	474	0	0
GRCA0003	COLORADO RIVER BLW GLEN CYN DAM	No	231	231	0	0
GRCA0004[1]	COLORADO RIVER BL GLEN CANYON DAM	No	1779	574	1205	0
GRCA0005	THE DAM	No	24	24	0	0
GRCA0006	A-40-08 18DBC	No	30	0	30	0
GRCA0007	LEES FERRY @ RAFT RAMP	No	133	0	133	0
GRCA0008	COLORADO RIVER AT LEE'S FERRY	No	359	0	359	0
GRCA0009	COLORADO RIVER AT LEES FERRY	No	0	0	0	0
GRCA0010	COLORADO RIVER AT PAGE	No	363	0	0	363
GRCA0011[1]	COLORADO R AT LEES FERRY, AZ.	No	32269	5606	4775	21888
GRCA0012[1]	PARIA RIVER AT LEES FERRY, ARIZ.	No	6758	3131	1279	2348
GRCA0013[1]	COLORADO RIVER CONFLUENCE WITH PARIA RIVER	No	232	232	0	0
GRCA0014	PARIA R.AZ/NM PLATEAU	No	0	0	0	0
GRCA0015	03 029-05.59X16.13	No	21	0	0	21
GRCA0016	3A-188 0304408120627	No	21	0	0	21
GRCA0017[1]	PARIA R. BLW. WATER POCKETS GULCH NR PAGE,AZ	No	1082	0	1082	0
GRCA0018	A-40-07 30ACA	No	0	0	0	0
GRCA0019	A-39-06 12BAD	No	28	0	28	0
GRCA0020	RM 3.1, LITTLE COLORADO RIVER	No	155	0	77	78
GRCA0021	A-39-06 17DAB	No	29	0	29	0
GRCA0022[1]	LITTLE COLORADO RIVER	Yes	299	299	0	0
GRCA0023	LITTLE COLORADO R. (MOUTH)AZ/NM PLATEAU	Yes	0	0	0	0
GRCA0024	RM 0.1, LITTLE COLORADO RIVER	Yes	27	0	27	0
GRCA0025[1]	LAVA CANYON AT COLORADO RIVER	Yes	286	286	0	0
GRCA0026	GC-48 0306204051652	Yes	19	0	0	19
GRCA0027[1]	KWAGUNT CREEK AT COLORADO RIVER	Yes	160	160	0	0
GRCA0028	FENCE SPRINGS ON RIVER LEFT	Yes	61	61	0	0
GRCA0029	RM 34.2, GCNP: SPRING	Yes	5	0	5	0
GRCA0030[1]	VASSEY'S PARADISE - FIRST PLUNGE POOL	Yes	300	300	0	0
GRCA0031	N14 VASEY'S PARADISE, RM31.9	Yes	49	0	49	0
GRCA0032	A-36-05 27B UNSURV	Yes	23	0	0	23
GRCA0033[1]	NANKOWEAP CREEK AT COLORADO RIVER	Yes	346	346	0	0
GRCA0034	NANKONEAP CREEK 100 MET FROM MOUTH OF COL RIVER	Yes	27	0	27	0
GRCA0035	NANKOWEAP CR. AZ/NM PLATEAU	Yes	0	0	0	0
GRCA0036	COLORADO RIVER CONFLUENCE WITH UNKAR CREEK	Yes	10	10	0	0
GRCA0037	A-35-05 32D UNSURV	Yes	0	0	0	0
GRCA0038	N7 NANKOWEAP CRK BLW SPRINGS, 2 MI ABV MOUTH	Yes	45	0	45	0
GRCA0039[1]	COLORADO RIVER CONFLUENCE WITH SADDLE CANYON	Yes	116	116	0	0
GRCA0040	VTGS1 RED CN AT TONTO TR	Yes	45	0	45	0
GRCA0041	VT43 HANCE CN AT TONTO TR	Yes	44	0	44	0
GRCA0042	MINER SPRING EAST SIDE HORSESHOE MESA	Yes	12	12	0	0
GRCA0043	VT9 MINERS SP AT TRAIL IN HANCE CN	Yes	42	0	42	0
GRCA0044	VT11 COTTONWOOD CRK TRIB AT TONTO TR	Yes	43	0	43	0
GRCA0045	SPRING IN SOUTH ARM COTTONWOOD CANYON	Yes	11	11	0	0
GRCA0046	UNNAMED SPRING IN COTTONWOOD CANYON	Yes	11	11	0	0
GRCA0047	BA82 CLEAR CRK AT CLEAR CRK TR	Yes	42	0	42	0
GRCA0048	GRAPEVINE CANYON SPRINGS	Yes	11	11	0	0
GRCA0049	BA80 GRAPEVINE CRK AT TONTO TR	Yes	43	0	43	0
GRCA0050	ROARING SPRINGS	Yes	20	20	0	0
GRCA0051	A-32-03 01C UNSURV	Yes	13	0	0	13
GRCA0052[1]	CLEAR CREEK AT COLORADO RIVER	Yes	214	214	0	0
GRCA0053	BAGS3 BRIGHT ANGEL CRK AT COTTONWOOD CAMP	Yes	44	0	44	0
GRCA0054	RIBBON FALLS	Yes	12	12	0	0
GRCA0055[1]	COLORADO R. NEAR GRAND CANYON, ARIZ.	Yes	35650	899	1934	32817
GRCA0056	ROBBERS ROOST SPRING	Yes	12	12	0	0
GRCA0057	BRIGHT ANGEL CREEK AT COLORADO RIVER	Yes	9	9	0	0
GRCA0058[1]	BRIGHT ANGEL CREEK BELOW FIRST BRIDGE	Yes	217	217	0	0
GRCA0059	SUSPENSION BRIDGE ACROSS COLORADO RIVER	Yes	70	70	0	0
GRCA0060[1]	BRIGHT ANGEL CREEK NEAR GRAND CANYON, ARIZ.	Yes	1469	0	42	1427
GRCA0061	BRIGHT ANGEL CR. AZ/NM PLATEAU	Yes	0	0	0	0
GRCA0062	BA24 BURRO SP AT TONTO TR	Yes	42	0	42	0
GRCA0063	BURRO SPRINGS	Yes	20	20	0	0
GRCA0064	PIPE SPRINGS/PIPE CREEK AT TONTO TRAIL	Yes	21	21	0	0
GRCA0065	BA25 PIPE CRK AT TONTO TR	Yes	42	0	42	0
GRCA0066	BA107 GARDEN CRK BELOW PUMPHOUSE	Yes	44	0	44	0
GRCA0067	GARDEN CREEK	Yes	48	48	0	0
GRCA0068	BA26 GARDEN CRK AT INDIAN GARDENS RANGER STN	Yes	42	0	42	0
GRCA0069	GARDEN CREEK BELOW PUMPHOUSE	Yes	34	34	0	0
GRCA0070	EAST FORK OF HORN CREEK	Yes	9	9	0	0
GRCA0071	BA28X SALT CRK AT TONTO TR	Yes	42	0	42	0

Station Period of Record Tabulation
From 08/23/25 To 10/25/95

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75
GRCA0072	SALT CREEK BELOW TONTO TRAIL	Yes	10	10	0	0
GRCA0073	CEDAR SPRING	Yes	1	1	0	0
GRCA0074	MONUMENT CREEK AT TONTO TRAIL	Yes	12	12	0	0
GRCA0075	BA46 MONUMENT CRK AT TONTO TR	Yes	43	0	43	0
GRCA0076[1]	MONUMENT CREEK AT COLORADO RIVER	Yes	112	112	0	0
GRCA0077	BA55 MONUMENT CRK AT MOUTH, RM93.3	Yes	29	0	29	0
GRCA0078[1]	HERMIT CREEK AT COLORADO RIVER	Yes	338	338	0	0
GRCA0079	BA74 HERMIT CRK AT MOUTH, RM94.8	Yes	27	0	27	0
GRCA0080	HERMIT CREEK AT TONTO TRAIL	Yes	46	46	0	0
GRCA0081	BAGS2 HERMIT CRK AT HERMIT CAMP	Yes	43	0	43	0
GRCA0082	HERMIT CR. AZ/NM PLATEAU	Yes	0	0	0	0
GRCA0083	BA3F BOUCHER CRK AT BOUCHER CABIN	Yes	41	0	41	0
GRCA0084	BOUCHER CREEK DOWNSTREAM FROM CAMP	Yes	14	14	0	0
GRCA0085	DRIPPING SPRING	Yes	11	11	0	0
GRCA0086	BA76 CRYSTAL CRK AT MOUTH, RM98	Yes	70	0	70	0
GRCA0087[1]	CRYSTAL CREEK AT COLORADO RIVER	Yes	335	335	0	0
GRCA0088[1]	SHINUMO CREEK AT COLORADO RIVER	Yes	315	315	0	0
GRCA0089	HP67 SHINUMO CRK AT MOUTH, RM108.5	Yes	70	0	70	0
GRCA0090	TAPEATS SPRING	Yes	9	9	0	0
GRCA0091	B-35-01 29B UNSURV	Yes	18	0	0	18
GRCA0092	ROYAL ARCH CR. AZ/NM PLATEAU	Yes	0	0	0	0
GRCA0093[1]	COLORADO RIVER CONFLUENCE WITH STONE CREEK	Yes	189	189	0	0
GRCA0094	HP68 ROYAL ARCH CRK AT MOUTH AT ELVES CHASM	Yes	72	0	72	0
GRCA0095[1]	COLORADO RIVER CONFLUENCE WITH ROYAL ARCH CREEK	Yes	307	307	0	0
GRCA0096	COLORADO RIVER CONFLUENCE WITH THUNDER RIVER	Yes	50	50	0	0
GRCA0097	B-35-02 25D UNSURV	Yes	17	0	0	17
GRCA0098[1]	TAPEATS CREEK AT COLORADO RIVER	Yes	378	378	0	0
GRCA0099	TAPEATS CR. AZ/NM PLATEAU	Yes	0	0	0	0
GRCA0100	PP35 TAPEATS CRK AT MOUTH, RM133.6	Yes	71	0	71	0
GRCA0101	BLACKTAIL SPRING - POOL BELOW CASCADE	Yes	8	8	0	0
GRCA0102	DEER CREEK ABOVE NARROWS	Yes	11	11	0	0
GRCA0103[1]	DEER CREEK AT COLORADO RIVER	Yes	227	227	0	0
GRCA0104	KP26 DEER CRK AT MOUTH, RM136.2	Yes	71	0	71	0
GRCA0105	KP27 KANAB CRK AT MOUTH, RM143.5	Yes	44	0	44	0
GRCA0106[1]	KANAB CREEK AT COLORADO RIVER	Yes	379	379	0	0
GRCA0107	KANAB CREEK AB COLORADO RIVER	Yes	6	6	0	0
GRCA0108	MATKATAMIBA CR.AZ/NM PLATEAU	Yes	0	0	0	0
GRCA0109	RM147.9, GCNP: SPRING	Yes	7	0	7	0
GRCA0110[1]	MATKATAMIBA CANYON AT COLORADO RIVER	Yes	182	182	0	0
GRCA0111	B-33-04 26 UNSURV. HAVASU SPRINGS	No	77	77	0	0
GRCA0112	SAMPLE POINT #25 HAVASU CREEK NR SUPAI AZ	No	59	0	59	0
GRCA0113	B-33-04 11 UNSURV. FERN SPRING	No	77	77	0	0
GRCA0114	RM151.5, GCNP: SPRING	Yes	7	0	7	0
GRCA0115	LEDGES AT POUROVER BETWEEN SOURCE AND RIVER	Yes	7	7	0	0
GRCA0116	PARADISE (SLIME)	Yes	10	10	0	0
GRCA0117	HAVASU CREEK 200 M AB MOUTH WITH COLORADO RIVER	Yes	27	0	27	0
GRCA0118	HAVASU CR. AZ/NM PLATEAU	Yes	0	0	0	0
GRCA0119[1]	HAVASU CREEK AT COLORADO RIVER	Yes	353	353	0	0
GRCA0120	HAVASU CREEK AB CFL COLORADO RIVER	Yes	6	6	0	0
GRCA0121	B-36-06 24 UNSURV	No	9	9	0	0
GRCA0122	NATIONAL CANYON ABV MOUTH AT RM 166.5 IN HUALAPA	No	39	39	0	0
GRCA0123[1]	COLORADO RIVER CONFLUENCE WITH NATIONAL CANYON	No	289	289	0	0
GRCA0124[1]	COLORADO R ABV NATIONAL CANYON NR SUPAI	Yes	1968	1968	0	0
GRCA0125	RM168.0, GCNP: SPRING AT FERN GLEN CANYON	Yes	5	0	5	0
GRCA0126	FERN GLEN	Yes	9	9	0	0
GRCA0127	Mohawk Canyon abv mouth at RM 171.5	No	16	16	0	0
GRCA0128	B-33-06 30 UNSURV	No	9	9	0	0
GRCA0129	B-33-07 28C UNSURV	Yes	30	0	30	0
GRCA0130[1]	WARM SPRINGS	Yes	191	191	0	0
GRCA0131	B-33-08 31 UNSURV	No	180	149	31	0
GRCA0132	RM179.3, GCNP: LAVA WARM SPRINGS	No	31	0	31	0
GRCA0133	B-32-08 10 UNSURV	No	28	28	0	0
GRCA0134	B-31-08 18BAD	No	64	64	0	0
GRCA0135	B-34-08 19ABC	No	48	0	31	17
GRCA0136[1]	COLORADO RIVER CONFL. WITH THREE SPRING CANYON	No	247	247	0	0
GRCA0137	B-29-10 25 UNSURV	No	97	97	0	0
GRCA0138	UNSURVEYED	No	70	70	0	0
GRCA0139	B-30-10 25UNSURV GRANITE SPG @ RM 209	No	12	12	0	0
GRCA0140	222 MILE CANYON SPRINGS	No	12	12	0	0
GRCA0141	B-29-10 14 UNSURV	No	9	9	0	0
GRCA0142	B-29-10 14UNSURV PUMPKIN SPG RM 213	No	13	13	0	0

Station Period of Record Tabulation
From 08/23/25 To 10/25/95

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75
GRCA0143	RM212.9, GCNP: PUMKIN SPRING	No	31	0	31	0
GRCA0144	PUMPKIN SPRING RM 212.9	Yes	53	53	0	0
GRCA0145	SPRING CANYON SOUTHERN BASIN & RANGE	Yes	0	0	0	0
GRCA0146[1]	COLORADO RIVER CONFLUENCE WITH SPRING CANYON	Yes	335	335	0	0
GRCA0147	COLORADO R ABV DIAMOND CR NR PEACH SPRINGS	Yes	625	625	0	0
GRCA0148	DIAMOND CREEK ABV MOUTH AT RM 225.7	No	79	79	0	0
GRCA0149	COLORADO RIVER CONFLUENCE WITH DIAMOND CREEK	Yes	12	12	0	0
GRCA0150	TRAVERTINE CANYON ABV. MOUTH AT RM229	No	94	94	0	0
GRCA0151	B-27-11 10UNSURV	No	83	83	0	0
GRCA0152	B-27-11 03UNSURV	No	91	91	0	0
GRCA0153	234 MILE CANYON ABV MOUTH AT RM234	No	15	15	0	0
GRCA0154	BRIDGE CANYON ABV MOUTH AT RM235.3	No	17	17	0	0
GRCA0155	B-28-12 35UNSURV	No	83	83	0	0
GRCA0156	B-28-13 26 UNSURV.	No	8	8	0	0
GRCA0157	SPENCER CANYON ABV MOUTH AT RM246	No	18	18	0	0
GRCA0158	B-29-13 33UNSURV	No	86	86	0	0
GRCA0159	LAKE MEAD	No	89	0	89	0
GRCA0160	B-30-14 26UNSURV	No	85	85	0	0
GRCA0161	B-30-14 27 UNSURV	No	4	4	0	0
GRCA0162	B-31-15 26 UNSURV.	No	16	16	0	0
GRCA0163	COLUMBINE FALLS	Yes	0	0	0	0
GRCA0164	B-30-15 19CCA	No	100	100	0	0
GRCA0165	LAKE MEAD	No	136	0	136	0
GRCA0166[1]	PIERCE FERRY BAY	No	1148	0	0	1148
GRCA0167	LAKE MEAD	No	104	0	104	0
GRCA0168	B-31-16 29CAD	No	1	0	0	1

[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 08/23/25 To 10/25/95

Parameter Code	Name	Total Obs	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	159	2	32	125	9	2
00004	STREAM WIDTH (FEET)	120	120	0	0	10	3
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	72	7	55	10	11	2
00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)	282	282	0	0	2	1
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	2232	848	318	1066	143	92
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	533	467	39	27	87	54
00025	BAROMETRIC PRESSURE (MM OF HG)	244	220	24	0	22	3
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	1006	914	70	22	45	12
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	1131	914	183	34	74	33
00041	WEATHER (WMO CODE 4501)	1	1	0	0	1	0
00049	SURFACE AREA IN SQUARE MILES	1109	0	0	1109	4	2
00056	FLOW, RATE GALLONS/DAY	7	7	0	0	1	1
00058	FLOW, RATE GALLONS/MIN	11	11	0	0	1	1
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	34	29	5	0	8	6
00060	FLOW, STREAM, MEAN DAILY CFS	3105	0	72	3033	5	2
00061	FLOW, STREAM, INSTANTANEOUS CFS	1818	1105	273	440	98	62
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	177	171	0	6	27	3
00065	STAGE, STREAM (FEET)	537	516	21	0	7	3
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	1	0	1	0	1	0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	344	0	53	291	4	0
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	7	0	7	0	1	0
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	246	127	119	0	36	27
00077	TRANSPARENCY, SECCHI DISC (INCHES)	4	1	3	0	2	1
00078	TRANSPARENCY, SECCHI DISC (METERS)	1	1	0	0	1	1
00080	COLOR (PLATINUM-COBALT UNITS)	408	0	0	408	3	1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	420	271	47	102	58	49
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	2587	251	269	2067	90	44
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	250	250	0	0	49	46
00300	OXYGEN, DISSOLVED MG/L	565	255	157	153	37	6
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	281	280	0	1	50	46
00310	BOD, 5 DAY, 20 DEG C MG/L	74	0	4	70	2	0
00335	COD, .025N K2CR2O7 MG/L	39	14	24	1	2	0
00340	COD, .25N K2CR2O7 MG/L	67	66	1	0	2	1
00370	CHLORINE DEMAND, 1 HOUR (MG/L)	1	0	0	1	1	0
00380	CHLORINE DEMAND, 24 HOUR (MG/L)	2	0	0	2	1	0
00400	PH (STANDARD UNITS)	2489	210	260	2019	81	34
00403	PH, LAB, STANDARD UNITS SU	209	134	75	0	46	27
00405	CARBON DIOXIDE (MG/L AS CO2)	592	21	118	453	15	5
00406	PH, FIELD, STANDARD UNITS SU	264	264	0	0	54	51
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	2380	333	225	1822	80	59
00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	1	1	0	0	1	0
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	4	4	0	0	2	1
00440	BICARBONATE ION (MG/L AS HCO3)	2762	29	129	2604	21	8
00445	CARBONATE ION (MG/L AS CO3)	595	30	122	443	20	7
00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	1	1	0	0	1	0
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	3	3	0	0	2	1
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	133	133	0	0	28	3
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	136	136	0	0	28	3
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	197	0	25	172	2	0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	499	228	17	254	32	25
00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	11	0	10	1	1	0
00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	11	0	10	1	1	0
00600	NITROGEN, TOTAL (MG/L AS N)	68	0	59	9	5	1
00602	NITROGEN, DISSOLVED (MG/L AS N)	20	0	20	0	2	1
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	37	0	37	0	3	1
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	19	0	19	0	2	1
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	170	130	40	0	18	3
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	457	332	88	37	57	45
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	171	82	25	64	17	2
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	91	77	11	3	6	3
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	1019	14	27	978	8	5
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	14	0	11	3	2	0
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	38	1	37	0	3	1
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	34	0	34	0	3	1
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	450	310	131	9	53	28
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	436	286	111	39	42	28
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	398	139	145	114	48	28
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	27	0	0	27	1	0
00636	NITROGEN, AMMONIA&ORG., DISS. 1 DET (MG/L AS N)	10	0	0	10	1	0
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	41	38	3	0	26	24
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	113	0	0	113	1	0

Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Parameter Code	Name	Total Obs	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	173	0	82	91	32	26
00665	PHOSPHORUS, TOTAL (MG/L AS P)	476	316	134	26	55	28
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	213	130	60	23	20	3
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	380	153	147	80	52	28
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	145	72	52	21	11	3
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	32	1	11	20	3	0
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	11	1	10	0	2	0
00746	SULFIDE, DISSOLVED (MG/L AS S)	1	0	1	0	1	0
00900	HARDNESS, TOTAL (MG/L AS CACO3)	2969	36	230	2703	59	44
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	2551	0	163	2388	18	8
00915	CALCIUM, DISSOLVED (MG/L AS CA)	2891	149	247	2495	61	32
00916	CALCIUM, TOTAL (MG/L AS CA)	160	160	0	0	31	28
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	2891	149	246	2496	61	32
00927	MAGNESIUM, TOTAL (MG/L AS MG)	160	160	0	0	31	28
00929	SODIUM, TOTAL (MG/L AS NA)	148	148	0	0	28	25
00930	SODIUM, DISSOLVED (MG/L AS NA)	2636	149	246	2241	58	30
00931	SODIUM ADSORPTION RATIO	2320	1	202	2117	41	30
00932	SODIUM, PERCENT	2181	0	202	1979	39	28
00933	SODIUM,PLUS POTASSIUM (MG/L)	266	0	34	232	8	1
00935	POTASSIUM, DISSOLVED (MG/L AS K)	2214	148	246	1820	58	30
00937	POTASSIUM, TOTAL MG/L AS K)	148	148	0	0	28	25
00940	CHLORIDE,TOTAL IN WATER MG/L	3097	301	248	2548	93	61
00941	CHLORIDE, DISSOLVED IN WATER MG/L	27	7	20	0	2	0
00945	SULFATE, TOTAL (MG/L AS SO4)	2861	319	220	2322	108	77
00946	SULFATE, DISSOLVED (MG/L AS SO4)	48	21	27	0	2	0
00950	FLUORIDE, DISSOLVED (MG/L AS F)	1810	128	238	1444	58	30
00951	FLUORIDE, TOTAL (MG/L AS F)	148	148	0	0	28	25
00955	SILICA, DISSOLVED (MG/L AS SI02)	2371	188	235	1948	80	50
01000	ARSENIC, DISSOLVED (UG/L AS AS)	210	86	110	14	43	25
01001	ARSENIC, SUSPENDED (UG/L AS AS)	28	0	26	2	5	1
01002	ARSENIC, TOTAL (UG/L AS AS)	301	238	61	2	36	26
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	2	0	2	0	2	0
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	1	0	1	0	1	0
01005	BARIUM, DISSOLVED (UG/L AS BA)	195	91	94	10	33	11
01006	BARIUM, SUSPENDED (UG/L AS BA)	20	0	20	0	4	1
01007	BARIUM, TOTAL (UG/L AS BA)	59	14	45	0	5	1
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	72	41	22	9	27	10
01012	BERYLLIUM, TOTAL (UG/L AS BE)	161	160	1	0	30	25
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	2	0	2	0	2	0
01015	BISMUTH, DISSOLVED (UG/L AS BI)	13	0	13	0	13	10
01020	BORON, DISSOLVED (UG/L AS B)	1786	84	193	1509	55	31
01022	BORON, TOTAL (UG/L AS B)	147	6	4	137	2	1
01025	CADMIUM, DISSOLVED (UG/L AS CD)	179	86	79	14	52	30
01026	CADMIUM, SUSPENDED (UG/L AS CD)	31	0	29	2	5	1
01027	CADMIUM, TOTAL (UG/L AS CD)	294	234	58	2	36	26
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	2	0	2	0	2	0
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	2	0	2	0	2	0
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	154	87	55	12	33	11
01031	CHROMIUM, SUSPEND (UG/L AS CR)	30	0	28	2	5	1
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	11	0	11	0	1	0
01034	CHROMIUM, TOTAL (UG/L AS CR)	297	238	57	2	36	26
01035	COBALT, DISSOLVED (UG/L AS CO)	124	55	55	14	32	11
01036	COBALT, SUSPENDED (UG/L AS CO)	26	0	24	2	5	1
01037	COBALT, TOTAL (UG/L AS CO)	35	0	33	2	6	1
01040	COPPER, DISSOLVED (UG/L AS CU)	223	87	122	14	52	30
01041	COPPER, SUSPENDED (UG/L AS CU)	34	0	32	2	6	1
01042	COPPER, TOTAL (UG/L AS CU)	297	237	58	2	36	26
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	3	0	2	1	3	1
01044	IRON, SUSPENDED (UG/L AS FE)	15	0	15	0	6	1
01045	IRON, TOTAL (UG/L AS FE)	770	68	33	669	7	1
01046	IRON, DISSOLVED (UG/L AS FE)	1475	102	195	1178	57	31
01049	LEAD, DISSOLVED (UG/L AS PB)	220	87	119	14	52	30
01050	LEAD, SUSPENDED (UG/L AS PB)	33	0	31	2	6	1
01051	LEAD, TOTAL (UG/L AS PB)	298	239	57	2	36	26
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	2	0	2	0	2	0
01054	MANGANESE, SUSPENDED (UG/L AS MN)	32	0	30	2	5	1
01055	MANGANESE, TOTAL (UG/L AS MN)	159	89	56	14	8	1
01056	MANGANESE, DISSOLVED (UG/L AS MN)	217	92	123	2	52	30
01059	THALLIUM, TOTAL (UG/L AS TL)	154	154	0	0	29	25
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	114	56	46	12	46	29
01065	NICKEL, DISSOLVED (UG/L AS NI)	126	55	59	12	47	29

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Parameter Code	Name	Total Obs	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
01066	NICKEL, SUSPENDED (UG/L AS NI)	12	0	12	0	2	0
01067	NICKEL, TOTAL (UG/L AS NI)	194	161	33	0	32	25
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	2	0	2	0	2	0
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	1	0	1	0	1	0
01070	PHOSPHORUS, TOTAL, SPECTROGRAPH METH (UG/L AS P)	9	0	0	9	1	0
01075	SILVER, DISSOLVED (UG/L AS AG)	144	90	42	12	31	11
01076	SILVER, SUSPENDED (UG/L AS AG)	15	0	15	0	3	1
01077	SILVER, TOTAL (UG/L AS AG)	206	163	43	0	33	26
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	1	0	1	0	1	0
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	88	55	22	11	27	10
01085	VANADIUM, DISSOLVED (UG/L AS V)	114	56	46	12	46	29
01090	ZINC, DISSOLVED (UG/L AS ZN)	224	88	122	14	52	30
01091	ZINC, SUSPENDED (UG/L ZN)	32	0	30	2	6	1
01092	ZINC, TOTAL (UG/L AS ZN)	298	238	58	2	36	26
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	2	0	2	0	2	0
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	11	10	1	0	11	0
01097	ANTIMONY, TOTAL (UG/L AS SB)	162	161	1	0	30	25
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	2	0	2	0	2	0
01099	ANTIMONY,TISSUE,WET WEIGHT,MG/KG	1	0	1	0	1	0
01100	TIN, DISSOLVED (UG/L AS SN)	13	0	13	0	13	10
01105	ALUMINUM, TOTAL (UG/L AS AL)	8	0	0	8	1	0
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	90	44	46	0	34	29
01120	GALLIUM, DISSOLVED (UG/L AS GA)	13	0	13	0	13	10
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	13	0	13	0	13	10
01130	LITHIUM, DISSOLVED (UG/L AS LI)	78	56	22	0	26	10
01145	SELENIUM, DISSOLVED (UG/L AS SE)	203	91	108	4	45	25
01146	SELENIUM, SUSPENDED (UG/L AS SE)	37	0	35	2	6	1
01147	SELENIUM, TOTAL (UG/L AS SE)	300	239	59	2	35	26
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	1	0	1	0	1	0
01150	TITANIUM, DISSOLVED (UG/L AS TI)	13	0	13	0	13	10
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	13	0	13	0	13	10
01325	ALGAE, FLOATING MATS (SEVERITY)	1	1	0	0	1	1
01345	DEBRIS, FLOATING (SEVERITY)	1	1	0	0	1	1
01350	TURBIDITY (SEVERITY)	2	2	0	0	2	0
01501	ALPHA, TOTAL	445	35	2	408	20	14
01502	ALPHA, TOTAL, COUNTING ERROR	340	17	0	323	16	11
01503	ALPHA, DISSOLVED	408	0	0	408	2	0
01504	ALPHA, DISSOLVED, COUNTING ERROR	323	0	0	323	2	0
01505	ALPHA, SUSPENDED	408	0	0	408	2	0
01506	ALPHA, SUSPENDED, COUNTING ERROR	323	0	0	323	2	0
03501	BETA, TOTAL	447	35	2	410	20	14
03502	BETA, TOTAL, COUNTING ERROR	343	19	0	324	13	9
03503	BETA, DISSOLVED	409	0	0	409	2	0
03504	BETA, DISSOLVED, COUNTING ERROR	324	0	0	324	2	0
03505	BETA, SUSPENDED	409	0	0	409	2	0
03506	BETA, SUSPENDED, COUNTING ERROR	324	0	0	324	2	0
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	14	14	0	0	13	0
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	14	14	0	0	13	0
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	19	15	2	2	15	0
07001	TRITIUM,TOTAL,COUNTING ERROR (PICOCURIES/LITER)	2	0	0	2	1	0
07005	TRITIUM, DISSOLVED (PC/L)	1	0	0	1	1	0
07006	TRITIUM, DISSOLVED, COUNTING ERROR (PC/L)	1	0	0	1	1	0
09501	RADIUM 226, TOTAL	4	2	2	0	1	0
09503	RADIUM 226, DISSOLVED	100	0	0	100	1	0
09504	RADIUM 226, DISSOLVED, COUNTING ERROR	45	0	0	45	1	0
09505	RADIUM 226, SUSPENDED	1	0	0	1	1	0
09506	RADIUM 226, SUSPENDED, COUNTING ERROR	1	0	0	1	1	0
09507	RADIUM 226 IN SEDIMENT (PC/G OF DRY SOLIDS)	1	0	0	1	1	0
09508	RADIUM 226 IN SEDIMENT, COUNTING ERROR	1	0	0	1	1	0
09511	RADIUM 226, DISSOLVED, RADON METHOD	14	0	14	0	9	5
11501	RADIUM 228, TOTAL	2	1	1	0	1	0
13501	STRONTIUM 90, TOTAL	17	0	0	17	1	0
13502	STRONTIUM 90, TOTAL, COUNTING ERROR	3	0	0	3	1	0
13503	STRONTIUM 90, DISSOLVED	1	0	0	1	1	0
13504	STRONTIUM 90, DISSOLVED, COUNTING ERROR	1	0	0	1	1	0
15501	STRONTIUM 89, TOTAL	3	0	0	3	1	0
15502	STRONTIUM 89, TOTAL, COUNTING ERROR	3	0	0	3	1	0
22603	URANIUM 238, DISSOLVED, PC/L	5	5	0	0	5	0
22610	URANIUM 234, DISSOLVED, PC/L	5	5	0	0	5	0
22620	URANIUM 235, DISSOLVED. PC/L	5	5	0	0	5	0
22703	URANIUM, NATURAL, DISSOLVED	139	14	25	100	39	24

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22708	URANIUM, NATURAL TOTAL MG/L	9	8	1	0	5	4
28011	URANIUM,NATURAL,TOTAL UG/L AS U	9	9	0	0	9	0
29804	BICARBONATE,WTR,DISS.,FIX ENDPT,FIELD,AS HCO3,MG/L	2	2	0	0	1	0
30004	FENSULFOTHION, WATER, WHOLE, RECOVERABLE UG/L	4	0	0	4	1	0
30205	TEMPERATURE, WOOD (FIRE POTENTIAL) DEG F	1	0	0	1	1	0
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	9	0	0	9	2	0
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	242	0	0	242	1	0
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	7	0	7	0	1	0
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	6	0	6	0	1	0
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	241	215	14	12	34	27
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	200	75	125	0	28	21
31648	E. COLI - MTEC-MF N0/100ML	2	2	0	0	2	1
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	404	282	122	0	60	51
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	27	0	15	12	3	0
32000	SAMPLE SIZE (LITERS)	24	0	0	24	1	0
32001	SAMPLE SIZE (GALLONS)	56	0	0	56	1	0
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	62	0	0	62	1	0
32004	CARBON ALCOHOL EXTRACTABLES	58	0	0	58	1	0
32005	CARBON CHLOROFORM EXTRACTABLES	62	0	0	62	1	0
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	17	0	0	17	1	0
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	17	0	0	17	1	0
32023	ACIDS, STRONG	17	0	0	17	1	0
32024	ACIDS, WEAK	17	0	0	17	1	0
32025	BASES	17	0	0	17	1	0
32026	NEUTRALS, TOTAL	17	0	0	17	1	0
32027	ALIPHATICS FRACTION OF NEUTRALS	17	0	0	17	1	0
32028	AROMATICS FRACTION OF NEUTRALS	17	0	0	17	1	0
32029	OXYGENATED COMPOUNDS FRACTION OF NEUTRALS	17	0	0	17	1	0
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	1	0	1	0	1	0
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	1	0	1	0	1	0
32103	1,2-DICHLOROETHANE,WHOLE WATER,UG/L	1	0	1	0	1	0
32104	BROMOFORM,WHOLE WATER,UG/L	1	0	1	0	1	0
32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	1	0	1	0	1	0
32106	CHLOROFORM,WHOLE WATER,UG/L	1	0	1	0	1	0
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	3	0	3	0	1	0
32226	CHLOROPHYLL B, PERIPHYTON, SPECTRO, MG/M2	5	0	4	1	1	0
32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	5	0	4	1	1	0
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	1	0	1	0	1	0
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	1	0	1	0	1	0
34200	ACENAPHTHYLENE TOTWUG/L	1	0	1	0	1	0
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34204	ACENAPHTHYLENE WET WGTTISMG/KG	1	0	1	0	1	0
34205	ACENAPHTHENE TOTWUG/L	1	0	1	0	1	0
34208	ACENAPHTHENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34209	ACENAPHTHENE WET WGTTISMG/KG	1	0	1	0	1	0
34210	ACROLEIN TOTWUG/L	1	0	1	0	1	0
34213	ACROLEIN DRY WGTBOTUG/KG	4	0	4	0	2	0
34214	ACROLEIN WET WGTTISMG/KG	1	0	1	0	1	0
34215	ACRYLONITRILE TOTWUG/L	1	0	1	0	1	0
34218	ACRYLONITRILE DRY WGTBOTUG/KG	4	0	4	0	2	0
34219	ACRYLONITRILE WET WGTTISMG/KG	1	0	1	0	1	0
34220	ANTHRACENE TOTWUG/L	1	0	1	0	1	0
34223	ANTHRACENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34224	ANTHRACENE WET WGTTISMG/KG	1	0	1	0	1	0
34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	1	0	1	0	1	0
34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	1	0	1	0	1	0
34234	BENZO(B)FLUORANTHENE,TISSUE,WET WGT,MG/KG	1	0	1	0	1	0
34237	BENZENE DRY WGTBOTUG/KG	4	0	4	0	2	0
34238	BENZENE WET WGTTISMG/KG	1	0	1	0	1	0
34241	BENZIDINE WET WGTTISMG/KG	1	0	1	0	1	0
34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	1	0	1	0	1	0
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	1	0	1	0	1	0
34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	1	0	1	0	1	0
34247	BENZO-A-PYRENE TOTWUG/L	1	0	1	0	1	0
34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34251	BENZO-A-PYRENE WET WGTTISMG/KG	1	0	1	0	1	0
34252	BERYLLIUM WET WGTTISMG/KG	1	0	1	0	1	0
34257	B-BHC-BETA DRY WGTBOTUG/KG	2	0	2	0	2	0
34258	B-BHC-BETA WET WGTTISMG/KG	1	0	1	0	1	0
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	1	0	1	0	1	0
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	2	0	2	0	2	0

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34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	1	0	1	0	1	0
34271	BIS (CHLOROMETHYL) ETHER DRY WGTBOTUG/KG	1	0	1	0	1	0
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	1	0	1	0	1	0
34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	1	0	1	0	1	0
34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMG/KG	1	0	1	0	1	0
34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	1	0	1	0	1	0
34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	1	0	1	0	1	0
34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMG/KG	1	0	1	0	1	0
34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	1	0	1	0	1	0
34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	1	0	1	0	1	0
34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMG/KG	1	0	1	0	1	0
34290	BROMOFORM DRY WGTBOTUG/KG	4	0	4	0	2	0
34291	BROMOFORM WET WGTTISMG/KG	1	0	1	0	1	0
34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	1	0	1	0	1	0
34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	1	0	1	0	1	0
34296	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG	1	0	1	0	1	0
34299	CARBON TETRACHLORIDE DRY WGTBOTUG/KG	4	0	4	0	2	0
34300	CARBON TETRACHLORIDE WET WGTTISMG/KG	1	0	1	0	1	0
34301	CHLOROBENZENE TOTWUG/L	1	0	1	0	1	0
34304	CHLOROBENZENE DRY WGTBOTUG/KG	4	0	4	0	2	0
34305	CHLOROBENZENE WET WGTTISMG/KG	1	0	1	0	1	0
34309	CHLORODIBROMOMETHANE DRY WGTBOTUG/KG	4	0	4	0	2	0
34310	CHLORODIBROMOMETHANE WET WGTTISMG/KG	1	0	1	0	1	0
34311	CHLOROETHANE TOTWUG/L	1	0	1	0	1	0
34314	CHLOROETHANE DRY WGTBOTUG/KG	4	0	4	0	2	0
34315	CHLOROETHANE WET WGTTISMG/KG	1	0	1	0	1	0
34318	CHLOROFORM DRY WGTBOTUG/KG	4	0	4	0	2	0
34319	CHLOROFORM WET WGTTISMG/KG	1	0	1	0	1	0
34320	CHRYSENE TOTWUG/L	1	0	1	0	1	0
34323	CHRYSENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34324	CHRYSENE WET WGTTISMG/KG	1	0	1	0	1	0
34330	DICHLOROBROMOMETHANE DRY WGTBOTUG/KG	4	0	4	0	2	0
34331	DICHLOROBROMOMETHANE WET WGTTISMG/KG	1	0	1	0	1	0
34335	DICHLORODIFLUOROMETHANE WET WGTTISMG/KG	1	0	1	0	1	0
34336	DIETHYL PHTHALATE TOTWUG/L	1	0	1	0	1	0
34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	1	0	1	0	1	0
34340	DIETHYL PHTHALATE WET WGTTISMG/KG	1	0	1	0	1	0
34341	DIMETHYL PHTHALATE TOTWUG/L	1	0	1	0	1	0
34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	1	0	1	0	1	0
34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	1	0	1	0	1	0
34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	1	0	1	0	1	0
34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	1	0	1	0	1	0
34350	1,2-DIPHENYLHYDRAZINE WET WGTTISMG/KG	1	0	1	0	1	0
34351	ENDOSULFAN SULFATE TOTWUG/L	1	0	1	0	1	0
34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	2	0	2	0	2	0
34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	1	0	1	0	1	0
34356	ENDOSULFAN, BETA TOTWUG/L	1	0	1	0	1	0
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	2	0	2	0	2	0
34360	ENDOSULFAN, BETA WET WGTTISMG/KG	1	0	1	0	1	0
34361	ENDOSULFAN, ALPHA TOTWUG/L	1	0	1	0	1	0
34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	2	0	2	0	2	0
34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	1	0	1	0	1	0
34366	ENDRIN ALDEHYDE TOTWUG/L	1	0	1	0	1	0
34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	1	0	1	0	1	0
34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	1	0	1	0	1	0
34371	ETHYLBENZENE TOTWUG/L	1	0	1	0	1	0
34374	ETHYLBENZENE DRY WGTBOTUG/KG	4	0	4	0	2	0
34375	ETHYLBENZENE WET WGTTISMG/KG	1	0	1	0	1	0
34376	FLUORANTHENE TOTWUG/L	1	0	1	0	1	0
34379	FLUORANTHENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34380	FLUORANTHENE WET WGTTISMG/KG	1	0	1	0	1	0
34381	FLUORENE TOTWUG/L	1	0	1	0	1	0
34384	FLUORENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34385	FLUORENE WET WGTTISMG/KG	1	0	1	0	1	0
34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	1	0	1	0	1	0
34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34390	HEXACHLOROCYCLOPENTADIENE WET WGTTISMG/KG	1	0	1	0	1	0
34391	HEXACHLOROBUTADIENE TOTWUG/L	1	0	1	0	1	0
34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	1	0	1	0	1	0
34396	HEXACHLOROETHANE TOTWUG/L	1	0	1	0	1	0
34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	1	0	1	0	1	0

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Parameter Code	Name	Total Obs	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
34400	HEXACHLOROETHANE WET WGTTISMG/KG	1	0	1	0	1	0
34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	1	0	1	0	1	0
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34407	INDENO (1,2,3-CD) PYRENE WET WGTTISMG/KG	1	0	1	0	1	0
34408	ISOPHORONE TOTWUG/L	1	0	1	0	1	0
34411	ISOPHORONE DRY WGTBOTUG/KG	1	0	1	0	1	0
34412	ISOPHORONE WET WGTTISMG/KG	1	0	1	0	1	0
34413	METHYL BROMIDE TOTWUG/L	1	0	1	0	1	0
34416	METHYL BROMIDE DRY WGTBOTUG/KG	4	0	4	0	2	0
34417	METHYL BROMIDE WET WGTTISMG/KG	1	0	1	0	1	0
34418	METHYL CHLORIDE TOTWUG/L	1	0	1	0	1	0
34421	METHYL CHLORIDE DRY WGTBOTUG/KG	4	0	4	0	2	0
34422	METHYL CHLORIDE WET WGTTISMG/KG	1	0	1	0	1	0
34423	METHYLENE CHLORIDE TOTWUG/L	1	0	1	0	1	0
34426	METHYLENE CHLORIDE DRY WGTBOTUG/KG	3	0	3	0	2	0
34428	N-NITROSODI-N-PROPYLAMINE TOTWUG/L	1	0	1	0	1	0
34431	N-NITROSODI-N-PROPYLAMINE DRY WGTBOTUG/KG	1	0	1	0	1	0
34432	N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG	1	0	1	0	1	0
34433	N-NITROSODIPHENYLAMINE TOTWUG/L	1	0	1	0	1	0
34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	1	0	1	0	1	0
34437	N-NITROSODIPHENYLAMINE WET WGTTISMG/KG	1	0	1	0	1	0
34438	N-NITROSODIMETHYLAMINE TOTWUG/L	1	0	1	0	1	0
34441	N-NITROSODIMETHYLAMINE DRY WGTBOTUG/KG	1	0	1	0	1	0
34442	N-NITROSODIMETHYLAMINE WET WGTTISMG/KG	1	0	1	0	1	0
34445	NAPHTHALENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34446	NAPHTHALENE WET WGTTISMG/KG	1	0	1	0	1	0
34447	NITROBENZENE TOTWUG/L	1	0	1	0	1	0
34450	NITROBENZENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34451	NITROBENZENE WET WGTTISMG/KG	1	0	1	0	1	0
34452	PARACHLOROMETA CRESOL TOTWUG/L	1	0	1	0	1	0
34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	1	0	1	0	1	0
34456	PARACHLOROMETA CRESOL WET WGTTISMG/KG	1	0	1	0	1	0
34461	PHENANTHRENE TOTWUG/L	1	0	1	0	1	0
34464	PHENANTHRENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34465	PHENANTHRENE WET WGTTISMG/KG	1	0	1	0	1	0
34468	PHENOL WET WGTTISMG/KG	1	0	1	0	1	0
34469	PYRENE TOTWUG/L	1	0	1	0	1	0
34472	PYRENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34473	PYRENE WET WGTTISMG/KG	1	0	1	0	1	0
34475	TETRACHLOROETHYLENE TOTWUG/L	1	0	1	0	1	0
34478	TETRACHLOROETHYLENE DRY WGTBOTUG/KG	4	0	4	0	2	0
34479	TETRACHLOROETHYLENE WET WGTTISMG/KG	1	0	1	0	1	0
34480	THALLIUM DRY WGTBOTMG/KG	1	0	1	0	1	0
34483	TOLUENE DRY WGTBOTUG/KG	4	0	4	0	2	0
34484	TOLUENE WET WGTTISMG/KG	1	0	1	0	1	0
34487	TRICHLOROETHYLENE DRY WGTBOTUG/KG	4	0	4	0	2	0
34488	TRICHLOROFLUOROMETHANE TOTWUG/L	1	0	1	0	1	0
34491	TRICHLOROFLUOROMETHANE DRY WGTBOTUG/KG	4	0	4	0	2	0
34492	TRICHLOROFLUOROMETHANE WET WGTTISMG/KG	1	0	1	0	1	0
34495	VINYL CHLORIDE DRY WGTBOTUG/KG	4	0	4	0	2	0
34496	1,1-DICHLOROETHANE TOTWUG/L	1	0	1	0	1	0
34499	1,1-DICHLOROETHANE DRY WGTBOTUG/KG	4	0	4	0	2	0
34500	1,1-DICHLOROETHANE WET WGTTISMG/KG	1	0	1	0	1	0
34501	1,1-DICHLOROETHYLENE TOTWUG/L	1	0	1	0	1	0
34504	1,1-DICHLOROETHYLENE DRY WGTBOTUG/KG	4	0	4	0	2	0
34505	1,1-DICHLOROETHYLENE WET WGTTISMG/KG	1	0	1	0	1	0
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	1	0	1	0	1	0
34509	1,1,1-TRICHLOROETHANE DRY WGTBOTUG/KG	4	0	4	0	2	0
34510	1,1,1-TRICHLOROETHANE WET WGTTISMG/KG	1	0	1	0	1	0
34511	1,1,2-TRICHLOROETHANE TOTWUG/L	1	0	1	0	1	0
34514	1,1,2-TRICHLOROETHANE DRY WGTBOTUG/KG	4	0	4	0	2	0
34515	1,1,2-TRICHLOROETHANE WET WGTTISMG/KG	1	0	1	0	1	0
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	1	0	1	0	1	0
34519	1,1,2,2-TETRACHLOROETHANE DRY WGTBOTUG/KG	4	0	4	0	2	0
34520	1,1,2,2-TETRACHLOROETHANE WET WGTTISMG/KG	1	0	1	0	1	0
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	1	0	1	0	1	0
34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	1	0	1	0	1	0
34525	BENZO(GHI)PERYLENE1,12-BENZOPERYLENWET WGTTISMG/KG	1	0	1	0	1	0
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	1	0	1	0	1	0
34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	1	0	1	0	1	0
34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGTTISMG/KG	1	0	1	0	1	0

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Parameter Code	Name	Total Obs	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
34534	1,2-DICHLOROETHANE DRY WGTBOTUG/KG	4	0	4	0	2	0
34535	1,2-DICHLOROETHANE WET WGTTISMG/KG	1	0	1	0	1	0
34536	1,2-DICHLOROBENZENE TOTWUG/L	1	0	1	0	1	0
34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34540	1,2-DICHLOROBENZENE WET WGTTISMG/KG	1	0	1	0	1	0
34541	1,2-DICHLOROPROPANE TOTWUG/L	1	0	1	0	1	0
34544	1,2-DICHLOROPROPANE DRY WGTBOTUG/KG	4	0	4	0	2	0
34545	1,2-DICHLOROPROPANE WET WGTTISMG/KG	1	0	1	0	1	0
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	1	0	1	0	1	0
34549	TRANS-1,2-DICHLOROETHENE, IN SED. DRY WT. UG/KG	4	0	4	0	2	0
34550	TRANS-1,2-DICHLOROETHENE, IN TISSUE, WET WT. MG/KG	1	0	1	0	1	0
34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	1	0	1	0	1	0
34554	1,2,4-TRICHLOROBENZENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	1	0	1	0	1	0
34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	1	0	1	0	1	0
34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34560	1,2,5,6-DIBENZANTHRACENE WET WGTTISMG/KG	1	0	1	0	1	0
34561	1,3-DICHLOROPROPENE TOTWUG/L	1	0	1	0	1	0
34564	1,3-DICHLOROPROPENE DRY WGTBOTUG/KG	3	0	3	0	1	0
34565	1,3-DICHLOROPROPENE WET WGTTISMG/KG	1	0	1	0	1	0
34566	1,3-DICHLOROBENZENE TOTWUG/L	1	0	1	0	1	0
34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34570	1,3-DICHLOROBENZENE WET WGTTISMG/KG	1	0	1	0	1	0
34571	1,4-DICHLOROBENZENE TOTWUG/L	1	0	1	0	1	0
34574	1,4-DICHLOROBENZENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34575	1,4-DICHLOROBENZENE WET WGTTISMG/KG	1	0	1	0	1	0
34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	1	0	1	0	1	0
34579	2-CHLOROETHYL VINYL ETHER DRY WGTBOTUG/KG	4	0	4	0	2	0
34580	2-CHLOROETHYL VINYL ETHER WET WGTTISMG/KG	1	0	1	0	1	0
34581	2-CHLORONAPHTHALENE TOTWUG/L	1	0	1	0	1	0
34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34585	2-CHLORONAPHTHALENE WET WGTTISMG/KG	1	0	1	0	1	0
34586	2-CHLOROPHENOL TOTWUG/L	1	0	1	0	1	0
34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	1	0	1	0	1	0
34590	2-CHLOROPHENOL WET WGTTISMG/KG	1	0	1	0	1	0
34591	2-NITROPHENOL TOTWUG/L	1	0	1	0	1	0
34594	2-NITROPHENOL DRY WGTBOTUG/KG	1	0	1	0	1	0
34595	2-NITROPHENOL WET WGTTISMG/KG	1	0	1	0	1	0
34596	DI-N-OCTYL PHTHALATE TOTWUG/L	1	0	1	0	1	0
34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	1	0	1	0	1	0
34600	DI-N-OCTYL PHTHALATE WET WGTTISMG/KG	1	0	1	0	1	0
34601	2,4-DICHLOROPHENOL TOTWUG/L	1	0	1	0	1	0
34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	1	0	1	0	1	0
34605	2,4-DICHLOROPHENOL WET WGTTISMG/KG	1	0	1	0	1	0
34606	2,4-DIMETHYLPHENOL TOTWUG/L	1	0	1	0	1	0
34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	1	0	1	0	1	0
34610	2,4-DIMETHYLPHENOL WET WGTTISMG/KG	1	0	1	0	1	0
34611	2,4-DINITROTOLUENE TOTWUG/L	1	0	1	0	1	0
34614	2,4-DINITROTOLUENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34615	2,4-DINITROTOLUENE WET WGTTISMG/KG	1	0	1	0	1	0
34616	2,4-DINITROPHENOL TOTWUG/L	1	0	1	0	1	0
34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	1	0	1	0	1	0
34620	2,4-DINITROPHENOL WET WGTTISMG/KG	1	0	1	0	1	0
34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	1	0	1	0	1	0
34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	1	0	1	0	1	0
34625	2,4,6-TRICHLOROPHENOL WET WGTTISMG/KG	1	0	1	0	1	0
34626	2,6-DINITROTOLUENE TOTWUG/L	1	0	1	0	1	0
34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	1	0	1	0	1	0
34630	2,6-DINITROTOLUENE WET WGTTISMG/KG	1	0	1	0	1	0
34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	1	0	1	0	1	0
34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	1	0	1	0	1	0
34635	3,3'-DICHLOROBENZIDINE WET WGTTISMG/KG	1	0	1	0	1	0
34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	1	0	1	0	1	0
34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	1	0	1	0	1	0
34640	4-BROMOPHENYL PHENYL ETHER WET WGTTISMG/KG	1	0	1	0	1	0
34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	1	0	1	0	1	0
34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	1	0	1	0	1	0
34645	4-CHLOROPHENYL PHENYL ETHER WET WGTTISMG/KG	1	0	1	0	1	0
34646	4-NITROPHENOL TOTWUG/L	1	0	1	0	1	0
34649	4-NITROPHENOL DRY WGTBOTUG/KG	1	0	1	0	1	0
34650	4-NITROPHENOL WET WGTTISMG/KG	1	0	1	0	1	0

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Parameter Code	Name	Total Obs	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	1	0	1	0	1	0
34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	1	0	1	0	1	0
34661	DNOC (4,6-DINITRO-ORTHO-CRESOL) WET WGTTISMG/KG	1	0	1	0	1	0
34664	PCB - 1221 WET WGTTISMG/KG	1	0	1	0	1	0
34667	PCB - 1232 WET WGTTISMG/KG	1	0	1	0	1	0
34669	PCB - 1248 WET WGTTISMG/KG	1	0	1	0	1	0
34670	PCB - 1260 WET WGTTISMG/KG	1	0	1	0	1	0
34671	PCB - 1016 TOTWUG/L	1	0	1	0	1	0
34674	PCB - 1016 WET WGTTISMG/KG	1	0	1	0	1	0
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	1	0	1	0	1	0
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	1	0	1	0	1	0
34683	DI-N-BUTYL PHTHALATE,TISSUE,WET WGTWET WGT	1	0	1	0	1	0
34685	ENDRIN WET WGTTISMG/KG	1	0	1	0	1	0
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	1	0	1	0	1	0
34687	HEPTACHLOR WET WGTTISMG/KG	1	0	1	0	1	0
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	1	0	1	0	1	0
34689	PCB - 1242 WET WGTTISMG/KG	1	0	1	0	1	0
34690	PCB - 1254 WET WGTTISMG/KG	1	0	1	0	1	0
34691	TOXAPHENE WET WGTTISMG/KG	1	0	1	0	1	0
34692	TRICHLOROETHYLENE WET WGTTISMG/KG	1	0	1	0	1	0
34693	VINYL CHLORIDE WET WGTTISMG/KG	1	0	1	0	1	0
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	1	0	1	0	1	0
34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTTUG/KG	1	0	1	0	1	0
34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	1	0	1	0	1	0
34702	CIS-1,3-DICHLOROPROPENE SEDIMENT DRY WEIGHT UG/KG	3	0	3	0	1	0
34703	CIS-1,3-DICHLOROPROPENE FISH TISSUE WET WGT MG/KG	1	0	1	0	1	0
34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	1	0	1	0	1	0
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	46	0	4	42	2	0
39025	SIMAZINE,COULSON CONDUCTIVITY,WATER SAMPLE(UG/L)	4	0	4	0	1	0
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	1	0	1	0	1	0
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1	0
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	91	91	0	0	17	3
39046	SIMAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	1	0	1	0	1	0
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	1	0	1	0	1	0
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	1	0	1	0	1	0
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	1	0	1	0	1	0
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	2	0	2	0	2	0
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	136	136	0	0	28	3
39099	BIS(2-ETHYLHEXYL)PHTHALATE,TISSUE,WET WGT,MG/KG	1	0	1	0	1	0
39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	1	0	1	0	1	0
39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	1	0	1	0	1	0
39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	1	0	1	0	1	0
39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	1	0	1	0	1	0
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1	0
39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	1	0	1	0	1	0
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	1	0	1	0	1	0
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	1	0	1	0	1	0
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	2	0	2	0	2	0
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	1	0	1	0	1	0
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1	0
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	1	0	1	0	1	0
39302	P P DDT IN TISSUE WET WGT (UG/G)	1	0	1	0	1	0
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	1	0	1	0	1	0
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	2	1	1	0	2	0
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	2	0
39312	P P DDD IN TISSUE WET WGT (UG/G)	1	0	1	0	1	0
39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	1	0	1	0	1	0
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	3	2	1	0	2	0
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	2	0
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	1	0	1	0	1	0
39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	1	0	1	0	1	0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	23	1	15	7	3	0
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	7	0	7	0	3	0
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	1	0	1	0	1	0
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	2	1	1	0	2	0
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	22	0	15	7	2	0
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	7	0	7	0	3	0
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	17	1	15	1	3	0
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	7	0	7	0	3	0
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	22	0	15	7	2	0
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	5	0	5	0	1	0

Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Parameter Code	Name	Total Obs	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	22	0	15	7	2	0
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	5	0	5	0	1	0
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	23	1	15	7	3	0
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	5	0	5	0	1	0
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	23	1	15	7	3	0
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	7	0	7	0	3	0
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	2	1	1	0	2	0
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	2	0
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	23	1	15	7	3	0
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	7	0	7	0	3	0
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	1	0
39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	4	0	4	0	1	0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	17	2	15	0	2	0
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	7	0	7	0	3	0
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	1	0	1	0	1	0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	23	1	15	7	3	0
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	7	0	7	0	3	0
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	23	1	15	7	3	0
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	7	0	7	0	3	0
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	16	1	15	0	2	0
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	6	0	6	0	2	0
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	1	0	1	0	1	0
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	2	0	2	0	2	0
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	1	0	1	0	1	0
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	1	0	1	0	1	0
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	1	0	1	0	1	0
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	2	0	2	0	2	0
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	1	0	1	0	1	0
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	2	0	2	0	2	0
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	1	0	1	0	1	0
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	2	0	2	0	2	0
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	2	1	1	0	2	0
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	2	0	2	0	2	0
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	2	0	2	0	2	0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	11	0	11	0	1	0
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	1	0
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	1	0
39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	4	0	4	0	1	0
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	1	0
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	4	0	4	0	1	0
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	16	1	15	0	2	0
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	4	0	4	0	1	0
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	1	0
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	4	0	4	0	1	0
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	5	0	5	0	1	0
39631	ATRAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	1	0	1	0	1	0
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1	0
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	1	0	1	0	1	0
39705	HEXACHLOROBUTADIENE BOT. DEPOS.(UG/KG DRY WGT)	1	0	1	0	1	0
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	8	0	8	0	1	0
39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	1	0
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	8	0	8	0	1	0
39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	1	0
39755	MIREX, TOTAL (UG/L)	1	0	1	0	1	0
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	1	0	1	0	1	0
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10	2	8	0	2	0
39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0	1	0
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	1	0	1	0	1	0
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	1	0
39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	4	0	4	0	1	0
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	15	0	15	0	1	0
39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	4	0	4	0	1	0
50040	ELEVATION OF WATER LEVEL WITH REF.TO MEAN SEA L FT	6	6	0	0	1	0
60050	ALGAE, TOTAL (CELLS/ML)	128	0	26	102	2	0
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	102	0	0	102	1	0
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	102	0	0	102	1	0
60200	ALGAE, COCCOID GREEN (CELLS/ML)	102	0	0	102	1	0
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	102	0	0	102	1	0
60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	101	0	0	101	1	0
60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	101	0	0	101	1	0

Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Parameter Code	Name	Total Obs	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
60390	DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	63	0	0	63	1	0
60391	DIATOMS,PERCENT OF TOTAL,SECOND DOMINANT SPECIES	1	0	0	1	1	0
60392	DIATOMS,PERCENT OF TOTAL,THIRD DOMINANT SPECIES	1	0	0	1	1	0
60394	DIATOMS,PERCENT OF TOTAL,ALL OTHER SPECIES	3	0	0	3	1	0
60400	DIATOMS, CENTRIC (/ML)	100	0	0	100	1	0
60600	DIATOMS, PENNATE (/ML)	101	0	0	101	1	0
60610	DIATOM, INERT SHELLS - CENTRIC (/ML)	15	0	0	15	1	0
60620	DIATOM, INERT SHELLS - PENNATE (/ML)	16	0	0	16	1	0
60820	PROTOZOA, TOTAL (/ML)	25	0	0	25	1	0
60850	ROTIFERS, TOTAL (/LITER)	27	0	0	27	1	0
60900	CRUSTACEA, TOTAL (/LITER)	27	0	0	27	1	0
60950	NEMATODES, TOTAL (/LITER)	26	0	0	26	1	0
60990	ZOOPLANKTON OTHER (/LITER)	26	0	0	26	1	0
61390	DIATOMS,FIRST DOMINANT SPECIES OF UNITS - CODE	3	0	0	3	1	0
61391	DIATOMS,SECOND DOMINANT SPECIES OF UNITS - CODE	1	0	0	1	1	0
61392	DIATOMS,THIRD DOMINANT SPECIES OF UNITS - CODE	1	0	0	1	1	0
63400	INVALID	1	0	0	1	1	0
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	1995	134	246	1615	42	29
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	1596	0	201	1395	38	27
70302	SOLIDS, DISSOLVED-TONS PER DAY	2466	0	194	2272	26	21
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	2579	0	201	2378	32	23
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	193	193	0	0	32	29
70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	21	0	0	21	3	1
70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	25	0	0	25	3	1
70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	25	0	0	25	3	1
70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	26	0	0	26	3	1
70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	24	0	0	24	3	1
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	544	263	62	219	6	3
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	228	24	1	203	3	1
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	209	24	1	184	3	1
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	150	24	1	125	3	1
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	28	24	0	4	2	0
70336	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 2.00MM	25	25	0	0	1	0
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	269	86	7	176	3	1
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	395	86	7	302	3	1
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	118	86	0	32	3	1
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	396	86	7	303	3	1
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	118	86	0	32	3	1
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	194	37	6	151	3	1
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	176	37	6	133	3	1
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	155	37	6	112	3	1
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	93	37	4	52	3	1
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	45	36	0	9	2	1
70347	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM	38	37	0	1	1	0
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	80	77	3	0	5	3
70950	BIOMASS-CHLOROPHYLL RATIO, PERIPHYTON (UNITS)	3	0	3	0	1	0
70957	CHLOROPHYLL-A,PERIPHYTON UG/L,CHROMO-FLUORO	6	0	6	0	1	0
70958	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-FLUORO	6	0	6	0	1	0
71000	COUNT LEVEL OF MOST ABNDNT ALGAE1ST DOMINANT /ML	1	0	0	1	1	0
71010	GENUS OF MOST ABUNDANT ALGAE 1ST DOMINANT /ML	1	0	0	1	1	0
71100	SESTON, TOTAL - MG/L	27	27	0	0	1	1
71830	HYDROXIDE ION (MG/L AS OH)	46	20	26	0	3	0
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	22	0	22	0	3	1
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	29	0	29	0	2	1
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	1039	24	3	1012	23	17
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	1155	0	9	1146	7	5
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	74	0	10	64	3	2
71870	BROMIDE (MG/L AS BR)	25	0	0	25	1	1
71885	IRON (UG/L AS FE)	118	0	0	118	2	1
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	57	0	57	0	6	1
71887	NITROGEN, TOTAL, AS NO3 - MG/L	68	0	59	9	5	1
71890	MERCURY, DISSOLVED (UG/L AS HG)	119	50	66	3	43	25
71895	MERCURY, SUSPENDED (UG/L AS HG)	29	0	27	2	5	1
71900	MERCURY, TOTAL (UG/L AS HG)	288	227	59	2	36	26
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	2	0	2	0	2	0
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	1	0	1	0	1	0
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	1	0	1	0	1	0
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	1	0	1	0	1	0
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	1	0	1	0	1	0
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	1	0	1	0	1	0
71941	CADMIUM,TOTAL IN FISH-DRY WEIGHT BASIS	1	0	1	0	1	0

Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Parameter Code	Name	Total Obs	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	1107	0	0	1107	4	2
72008	DEPTH, TOTAL OF WELL (FT BELOW LAND SURFACE DATUM)	4	3	1	0	2	1
72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	3	0	3	0	1	0
72025	DEPTH OF POND OR RESERVOIR IN FEET	18	0	18	0	3	0
72051	WITHDRAWAL OF GROUNDWATER (MILLIONS OF GALS/YR)	27	27	0	0	1	1
74010	IRON, TOTAL (MG/L AS FE)	38	14	24	0	1	0
75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	14	14	0	0	13	0
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	14	14	0	0	13	0
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	14	14	0	0	13	0
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	14	14	0	0	13	0
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	14	14	0	0	13	0
75990	URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	2	2	0	0	2	0
75991	URANIUM 238,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	5	5	0	0	5	0
75992	URANIUM 234,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	5	5	0	0	5	0
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	9	9	0	0	9	0
75994	URANIUM 235,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	5	5	0	0	5	0
76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	9	9	0	0	9	0
80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	12	0	12	0	12	9
80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	12	0	12	0	7	6
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	14	14	0	0	13	0
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	14	14	0	0	13	0
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	1266	453	219	594	7	3
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	745	0	188	557	4	1
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	6	0	0	6	2	1
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	21	0	0	21	2	1
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	21	0	0	21	2	1
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	20	0	0	20	2	1
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	1	0	0	1	1	0
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	17	12	0	5	2	1
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	25	15	0	10	4	2
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	25	15	0	10	4	2
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	25	15	0	10	4	2
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	23	14	0	9	4	2
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	22	13	0	9	4	2
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	19	13	0	6	3	2
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	16	12	0	4	2	1
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	8	4	0	4	2	1
80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	1	0	0	1	1	0
80226	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .062MM	17	17	0	0	1	1
80227	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .125MM	29	29	0	0	1	1
80228	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .250MM	31	31	0	0	1	1
80229	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .500MM	31	31	0	0	1	1
80230	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 1.00MM	31	31	0	0	1	1
80231	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 2.00MM	31	31	0	0	1	1
80232	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 4.00MM	30	30	0	0	1	1
80233	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 8.00MM	17	17	0	0	1	1
81204	POTASSIUM, (TONS PER DAY AS K)	1	0	1	0	1	0
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	1	0	1	0	1	0
81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	1	1	0	0	1	0
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	6	0	6	0	2	1
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	261	261	0	0	55	51
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	14	14	0	0	13	0
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	14	14	0	0	13	0
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	1	0	1	0	1	0
82303	RADON 222, TOTAL IN WATER PC/L	10	10	0	0	10	0
82398	SAMPLING METHOD (CODES)	623	592	30	1	26	3
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	70	39	24	7	51	21
84001	AQUIFER NAME CODE (SEE USGS CATALOG)	70	39	24	7	51	21

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0007	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/07/81-06/02/81	0	3	
GRCA0008	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	08/29/80-08/29/80	0	2	
GRCA0011	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/28/74-07/28/76	2	6	
GRCA0107	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/26/89-05/26/89	0	1	
GRCA0120	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/27/89-05/27/89	0	1	
GRCA0159	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/26/75-05/23/76	0	7	
GRCA0165	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/24/75-11/21/75	0	10	
GRCA0166	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	11/01/41-06/01/53	11	120	
GRCA0167	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/27/75-06/10/76	0	9	
GRCA0002	No	00004	STREAM WIDTH (FEET)	10/05/89-10/10/89	0	12	
GRCA0011	No	00004	STREAM WIDTH (FEET)	11/06/85-09/21/95	9	69	
GRCA0012	No	00004	STREAM WIDTH (FEET)	03/29/91-03/29/91	0	1	
GRCA0055	Yes	00004	STREAM WIDTH (FEET)	11/20/85-10/11/89	3	20	
GRCA0124	Yes	00004	STREAM WIDTH (FEET)	10/07/89-10/11/89	0	5	
GRCA0127	No	00004	STREAM WIDTH (FEET)	04/23/93-04/23/93	0	1	
GRCA0147	Yes	00004	STREAM WIDTH (FEET)	10/09/89-10/11/89	0	9	
GRCA0150	No	00004	STREAM WIDTH (FEET)	08/22/91-08/22/91	0	1	
GRCA0152	No	00004	STREAM WIDTH (FEET)	08/23/91-08/23/91	0	1	
GRCA0157	No	00004	STREAM WIDTH (FEET)	08/24/91-08/24/91	0	1	
GRCA0001	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	09/06/60-09/29/67	7	7	
GRCA0003	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	12/01/93-09/22/94	0	7	
GRCA0004	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	01/17/79-12/05/84	5	21	
GRCA0012	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/28/75-10/13/77	2	7	
GRCA0015	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/30/52-04/30/52	0	1	
GRCA0016	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/30/52-04/30/52	0	1	
GRCA0026	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/15/60-06/15/60	0	1	
GRCA0055	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	10/04/77-10/04/77	0	1	
GRCA0159	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	10/26/75-05/23/76	0	7	
GRCA0165	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	02/24/75-11/21/75	0	10	
GRCA0167	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	09/27/75-06/10/76	0	9	
GRCA0011	No	00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)	09/04/85-09/04/85	0	24	
GRCA0124	Yes	00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)	10/07/89-10/12/89	0	258	
GRCA0001	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/23/59-05/25/66	6	310	
GRCA0002	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/05/89-10/10/89	0	22	
GRCA0003	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/01/93-05/04/94	0	4	
GRCA0004	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/78-11/12/86	8	39	
GRCA0005	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/01/93-08/02/93	0	6	
GRCA0006	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/04/76-08/04/76	0	1	
GRCA0011	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	35	421	
GRCA0012	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	39	153	
GRCA0013	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/06/92-10/04/94	2	7	
GRCA0017	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/77-11/15/79	2	25	
GRCA0019	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/06/76-08/06/76	0	1	
GRCA0020	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/17/66-07/18/79	13	3	
GRCA0022	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/10/92-10/09/94	2	8	
GRCA0024	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/01/76-05/01/76	0	1	
GRCA0025	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/10/92-10/15/95	3	8	
GRCA0027	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/05/93-10/14/95	2	7	
GRCA0028	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/09/92-10/07/94	1	3	
GRCA0029	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/29/76-04/29/76	0	1	
GRCA0030	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/92-10/13/95	3	10	
GRCA0031	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/29/76-11/20/81	5	2	
GRCA0032	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/65-06/20/65	0	1	
GRCA0033	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/92-10/14/95	3	11	
GRCA0034	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/76-04/30/76	0	1	
GRCA0038	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/81-11/20/81	0	1	
GRCA0039	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/92-10/14/95	3	7	
GRCA0040	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/81-09/01/81	0	1	
GRCA0042	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/20/94-03/20/94	0	1	
GRCA0043	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/81-09/02/81	0	1	
GRCA0045	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/23/94-04/23/94	0	1	
GRCA0046	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/94-04/24/94	0	1	
GRCA0047	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/81-09/02/81	0	1	
GRCA0048	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/94-04/24/94	0	1	
GRCA0049	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/81-09/02/81	0	1	
GRCA0050	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/93-05/20/94	0	2	
GRCA0051	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/11/61-11/11/61	0	1	
GRCA0052	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/92-10/16/95	3	8	
GRCA0053	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/81-09/02/81	0	1	
GRCA0054	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/26/93-11/26/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0055	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	46	364	
GRCA0056	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/94-05/22/94	0	1	
GRCA0057	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/92-06/12/92	0	1	
GRCA0058	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/14/93-08/02/95	2	7	
GRCA0059	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/92-10/14/92	0	2	
GRCA0060	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	16	85	
GRCA0062	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/81-09/01/81	0	1	
GRCA0063	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/27/94-03/29/94	0	2	
GRCA0064	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/27/94-03/29/94	0	2	
GRCA0065	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/81-09/01/81	0	1	
GRCA0067	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/28/93-06/22/94	0	4	
GRCA0068	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/81-09/01/81	0	1	
GRCA0069	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/28/93-05/26/94	0	3	
GRCA0070	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/94-03/30/94	0	1	
GRCA0071	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/81-09/04/81	0	1	
GRCA0072	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/94-03/30/94	0	1	
GRCA0074	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/31/94-03/31/94	0	1	
GRCA0075	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/81-09/04/81	0	1	
GRCA0076	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/92-10/18/95	3	7	
GRCA0077	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/03/76-05/03/76	0	1	
GRCA0078	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/92-10/18/95	3	10	
GRCA0079	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/03/76-05/03/76	0	1	
GRCA0080	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/31/94-06/09/94	0	2	
GRCA0081	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/81-09/04/81	0	1	
GRCA0084	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/94-06/09/94	0	1	
GRCA0085	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/13/94-03/13/94	0	1	
GRCA0086	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/76-11/19/81	5	2	
GRCA0087	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/92-10/19/95	3	11	
GRCA0088	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/15/92-08/03/95	3	9	
GRCA0089	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/76-11/19/81	5	2	
GRCA0091	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/27/51-06/27/51	0	1	
GRCA0093	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/92-08/04/95	3	9	
GRCA0094	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/76-11/19/81	5	2	
GRCA0095	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/15/92-10/19/95	3	11	
GRCA0096	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/16/94-10/16/94	0	1	
GRCA0097	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/27/51-06/27/51	0	1	
GRCA0098	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/27/92-10/21/95	3	12	
GRCA0100	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/76-11/18/81	5	2	
GRCA0101	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/20/95-10/20/95	0	1	
GRCA0102	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/94-06/20/94	0	1	
GRCA0103	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/17/92-10/21/95	3	10	
GRCA0104	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/07/76-11/18/81	5	2	
GRCA0105	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/18/81-11/18/81	0	1	
GRCA0106	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/27/92-10/21/95	3	12	
GRCA0107	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/26/89-05/26/89	0	1	
GRCA0109	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/07/76-05/07/76	0	1	
GRCA0110	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/18/92-10/22/95	3	7	
GRCA0111	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/94-08/23/94	0	1	
GRCA0112	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/28/82-03/28/82	0	1	
GRCA0113	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/24/94-08/24/94	0	1	
GRCA0114	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/07/76-05/07/76	0	1	
GRCA0115	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/95-10/22/95	0	1	
GRCA0116	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/95-10/22/95	0	1	
GRCA0117	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/08/76-05/08/76	0	1	
GRCA0119	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/28/92-06/23/95	3	10	
GRCA0120	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/27/89-05/27/89	0	1	
GRCA0121	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/95-01/06/95	0	1	
GRCA0122	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/90-04/01/92	1	3	
GRCA0123	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/92-06/23/95	3	9	
GRCA0124	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/89-03/30/92	2	266	
GRCA0125	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/08/76-05/08/76	0	1	
GRCA0126	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/05/95-08/05/95	0	1	
GRCA0127	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/23/93-04/23/93	0	1	
GRCA0128	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/95-01/06/95	0	1	
GRCA0129	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/09/76-08/09/76	0	1	
GRCA0130	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/92-10/23/95	3	8	
GRCA0131	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/09/76-01/07/95	18	7	
GRCA0132	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/09/76-05/09/76	0	1	
GRCA0133	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/23/92-01/23/92	0	1	
GRCA0134	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/20/93-05/20/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0135	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/76-08/10/76	0	1	
GRCA0136	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/21/92-10/25/95	3	10	
GRCA0137	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/90-01/08/95	4	3	
GRCA0138	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/19/93-05/19/93	0	1	
GRCA0139	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/13/93-10/13/93	0	1	
GRCA0140	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/25/92-10/25/92	0	1	
GRCA0141	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/08/95-01/08/95	0	1	
GRCA0142	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/13/93-10/13/93	0	1	
GRCA0143	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/76-05/11/76	0	1	
GRCA0144	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/92-10/24/95	3	11	
GRCA0147	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/89-10/12/89	0	37	
GRCA0148	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/14/90-04/05/92	1	6	
GRCA0149	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/25/92-10/25/92	0	1	
GRCA0150	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/91-12/08/94	3	4	
GRCA0151	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/93-12/08/94	1	3	
GRCA0152	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/93-06/05/94	1	2	
GRCA0153	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/91-08/23/91	0	1	
GRCA0154	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/91-08/23/91	0	1	
GRCA0155	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/93-12/08/94	1	3	
GRCA0156	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/08/94-06/08/94	0	1	
GRCA0157	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/24/91-08/24/91	0	1	
GRCA0158	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/17/93-12/06/94	1	3	
GRCA0159	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/26/75-05/23/76	0	6	
GRCA0160	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/17/93-12/07/94	1	3	
GRCA0162	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/05/94-12/06/94	0	2	
GRCA0164	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/93-11/17/93	0	2	
GRCA0165	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/24/75-11/21/75	0	10	
GRCA0166	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	11	104	
GRCA0167	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/27/75-06/10/76	0	8	
GRCA0168	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/01/73-06/01/73	0	1	
GRCA0002	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/06/89-10/10/89	0	16	
GRCA0011	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/69-09/21/95	25	119	
GRCA0012	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/30/69-03/29/91	21	19	
GRCA0013	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/06/92-10/04/94	2	7	
GRCA0017	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/13/77-09/07/78	0	10	
GRCA0022	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/10/92-10/15/95	3	9	
GRCA0027	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/05/93-10/14/95	2	7	
GRCA0028	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/01/93-10/07/94	1	2	
GRCA0030	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/24/92-10/13/95	3	10	
GRCA0033	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/09/92-10/14/95	3	11	
GRCA0039	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/09/92-10/14/95	3	7	
GRCA0042	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/20/94-03/20/94	0	1	
GRCA0045	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/94-04/23/94	0	1	
GRCA0046	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/24/94-04/24/94	0	1	
GRCA0048	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/24/94-04/24/94	0	1	
GRCA0050	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/17/93-05/20/94	0	2	
GRCA0052	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/11/92-10/16/95	3	8	
GRCA0054	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/26/93-11/26/93	0	1	
GRCA0055	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/18/83-10/11/89	6	25	
GRCA0056	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/22/94-05/22/94	0	1	
GRCA0057	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/12/92-06/12/92	0	1	
GRCA0058	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/14/93-08/02/95	2	7	
GRCA0059	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/12/92-10/14/92	0	2	
GRCA0063	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/27/94-03/29/94	0	2	
GRCA0064	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/27/94-03/29/94	0	2	
GRCA0067	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/28/93-05/27/94	0	3	
GRCA0069	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/28/93-05/26/94	0	3	
GRCA0070	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/30/94-03/30/94	0	1	
GRCA0072	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/30/94-03/30/94	0	1	
GRCA0074	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/31/94-03/31/94	0	1	
GRCA0076	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/14/92-10/18/95	3	7	
GRCA0078	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/14/92-10/18/95	3	10	
GRCA0080	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/31/94-06/09/94	0	2	
GRCA0084	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/09/94-06/09/94	0	1	
GRCA0085	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/13/94-03/13/94	0	1	
GRCA0087	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/14/92-10/19/95	3	10	
GRCA0088	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/15/92-08/03/95	3	9	
GRCA0093	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/92-08/04/95	3	9	
GRCA0095	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/15/92-10/19/95	3	10	
GRCA0096	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/19/92-10/16/94	1	2	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0098	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/27/92-10/21/95	3	12	
GRCA0101	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/20/95-10/20/95	0	1	
GRCA0102	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/20/94-06/20/94	0	1	
GRCA0103	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/17/92-10/21/95	3	10	
GRCA0106	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/27/92-10/21/95	3	12	
GRCA0107	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/26/89-05/26/89	0	1	
GRCA0110	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/18/92-10/22/95	3	7	
GRCA0113	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/24/94-08/24/94	0	1	
GRCA0115	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/95-10/22/95	0	1	
GRCA0116	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/95-10/22/95	0	1	
GRCA0119	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/28/92-06/23/95	3	10	
GRCA0120	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/27/89-05/27/89	0	1	
GRCA0121	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/06/95-01/06/95	0	1	
GRCA0122	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/01/92-04/01/92	0	1	
GRCA0123	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/19/92-06/23/95	3	9	
GRCA0124	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/07/89-03/30/92	2	5	
GRCA0126	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/05/95-08/05/95	0	1	
GRCA0127	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/93-04/23/93	0	1	
GRCA0128	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/06/95-01/06/95	0	1	
GRCA0130	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/19/92-06/24/95	3	7	
GRCA0131	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/91-01/07/95	3	5	
GRCA0133	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/23/92-01/23/92	0	1	
GRCA0134	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/20/93-05/20/93	0	1	
GRCA0136	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/21/92-10/25/95	3	10	
GRCA0137	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/11/90-01/08/95	4	3	
GRCA0138	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/19/93-05/19/93	0	1	
GRCA0140	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/25/92-10/25/92	0	1	
GRCA0141	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/08/95-01/08/95	0	1	
GRCA0142	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/13/93-10/13/93	0	1	
GRCA0144	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/20/92-10/24/95	3	11	
GRCA0147	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/07/89-10/12/89	0	34	
GRCA0148	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/14/90-11/20/91	1	4	
GRCA0149	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/25/92-10/25/92	0	1	
GRCA0150	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/15/93-12/08/94	1	3	
GRCA0151	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/06/94-12/08/94	0	2	
GRCA0152	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/23/91-06/05/94	2	2	
GRCA0153	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/23/91-08/23/91	0	1	
GRCA0154	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/23/91-08/23/91	0	1	
GRCA0155	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/15/93-12/08/94	1	3	
GRCA0156	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/08/94-06/08/94	0	1	
GRCA0157	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/24/91-08/24/91	0	1	
GRCA0158	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/17/93-12/06/94	1	3	
GRCA0160	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/17/93-12/07/94	1	3	
GRCA0162	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/05/94-12/06/94	0	2	
GRCA0164	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/11/93-06/11/93	0	1	
GRCA0002	No	00025	BAROMETRIC PRESSURE (MM OF HG)	10/05/89-10/10/89	0	22	
GRCA0011	No	00025	BAROMETRIC PRESSURE (MM OF HG)	11/05/81-09/21/95	13	107	
GRCA0055	Yes	00025	BAROMETRIC PRESSURE (MM OF HG)	02/14/83-10/11/89	6	46	
GRCA0111	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/23/94-08/23/94	0	1	
GRCA0113	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/24/94-08/24/94	0	1	
GRCA0122	No	00025	BAROMETRIC PRESSURE (MM OF HG)	05/10/90-04/01/92	1	3	
GRCA0124	Yes	00025	BAROMETRIC PRESSURE (MM OF HG)	10/07/89-03/30/92	2	6	
GRCA0127	No	00025	BAROMETRIC PRESSURE (MM OF HG)	04/23/93-04/23/93	0	1	
GRCA0131	No	00025	BAROMETRIC PRESSURE (MM OF HG)	01/23/92-01/23/92	0	1	
GRCA0133	No	00025	BAROMETRIC PRESSURE (MM OF HG)	01/23/92-01/23/92	0	1	
GRCA0137	No	00025	BAROMETRIC PRESSURE (MM OF HG)	05/11/90-05/11/90	0	1	
GRCA0138	No	00025	BAROMETRIC PRESSURE (MM OF HG)	05/19/93-05/19/93	0	1	
GRCA0147	Yes	00025	BAROMETRIC PRESSURE (MM OF HG)	10/07/89-10/12/89	0	37	
GRCA0148	No	00025	BAROMETRIC PRESSURE (MM OF HG)	05/14/90-04/05/92	1	6	
GRCA0150	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/22/91-05/15/93	1	2	
GRCA0151	No	00025	BAROMETRIC PRESSURE (MM OF HG)	05/15/93-05/15/93	0	1	
GRCA0152	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/23/91-05/15/93	1	2	
GRCA0153	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/23/91-08/23/91	0	1	
GRCA0154	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/23/91-08/23/91	0	1	
GRCA0157	No	00025	BAROMETRIC PRESSURE (MM OF HG)	08/24/91-08/24/91	0	1	
GRCA0158	No	00025	BAROMETRIC PRESSURE (MM OF HG)	05/17/93-05/17/93	0	1	
GRCA0160	No	00025	BAROMETRIC PRESSURE (MM OF HG)	05/17/93-05/17/93	0	1	
GRCA0002	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/05/89-10/10/89	0	22	
GRCA0011	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/18/67-09/22/95	27	169	
GRCA0012	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	07/21/54-10/04/94	40	384	
GRCA0031	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	11/20/81-11/20/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0038	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	11/20/81-11/20/81	0	1	
GRCA0043	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	11/20/81-11/20/81	0	1	
GRCA0055	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	11/24/64-10/11/89	24	58	
GRCA0086	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	11/19/81-11/19/81	0	1	
GRCA0094	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	11/19/81-11/19/81	0	1	
GRCA0100	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	11/18/81-11/18/81	0	1	
GRCA0104	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	11/18/81-11/18/81	0	1	
GRCA0111	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/23/94-08/23/94	0	1	
GRCA0112	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/28/82-03/28/82	0	1	
GRCA0113	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/24/94-08/24/94	0	1	
GRCA0121	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	01/06/95-01/06/95	0	1	
GRCA0122	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/10/90-04/01/92	1	3	
GRCA0124	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	01/01/89-03/30/92	3	268	
GRCA0127	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	04/23/93-04/23/93	0	1	
GRCA0128	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	01/06/95-01/06/95	0	1	
GRCA0131	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	04/11/90-01/07/95	4	6	
GRCA0133	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	01/23/92-01/23/92	0	1	
GRCA0134	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/20/93-05/20/93	0	1	
GRCA0137	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/11/90-01/08/95	4	3	
GRCA0138	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/19/93-05/19/93	0	1	
GRCA0139	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/13/93-10/13/93	0	1	
GRCA0140	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/25/92-10/25/92	0	1	
GRCA0141	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	01/08/95-01/08/95	0	1	
GRCA0142	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/13/93-10/13/93	0	1	
GRCA0147	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/07/89-10/12/89	0	37	
GRCA0148	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/14/90-04/05/92	1	6	
GRCA0150	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/22/91-12/08/94	3	4	
GRCA0151	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/15/93-12/08/94	1	3	
GRCA0152	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/23/91-06/05/94	2	3	
GRCA0153	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/23/91-08/23/91	0	1	
GRCA0154	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/23/91-08/23/91	0	1	
GRCA0155	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/15/93-12/08/94	1	3	
GRCA0156	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/08/94-06/08/94	0	1	
GRCA0157	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/24/91-08/24/91	0	1	
GRCA0158	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/17/93-12/06/94	1	3	
GRCA0160	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/17/93-12/07/94	1	3	
GRCA0161	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/07/94-12/07/94	0	1	
GRCA0162	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/05/94-12/06/94	0	2	
GRCA0164	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	06/11/93-11/17/93	0	2	
GRCA0002	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/05/89-10/10/89	0	22	
GRCA0006	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/04/76-08/04/76	0	1	
GRCA0011	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/18/67-09/22/95	27	203	
GRCA0012	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/21/54-10/04/94	40	401	
GRCA0015	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/30/52-04/30/52	0	1	
GRCA0016	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/30/52-04/30/52	0	1	
GRCA0017	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/07/78-11/15/79	1	14	
GRCA0019	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/06/76-08/06/76	0	1	
GRCA0020	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/17/66-07/18/79	13	5	
GRCA0021	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/04/76-08/04/76	0	1	
GRCA0026	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/15/60-06/15/60	0	1	
GRCA0031	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/20/81-11/20/81	0	1	
GRCA0032	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/20/65-06/20/65	0	1	
GRCA0038	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/02/81-09/02/81	0	1	
GRCA0051	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/11/61-11/11/61	0	1	
GRCA0053	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/24/64-10/11/89	24	85	
GRCA0060	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/02/81-09/02/81	0	1	
GRCA0062	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/04/81-09/04/81	0	1	
GRCA0081	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/04/81-09/04/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0083	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/19/81-11/19/81	0	1	
GRCA0091	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/27/51-06/27/51	0	1	
GRCA0094	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/19/81-11/19/81	0	1	
GRCA0097	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/27/51-06/27/51	0	1	
GRCA0100	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/18/81-11/18/81	0	1	
GRCA0111	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/23/94-08/23/94	0	1	
GRCA0112	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/28/82-03/28/82	0	1	
GRCA0113	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/24/94-08/24/94	0	1	
GRCA0121	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	01/06/95-01/06/95	0	1	
GRCA0122	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/10/90-04/01/92	1	3	
GRCA0124	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	01/01/89-03/30/92	3	268	
GRCA0127	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/23/93-04/23/93	0	1	
GRCA0128	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	01/06/95-01/06/95	0	1	
GRCA0129	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/09/76-08/09/76	0	1	
GRCA0131	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/11/90-01/07/95	4	6	
GRCA0133	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	01/23/92-01/23/92	0	1	
GRCA0134	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/20/93-05/20/93	0	1	
GRCA0135	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/07/51-08/10/76	25	2	
GRCA0137	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/11/90-01/08/95	4	3	
GRCA0138	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/19/93-05/19/93	0	1	
GRCA0139	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/13/93-10/13/93	0	1	
GRCA0140	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/25/92-10/25/92	0	1	
GRCA0141	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	01/08/95-01/08/95	0	1	
GRCA0142	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/13/93-10/13/93	0	1	
GRCA0147	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/07/89-10/12/89	0	37	
GRCA0148	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/14/90-04/05/92	1	6	
GRCA0150	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/22/91-12/08/94	3	4	
GRCA0151	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/15/93-12/08/94	1	3	
GRCA0152	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/23/91-06/05/94	2	3	
GRCA0153	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/23/91-08/23/91	0	1	
GRCA0154	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/23/91-08/23/91	0	1	
GRCA0155	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/15/93-12/08/94	1	3	
GRCA0156	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/08/94-06/08/94	0	1	
GRCA0157	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/24/91-08/24/91	0	1	
GRCA0158	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/17/93-12/06/94	1	3	
GRCA0160	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	05/17/93-12/07/94	1	3	
GRCA0161	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/07/94-12/07/94	0	1	
GRCA0162	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/05/94-12/06/94	0	2	
GRCA0164	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	06/11/93-11/17/93	0	2	
GRCA0131	No	00041	WEATHER (WMO CODE 4501)	06/02/91-06/02/91	0	1	
GRCA0011	No	00049	SURFACE AREA IN SQUARE MILES	10/01/47-09/27/62	14	569	
GRCA0012	No	00049	SURFACE AREA IN SQUARE MILES	10/01/47-09/18/61	13	66	
GRCA0055	Yes	00049	SURFACE AREA IN SQUARE MILES	10/01/47-09/27/62	14	469	
GRCA0060	Yes	00049	SURFACE AREA IN SQUARE MILES	12/31/61-09/28/62	0	5	
GRCA0124	Yes	00056	FLOW, RATE GALLONS/DAY	10/09/89-10/12/89	0	7	
GRCA0124	Yes	00058	FLOW, RATE GALLONS/MIN	10/09/89-10/12/89	0	11	
GRCA0040	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	09/02/81-09/02/81	0	1	
GRCA0071	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	09/04/81-09/04/81	0	1	
GRCA0111	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	08/23/94-08/23/94	0	1	
GRCA0113	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	08/24/94-08/24/94	0	1	
GRCA0124	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/09/89-10/12/89	0	27	
GRCA0001	No	00060	FLOW, STREAM, MEAN DAILY CFS	11/23/59-09/27/65	5	295	
GRCA0011	No	00060	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	52	1179	T,A,S
GRCA0012	No	00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	26	124	
GRCA0055	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	08/23/25-09/29/72	47	1404	S
GRCA0060	Yes	00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	10	103	
GRCA0002	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/05/89-10/10/89	0	22	
GRCA0011	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	47	451	
GRCA0012	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	47	458	
GRCA0013	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/06/92-10/04/94	2	6	
GRCA0017	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/14/77-11/15/79	2	26	
GRCA0020	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/18/79-07/18/79	0	1	
GRCA0022	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/10/92-10/15/95	3	9	
GRCA0027	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/05/94-10/14/95	1	6	

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Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0030	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/24/92-10/07/94	2	9	
GRCA0031	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/20/81-11/20/81	0	1	
GRCA0033	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/92-10/14/95	3	11	
GRCA0036	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/17/95-06/17/95	0	1	
GRCA0038	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/20/81-11/20/81	0	1	
GRCA0039	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/92-10/14/95	3	5	
GRCA0040	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/02/81-09/02/81	0	1	
GRCA0050	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/20/94-05/20/94	0	1	
GRCA0052	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/11/92-10/16/95	3	9	
GRCA0053	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/02/81-09/02/81	0	1	
GRCA0054	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/26/93-11/26/93	0	1	
GRCA0055	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	41	240	
GRCA0057	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/12/92-06/12/92	0	1	
GRCA0058	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/14/93-08/02/95	2	7	
GRCA0059	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/12/92-10/14/92	0	2	
GRCA0060	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/14/72-09/02/81	8	16	
GRCA0062	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/01/81-09/01/81	0	1	
GRCA0064	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/29/94-03/29/94	0	1	
GRCA0065	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/01/81-09/01/81	0	1	
GRCA0067	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/22/94-06/22/94	0	1	
GRCA0068	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/01/81-09/01/81	0	1	
GRCA0069	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/28/93-05/26/94	0	3	
GRCA0071	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/81-09/04/81	0	1	
GRCA0073	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/31/94-03/31/94	0	1	
GRCA0074	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/31/94-03/31/94	0	1	
GRCA0075	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/81-09/04/81	0	1	
GRCA0076	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/14/92-10/18/95	3	7	
GRCA0078	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/14/92-10/18/95	3	11	
GRCA0080	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/31/94-06/09/94	0	2	
GRCA0081	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/81-09/04/81	0	1	
GRCA0084	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/94-06/09/94	0	1	
GRCA0086	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/19/81-11/19/81	0	1	
GRCA0087	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/14/92-10/19/95	3	11	
GRCA0088	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/15/92-08/03/95	3	9	
GRCA0089	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/19/81-11/19/81	0	1	
GRCA0093	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/16/92-08/04/95	3	9	
GRCA0094	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/19/81-11/19/81	0	1	
GRCA0095	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/15/92-08/03/95	3	10	
GRCA0098	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/27/92-10/21/95	3	11	
GRCA0100	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/18/81-11/18/81	0	1	
GRCA0103	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/17/92-10/21/95	3	9	
GRCA0104	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	11/18/81-11/18/81	0	1	
GRCA0106	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/27/92-10/21/95	3	12	
GRCA0110	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/18/92-10/22/95	3	7	
GRCA0111	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/23/94-08/23/94	0	1	
GRCA0112	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/28/82-03/28/82	0	1	
GRCA0113	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/24/94-08/24/94	0	1	
GRCA0116	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/95-10/22/95	0	1	
GRCA0119	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/28/92-07/08/94	2	8	
GRCA0121	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	01/06/95-01/06/95	0	1	
GRCA0122	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/10/90-04/01/92	1	3	
GRCA0123	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/92-06/23/95	3	9	
GRCA0124	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/89-10/12/89	0	266	
GRCA0127	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/23/93-04/23/93	0	1	
GRCA0128	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	01/06/95-01/06/95	0	1	
GRCA0130	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	07/05/93-10/14/93	0	2	
GRCA0131	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/11/90-01/07/95	4	4	
GRCA0134	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/20/93-05/20/93	0	1	
GRCA0136	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/21/92-10/25/95	3	10	
GRCA0137	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/11/90-01/08/95	4	3	
GRCA0138	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/19/93-05/19/93	0	1	
GRCA0139	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/13/93-10/13/93	0	1	
GRCA0140	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/25/92-10/25/92	0	1	
GRCA0141	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	01/08/95-01/08/95	0	1	

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Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0142	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/13/93-10/13/93	0	1	
GRCA0146	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/20/92-10/24/95	3	11	
GRCA0147	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/89-10/12/89	0	37	
GRCA0148	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/14/90-04/05/92	1	5	
GRCA0149	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/25/92-10/25/92	0	1	
GRCA0150	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/22/91-12/08/94	3	4	
GRCA0151	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/15/93-12/08/94	1	3	
GRCA0152	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/23/91-06/05/94	2	3	
GRCA0153	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/23/91-08/23/91	0	1	
GRCA0154	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/23/91-08/23/91	0	1	
GRCA0155	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/15/93-12/08/94	1	3	
GRCA0156	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/08/94-06/08/94	0	1	
GRCA0157	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	08/24/91-08/24/91	0	1	
GRCA0158	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/17/93-12/06/94	1	3	
GRCA0160	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/17/93-12/07/94	1	3	
GRCA0162	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/05/94-12/06/94	0	2	
GRCA0164	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/11/93-11/17/93	0	2	
GRCA0002	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	10/05/89-10/10/89	0	12	
GRCA0011	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	04/13/63-09/22/95	32	92	
GRCA0012	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	04/13/63-03/29/91	27	2	
GRCA0055	Yes	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	11/20/85-10/11/89	3	21	
GRCA0111	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	08/23/94-08/23/94	0	1	
GRCA0113	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	08/24/94-08/24/94	0	1	
GRCA0122	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	05/10/90-04/01/92	1	2	
GRCA0124	Yes	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	10/07/89-03/30/92	2	7	
GRCA0127	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	04/23/93-04/23/93	0	1	
GRCA0131	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	04/11/90-01/23/92	1	4	
GRCA0133	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	01/23/92-01/23/92	0	1	
GRCA0134	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	05/20/93-05/20/93	0	1	
GRCA0137	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	05/11/90-05/11/90	0	1	
GRCA0138	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	05/19/93-05/19/93	0	1	
GRCA0140	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	10/25/92-10/25/92	0	1	
GRCA0147	Yes	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	10/08/89-10/12/89	0	13	
GRCA0148	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	05/14/90-04/05/92	1	4	
GRCA0150	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	08/22/91-05/15/93	1	2	
GRCA0151	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	05/15/93-05/15/93	0	1	
GRCA0152	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	08/23/91-05/15/93	1	2	
GRCA0153	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	08/23/91-08/23/91	0	1	
GRCA0154	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	08/23/91-08/23/91	0	1	
GRCA0155	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	05/15/93-05/15/93	0	1	
GRCA0157	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	08/24/91-08/24/91	0	1	
GRCA0158	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	05/17/93-05/17/93	0	1	
GRCA0160	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	05/17/93-05/17/93	0	1	
GRCA0164	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	06/11/93-06/11/93	0	1	
GRCA0002	No	00065	STAGE, STREAM (FEET)	10/05/89-10/10/89	0	22	
GRCA0004	No	00065	STAGE, STREAM (FEET)	12/01/80-12/01/80	0	1	
GRCA0011	No	00065	STAGE, STREAM (FEET)	11/02/82-09/21/95	12	105	
GRCA0012	No	00065	STAGE, STREAM (FEET)	09/13/90-09/07/94	3	308	
GRCA0055	Yes	00065	STAGE, STREAM (FEET)	05/18/83-10/11/89	6	53	
GRCA0124	Yes	00065	STAGE, STREAM (FEET)	10/07/89-10/12/89	0	11	
GRCA0147	Yes	00065	STAGE, STREAM (FEET)	10/07/89-10/12/89	0	37	
GRCA0004	No	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	12/01/80-12/01/80	0	1	
GRCA0001	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/23/59-09/30/68	8	282	
GRCA0011	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	03/15/74-05/03/78	4	30	
GRCA0012	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/15/77-04/18/79	1	18	
GRCA0017	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/14/77-04/19/79	1	14	
GRCA0165	No	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	02/24/75-11/21/75	0	7	
GRCA0002	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/05/89-10/10/89	0	6	
GRCA0003	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	12/01/93-09/22/94	0	7	
GRCA0004	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/10/78-11/12/86	8	41	
GRCA0011	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	17	132	
GRCA0012	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/15/79-03/29/91	11	8	
GRCA0017	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/16/79-11/15/79	0	7	
GRCA0020	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/18/79-07/18/79	0	1	
GRCA0031	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/20/81-11/20/81	0	1	
GRCA0038	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/02/81-09/02/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0053	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/23/80-10/11/89	9	7	
GRCA0060	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/02/81-09/02/81	0	1	
GRCA0062	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/04/81-09/04/81	0	1	
GRCA0081	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/19/81-11/19/81	0	1	
GRCA0094	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/19/81-11/19/81	0	1	
GRCA0100	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/18/81-11/18/81	0	1	
GRCA0112	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/28/82-03/28/82	0	1	
GRCA0122	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/31/92-03/31/92	0	1	
GRCA0124	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/07/89-10/11/89	0	5	
GRCA0147	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/08/89-10/12/89	0	6	
GRCA0124	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	03/30/92-03/30/92	0	1	
GRCA0165	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	02/24/75-11/21/75	0	3	
GRCA0124	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	03/30/92-03/30/92	0	1	
GRCA0001	No	00080	COLOR (PLATINUM-COBALT UNITS)	11/23/59-09/30/68	8	249	
GRCA0011	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/01/50-10/01/70	20	82	
GRCA0055	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	10/01/50-10/01/70	20	77	
GRCA0003	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/01/93-09/22/94	0	7	
GRCA0004	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/78-11/12/86	8	34	
GRCA0013	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/06/92-10/04/94	2	7	
GRCA0022	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/10/92-07/02/94	2	6	
GRCA0025	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/10/92-10/15/95	3	8	
GRCA0027	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/93-10/14/95	2	7	
GRCA0028	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/09/92-10/07/94	1	3	
GRCA0030	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/24/92-10/13/95	3	10	
GRCA0033	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/09/92-10/14/95	3	11	
GRCA0036	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/17/95-06/17/95	0	1	
GRCA0039	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/09/92-10/14/95	3	6	
GRCA0042	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/20/94-03/20/94	0	1	
GRCA0045	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/23/94-04/23/94	0	1	
GRCA0046	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/24/94-04/24/94	0	1	
GRCA0048	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/24/94-04/24/94	0	1	
GRCA0050	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/17/93-05/20/94	0	2	
GRCA0052	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/92-06/18/95	3	8	
GRCA0054	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/26/93-11/26/93	0	1	
GRCA0056	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/22/94-05/22/94	0	1	
GRCA0057	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/12/92-06/12/92	0	1	
GRCA0058	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/14/93-08/02/95	2	7	
GRCA0059	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/12/92-10/14/92	0	2	
GRCA0063	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/27/94-03/29/94	0	2	
GRCA0064	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/27/94-03/29/94	0	2	
GRCA0067	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/28/93-06/22/94	0	4	
GRCA0069	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/28/93-05/26/94	0	3	
GRCA0070	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/30/94-03/30/94	0	1	
GRCA0072	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/30/94-03/30/94	0	1	
GRCA0074	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/31/94-03/31/94	0	1	
GRCA0076	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/14/92-08/02/95	3	6	
GRCA0078	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/14/92-08/02/95	3	10	
GRCA0080	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/31/94-06/09/94	0	2	
GRCA0084	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/09/94-06/09/94	0	1	
GRCA0085	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/13/94-03/13/94	0	1	
GRCA0087	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/14/92-08/03/95	3	10	
GRCA0088	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/15/92-08/03/95	3	9	
GRCA0090	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/19/92-10/19/92	0	1	
GRCA0093	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/16/92-08/04/95	3	9	
GRCA0095	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/15/92-10/19/95	3	11	
GRCA0096	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/19/92-10/16/94	1	2	
GRCA0098	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/27/92-10/21/95	3	12	
GRCA0101	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/20/95-10/20/95	0	1	
GRCA0102	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/20/94-06/20/94	0	1	
GRCA0103	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/17/92-10/21/95	3	10	
GRCA0106	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM 25C)	05/27/92-08/05/95	3	11	

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Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0110	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/18/92-08/05/95	3	6	
GRCA0119	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/92-06/23/95	3	10	
GRCA0123	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/19/92-06/23/95	3	9	
GRCA0126	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/05/95-08/05/95	0	1	
GRCA0130	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/19/92-06/24/95	3	7	
GRCA0136	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/21/92-08/06/95	3	9	
GRCA0144	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/20/92-08/06/95	3	10	
GRCA0149	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/25/92-10/25/92	0	1	
GRCA0159	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/26/75-05/23/76	0	7	
GRCA0165	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/24/75-11/21/75	0	10	
GRCA0166	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	11	102	A
GRCA0167	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/27/75-06/10/76	0	9	
GRCA0001	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/05/68-11/10/69	1	19	
GRCA0002	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/05/89-10/10/89	0	12	
GRCA0003	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/01/93-09/22/94	0	7	
GRCA0004	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/10/78-11/12/86	8	41	
GRCA0006	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/04/76-08/04/76	0	1	
GRCA0011	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	52	1014	T,A,S
GRCA0012	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	43	103	S
GRCA0015	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/52-04/30/52	0	1	
GRCA0016	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/52-04/30/52	0	1	
GRCA0017	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/14/77-11/15/79	2	25	
GRCA0019	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/06/76-08/06/76	0	1	
GRCA0020	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/17/66-07/18/79	13	5	
GRCA0021	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/04/76-08/04/76	0	1	
GRCA0024	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/01/76-05/01/76	0	1	
GRCA0026	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/15/60-06/15/60	0	1	
GRCA0029	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/29/76-04/29/76	0	1	
GRCA0031	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/29/76-11/20/81	5	2	
GRCA0032	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/20/65-06/20/65	0	1	
GRCA0034	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/76-04/30/76	0	1	
GRCA0038	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/02/81-09/02/81	0	1	
GRCA0051	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/11/61-11/11/61	0	1	
GRCA0053	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	53	1106	T,A,S
GRCA0060	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	19	123	
GRCA0062	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/04/81-09/04/81	0	1	
GRCA0077	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/03/76-05/03/76	0	1	
GRCA0081	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/76-11/19/81	5	2	
GRCA0089	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/76-11/19/81	5	2	
GRCA0091	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/27/51-06/27/51	0	1	
GRCA0094	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/05/76-11/19/81	5	2	
GRCA0097	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/27/51-06/27/51	0	1	
GRCA0100	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/06/76-11/18/81	5	2	
GRCA0104	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/07/76-11/18/81	5	2	
GRCA0105	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/18/81-11/18/81	0	1	
GRCA0107	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/26/89-05/26/89	0	1	
GRCA0109	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/07/76-05/07/76	0	1	
GRCA0111	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/94-08/23/94	0	1	
GRCA0112	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/28/82-03/28/82	0	1	
GRCA0113	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/24/94-08/24/94	0	1	
GRCA0114	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/07/76-05/07/76	0	1	
GRCA0117	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/08/76-05/08/76	0	1	
GRCA0120	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/27/89-05/27/89	0	1	
GRCA0121	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/06/95-01/06/95	0	1	
GRCA0122	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/10/90-04/01/92	1	3	
GRCA0124	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	10/07/89-03/30/92	2	6	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0125	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/08/76-05/08/76	0	1	
GRCA0127	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/23/93-04/23/93	0	1	
GRCA0128	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/06/95-01/06/95	0	1	
GRCA0129	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/76-08/09/76	0	1	
GRCA0131	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/09/76-01/07/95	18	7	
GRCA0132	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/09/76-05/09/76	0	1	
GRCA0133	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/92-01/23/92	0	1	
GRCA0134	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/20/93-05/20/93	0	1	
GRCA0135	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/51-08/10/76	25	2	
GRCA0137	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/90-01/08/95	4	3	
GRCA0138	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/19/93-05/19/93	0	1	
GRCA0139	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/13/93-10/13/93	0	1	
GRCA0140	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/25/92-10/25/92	0	1	
GRCA0141	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/08/95-01/08/95	0	1	
GRCA0142	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/13/93-10/13/93	0	1	
GRCA0143	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/76-05/11/76	0	1	
GRCA0147	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/89-10/12/89	0	13	
GRCA0148	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/14/90-04/05/92	1	5	
GRCA0150	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/91-12/08/94	3	4	
GRCA0151	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/93-12/08/94	1	3	
GRCA0152	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/91-06/05/94	2	3	
GRCA0153	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/91-08/23/91	0	1	
GRCA0154	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/91-08/23/91	0	1	
GRCA0155	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/93-12/08/94	1	3	
GRCA0156	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/08/94-06/08/94	0	1	
GRCA0157	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/24/91-08/24/91	0	1	
GRCA0158	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/17/93-12/06/94	1	3	
GRCA0160	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/17/93-12/07/94	1	3	
GRCA0161	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/07/94-12/07/94	0	1	
GRCA0162	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/05/94-06/05/94	0	1	
GRCA0164	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/11/93-11/17/93	0	2	
GRCA0013	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/06/92-10/04/94	2	6	
GRCA0022	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/10/92-10/15/95	3	9	
GRCA0027	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/93-10/14/95	2	7	
GRCA0028	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/09/92-10/07/94	1	3	
GRCA0030	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/24/92-10/13/95	3	10	
GRCA0033	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/09/92-10/14/95	3	11	
GRCA0036	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/17/95-06/17/95	0	1	
GRCA0039	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/09/92-10/14/95	3	7	
GRCA0042	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/20/94-03/20/94	0	1	
GRCA0045	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/23/94-04/23/94	0	1	
GRCA0046	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/24/94-04/24/94	0	1	
GRCA0048	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/24/94-04/24/94	0	1	
GRCA0050	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	11/17/93-05/20/94	0	2	
GRCA0052	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/11/92-10/16/95	3	9	
GRCA0054	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	11/26/93-11/26/93	0	1	
GRCA0056	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/22/94-05/22/94	0	1	
GRCA0057	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/12/92-06/12/92	0	1	
GRCA0058	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/14/93-08/02/95	2	7	
GRCA0059	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/12/92-10/14/92	0	2	
GRCA0063	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	02/27/94-02/27/94	0	1	
GRCA0064	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	02/27/94-02/27/94	0	1	
GRCA0067	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	11/28/93-06/22/94	0	4	
GRCA0069	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	11/28/93-03/17/94	0	2	
GRCA0074	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/31/94-03/31/94	0	1	
GRCA0076	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/14/92-10/18/95	3	7	
GRCA0078	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/14/92-10/18/95	3	11	
GRCA0080	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/31/94-06/09/94	0	2	
GRCA0084	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/09/94-06/09/94	0	1	
GRCA0085	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/13/94-03/13/94	0	1	
GRCA0087	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/14/92-10/19/95	3	11	
GRCA0088	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/15/92-08/03/95	3	9	
GRCA0093	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/16/92-08/04/95	3	9	
GRCA0095	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/15/92-10/19/95	3	10	
GRCA0096	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/19/92-10/16/94	1	2	
GRCA0098	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/27/92-10/21/95	3	12	
GRCA0101	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/20/95-10/20/95	0	1	
GRCA0102	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/20/94-06/20/94	0	1	
GRCA0103	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/17/92-10/21/95	3	10	
GRCA0106	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/27/92-10/21/95	3	12	
GRCA0110	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/18/92-10/22/95	3	6	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0116	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/22/95-10/22/95	0	1	
GRCA0119	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/28/92-06/23/95	3	9	
GRCA0123	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/19/92-06/23/95	3	8	
GRCA0126	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/05/95-08/05/95	0	1	
GRCA0130	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/19/92-06/24/95	3	6	
GRCA0136	No	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/21/92-10/25/95	3	9	
GRCA0144	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/21/92-10/24/92	0	2	
GRCA0146	Yes	00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/20/92-10/24/95	3	11	
GRCA0001	No	00300	OXYGEN, DISSOLVED MG/L	11/13/61-05/25/66	4	124	
GRCA0002	No	00300	OXYGEN, DISSOLVED MG/L	10/05/89-10/10/89	0	22	
GRCA0003	No	00300	OXYGEN, DISSOLVED MG/L	12/01/93-09/22/94	0	7	
GRCA0004	No	00300	OXYGEN, DISSOLVED MG/L	05/10/78-11/12/86	8	37	
GRCA0011	No	00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	26	165	T
GRCA0012	No	00300	OXYGEN, DISSOLVED MG/L	07/30/69-11/15/79	10	33	
GRCA0017	No	00300	OXYGEN, DISSOLVED MG/L	10/13/77-11/15/79	2	24	
GRCA0055	Yes	00300	OXYGEN, DISSOLVED MG/L	05/18/83-10/11/89	6	45	
GRCA0105	Yes	00300	OXYGEN, DISSOLVED MG/L	11/18/81-11/18/81	0	1	
GRCA0107	Yes	00300	OXYGEN, DISSOLVED MG/L	05/26/89-05/26/89	0	1	
GRCA0111	No	00300	OXYGEN, DISSOLVED MG/L	08/23/94-08/23/94	0	1	
GRCA0113	No	00300	OXYGEN, DISSOLVED MG/L	08/24/94-08/24/94	0	1	
GRCA0120	Yes	00300	OXYGEN, DISSOLVED MG/L	05/27/89-05/27/89	0	1	
GRCA0122	No	00300	OXYGEN, DISSOLVED MG/L	05/10/90-04/01/92	1	3	
GRCA0124	Yes	00300	OXYGEN, DISSOLVED MG/L	10/07/89-03/30/92	2	10	
GRCA0127	No	00300	OXYGEN, DISSOLVED MG/L	04/23/93-04/23/93	0	1	
GRCA0131	No	00300	OXYGEN, DISSOLVED MG/L	01/23/92-01/23/92	0	1	
GRCA0133	No	00300	OXYGEN, DISSOLVED MG/L	01/23/92-01/23/92	0	1	
GRCA0137	No	00300	OXYGEN, DISSOLVED MG/L	05/11/90-10/14/93	3	2	
GRCA0138	No	00300	OXYGEN, DISSOLVED MG/L	05/19/93-05/19/93	0	1	
GRCA0139	No	00300	OXYGEN, DISSOLVED MG/L	10/13/93-10/13/93	0	1	
GRCA0142	No	00300	OXYGEN, DISSOLVED MG/L	10/13/93-10/13/93	0	1	
GRCA0147	Yes	00300	OXYGEN, DISSOLVED MG/L	10/07/89-10/12/89	0	37	
GRCA0148	No	00300	OXYGEN, DISSOLVED MG/L	05/14/90-04/05/92	1	6	
GRCA0150	No	00300	OXYGEN, DISSOLVED MG/L	08/22/91-05/15/93	1	2	
GRCA0151	No	00300	OXYGEN, DISSOLVED MG/L	05/15/93-05/15/93	0	1	
GRCA0152	No	00300	OXYGEN, DISSOLVED MG/L	08/23/91-05/15/93	1	2	
GRCA0153	No	00300	OXYGEN, DISSOLVED MG/L	08/23/91-08/23/91	0	1	
GRCA0154	No	00300	OXYGEN, DISSOLVED MG/L	08/23/91-08/23/91	0	1	
GRCA0155	No	00300	OXYGEN, DISSOLVED MG/L	05/15/93-05/15/93	0	1	
GRCA0157	No	00300	OXYGEN, DISSOLVED MG/L	08/24/91-08/24/91	0	1	
GRCA0158	No	00300	OXYGEN, DISSOLVED MG/L	05/17/93-05/17/93	0	1	
GRCA0159	No	00300	OXYGEN, DISSOLVED MG/L	10/26/75-05/23/76	0	7	
GRCA0160	No	00300	OXYGEN, DISSOLVED MG/L	05/17/93-05/17/93	0	1	
GRCA0164	No	00300	OXYGEN, DISSOLVED MG/L	06/11/93-11/17/93	0	2	
GRCA0165	No	00300	OXYGEN, DISSOLVED MG/L	02/24/75-11/21/75	0	10	
GRCA0167	No	00300	OXYGEN, DISSOLVED MG/L	09/27/75-06/10/76	0	9	
GRCA0011	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	12/29/70-04/12/89	18	28	
GRCA0013	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/06/92-10/04/94	2	6	
GRCA0022	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/10/92-10/15/95	3	9	
GRCA0027	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/05/93-10/14/95	2	7	
GRCA0028	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/09/92-10/07/94	1	3	
GRCA0030	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/24/92-10/13/95	3	10	
GRCA0033	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/09/92-10/14/95	3	11	
GRCA0036	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/17/95-06/17/95	0	1	
GRCA0039	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/09/92-10/14/95	3	7	
GRCA0042	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	03/20/94-03/20/94	0	1	
GRCA0045	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/94-04/23/94	0	1	
GRCA0046	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/24/94-04/24/94	0	1	
GRCA0048	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/24/94-04/24/94	0	1	
GRCA0050	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	11/17/93-05/20/94	0	2	
GRCA0052	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/11/92-10/16/95	3	9	
GRCA0054	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	11/26/93-11/26/93	0	1	
GRCA0055	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/01/85-07/31/85	0	2	
GRCA0056	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/22/94-05/22/94	0	1	
GRCA0057	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/12/92-06/12/92	0	1	
GRCA0058	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/14/93-08/02/95	2	7	
GRCA0059	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/12/92-10/14/92	0	2	
GRCA0063	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	02/27/94-02/27/94	0	1	
GRCA0064	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	02/27/94-02/27/94	0	1	
GRCA0067	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	11/28/93-06/22/94	0	4	
GRCA0069	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	11/28/93-03/17/94	0	2	
GRCA0076	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/14/92-10/18/95	3	7	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0078	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/14/92-10/18/95	3	11	
GRCA0080	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	03/31/94-06/09/94	0	2	
GRCA0084	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/09/94-06/09/94	0	1	
GRCA0085	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	03/13/94-03/13/94	0	1	
GRCA0087	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/14/92-10/19/95	3	11	
GRCA0088	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/15/92-08/03/95	3	9	
GRCA0093	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/16/92-08/04/95	3	9	
GRCA0095	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/15/92-10/19/95	3	10	
GRCA0096	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/19/92-10/16/94	1	2	
GRCA0098	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/27/92-10/21/95	3	12	
GRCA0101	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/20/95-10/20/95	0	1	
GRCA0102	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/94-06/20/94	0	1	
GRCA0103	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/17/92-10/21/95	3	10	
GRCA0106	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/27/92-10/21/95	3	12	
GRCA0110	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/18/92-10/22/95	3	7	
GRCA0116	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/22/95-10/22/95	0	1	
GRCA0119	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/28/92-06/23/95	3	10	
GRCA0123	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/19/92-06/23/95	3	8	
GRCA0126	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/05/95-08/05/95	0	1	
GRCA0130	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/19/92-06/24/95	3	6	
GRCA0136	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/21/92-10/25/95	3	9	
GRCA0144	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/21/92-10/24/92	0	2	
GRCA0146	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/92-10/24/95	3	11	
GRCA0001	No	00310	BOD, 5 DAY, 20 DEG C MG/L	10/29/62-05/25/66	3	70	
GRCA0004	No	00310	BOD, 5 DAY, 20 DEG C MG/L	01/17/79-08/15/79	0	4	
GRCA0001	No	00335	COD, .025N K2CR2O7 MG/L	08/09/65-08/09/65	0	1	
GRCA0004	No	00335	COD, .025N K2CR2O7 MG/L	09/06/78-11/12/86	8	38	
GRCA0011	No	00340	COD, .25N K2CR2O7 MG/L	01/04/85-09/21/95	10	66	
GRCA0055	Yes	00340	COD, .25N K2CR2O7 MG/L	05/18/83-05/18/83	0	1	
GRCA0001	No	00370	CHLORINE DEMAND, 1 HOUR (MG/L)	02/08/65-02/08/65	0	1	
GRCA0001	No	00380	CHLORINE DEMAND, 24 HOUR (MG/L)	07/10/61-02/08/65	3	2	
GRCA0001	No	00400	PH (STANDARD UNITS)	11/23/59-05/25/66	6	311	
GRCA0002	No	00400	PH (STANDARD UNITS)	10/05/89-10/10/89	0	12	
GRCA0003	No	00400	PH (STANDARD UNITS)	12/01/93-09/22/94	0	6	
GRCA0004	No	00400	PH (STANDARD UNITS)	05/10/78-11/12/86	8	32	
GRCA0006	No	00400	PH (STANDARD UNITS)	08/04/76-08/04/76	0	1	
GRCA0011	No	00400	PH (STANDARD UNITS)	10/12/47-09/22/95	47	880	T,A,S
GRCA0012	No	00400	PH (STANDARD UNITS)	10/21/69-11/15/79	10	42	
GRCA0017	No	00400	PH (STANDARD UNITS)	09/14/77-11/15/79	2	25	
GRCA0019	No	00400	PH (STANDARD UNITS)	08/06/76-08/06/76	0	1	
GRCA0020	No	00400	PH (STANDARD UNITS)	05/17/66-07/18/79	13	5	
GRCA0021	No	00400	PH (STANDARD UNITS)	08/04/76-08/04/76	0	1	
GRCA0029	Yes	00400	PH (STANDARD UNITS)	04/29/76-04/29/76	0	1	
GRCA0031	Yes	00400	PH (STANDARD UNITS)	04/29/76-04/29/76	0	1	
GRCA0032	Yes	00400	PH (STANDARD UNITS)	06/20/65-06/20/65	0	1	
GRCA0038	Yes	00400	PH (STANDARD UNITS)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	00400	PH (STANDARD UNITS)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00400	PH (STANDARD UNITS)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00400	PH (STANDARD UNITS)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00400	PH (STANDARD UNITS)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00400	PH (STANDARD UNITS)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00400	PH (STANDARD UNITS)	09/02/81-09/02/81	0	1	
GRCA0051	Yes	00400	PH (STANDARD UNITS)	11/11/61-11/11/61	0	1	
GRCA0053	Yes	00400	PH (STANDARD UNITS)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00400	PH (STANDARD UNITS)	02/01/45-10/11/89	44	844	T,S
GRCA0060	Yes	00400	PH (STANDARD UNITS)	12/31/61-09/02/81	19	122	
GRCA0062	Yes	00400	PH (STANDARD UNITS)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00400	PH (STANDARD UNITS)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00400	PH (STANDARD UNITS)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00400	PH (STANDARD UNITS)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00400	PH (STANDARD UNITS)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00400	PH (STANDARD UNITS)	09/04/81-09/04/81	0	1	
GRCA0081	Yes	00400	PH (STANDARD UNITS)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00400	PH (STANDARD UNITS)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00400	PH (STANDARD UNITS)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00400	PH (STANDARD UNITS)	11/19/81-11/19/81	0	1	
GRCA0094	Yes	00400	PH (STANDARD UNITS)	11/19/81-11/19/81	0	1	
GRCA0105	Yes	00400	PH (STANDARD UNITS)	11/18/81-11/18/81	0	1	
GRCA0107	Yes	00400	PH (STANDARD UNITS)	05/26/89-05/26/89	0	1	
GRCA0109	Yes	00400	PH (STANDARD UNITS)	05/07/76-05/07/76	0	1	
GRCA0111	No	00400	PH (STANDARD UNITS)	08/23/94-08/23/94	0	1	
GRCA0112	No	00400	PH (STANDARD UNITS)	03/28/82-03/28/82	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0113	No	00400	PH (STANDARD UNITS)	08/24/94-08/24/94	0	1	
GRCA0114	Yes	00400	PH (STANDARD UNITS)	05/07/76-05/07/76	0	1	
GRCA0120	Yes	00400	PH (STANDARD UNITS)	05/27/89-05/27/89	0	1	
GRCA0121	No	00400	PH (STANDARD UNITS)	01/06/95-01/06/95	0	1	
GRCA0122	No	00400	PH (STANDARD UNITS)	05/10/90-04/01/92	1	3	
GRCA0124	Yes	00400	PH (STANDARD UNITS)	10/07/89-03/30/92	2	6	
GRCA0125	Yes	00400	PH (STANDARD UNITS)	05/08/76-05/08/76	0	1	
GRCA0127	No	00400	PH (STANDARD UNITS)	04/23/93-04/23/93	0	1	
GRCA0128	No	00400	PH (STANDARD UNITS)	01/06/95-01/06/95	0	1	
GRCA0129	Yes	00400	PH (STANDARD UNITS)	08/09/76-08/09/76	0	1	
GRCA0131	No	00400	PH (STANDARD UNITS)	05/09/76-01/07/95	18	6	
GRCA0132	No	00400	PH (STANDARD UNITS)	05/09/76-05/09/76	0	1	
GRCA0133	No	00400	PH (STANDARD UNITS)	01/23/92-01/23/92	0	1	
GRCA0134	No	00400	PH (STANDARD UNITS)	05/20/93-05/20/93	0	1	
GRCA0135	No	00400	PH (STANDARD UNITS)	08/10/76-08/10/76	0	1	
GRCA0137	No	00400	PH (STANDARD UNITS)	05/11/90-01/08/95	4	3	
GRCA0138	No	00400	PH (STANDARD UNITS)	05/19/93-05/19/93	0	1	
GRCA0139	No	00400	PH (STANDARD UNITS)	10/13/93-10/13/93	0	1	
GRCA0140	No	00400	PH (STANDARD UNITS)	10/25/92-10/25/92	0	1	
GRCA0141	No	00400	PH (STANDARD UNITS)	01/08/95-01/08/95	0	1	
GRCA0142	No	00400	PH (STANDARD UNITS)	10/13/93-10/13/93	0	1	
GRCA0143	No	00400	PH (STANDARD UNITS)	05/11/76-05/11/76	0	1	
GRCA0147	Yes	00400	PH (STANDARD UNITS)	10/08/89-10/12/89	0	8	
GRCA0148	No	00400	PH (STANDARD UNITS)	05/14/90-04/05/92	1	5	
GRCA0150	No	00400	PH (STANDARD UNITS)	08/22/91-12/08/94	3	3	
GRCA0151	No	00400	PH (STANDARD UNITS)	05/15/93-12/08/94	1	2	
GRCA0152	No	00400	PH (STANDARD UNITS)	08/23/91-05/15/93	1	2	
GRCA0153	No	00400	PH (STANDARD UNITS)	08/23/91-08/23/91	0	1	
GRCA0154	No	00400	PH (STANDARD UNITS)	08/23/91-08/23/91	0	1	
GRCA0155	No	00400	PH (STANDARD UNITS)	05/15/93-12/08/94	1	2	
GRCA0157	No	00400	PH (STANDARD UNITS)	08/24/91-08/24/91	0	1	
GRCA0158	No	00400	PH (STANDARD UNITS)	05/17/93-12/06/94	1	2	
GRCA0159	No	00400	PH (STANDARD UNITS)	10/26/75-05/23/76	0	7	
GRCA0160	No	00400	PH (STANDARD UNITS)	05/17/93-12/07/94	1	2	
GRCA0161	No	00400	PH (STANDARD UNITS)	12/07/94-12/07/94	0	1	
GRCA0162	No	00400	PH (STANDARD UNITS)	12/06/94-12/06/94	0	1	
GRCA0164	No	00400	PH (STANDARD UNITS)	06/11/93-11/17/93	0	2	
GRCA0165	No	00400	PH (STANDARD UNITS)	02/24/75-11/21/75	0	10	
GRCA0166	No	00400	PH (STANDARD UNITS)	11/01/43-07/01/52	8	84	
GRCA0167	No	00400	PH (STANDARD UNITS)	09/27/75-06/10/76	0	9	
GRCA0002	No	00403	PH, LAB, STANDARD UNITS SU	10/05/89-10/10/89	0	6	
GRCA0003	No	00403	PH, LAB, STANDARD UNITS SU	01/20/94-09/22/94	0	6	
GRCA0004	No	00403	PH, LAB, STANDARD UNITS SU	05/10/78-11/12/86	8	10	
GRCA0011	No	00403	PH, LAB, STANDARD UNITS SU	11/06/80-09/21/95	14	107	
GRCA0031	Yes	00403	PH, LAB, STANDARD UNITS SU	11/20/81-11/20/81	0	1	
GRCA0038	Yes	00403	PH, LAB, STANDARD UNITS SU	11/20/81-11/20/81	0	1	
GRCA0040	Yes	00403	PH, LAB, STANDARD UNITS SU	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00403	PH, LAB, STANDARD UNITS SU	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00403	PH, LAB, STANDARD UNITS SU	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00403	PH, LAB, STANDARD UNITS SU	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00403	PH, LAB, STANDARD UNITS SU	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00403	PH, LAB, STANDARD UNITS SU	09/02/81-09/02/81	0	1	
GRCA0053	Yes	00403	PH, LAB, STANDARD UNITS SU	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00403	PH, LAB, STANDARD UNITS SU	10/07/80-10/11/89	9	29	
GRCA0060	Yes	00403	PH, LAB, STANDARD UNITS SU	09/02/81-09/02/81	0	1	
GRCA0062	Yes	00403	PH, LAB, STANDARD UNITS SU	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00403	PH, LAB, STANDARD UNITS SU	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00403	PH, LAB, STANDARD UNITS SU	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00403	PH, LAB, STANDARD UNITS SU	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00403	PH, LAB, STANDARD UNITS SU	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00403	PH, LAB, STANDARD UNITS SU	09/04/81-09/04/81	0	1	
GRCA0081	Yes	00403	PH, LAB, STANDARD UNITS SU	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00403	PH, LAB, STANDARD UNITS SU	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00403	PH, LAB, STANDARD UNITS SU	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00403	PH, LAB, STANDARD UNITS SU	11/19/81-11/19/81	0	1	
GRCA0094	Yes	00403	PH, LAB, STANDARD UNITS SU	11/19/81-11/19/81	0	1	
GRCA0100	Yes	00403	PH, LAB, STANDARD UNITS SU	11/18/81-11/18/81	0	1	
GRCA0104	Yes	00403	PH, LAB, STANDARD UNITS SU	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00403	PH, LAB, STANDARD UNITS SU	11/18/81-11/18/81	0	1	
GRCA0111	No	00403	PH, LAB, STANDARD UNITS SU	08/23/94-08/23/94	0	1	
GRCA0112	No	00403	PH, LAB, STANDARD UNITS SU	03/28/82-03/28/82	0	1	
GRCA0113	No	00403	PH, LAB, STANDARD UNITS SU	08/24/94-08/24/94	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0124	Yes	00403	PH, LAB, STANDARD UNITS SU	10/07/89-10/11/89	0	5	
GRCA0131	No	00403	PH, LAB, STANDARD UNITS SU	01/23/92-10/10/93	1	2	
GRCA0133	No	00403	PH, LAB, STANDARD UNITS SU	01/23/92-01/23/92	0	1	
GRCA0134	No	00403	PH, LAB, STANDARD UNITS SU	05/20/93-05/20/93	0	1	
GRCA0137	No	00403	PH, LAB, STANDARD UNITS SU	10/14/93-10/14/93	0	1	
GRCA0138	No	00403	PH, LAB, STANDARD UNITS SU	05/19/93-05/19/93	0	1	
GRCA0147	Yes	00403	PH, LAB, STANDARD UNITS SU	10/08/89-10/12/89	0	6	
GRCA0150	No	00403	PH, LAB, STANDARD UNITS SU	05/15/93-05/15/93	0	1	
GRCA0151	No	00403	PH, LAB, STANDARD UNITS SU	05/15/93-05/15/93	0	1	
GRCA0152	No	00403	PH, LAB, STANDARD UNITS SU	05/15/93-05/15/93	0	1	
GRCA0155	No	00403	PH, LAB, STANDARD UNITS SU	05/15/93-05/15/93	0	1	
GRCA0158	No	00403	PH, LAB, STANDARD UNITS SU	05/17/93-05/17/93	0	1	
GRCA0160	No	00403	PH, LAB, STANDARD UNITS SU	05/17/93-05/17/93	0	1	
GRCA0164	No	00403	PH, LAB, STANDARD UNITS SU	06/11/93-06/11/93	0	1	
GRCA0003	No	00405	CARBON DIOXIDE (MG/L AS CO2)	12/01/93-09/22/94	0	7	
GRCA0004	No	00405	CARBON DIOXIDE (MG/L AS CO2)	05/10/78-11/12/86	8	41	
GRCA0006	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/04/76-08/04/76	0	1	
GRCA0011	No	00405	CARBON DIOXIDE (MG/L AS CO2)	07/31/55-05/03/78	22	161	
GRCA0012	No	00405	CARBON DIOXIDE (MG/L AS CO2)	10/21/69-12/14/78	9	19	
GRCA0017	No	00405	CARBON DIOXIDE (MG/L AS CO2)	09/14/77-12/13/78	1	14	
GRCA0019	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/06/76-08/06/76	0	1	
GRCA0020	No	00405	CARBON DIOXIDE (MG/L AS CO2)	05/17/66-03/15/67	0	4	
GRCA0021	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/04/76-08/04/76	0	1	
GRCA0032	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	06/20/65-06/20/65	0	1	
GRCA0051	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	11/11/61-11/11/61	0	1	
GRCA0055	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	02/01/45-06/01/79	34	322	
GRCA0060	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	11/14/72-03/08/74	1	17	
GRCA0129	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/76-08/09/76	0	1	
GRCA0135	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/10/76-08/10/76	0	1	
GRCA0013	No	00406	PH, FIELD, STANDARD UNITS SU	06/06/92-10/04/94	2	7	
GRCA0022	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/10/92-10/15/95	3	9	
GRCA0027	Yes	00406	PH, FIELD, STANDARD UNITS SU	10/05/93-10/14/95	2	7	
GRCA0028	Yes	00406	PH, FIELD, STANDARD UNITS SU	10/09/92-10/07/94	1	3	
GRCA0030	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/24/92-10/13/95	3	10	
GRCA0033	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/09/92-10/14/95	3	11	
GRCA0036	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/17/95-06/17/95	0	1	
GRCA0039	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/09/92-10/14/95	3	7	
GRCA0042	Yes	00406	PH, FIELD, STANDARD UNITS SU	03/20/94-03/20/94	0	1	
GRCA0045	Yes	00406	PH, FIELD, STANDARD UNITS SU	04/23/94-04/23/94	0	1	
GRCA0046	Yes	00406	PH, FIELD, STANDARD UNITS SU	04/24/94-04/24/94	0	1	
GRCA0048	Yes	00406	PH, FIELD, STANDARD UNITS SU	04/24/94-04/24/94	0	1	
GRCA0050	Yes	00406	PH, FIELD, STANDARD UNITS SU	11/17/93-05/20/94	0	2	
GRCA0052	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/11/92-10/16/95	3	9	
GRCA0054	Yes	00406	PH, FIELD, STANDARD UNITS SU	11/26/93-11/26/93	0	1	
GRCA0056	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/22/94-05/22/94	0	1	
GRCA0057	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/12/92-06/12/92	0	1	
GRCA0058	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/14/93-08/02/95	2	7	
GRCA0059	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/12/92-10/14/92	0	2	
GRCA0063	Yes	00406	PH, FIELD, STANDARD UNITS SU	02/27/94-03/29/94	0	2	
GRCA0064	Yes	00406	PH, FIELD, STANDARD UNITS SU	02/27/94-03/29/94	0	2	
GRCA0067	Yes	00406	PH, FIELD, STANDARD UNITS SU	11/28/93-06/22/94	0	4	
GRCA0069	Yes	00406	PH, FIELD, STANDARD UNITS SU	11/28/93-05/26/94	0	3	
GRCA0070	Yes	00406	PH, FIELD, STANDARD UNITS SU	03/30/94-03/30/94	0	1	
GRCA0072	Yes	00406	PH, FIELD, STANDARD UNITS SU	03/30/94-03/30/94	0	1	
GRCA0074	Yes	00406	PH, FIELD, STANDARD UNITS SU	03/31/94-03/31/94	0	1	
GRCA0076	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/14/92-10/18/95	3	6	
GRCA0078	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/14/92-10/18/95	3	11	
GRCA0080	Yes	00406	PH, FIELD, STANDARD UNITS SU	03/31/94-06/09/94	0	2	
GRCA0084	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/09/94-06/09/94	0	1	
GRCA0085	Yes	00406	PH, FIELD, STANDARD UNITS SU	03/13/94-03/13/94	0	1	
GRCA0087	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/14/92-10/19/95	3	11	
GRCA0088	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/15/92-08/03/95	3	9	
GRCA0090	Yes	00406	PH, FIELD, STANDARD UNITS SU	10/19/92-10/19/92	0	1	
GRCA0093	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/16/92-08/04/95	3	9	
GRCA0095	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/15/92-10/19/95	3	11	
GRCA0096	Yes	00406	PH, FIELD, STANDARD UNITS SU	10/19/92-10/16/94	1	2	
GRCA0098	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/27/92-10/21/95	3	12	
GRCA0101	Yes	00406	PH, FIELD, STANDARD UNITS SU	10/20/95-10/20/95	0	1	
GRCA0102	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/20/94-06/20/94	0	1	
GRCA0103	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/17/92-10/21/95	3	10	
GRCA0106	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/27/92-10/21/95	3	12	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0110	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/18/92-10/22/95	3	7	
GRCA0115	Yes	00406	PH, FIELD, STANDARD UNITS SU	10/22/95-10/22/95	0	1	
GRCA0116	Yes	00406	PH, FIELD, STANDARD UNITS SU	10/22/95-10/22/95	0	1	
GRCA0119	Yes	00406	PH, FIELD, STANDARD UNITS SU	05/28/92-06/23/95	3	10	
GRCA0123	No	00406	PH, FIELD, STANDARD UNITS SU	06/19/92-06/23/95	3	9	
GRCA0126	Yes	00406	PH, FIELD, STANDARD UNITS SU	08/05/95-08/05/95	0	1	
GRCA0130	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/19/92-06/24/95	3	7	
GRCA0136	No	00406	PH, FIELD, STANDARD UNITS SU	06/21/92-10/25/95	3	10	
GRCA0144	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/21/92-10/24/92	0	2	
GRCA0146	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/20/92-10/24/95	3	11	
GRCA0149	Yes	00406	PH, FIELD, STANDARD UNITS SU	10/25/92-10/25/92	0	1	
GRCA0001	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/60-09/30/68	8	302	
GRCA0003	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/01/93-09/22/94	0	7	
GRCA0004	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/78-11/12/86	8	41	
GRCA0006	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/04/76-08/04/76	0	1	
GRCA0011	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	64	495	T,S
GRCA0012	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/21/69-11/15/79	10	34	
GRCA0013	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/06/92-02/09/94	1	6	
GRCA0015	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/52-04/30/52	0	1	
GRCA0016	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/52-04/30/52	0	1	
GRCA0017	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/14/77-11/15/79	2	22	
GRCA0019	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/06/76-08/06/76	0	1	
GRCA0020	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/17/66-07/18/79	13	5	
GRCA0021	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/04/76-08/04/76	0	1	
GRCA0022	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/10/92-10/15/95	3	9	
GRCA0026	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/15/60-06/15/60	0	1	
GRCA0027	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/05/93-10/14/95	2	7	
GRCA0028	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/09/92-10/07/94	1	3	
GRCA0030	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/24/92-10/13/95	3	10	
GRCA0032	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/65-06/20/65	0	1	
GRCA0033	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/09/92-10/14/95	3	11	
GRCA0036	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/17/95-06/17/95	0	1	
GRCA0039	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/09/92-10/14/95	3	7	
GRCA0042	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/20/94-03/20/94	0	1	
GRCA0045	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/23/94-04/23/94	0	1	
GRCA0046	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/94-04/24/94	0	1	
GRCA0048	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/94-04/24/94	0	1	
GRCA0050	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/17/93-05/20/94	0	2	
GRCA0051	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/11/61-11/11/61	0	1	
GRCA0052	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/11/92-10/16/95	3	9	
GRCA0054	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/26/93-11/26/93	0	1	
GRCA0055	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	61	1101	S
GRCA0056	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/94-05/22/94	0	1	
GRCA0057	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/12/92-06/12/92	0	1	
GRCA0058	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/14/93-08/02/95	2	7	
GRCA0059	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/12/92-10/14/92	0	2	
GRCA0060	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/17/67-03/08/74	6	70	
GRCA0063	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/27/94-03/29/94	0	2	
GRCA0064	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/27/94-03/29/94	0	2	
GRCA0067	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/28/93-06/22/94	0	4	
GRCA0069	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/28/93-05/26/94	0	3	
GRCA0070	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/94-03/30/94	0	1	
GRCA0072	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/94-03/30/94	0	1	
GRCA0074	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/31/94-03/31/94	0	1	
GRCA0076	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/14/92-10/18/95	3	7	
GRCA0078	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/14/92-10/18/95	3	11	
GRCA0080	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/31/94-06/09/94	0	2	
GRCA0084	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/09/94-06/09/94	0	1	
GRCA0085	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/13/94-03/13/94	0	1	
GRCA0087	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/14/92-10/19/95	3	11	
GRCA0088	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/15/92-08/03/95	3	9	
GRCA0090	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/19/92-10/19/92	0	1	
GRCA0091	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/27/51-06/27/51	0	1	
GRCA0093	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/16/92-08/04/95	3	9	
GRCA0095	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/15/92-10/19/95	3	10	
GRCA0096	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/19/92-10/16/94	1	2	
GRCA0097	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/27/51-06/27/51	0	1	
GRCA0098	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/27/92-10/21/95	3	12	
GRCA0101	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/20/95-10/20/95	0	1	
GRCA0102	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/94-06/20/94	0	1	
GRCA0103	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/17/92-10/21/95	3	10	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0106	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/27/92-10/21/95	3	12	
GRCA0110	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/18/92-10/22/95	3	7	
GRCA0115	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/22/95-10/22/95	0	1	
GRCA0116	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/22/95-10/22/95	0	1	
GRCA0119	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/28/92-06/23/95	3	10	
GRCA0123	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/19/92-06/23/95	3	9	
GRCA0126	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/05/95-08/05/95	0	1	
GRCA0129	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/76-08/09/76	0	1	
GRCA0130	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/19/92-06/24/95	3	7	
GRCA0131	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/23/92-01/23/92	0	1	
GRCA0133	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/23/92-01/23/92	0	1	
GRCA0135	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/07/51-08/10/76	25	2	
GRCA0136	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/21/92-10/25/95	3	10	
GRCA0144	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/21/92-10/25/95	3	3	
GRCA0146	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/92-10/24/95	3	11	
GRCA0149	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/25/92-10/25/92	0	1	
GRCA0159	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/26/75-05/23/76	0	7	
GRCA0165	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/24/75-11/21/75	0	10	
GRCA0167	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/27/75-05/23/76	0	7	
GRCA0011	No	00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	01/09/87-01/09/87	0	1	
GRCA0011	No	00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	10/24/86-09/23/87	0	3	
GRCA0055	Yes	00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	12/08/86-12/08/86	0	1	
GRCA0003	No	00440	BICARBONATE ION (MG/L AS HCO3)	12/01/93-09/22/94	0	7	
GRCA0004	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/10/78-11/12/86	8	41	
GRCA0006	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/04/76-08/04/76	0	1	
GRCA0011	No	00440	BICARBONATE ION (MG/L AS HCO3)	01/11/26-09/23/87	61	901	S
GRCA0012	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/01/47-12/14/78	31	82	
GRCA0015	No	00440	BICARBONATE ION (MG/L AS HCO3)	04/30/52-04/30/52	0	1	
GRCA0016	No	00440	BICARBONATE ION (MG/L AS HCO3)	04/30/52-04/30/52	0	1	
GRCA0017	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/14/77-12/13/78	1	14	
GRCA0019	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/06/76-08/06/76	0	1	
GRCA0020	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/17/66-03/15/67	0	4	
GRCA0021	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/04/76-08/04/76	0	1	
GRCA0026	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	06/15/60-06/15/60	0	1	
GRCA0032	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	06/20/65-06/20/65	0	1	
GRCA0051	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	11/11/61-11/11/61	0	1	
GRCA0055	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	53	1459	S
GRCA0060	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	12	122	
GRCA0091	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	06/27/51-06/27/51	0	1	
GRCA0097	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	06/27/51-06/27/51	0	1	
GRCA0129	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	08/09/76-08/09/76	0	1	
GRCA0135	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/07/51-08/10/76	25	2	
GRCA0166	No	00440	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	11	119	A
GRCA0003	No	00445	CARBONATE ION (MG/L AS CO3)	12/01/93-09/22/94	0	7	
GRCA0004	No	00445	CARBONATE ION (MG/L AS CO3)	05/10/78-11/12/86	8	40	
GRCA0006	No	00445	CARBONATE ION (MG/L AS CO3)	08/04/76-08/04/76	0	1	
GRCA0011	No	00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	27	161	
GRCA0012	No	00445	CARBONATE ION (MG/L AS CO3)	10/21/69-12/14/78	9	25	
GRCA0015	No	00445	CARBONATE ION (MG/L AS CO3)	04/30/52-04/30/52	0	1	
GRCA0016	No	00445	CARBONATE ION (MG/L AS CO3)	04/30/52-04/30/52	0	1	
GRCA0017	No	00445	CARBONATE ION (MG/L AS CO3)	09/14/77-12/13/78	1	14	
GRCA0019	No	00445	CARBONATE ION (MG/L AS CO3)	08/06/76-08/06/76	0	1	
GRCA0020	No	00445	CARBONATE ION (MG/L AS CO3)	05/17/66-03/15/67	0	4	
GRCA0021	No	00445	CARBONATE ION (MG/L AS CO3)	08/04/76-08/04/76	0	1	
GRCA0026	Yes	00445	CARBONATE ION (MG/L AS CO3)	06/15/60-06/15/60	0	1	
GRCA0032	Yes	00445	CARBONATE ION (MG/L AS CO3)	06/20/65-06/20/65	0	1	
GRCA0051	Yes	00445	CARBONATE ION (MG/L AS CO3)	11/11/61-11/11/61	0	1	
GRCA0055	Yes	00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	17	208	
GRCA0060	Yes	00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	12	112	
GRCA0091	Yes	00445	CARBONATE ION (MG/L AS CO3)	06/27/51-06/27/51	0	1	
GRCA0129	Yes	00445	CARBONATE ION (MG/L AS CO3)	08/09/76-08/09/76	0	1	
GRCA0135	No	00445	CARBONATE ION (MG/L AS CO3)	08/10/76-08/10/76	0	1	
GRCA0166	No	00445	CARBONATE ION (MG/L AS CO3)	11/01/43-07/01/49	5	13	
GRCA0011	No	00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	12/02/86-12/02/86	0	1	
GRCA0011	No	00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	10/24/86-12/02/86	0	2	
GRCA0055	Yes	00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	12/08/86-12/08/86	0	1	
GRCA0002	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/05/89-10/10/89	0	6	
GRCA0011	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/24/86-09/21/95	8	73	
GRCA0055	Yes	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/06/89-10/11/89	0	7	
GRCA0111	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	08/23/94-08/23/94	0	1	
GRCA0113	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	08/24/94-08/24/94	0	1	
GRCA0122	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/10/90-04/01/92	1	2	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0124	Yes	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/07/89-10/11/89	0	5	
GRCA0127	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	04/23/93-04/23/93	0	1	
GRCA0131	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	04/11/90-10/10/93	3	4	
GRCA0133	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	01/23/92-01/23/92	0	1	
GRCA0134	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/20/93-05/20/93	0	1	
GRCA0137	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/11/90-10/14/93	3	2	
GRCA0138	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/19/93-05/19/93	0	1	
GRCA0139	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/13/93-10/13/93	0	1	
GRCA0140	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/25/92-10/25/92	0	1	
GRCA0142	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/13/93-10/13/93	0	1	
GRCA0147	Yes	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/08/89-10/12/89	0	7	
GRCA0148	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/14/90-04/05/92	1	5	
GRCA0150	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	08/22/91-05/15/93	1	2	
GRCA0151	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/15/93-05/15/93	0	1	
GRCA0152	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	08/23/91-05/15/93	1	2	
GRCA0153	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	08/23/91-08/23/91	0	1	
GRCA0154	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	08/23/91-08/23/91	0	1	
GRCA0155	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/15/93-05/15/93	0	1	
GRCA0157	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	08/24/91-08/24/91	0	1	
GRCA0158	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/17/93-05/17/93	0	1	
GRCA0160	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/17/93-05/17/93	0	1	
GRCA0164	No	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	06/11/93-11/17/93	0	2	
GRCA0002	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/05/89-10/10/89	0	6	
GRCA0011	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/24/86-09/21/95	8	73	
GRCA0055	Yes	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	12/08/86-10/11/89	2	9	
GRCA0111	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	08/23/94-08/23/94	0	1	
GRCA0113	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	08/24/94-08/24/94	0	1	
GRCA0122	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/10/90-04/01/92	1	2	
GRCA0124	Yes	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/07/89-10/11/89	0	5	
GRCA0127	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	04/23/93-04/23/93	0	1	
GRCA0131	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	04/11/90-10/10/93	3	4	
GRCA0133	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	01/23/92-01/23/92	0	1	
GRCA0134	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/20/93-05/20/93	0	1	
GRCA0137	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/11/90-10/14/93	3	2	
GRCA0138	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/19/93-05/19/93	0	1	
GRCA0139	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/13/93-10/13/93	0	1	
GRCA0140	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/25/92-10/25/92	0	1	
GRCA0142	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/13/93-10/13/93	0	1	
GRCA0147	Yes	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/08/89-10/12/89	0	8	
GRCA0148	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/14/90-04/05/92	1	5	
GRCA0150	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	08/22/91-05/15/93	1	2	
GRCA0151	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/15/93-05/15/93	0	1	
GRCA0152	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	08/23/91-05/15/93	1	2	
GRCA0153	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	08/23/91-08/23/91	0	1	
GRCA0154	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	08/23/91-08/23/91	0	1	
GRCA0155	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/15/93-05/15/93	0	1	
GRCA0157	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	08/24/91-08/24/91	0	1	
GRCA0158	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/17/93-05/17/93	0	1	
GRCA0160	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/17/93-05/17/93	0	1	
GRCA0164	No	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	06/11/93-11/17/93	0	2	
GRCA0001	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/18/61-05/25/66	4	172	
GRCA0004	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/12/78-12/05/84	6	25	
GRCA0001	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/23/59-09/26/66	6	254	
GRCA0003	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/01/93-09/22/94	0	7	
GRCA0004	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/16/79-11/12/86	7	20	
GRCA0011	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/04/85-09/21/95	10	71	
GRCA0013	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/06/92-10/04/94	2	6	
GRCA0022	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/07/93-10/10/94	1	4	
GRCA0058	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/14/92-10/11/94	2	8	
GRCA0080	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/14/92-06/14/92	0	1	
GRCA0087	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/15/92-10/13/94	2	8	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0093	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/18/92-05/09/94	1	4	
GRCA0119	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/28/92-10/17/94	2	9	
GRCA0123	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/05/93-10/18/94	1	4	
GRCA0136	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/16/93-10/20/94	1	4	
GRCA0146	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/20/92-10/19/94	2	8	
GRCA0011	No	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	12/30/74-06/04/80	5	11	
GRCA0011	No	00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	12/30/74-06/04/80	5	11	
GRCA0011	No	00600	NITROGEN, TOTAL (MG/L AS N)	03/15/74-09/02/81	7	57	
GRCA0012	No	00600	NITROGEN, TOTAL (MG/L AS N)	09/15/77-09/17/79	2	5	
GRCA0017	No	00600	NITROGEN, TOTAL (MG/L AS N)	09/14/77-09/18/79	2	4	
GRCA0020	No	00600	NITROGEN, TOTAL (MG/L AS N)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	01/23/80-01/23/80	0	1	
GRCA0011	No	00602	NITROGEN, DISSOLVED (MG/L AS N)	09/19/79-09/02/81	1	19	
GRCA0055	Yes	00602	NITROGEN, DISSOLVED (MG/L AS N)	01/23/80-01/23/80	0	1	
GRCA0011	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/07/77-09/02/81	3	35	
GRCA0020	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/23/80-01/23/80	0	1	
GRCA0011	No	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	10/17/79-09/02/81	1	18	
GRCA0055	Yes	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	01/23/80-01/23/80	0	1	
GRCA0002	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/05/89-10/10/89	0	12	
GRCA0011	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/17/79-09/21/95	15	111	
GRCA0055	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/23/80-10/11/89	9	16	
GRCA0111	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/23/94-08/23/94	0	1	
GRCA0113	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/24/94-08/24/94	0	1	
GRCA0124	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/07/89-10/11/89	0	5	
GRCA0131	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/10/93-10/10/93	0	1	
GRCA0134	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/93-05/20/93	0	1	
GRCA0137	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/14/93-10/14/93	0	1	
GRCA0138	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/19/93-05/19/93	0	1	
GRCA0147	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/08/89-10/12/89	0	13	
GRCA0150	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0151	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0152	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0155	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0158	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/17/93-05/17/93	0	1	
GRCA0160	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/17/93-05/17/93	0	1	
GRCA0164	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/11/93-06/11/93	0	1	
GRCA0001	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/04/61-12/03/62	0	37	
GRCA0002	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/05/89-10/10/89	0	12	
GRCA0003	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/93-09/22/94	0	7	
GRCA0004	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/78-11/12/86	8	38	
GRCA0011	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	18	121	
GRCA0013	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/06/92-10/04/94	2	6	
GRCA0020	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/18/79-07/18/79	0	1	
GRCA0022	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/05/93-10/08/94	1	4	
GRCA0028	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/01/93-10/07/94	1	2	
GRCA0030	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/28/93-05/04/94	0	3	
GRCA0042	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/20/94-03/20/94	0	1	
GRCA0045	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/23/94-04/23/94	0	1	
GRCA0046	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/94-04/24/94	0	1	
GRCA0048	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/94-04/24/94	0	1	
GRCA0050	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/17/93-11/17/93	0	1	
GRCA0052	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/11/92-10/10/94	2	7	
GRCA0054	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/26/93-11/26/93	0	1	
GRCA0055	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/23/80-10/11/89	9	16	
GRCA0056	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/22/94-05/22/94	0	1	
GRCA0058	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/12/92-10/14/92	0	2	
GRCA0063	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/29/94-03/29/94	0	1	
GRCA0064	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/27/94-03/29/94	0	2	
GRCA0067	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/93-06/22/94	0	2	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0069	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/93-05/26/94	0	2	
GRCA0070	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/30/94-03/30/94	0	1	
GRCA0072	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/30/94-03/30/94	0	1	
GRCA0074	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/31/94-03/31/94	0	1	
GRCA0076	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/15/92-10/11/94	1	2	
GRCA0078	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/14/92-10/11/94	2	8	
GRCA0080	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/14/92-06/09/94	1	3	
GRCA0084	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/09/94-06/09/94	0	1	
GRCA0087	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/18/92-10/14/94	1	4	
GRCA0095	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/27/92-10/15/94	2	9	
GRCA0102	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/94-06/20/94	0	1	
GRCA0103	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/20/92-10/15/94	1	5	
GRCA0106	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/18/92-05/09/94	1	4	
GRCA0119	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/92-10/17/94	2	9	
GRCA0123	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/19/92-07/09/94	2	7	
GRCA0124	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/89-10/11/89	0	5	
GRCA0130	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/19/92-10/18/94	2	6	
GRCA0136	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/24/92-10/20/94	1	6	
GRCA0144	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/24/92-10/24/92	0	1	
GRCA0146	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/92-10/19/94	2	8	
GRCA0147	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/08/89-10/12/89	0	13	
GRCA0159	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/26/75-05/23/76	0	7	
GRCA0165	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/24/75-11/21/75	0	10	
GRCA0167	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/27/75-05/23/76	0	7	
GRCA0004	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/10/78-11/12/86	8	29	
GRCA0011	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/10/73-09/21/95	22	85	
GRCA0055	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/16/72-08/01/75	2	27	
GRCA0060	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/14/72-03/08/74	1	17	
GRCA0111	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/23/94-08/23/94	0	1	
GRCA0113	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/24/94-08/24/94	0	1	
GRCA0131	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	10/10/93-10/10/93	0	1	
GRCA0134	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/93-05/20/93	0	1	
GRCA0137	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	10/14/93-10/14/93	0	1	
GRCA0138	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/19/93-05/19/93	0	1	
GRCA0150	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0151	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0152	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0155	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0158	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/17/93-05/17/93	0	1	
GRCA0160	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/17/93-05/17/93	0	1	
GRCA0164	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/11/93-06/11/93	0	1	
GRCA0002	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/05/89-10/10/89	0	12	
GRCA0004	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/17/79-12/05/84	5	11	
GRCA0011	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/15/74-09/07/94	20	35	
GRCA0055	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/06/89-10/11/89	0	15	
GRCA0124	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/89-10/11/89	0	5	
GRCA0147	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/08/89-10/12/89	0	13	
GRCA0004	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/10/78-11/12/86	8	32	
GRCA0011	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/11/26-05/30/75	49	224	S
GRCA0032	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/20/65-06/20/65	0	1	
GRCA0055	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/23/25-08/01/75	49	742	
GRCA0060	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/14/72-03/08/74	1	17	
GRCA0091	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/27/51-06/27/51	0	1	
GRCA0097	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/27/51-06/27/51	0	1	
GRCA0135	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/07/51-08/07/51	0	1	
GRCA0004	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/17/79-12/05/84	5	11	
GRCA0011	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/15/74-05/28/74	0	3	
GRCA0011	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/07/77-07/09/91	13	36	
GRCA0020	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	01/23/80-01/23/80	0	1	
GRCA0011	No	00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	02/02/78-09/02/81	3	32	
GRCA0020	No	00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	01/23/80-01/23/80	0	1	
GRCA0002	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/05/89-10/10/89	0	12	
GRCA0004	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/10/78-11/12/86	8	41	
GRCA0011	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	21	164	
GRCA0012	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/15/77-09/17/79	2	5	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0013	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/06/92-10/04/94	2	6	
GRCA0017	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/14/77-09/18/79	2	4	
GRCA0020	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/18/79-07/18/79	0	1	
GRCA0022	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/05/93-10/08/94	1	4	
GRCA0028	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/93-10/07/94	1	2	
GRCA0030	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/03/93-05/04/94	0	2	
GRCA0052	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/93-10/10/94	1	4	
GRCA0055	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/23/80-10/11/89	9	17	
GRCA0058	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/14/92-10/11/94	2	8	
GRCA0080	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/14/92-06/14/92	0	1	
GRCA0087	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/18/92-05/09/94	1	4	
GRCA0111	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/23/94-08/23/94	0	1	
GRCA0113	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/24/94-08/24/94	0	1	
GRCA0119	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/28/92-10/17/94	2	9	
GRCA0123	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/19/92-07/09/94	2	7	
GRCA0124	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/89-10/11/89	0	5	
GRCA0130	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/05/93-10/18/94	1	4	
GRCA0131	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/10/93-10/10/93	0	1	
GRCA0134	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/20/93-05/20/93	0	1	
GRCA0136	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/06/93-10/20/94	1	5	
GRCA0137	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/14/93-10/14/93	0	1	
GRCA0138	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/19/93-05/19/93	0	1	
GRCA0146	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/92-10/19/94	2	8	
GRCA0147	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/08/89-10/12/89	0	13	
GRCA0150	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0151	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0152	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0155	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0158	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/17/93-05/17/93	0	1	
GRCA0159	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/26/75-05/23/76	0	7	
GRCA0160	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/17/93-05/17/93	0	1	
GRCA0164	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/11/93-06/11/93	0	1	
GRCA0165	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/24/75-11/21/75	0	10	
GRCA0167	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/27/75-05/23/76	0	7	
GRCA0001	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/07/64-09/30/68	3	29	
GRCA0002	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/05/89-10/10/89	0	12	
GRCA0003	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/01/93-09/22/94	0	7	
GRCA0004	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/10/78-04/26/83	4	23	
GRCA0011	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	24	145	T
GRCA0012	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/77-09/17/79	2	5	
GRCA0013	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/06/92-10/04/94	2	6	
GRCA0017	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/14/77-09/18/79	2	4	
GRCA0020	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/18/79-07/18/79	0	1	
GRCA0022	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/05/93-10/08/94	1	4	
GRCA0028	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/93-10/07/94	1	2	
GRCA0030	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/03/93-05/04/94	0	2	
GRCA0052	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/93-10/10/94	1	4	
GRCA0055	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/23/80-10/11/89	9	17	
GRCA0058	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/14/92-10/11/94	2	8	
GRCA0080	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/14/92-06/14/92	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0087	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/18/92-05/09/94	1	4	
GRCA0119	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/28/92-10/17/94	2	9	
GRCA0123	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/19/92-07/09/94	2	7	
GRCA0124	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/89-10/11/89	0	5	
GRCA0130	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/05/93-10/18/94	1	4	
GRCA0136	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/06/93-10/20/94	1	5	
GRCA0146	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/20/92-10/19/94	2	8	
GRCA0147	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/08/89-10/12/89	0	13	
GRCA0159	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/26/75-05/23/76	0	7	
GRCA0165	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/24/75-11/21/75	0	10	
GRCA0167	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/27/75-05/23/76	0	7	
GRCA0002	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/05/89-10/10/89	0	12	
GRCA0006	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/04/76-08/04/76	0	1	
GRCA0011	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	24	165	T
GRCA0012	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/11/71-03/21/79	8	7	
GRCA0019	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/06/76-08/06/76	0	1	
GRCA0021	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/04/76-08/04/76	0	1	
GRCA0031	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/20/81-11/20/81	0	1	
GRCA0038	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	19	130	
GRCA0060	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/22/71-09/02/81	10	25	
GRCA0062	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/04/81-09/04/81	0	1	
GRCA0081	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/19/81-11/19/81	0	1	
GRCA0094	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/19/81-11/19/81	0	1	
GRCA0100	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/18/81-11/18/81	0	1	
GRCA0111	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/23/94-08/23/94	0	1	
GRCA0113	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/24/94-08/24/94	0	1	
GRCA0124	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/07/89-10/11/89	0	5	
GRCA0129	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/09/76-08/09/76	0	1	
GRCA0131	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/10/93-10/10/93	0	1	
GRCA0134	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/20/93-05/20/93	0	1	
GRCA0135	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/10/76-08/10/76	0	1	
GRCA0137	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/14/93-10/14/93	0	1	
GRCA0138	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/19/93-05/19/93	0	1	
GRCA0147	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/08/89-10/12/89	0	13	
GRCA0150	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0151	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0152	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0155	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/93-05/15/93	0	1	
GRCA0158	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/17/93-05/17/93	0	1	
GRCA0160	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/17/93-05/17/93	0	1	
GRCA0164	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/11/93-06/11/93	0	1	
GRCA0001	No	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	12/07/64-09/30/68	3	27	
GRCA0001	No	00636	NITROGEN, AMMONIA&ORG., DISS. 1 DET (MG/L AS N)	01/04/65-09/30/68	3	10	
GRCA0011	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/18/79-06/20/79	0	3	
GRCA0039	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/10/92-06/28/93	0	2	
GRCA0042	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/20/94-03/20/94	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0045	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/23/94-04/23/94	0	1	
GRCA0046	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/24/94-04/24/94	0	1	
GRCA0050	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/17/93-11/17/93	0	1	
GRCA0052	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/11/92-06/30/93	1	3	
GRCA0054	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/26/93-11/26/93	0	1	
GRCA0056	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/22/94-05/22/94	0	1	
GRCA0063	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/29/94-03/29/94	0	1	
GRCA0064	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/29/94-03/29/94	0	1	
GRCA0067	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/28/93-06/22/94	0	4	
GRCA0069	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/28/93-05/26/94	0	3	
GRCA0070	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/30/94-03/30/94	0	1	
GRCA0072	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/30/94-03/30/94	0	1	
GRCA0074	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/31/94-03/31/94	0	1	
GRCA0076	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/15/92-07/01/93	0	2	
GRCA0080	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/31/94-06/09/94	0	2	
GRCA0084	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/09/94-06/09/94	0	1	
GRCA0085	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/13/94-03/13/94	0	1	
GRCA0093	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/18/92-07/03/93	0	2	
GRCA0102	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/20/94-06/20/94	0	1	
GRCA0103	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/20/92-07/03/93	0	2	
GRCA0130	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/19/92-10/22/92	0	2	
GRCA0136	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/24/92-10/24/92	0	1	
GRCA0144	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/24/92-10/24/92	0	1	
GRCA0001	No	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	10/15/61-05/10/65	3	113	
GRCA0006	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/04/76-08/04/76	0	1	
GRCA0011	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/09/70-03/02/83	12	61	
GRCA0012	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/02/78-03/21/79	1	2	
GRCA0019	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/06/76-08/06/76	0	1	
GRCA0021	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/04/76-08/04/76	0	1	
GRCA0031	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/20/81-11/20/81	0	1	
GRCA0038	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	11	62	
GRCA0060	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/22/71-09/02/81	10	20	
GRCA0062	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/04/81-09/04/81	0	1	
GRCA0081	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/19/81-11/19/81	0	1	
GRCA0094	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/19/81-11/19/81	0	1	
GRCA0100	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/18/81-11/18/81	0	1	
GRCA0129	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/09/76-08/09/76	0	1	
GRCA0135	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/10/76-08/10/76	0	1	
GRCA0001	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/04/65-09/30/68	3	17	
GRCA0002	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/89-10/10/89	0	12	
GRCA0003	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/01/93-09/22/94	0	7	
GRCA0004	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/78-11/12/86	8	40	
GRCA0011	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	21	168	
GRCA0012	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/77-09/17/79	2	5	
GRCA0013	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/06/92-10/04/94	2	6	
GRCA0017	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/14/77-09/18/79	2	4	
GRCA0020	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/18/79-07/18/79	0	1	
GRCA0022	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/93-10/08/94	1	4	
GRCA0028	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/01/93-10/07/94	1	2	
GRCA0030	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/94-05/04/94	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0052	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/93-10/10/94	1	4	
GRCA0055	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/23/80-10/11/89	9	17	
GRCA0058	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/14/92-10/11/94	2	8	
GRCA0080	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/14/92-06/14/92	0	1	
GRCA0087	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/18/92-05/09/94	1	4	
GRCA0111	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/23/94-08/23/94	0	1	
GRCA0113	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/24/94-08/24/94	0	1	
GRCA0119	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/28/92-10/17/94	2	9	
GRCA0123	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/19/92-07/09/94	2	7	
GRCA0124	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/89-10/11/89	0	5	
GRCA0130	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/05/93-10/18/94	1	4	
GRCA0131	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/10/93-10/10/93	0	1	
GRCA0134	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/20/93-05/20/93	0	1	
GRCA0136	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/06/93-10/20/94	1	5	
GRCA0137	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/14/93-10/14/93	0	1	
GRCA0138	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/19/93-05/19/93	0	1	
GRCA0146	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/92-10/19/94	2	8	
GRCA0147	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/89-10/12/89	0	13	
GRCA0150	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/93-05/15/93	0	1	
GRCA0151	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/93-05/15/93	0	1	
GRCA0152	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/93-05/15/93	0	1	
GRCA0155	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/93-05/15/93	0	1	
GRCA0158	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/17/93-05/17/93	0	1	
GRCA0159	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/26/75-05/23/76	0	7	
GRCA0160	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/17/93-05/17/93	0	1	
GRCA0164	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/11/93-06/11/93	0	1	
GRCA0165	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/24/75-11/21/75	0	10	
GRCA0167	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/27/75-05/23/76	0	7	
GRCA0001	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/07/64-09/30/68	3	23	
GRCA0002	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/05/89-10/10/89	0	12	
GRCA0011	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/07/77-09/21/95	18	130	
GRCA0020	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	01/23/80-10/11/89	9	16	
GRCA0111	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/23/94-08/23/94	0	1	
GRCA0113	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/24/94-08/24/94	0	1	
GRCA0124	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/07/89-10/11/89	0	5	
GRCA0131	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/10/93-10/10/93	0	1	
GRCA0134	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/20/93-05/20/93	0	1	
GRCA0137	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/14/93-10/14/93	0	1	
GRCA0138	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/19/93-05/19/93	0	1	
GRCA0147	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/08/89-10/12/89	0	13	
GRCA0150	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/93-05/15/93	0	1	
GRCA0151	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/93-05/15/93	0	1	
GRCA0152	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/93-05/15/93	0	1	
GRCA0155	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/93-05/15/93	0	1	
GRCA0158	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/17/93-05/17/93	0	1	
GRCA0160	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/17/93-05/17/93	0	1	
GRCA0164	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/11/93-06/11/93	0	1	
GRCA0002	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/05/89-10/10/89	0	12	
GRCA0004	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/78-11/12/86	8	30	
GRCA0006	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/04/76-08/04/76	0	1	
GRCA0011	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/23/71-09/21/95	23	140	T
GRCA0012	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/02/78-03/21/79	1	2	
GRCA0019	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/06/76-08/06/76	0	1	
GRCA0021	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/04/76-08/04/76	0	1	
GRCA0031	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/20/81-11/20/81	0	1	
GRCA0038	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/02/81-09/02/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0047	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	17	94	
GRCA0060	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/05/72-09/02/81	8	19	
GRCA0062	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/04/81-09/04/81	0	1	
GRCA0081	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/19/81-11/19/81	0	1	
GRCA0094	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/19/81-11/19/81	0	1	
GRCA0100	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/18/81-11/18/81	0	1	
GRCA0111	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/23/94-08/23/94	0	1	
GRCA0113	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/24/94-08/24/94	0	1	
GRCA0124	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/07/89-10/11/89	0	5	
GRCA0129	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/09/76-08/09/76	0	1	
GRCA0131	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/10/93-10/10/93	0	1	
GRCA0134	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/20/93-05/20/93	0	1	
GRCA0135	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/10/76-08/10/76	0	1	
GRCA0137	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/14/93-10/14/93	0	1	
GRCA0138	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/19/93-05/19/93	0	1	
GRCA0147	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/08/89-10/12/89	0	13	
GRCA0150	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/93-05/15/93	0	1	
GRCA0151	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/93-05/15/93	0	1	
GRCA0152	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/93-05/15/93	0	1	
GRCA0155	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/93-05/15/93	0	1	
GRCA0158	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/17/93-05/17/93	0	1	
GRCA0159	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/26/75-05/23/76	0	7	
GRCA0160	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/17/93-05/17/93	0	1	
GRCA0164	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/93-06/11/93	0	1	
GRCA0165	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/24/75-11/21/75	0	10	
GRCA0167	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/27/75-05/23/76	0	7	
GRCA0001	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/04/65-09/30/68	2	19	
GRCA0002	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/05/89-10/10/89	0	12	
GRCA0004	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/10/78-11/12/86	8	36	
GRCA0011	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/28/74-10/10/89	15	38	
GRCA0012	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/15/77-03/21/79	1	4	
GRCA0017	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/13/78-09/07/78	0	2	
GRCA0055	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/23/80-10/11/89	9	15	
GRCA0111	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/23/94-08/23/94	0	1	
GRCA0113	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/24/94-08/24/94	0	1	
GRCA0124	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/08/89-10/11/89	0	4	
GRCA0147	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/08/89-10/12/89	0	13	
GRCA0001	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/05/65-09/30/68	3	20	
GRCA0011	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/03/78-09/21/95	17	11	
GRCA0020	No	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/18/79-07/18/79	0	1	
GRCA0011	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/03/78-09/21/95	17	10	
GRCA0020	No	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	07/18/79-07/18/79	0	1	
GRCA0017	No	00746	SULFIDE, DISSOLVED (MG/L AS S)	01/11/78-01/11/78	0	1	
GRCA0001	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/60-09/30/68	8	315	
GRCA0003	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/01/93-09/22/94	0	7	
GRCA0004	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/10/78-11/12/86	8	41	
GRCA0006	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/04/76-08/04/76	0	1	
GRCA0011	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	57	933	T,S
GRCA0012	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	32	93	
GRCA0015	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/30/52-04/30/52	0	1	
GRCA0016	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/30/52-04/30/52	0	1	
GRCA0017	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/14/77-11/15/79	2	24	
GRCA0019	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/06/76-08/06/76	0	1	
GRCA0020	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/17/66-07/18/79	13	5	
GRCA0021	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/04/76-08/04/76	0	1	
GRCA0025	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/92-06/10/92	0	1	
GRCA0026	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/15/60-06/15/60	0	1	
GRCA0028	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/09/92-10/09/92	0	1	
GRCA0031	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/20/81-11/20/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0032	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/20/65-06/20/65	0	1	
GRCA0033	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/09/92-06/09/92	0	1	
GRCA0038	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/20/81-11/20/81	0	1	
GRCA0039	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/92-10/10/92	0	1	
GRCA0040	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/02/81-09/02/81	0	1	
GRCA0051	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/11/61-11/11/61	0	1	
GRCA0052	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/14/92-10/14/92	0	1	
GRCA0053	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	60	1475	S
GRCA0060	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/22/71-09/02/81	10	25	
GRCA0062	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/04/81-09/04/81	0	1	
GRCA0076	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/15/92-10/15/92	0	1	
GRCA0081	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/19/81-11/19/81	0	1	
GRCA0090	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/92-10/19/92	0	1	
GRCA0091	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/27/51-06/27/51	0	1	
GRCA0093	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/92-10/18/92	0	1	
GRCA0094	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/19/81-11/19/81	0	1	
GRCA0096	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/92-10/19/92	0	1	
GRCA0097	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/27/51-06/27/51	0	1	
GRCA0100	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/18/81-11/18/81	0	1	
GRCA0103	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/92-10/20/92	0	1	
GRCA0104	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/18/81-11/18/81	0	1	
GRCA0112	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/28/82-03/28/82	0	1	
GRCA0129	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/76-08/09/76	0	1	
GRCA0130	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/22/92-10/22/92	0	1	
GRCA0135	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/07/51-08/10/76	25	2	
GRCA0136	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/24/92-10/24/92	0	1	
GRCA0144	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/24/92-10/24/92	0	1	
GRCA0149	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/25/92-10/25/92	0	1	
GRCA0006	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/04/76-08/04/76	0	1	
GRCA0011	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	57	919	S
GRCA0012	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	32	92	
GRCA0015	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/30/52-04/30/52	0	1	
GRCA0016	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/30/52-04/30/52	0	1	
GRCA0017	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/14/77-11/15/79	2	24	
GRCA0019	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/06/76-08/06/76	0	1	
GRCA0020	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/17/66-07/18/79	13	5	
GRCA0021	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/04/76-08/04/76	0	1	
GRCA0026	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/15/60-06/15/60	0	1	
GRCA0032	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/20/65-06/20/65	0	1	
GRCA0051	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/11/61-11/11/61	0	1	
GRCA0055	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	57	1474	S
GRCA0060	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/22/71-03/08/74	3	24	
GRCA0091	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/27/51-06/27/51	0	1	
GRCA0097	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/27/51-06/27/51	0	1	
GRCA0129	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/76-08/09/76	0	1	
GRCA0135	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/07/51-08/10/76	25	2	
GRCA0002	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/05/89-10/10/89	0	6	
GRCA0003	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/01/93-09/22/94	0	7	
GRCA0004	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/10/78-11/12/86	8	41	
GRCA0006	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/04/76-08/04/76	0	1	
GRCA0011	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	69	1022	T,A,S
GRCA0012	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	32	93	
GRCA0015	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/30/52-04/30/52	0	1	
GRCA0016	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/30/52-04/30/52	0	1	
GRCA0017	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/14/77-11/15/79	2	24	
GRCA0019	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/06/76-08/06/76	0	1	
GRCA0020	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/17/66-07/18/79	13	5	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0021	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/04/76-08/04/76	0	1	
GRCA0026	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/15/60-06/15/60	0	1	
GRCA0031	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/20/81-11/20/81	0	1	
GRCA0032	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/20/65-06/20/65	0	1	
GRCA0038	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	64	1497	T,S
GRCA0060	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/22/71-09/02/81	10	25	
GRCA0062	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/04/81-09/04/81	0	1	
GRCA0081	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/19/81-11/19/81	0	1	
GRCA0091	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/27/51-06/27/51	0	1	
GRCA0094	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/19/81-11/19/81	0	1	
GRCA0097	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/27/51-06/27/51	0	1	
GRCA0100	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/18/81-11/18/81	0	1	
GRCA0111	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/94-08/23/94	0	1	
GRCA0112	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/28/82-03/28/82	0	1	
GRCA0113	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/24/94-08/24/94	0	1	
GRCA0124	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/07/89-10/11/89	0	5	
GRCA0129	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/76-08/09/76	0	1	
GRCA0131	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/23/92-10/10/93	1	2	
GRCA0133	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/23/92-01/23/92	0	1	
GRCA0134	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/20/93-05/20/93	0	1	
GRCA0135	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/07/51-08/10/76	25	2	
GRCA0137	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/14/93-10/14/93	0	1	
GRCA0138	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/19/93-05/19/93	0	1	
GRCA0147	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/08/89-10/12/89	0	6	
GRCA0150	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/93-05/15/93	0	1	
GRCA0151	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/93-05/15/93	0	1	
GRCA0152	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/93-05/15/93	0	1	
GRCA0155	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/93-05/15/93	0	1	
GRCA0158	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/17/93-05/17/93	0	1	
GRCA0160	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/17/93-05/17/93	0	1	
GRCA0164	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/11/93-06/11/93	0	1	
GRCA0166	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	10	109	A
GRCA0013	No	00916	CALCIUM, TOTAL (MG/L AS CA)	06/06/92-10/04/94	2	6	
GRCA0022	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/09/92-10/07/94	1	2	
GRCA0030	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/10/92-05/04/94	1	2	
GRCA0052	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/14/92-10/10/94	1	5	
GRCA0058	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/15/92-10/11/94	1	2	
GRCA0078	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/14/92-10/11/94	2	8	
GRCA0080	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/14/92-06/14/92	0	1	
GRCA0087	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/15/92-10/13/94	2	8	
GRCA0090	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/19/92-10/19/92	0	1	
GRCA0093	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/18/92-10/14/94	1	4	
GRCA0095	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/19/92-10/16/94	1	2	
GRCA0098	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/20/92-10/15/94	1	5	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0106	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/18/92-05/09/94	1	4	
GRCA0119	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	05/28/92-10/17/94	2	9	
GRCA0123	No	00916	CALCIUM, TOTAL (MG/L AS CA)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/22/92-10/18/94	1	5	
GRCA0136	No	00916	CALCIUM, TOTAL (MG/L AS CA)	10/24/92-10/20/94	1	6	
GRCA0144	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/24/92-10/24/92	0	1	
GRCA0146	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/20/92-10/19/94	2	8	
GRCA0149	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	10/25/92-10/25/92	0	1	
GRCA0002	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/05/89-10/10/89	0	6	
GRCA0003	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/01/93-09/22/94	0	7	
GRCA0004	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/12/78-11/12/86	8	40	
GRCA0006	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/04/76-08/04/76	0	1	
GRCA0011	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	69	1022	T,A,S
GRCA0012	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	32	93	
GRCA0015	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/30/52-04/30/52	0	1	
GRCA0016	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/30/52-04/30/52	0	1	
GRCA0017	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/14/77-11/15/79	2	24	
GRCA0019	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/06/76-08/06/76	0	1	
GRCA0020	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/17/66-07/18/79	13	5	
GRCA0021	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/04/76-08/04/76	0	1	
GRCA0026	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/15/60-06/15/60	0	1	
GRCA0031	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/81-11/20/81	0	1	
GRCA0032	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/20/65-06/20/65	0	1	
GRCA0038	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	64	1498	T,S
GRCA0060	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/22/71-09/02/81	10	25	
GRCA0062	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/04/81-09/04/81	0	1	
GRCA0081	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/19/81-11/19/81	0	1	
GRCA0091	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/27/51-06/27/51	0	1	
GRCA0094	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/19/81-11/19/81	0	1	
GRCA0097	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/27/51-06/27/51	0	1	
GRCA0100	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/18/81-11/18/81	0	1	
GRCA0111	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/94-08/23/94	0	1	
GRCA0112	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/28/82-03/28/82	0	1	
GRCA0113	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/24/94-08/24/94	0	1	
GRCA0124	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/89-10/11/89	0	5	
GRCA0129	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/76-08/09/76	0	1	
GRCA0131	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/23/92-10/10/93	1	2	
GRCA0133	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/23/92-01/23/92	0	1	
GRCA0134	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/20/93-05/20/93	0	1	
GRCA0135	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/07/51-08/10/76	25	2	
GRCA0137	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/14/93-10/14/93	0	1	
GRCA0138	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/19/93-05/19/93	0	1	
GRCA0147	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/08/89-10/12/89	0	6	
GRCA0150	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/93-05/15/93	0	1	
GRCA0151	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/93-05/15/93	0	1	
GRCA0152	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/93-05/15/93	0	1	
GRCA0155	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/93-05/15/93	0	1	
GRCA0158	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/17/93-05/17/93	0	1	
GRCA0160	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/17/93-05/17/93	0	1	
GRCA0164	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/11/93-06/11/93	0	1	
GRCA0166	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	10	109	A
GRCA0013	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/06/92-10/04/94	2	6	
GRCA0022	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/10/92-10/09/94	2	8	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0025	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/09/92-10/07/94	1	2	
GRCA0030	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/10/92-05/04/94	1	2	
GRCA0052	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/14/92-10/10/94	1	5	
GRCA0058	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/15/92-10/11/94	1	2	
GRCA0078	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/14/92-10/11/94	2	8	
GRCA0080	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/14/92-06/14/92	0	1	
GRCA0087	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/15/92-10/13/94	2	8	
GRCA0090	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/19/92-10/19/92	0	1	
GRCA0093	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/18/92-10/14/94	1	4	
GRCA0095	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/19/92-10/16/94	1	2	
GRCA0098	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/20/92-10/15/94	1	5	
GRCA0106	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/18/92-05/09/94	1	4	
GRCA0119	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/28/92-10/17/94	2	9	
GRCA0123	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/22/92-10/18/94	1	5	
GRCA0136	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/24/92-10/20/94	1	6	
GRCA0144	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/24/92-10/24/92	0	1	
GRCA0146	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/20/92-10/19/94	2	8	
GRCA0149	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/25/92-10/25/92	0	1	
GRCA0013	No	00929	SODIUM, TOTAL (MG/L AS NA)	06/06/92-10/04/94	2	6	
GRCA0022	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/07/93-10/10/94	1	4	
GRCA0058	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/14/92-10/11/94	2	8	
GRCA0080	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/14/92-06/14/92	0	1	
GRCA0087	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/18/92-05/09/94	1	4	
GRCA0119	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	05/28/92-10/17/94	2	9	
GRCA0123	No	00929	SODIUM, TOTAL (MG/L AS NA)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	07/05/93-10/18/94	1	4	
GRCA0136	No	00929	SODIUM, TOTAL (MG/L AS NA)	07/06/93-10/20/94	1	5	
GRCA0146	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/20/92-10/19/94	2	8	
GRCA0001	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/62-04/01/68	5	10	
GRCA0002	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/05/89-10/10/89	0	6	
GRCA0003	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/01/93-09/22/94	0	7	
GRCA0004	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/10/78-11/12/86	8	41	
GRCA0006	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/04/76-08/04/76	0	1	
GRCA0011	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	69	949	T,A,S
GRCA0012	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/21/69-11/15/79	10	35	
GRCA0017	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/14/77-11/15/79	2	24	
GRCA0019	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/06/76-08/06/76	0	1	
GRCA0020	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/18/79-07/18/79	0	1	
GRCA0021	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/04/76-08/04/76	0	1	
GRCA0026	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/15/60-06/15/60	0	1	
GRCA0031	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/81-11/20/81	0	1	
GRCA0032	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/20/65-06/20/65	0	1	
GRCA0038	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/81-11/20/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0040	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	63	1435	T,S
GRCA0060	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/22/71-09/02/81	10	25	
GRCA0062	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/04/81-09/04/81	0	1	
GRCA0081	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/19/81-11/19/81	0	1	
GRCA0094	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/19/81-11/19/81	0	1	
GRCA0100	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/18/81-11/18/81	0	1	
GRCA0111	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/23/94-08/23/94	0	1	
GRCA0112	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/28/82-03/28/82	0	1	
GRCA0113	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/24/94-08/24/94	0	1	
GRCA0124	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/07/89-10/11/89	0	5	
GRCA0129	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/76-08/09/76	0	1	
GRCA0131	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/23/92-10/10/93	1	2	
GRCA0133	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/23/92-01/23/92	0	1	
GRCA0134	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/93-05/20/93	0	1	
GRCA0135	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/10/76-08/10/76	0	1	
GRCA0137	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/14/93-10/14/93	0	1	
GRCA0138	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/19/93-05/19/93	0	1	
GRCA0147	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/08/89-10/12/89	0	6	
GRCA0150	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/93-05/15/93	0	1	
GRCA0151	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/93-05/15/93	0	1	
GRCA0152	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/93-05/15/93	0	1	
GRCA0155	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/93-05/15/93	0	1	
GRCA0158	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/17/93-05/17/93	0	1	
GRCA0160	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/17/93-05/17/93	0	1	
GRCA0164	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/11/93-06/11/93	0	1	
GRCA0166	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/01/43-07/01/52	8	46	
GRCA0006	No	00931	SODIUM ADSORPTION RATIO	08/04/76-08/04/76	0	1	
GRCA0011	No	00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	57	749	T,S
GRCA0012	No	00931	SODIUM ADSORPTION RATIO	10/21/69-11/15/79	10	35	
GRCA0015	No	00931	SODIUM ADSORPTION RATIO	04/30/52-04/30/52	0	1	
GRCA0016	No	00931	SODIUM ADSORPTION RATIO	04/30/52-04/30/52	0	1	
GRCA0017	No	00931	SODIUM ADSORPTION RATIO	09/14/77-11/15/79	2	24	
GRCA0019	No	00931	SODIUM ADSORPTION RATIO	08/06/76-08/06/76	0	1	
GRCA0020	No	00931	SODIUM ADSORPTION RATIO	07/18/79-07/18/79	0	1	
GRCA0021	No	00931	SODIUM ADSORPTION RATIO	08/04/76-08/04/76	0	1	
GRCA0026	Yes	00931	SODIUM ADSORPTION RATIO	06/15/60-06/15/60	0	1	
GRCA0031	Yes	00931	SODIUM ADSORPTION RATIO	11/20/81-11/20/81	0	1	
GRCA0032	Yes	00931	SODIUM ADSORPTION RATIO	06/20/65-06/20/65	0	1	
GRCA0038	Yes	00931	SODIUM ADSORPTION RATIO	11/20/81-11/20/81	0	1	
GRCA0040	Yes	00931	SODIUM ADSORPTION RATIO	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00931	SODIUM ADSORPTION RATIO	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00931	SODIUM ADSORPTION RATIO	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00931	SODIUM ADSORPTION RATIO	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00931	SODIUM ADSORPTION RATIO	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00931	SODIUM ADSORPTION RATIO	09/02/81-09/02/81	0	1	
GRCA0053	Yes	00931	SODIUM ADSORPTION RATIO	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	60	1451	S
GRCA0060	Yes	00931	SODIUM ADSORPTION RATIO	01/22/71-09/02/81	10	25	
GRCA0062	Yes	00931	SODIUM ADSORPTION RATIO	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00931	SODIUM ADSORPTION RATIO	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00931	SODIUM ADSORPTION RATIO	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00931	SODIUM ADSORPTION RATIO	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00931	SODIUM ADSORPTION RATIO	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00931	SODIUM ADSORPTION RATIO	09/04/81-09/04/81	0	1	
GRCA0081	Yes	00931	SODIUM ADSORPTION RATIO	09/04/81-09/04/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0083	Yes	00931	SODIUM ADSORPTION RATIO	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00931	SODIUM ADSORPTION RATIO	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00931	SODIUM ADSORPTION RATIO	11/19/81-11/19/81	0	1	
GRCA0091	Yes	00931	SODIUM ADSORPTION RATIO	06/27/51-06/27/51	0	1	
GRCA0094	Yes	00931	SODIUM ADSORPTION RATIO	11/19/81-11/19/81	0	1	
GRCA0097	Yes	00931	SODIUM ADSORPTION RATIO	06/27/51-06/27/51	0	1	
GRCA0100	Yes	00931	SODIUM ADSORPTION RATIO	11/18/81-11/18/81	0	1	
GRCA0104	Yes	00931	SODIUM ADSORPTION RATIO	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00931	SODIUM ADSORPTION RATIO	11/18/81-11/18/81	0	1	
GRCA0112	No	00931	SODIUM ADSORPTION RATIO	03/28/82-03/28/82	0	1	
GRCA0129	Yes	00931	SODIUM ADSORPTION RATIO	08/09/76-08/09/76	0	1	
GRCA0135	No	00931	SODIUM ADSORPTION RATIO	08/10/76-08/10/76	0	1	
GRCA0006	No	00932	SODIUM, PERCENT	08/04/76-08/04/76	0	1	
GRCA0011	No	00932	SODIUM, PERCENT	01/11/26-03/02/83	57	751	T,S
GRCA0012	No	00932	SODIUM, PERCENT	10/01/47-11/15/79	32	92	
GRCA0015	No	00932	SODIUM, PERCENT	04/30/52-04/30/52	0	1	
GRCA0016	No	00932	SODIUM, PERCENT	04/30/52-04/30/52	0	1	
GRCA0017	No	00932	SODIUM, PERCENT	09/14/77-11/15/79	2	24	
GRCA0019	No	00932	SODIUM, PERCENT	08/06/76-08/06/76	0	1	
GRCA0020	No	00932	SODIUM, PERCENT	07/18/79-07/18/79	0	1	
GRCA0021	No	00932	SODIUM, PERCENT	08/04/76-08/04/76	0	1	
GRCA0026	Yes	00932	SODIUM, PERCENT	06/15/60-06/15/60	0	1	
GRCA0031	Yes	00932	SODIUM, PERCENT	11/20/81-11/20/81	0	1	
GRCA0032	Yes	00932	SODIUM, PERCENT	06/20/65-06/20/65	0	1	
GRCA0038	Yes	00932	SODIUM, PERCENT	11/20/81-11/20/81	0	1	
GRCA0040	Yes	00932	SODIUM, PERCENT	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00932	SODIUM, PERCENT	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00932	SODIUM, PERCENT	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00932	SODIUM, PERCENT	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00932	SODIUM, PERCENT	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00932	SODIUM, PERCENT	09/02/81-09/02/81	0	1	
GRCA0053	Yes	00932	SODIUM, PERCENT	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00932	SODIUM, PERCENT	10/16/25-02/14/83	57	1254	S
GRCA0060	Yes	00932	SODIUM, PERCENT	01/22/71-09/02/81	10	25	
GRCA0062	Yes	00932	SODIUM, PERCENT	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00932	SODIUM, PERCENT	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00932	SODIUM, PERCENT	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00932	SODIUM, PERCENT	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00932	SODIUM, PERCENT	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00932	SODIUM, PERCENT	09/04/81-09/04/81	0	1	
GRCA0081	Yes	00932	SODIUM, PERCENT	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00932	SODIUM, PERCENT	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00932	SODIUM, PERCENT	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00932	SODIUM, PERCENT	11/19/81-11/19/81	0	1	
GRCA0094	Yes	00932	SODIUM, PERCENT	11/19/81-11/19/81	0	1	
GRCA0100	Yes	00932	SODIUM, PERCENT	11/18/81-11/18/81	0	1	
GRCA0104	Yes	00932	SODIUM, PERCENT	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00932	SODIUM, PERCENT	11/18/81-11/18/81	0	1	
GRCA0112	No	00932	SODIUM, PERCENT	03/28/82-03/28/82	0	1	
GRCA0129	Yes	00932	SODIUM, PERCENT	08/09/76-08/09/76	0	1	
GRCA0135	No	00932	SODIUM, PERCENT	08/07/51-08/10/76	25	2	
GRCA0011	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	02/25/26-02/14/80	53	80	
GRCA0012	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/01/47-11/15/79	32	64	
GRCA0015	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	04/30/52-04/30/52	0	1	
GRCA0016	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	04/30/52-04/30/52	0	1	
GRCA0017	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	04/19/79-11/15/79	0	7	
GRCA0020	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	05/17/66-07/18/79	13	5	
GRCA0055	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/23/25-01/23/80	54	107	
GRCA0135	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/07/51-08/07/51	0	1	
GRCA0001	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/62-04/01/68	5	10	
GRCA0002	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/05/89-10/10/89	0	6	
GRCA0003	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/01/93-09/22/94	0	7	
GRCA0004	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/10/78-11/12/86	8	40	
GRCA0006	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/04/76-08/04/76	0	1	
GRCA0011	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	69	766	T,A,S
GRCA0012	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/21/69-11/15/79	10	36	
GRCA0017	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/14/77-11/15/79	2	24	
GRCA0019	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/06/76-08/06/76	0	1	
GRCA0020	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/18/79-07/18/79	0	1	
GRCA0021	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/04/76-08/04/76	0	1	
GRCA0026	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/15/60-06/15/60	0	1	
GRCA0031	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/81-11/20/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0032	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/20/65-06/20/65	0	1	
GRCA0038	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	63	1221	S
GRCA0060	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/22/71-09/02/81	10	25	
GRCA0062	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/04/81-09/04/81	0	1	
GRCA0081	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/19/81-11/19/81	0	1	
GRCA0094	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/19/81-11/19/81	0	1	
GRCA0100	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/18/81-11/18/81	0	1	
GRCA0111	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/23/94-08/23/94	0	1	
GRCA0112	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/28/82-03/28/82	0	1	
GRCA0113	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/24/94-08/24/94	0	1	
GRCA0124	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/07/89-10/11/89	0	5	
GRCA0129	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/76-08/09/76	0	1	
GRCA0131	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/23/92-10/10/93	1	2	
GRCA0133	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/23/92-01/23/92	0	1	
GRCA0134	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/93-05/20/93	0	1	
GRCA0135	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/10/76-08/10/76	0	1	
GRCA0137	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/14/93-10/14/93	0	1	
GRCA0138	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/19/93-05/19/93	0	1	
GRCA0147	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/89-10/12/89	0	6	
GRCA0150	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/93-05/15/93	0	1	
GRCA0151	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/93-05/15/93	0	1	
GRCA0152	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/93-05/15/93	0	1	
GRCA0155	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/93-05/15/93	0	1	
GRCA0158	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/17/93-05/17/93	0	1	
GRCA0160	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/17/93-05/17/93	0	1	
GRCA0164	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/11/93-06/11/93	0	1	
GRCA0166	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/50-07/01/52	1	21	
GRCA0013	No	00937	POTASSIUM, TOTAL MG/L AS K)	06/06/92-10/04/94	2	6	
GRCA0022	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/07/93-10/10/94	1	4	
GRCA0058	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	06/14/92-10/11/94	2	8	
GRCA0080	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	06/14/92-06/14/92	0	1	
GRCA0087	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	06/18/92-05/09/94	1	4	
GRCA0119	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	05/28/92-10/17/94	2	9	
GRCA0123	No	00937	POTASSIUM, TOTAL MG/L AS K)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	07/05/93-10/18/94	1	4	
GRCA0136	No	00937	POTASSIUM, TOTAL MG/L AS K)	07/06/93-10/20/94	1	5	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0146	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	06/20/92-10/19/94	2	8	
GRCA0001	No	00940	CHLORIDE,TOTAL IN WATER MG/L	11/23/59-09/30/68	8	267	
GRCA0002	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/05/89-10/10/89	0	6	
GRCA0004	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/10/78-11/12/86	8	41	
GRCA0006	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/04/76-08/04/76	0	1	
GRCA0011	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	69	876	T,A,S
GRCA0012	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	32	93	
GRCA0013	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/06/92-10/04/94	2	6	
GRCA0015	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/30/52-04/30/52	0	1	
GRCA0016	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/30/52-04/30/52	0	1	
GRCA0017	No	00940	CHLORIDE,TOTAL IN WATER MG/L	09/14/77-11/15/79	2	24	
GRCA0019	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/06/76-08/06/76	0	1	
GRCA0020	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/17/66-07/18/79	13	5	
GRCA0021	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/04/76-08/04/76	0	1	
GRCA0022	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/10/92-10/09/94	2	7	
GRCA0026	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/15/60-06/15/60	0	1	
GRCA0027	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/05/94-10/08/94	0	3	
GRCA0028	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/09/92-10/07/94	1	2	
GRCA0030	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/24/92-07/01/94	2	7	
GRCA0031	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/20/81-11/20/81	0	1	
GRCA0032	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/20/65-06/20/65	0	1	
GRCA0033	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/09/92-10/08/94	2	8	
GRCA0038	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/20/81-11/20/81	0	1	
GRCA0039	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/92-05/04/94	1	2	
GRCA0040	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/02/81-09/02/81	0	1	
GRCA0051	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/11/61-11/11/61	0	1	
GRCA0052	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/93-10/10/94	1	4	
GRCA0053	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	64	1330	T,S
GRCA0058	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/14/93-07/03/94	1	5	
GRCA0059	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/12/92-10/14/92	0	2	
GRCA0060	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	19	123	
GRCA0062	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/04/81-09/04/81	0	1	
GRCA0076	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/15/92-10/11/94	1	2	
GRCA0078	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/14/92-10/11/94	2	8	
GRCA0080	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/14/92-06/14/92	0	1	
GRCA0081	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/19/81-11/19/81	0	1	
GRCA0087	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/14/92-10/12/94	2	8	
GRCA0088	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/15/92-10/13/94	2	8	
GRCA0089	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/19/81-11/19/81	0	1	
GRCA0090	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/92-10/19/92	0	1	
GRCA0091	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/27/51-06/27/51	0	1	
GRCA0093	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/18/92-10/14/94	1	4	
GRCA0094	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/19/81-11/19/81	0	1	
GRCA0095	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/15/92-07/05/94	2	7	
GRCA0096	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/92-10/16/94	1	2	
GRCA0097	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/27/51-06/27/51	0	1	
GRCA0098	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/27/92-10/15/94	2	9	
GRCA0100	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/18/81-11/18/81	0	1	
GRCA0103	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/20/92-10/15/94	1	5	
GRCA0104	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/18/81-11/18/81	0	1	
GRCA0106	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/27/92-10/17/94	2	9	
GRCA0110	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/18/92-05/09/94	1	4	
GRCA0111	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/94-08/23/94	0	1	
GRCA0112	No	00940	CHLORIDE,TOTAL IN WATER MG/L	03/28/82-03/28/82	0	1	
GRCA0113	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/24/94-08/24/94	0	1	
GRCA0119	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/28/92-10/17/94	2	9	
GRCA0123	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/92-07/09/94	2	7	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0124	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/89-10/11/89	0	5	
GRCA0129	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/76-08/09/76	0	1	
GRCA0130	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/22/92-10/18/94	1	5	
GRCA0131	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/23/92-10/10/93	1	2	
GRCA0133	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/23/92-01/23/92	0	1	
GRCA0134	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/20/93-05/20/93	0	1	
GRCA0135	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/07/51-08/10/76	25	2	
GRCA0136	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/24/92-10/20/94	1	6	
GRCA0137	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/14/93-10/14/93	0	1	
GRCA0138	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/19/93-05/19/93	0	1	
GRCA0144	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/24/92-10/24/92	0	1	
GRCA0146	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/20/92-10/19/94	2	8	
GRCA0147	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/08/89-10/12/89	0	6	
GRCA0149	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/25/92-10/25/92	0	1	
GRCA0150	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/93-05/15/93	0	1	
GRCA0151	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/93-05/15/93	0	1	
GRCA0152	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/93-05/15/93	0	1	
GRCA0155	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/93-05/15/93	0	1	
GRCA0158	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/17/93-05/17/93	0	1	
GRCA0160	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/17/93-05/17/93	0	1	
GRCA0164	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/11/93-06/11/93	0	1	
GRCA0166	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	10	110	A
GRCA0003	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	12/01/93-09/22/94	0	7	
GRCA0004	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	01/17/79-12/05/84	5	20	
GRCA0001	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/61-09/30/68	6	145	
GRCA0002	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/05/89-10/10/89	0	6	
GRCA0006	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/04/76-08/04/76	0	1	
GRCA0011	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	69	875	T,A,S
GRCA0012	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	32	93	
GRCA0013	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/06/92-10/04/94	2	6	
GRCA0015	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/30/52-04/30/52	0	1	
GRCA0016	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/30/52-04/30/52	0	1	
GRCA0017	No	00945	SULFATE, TOTAL (MG/L AS SO4)	09/14/77-11/15/79	2	23	
GRCA0019	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/06/76-08/06/76	0	1	
GRCA0020	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/17/66-07/18/79	13	5	
GRCA0021	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/04/76-08/04/76	0	1	
GRCA0022	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/10/92-10/09/94	2	7	
GRCA0026	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/15/60-06/15/60	0	1	
GRCA0027	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/09/92-10/07/94	1	2	
GRCA0030	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/24/92-07/01/94	2	7	
GRCA0031	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/20/81-11/20/81	0	1	
GRCA0032	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/20/65-06/20/65	0	1	
GRCA0033	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/09/92-10/08/94	2	8	
GRCA0038	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/20/81-11/20/81	0	1	
GRCA0039	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/10/92-05/04/94	1	3	
GRCA0040	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/01/81-09/01/81	0	1	
GRCA0042	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/20/94-03/20/94	0	1	
GRCA0043	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/02/81-09/02/81	0	1	
GRCA0045	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/23/94-04/23/94	0	1	
GRCA0046	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/24/94-04/24/94	0	1	
GRCA0047	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/02/81-09/02/81	0	1	
GRCA0048	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	04/24/94-04/24/94	0	1	
GRCA0049	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/02/81-09/02/81	0	1	
GRCA0050	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/17/93-11/17/93	0	1	
GRCA0052	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/14/92-10/10/94	1	6	
GRCA0053	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/02/81-09/02/81	0	1	
GRCA0054	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/26/93-11/26/93	0	1	
GRCA0055	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	64	1329	T,S
GRCA0056	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/22/94-05/22/94	0	1	
GRCA0058	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/12/92-10/14/92	0	2	
GRCA0060	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	01/22/71-09/02/81	10	25	
GRCA0062	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/01/81-09/01/81	0	1	
GRCA0063	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	02/27/94-03/29/94	0	2	
GRCA0064	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	02/27/94-03/29/94	0	2	
GRCA0065	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/01/81-09/01/81	0	1	
GRCA0067	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/28/93-06/22/94	0	4	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0068	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/01/81-09/01/81	0	1	
GRCA0069	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/28/93-05/26/94	0	3	
GRCA0070	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/94-03/30/94	0	1	
GRCA0071	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/04/81-09/04/81	0	1	
GRCA0072	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/94-03/30/94	0	1	
GRCA0074	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/31/94-03/31/94	0	1	
GRCA0075	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/04/81-09/04/81	0	1	
GRCA0076	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/15/92-10/11/94	1	3	
GRCA0078	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/14/92-10/11/94	2	8	
GRCA0080	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/14/92-06/09/94	1	3	
GRCA0081	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/04/81-09/04/81	0	1	
GRCA0084	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/09/94-06/09/94	0	1	
GRCA0085	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	03/13/94-03/13/94	0	1	
GRCA0086	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/19/81-11/19/81	0	1	
GRCA0087	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/15/92-10/13/94	2	8	
GRCA0089	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/19/81-11/19/81	0	1	
GRCA0090	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/92-10/19/92	0	1	
GRCA0091	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/27/51-06/27/51	0	1	
GRCA0093	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/18/92-10/14/94	1	5	
GRCA0094	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/19/81-11/19/81	0	1	
GRCA0095	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/92-10/16/94	1	2	
GRCA0097	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/27/51-06/27/51	0	1	
GRCA0098	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/27/92-10/15/94	2	9	
GRCA0100	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/18/81-11/18/81	0	1	
GRCA0102	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/20/94-06/20/94	0	1	
GRCA0103	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/20/92-10/15/94	1	6	
GRCA0104	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/18/81-11/18/81	0	1	
GRCA0106	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/18/92-05/09/94	1	4	
GRCA0111	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/94-08/23/94	0	1	
GRCA0112	No	00945	SULFATE, TOTAL (MG/L AS SO4)	03/28/82-03/28/82	0	1	
GRCA0113	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/24/94-08/24/94	0	1	
GRCA0119	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/28/92-10/17/94	2	9	
GRCA0123	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/19/92-07/09/94	2	7	
GRCA0124	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/89-10/11/89	0	5	
GRCA0129	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/76-08/09/76	0	1	
GRCA0130	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/22/92-10/18/94	1	5	
GRCA0131	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/23/92-10/10/93	1	2	
GRCA0133	No	00945	SULFATE, TOTAL (MG/L AS SO4)	01/23/92-01/23/92	0	1	
GRCA0134	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/20/93-05/20/93	0	1	
GRCA0135	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/07/51-08/10/76	25	2	
GRCA0136	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/24/92-10/20/94	1	6	
GRCA0137	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/14/93-10/14/93	0	1	
GRCA0138	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/19/93-05/19/93	0	1	
GRCA0144	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/24/92-10/24/92	0	1	
GRCA0146	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/20/92-10/19/94	2	8	
GRCA0147	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/08/89-10/12/89	0	6	
GRCA0149	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/25/92-10/25/92	0	1	
GRCA0150	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/93-05/15/93	0	1	
GRCA0151	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/93-05/15/93	0	1	
GRCA0152	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/93-05/15/93	0	1	
GRCA0155	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/93-05/15/93	0	1	
GRCA0158	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/17/93-05/17/93	0	1	
GRCA0160	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/17/93-05/17/93	0	1	
GRCA0164	No	00945	SULFATE, TOTAL (MG/L AS SO4)	06/11/93-06/11/93	0	1	
GRCA0166	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	10	107	A
GRCA0003	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	12/01/93-09/22/94	0	7	
GRCA0004	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/10/78-11/12/86	8	41	
GRCA0001	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/62-04/01/68	5	10	
GRCA0002	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/05/89-10/10/89	0	6	
GRCA0004	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/10/78-10/21/81	3	14	
GRCA0006	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/04/76-08/04/76	0	1	
GRCA0011	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	52	678	T,S
GRCA0012	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/01/49-11/15/79	30	41	
GRCA0015	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/30/52-04/30/52	0	1	
GRCA0016	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/30/52-04/30/52	0	1	
GRCA0017	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/14/77-11/15/79	2	26	
GRCA0019	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/06/76-08/06/76	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0020	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/17/66-07/18/79	13	5	
GRCA0021	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/04/76-08/04/76	0	1	
GRCA0031	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/81-11/20/81	0	1	
GRCA0032	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/20/65-06/20/65	0	1	
GRCA0038	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	56	945	S
GRCA0060	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/22/71-09/02/81	10	25	
GRCA0062	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/01/81-09/01/81	0	1	
GRCA0075	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/04/81-09/04/81	0	1	
GRCA0081	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/19/81-11/19/81	0	1	
GRCA0091	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/27/51-06/27/51	0	1	
GRCA0094	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/19/81-11/19/81	0	1	
GRCA0097	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/27/51-06/27/51	0	1	
GRCA0100	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/18/81-11/18/81	0	1	
GRCA0111	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/23/94-08/23/94	0	1	
GRCA0112	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/28/82-03/28/82	0	1	
GRCA0113	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/24/94-08/24/94	0	1	
GRCA0124	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/07/89-10/11/89	0	5	
GRCA0129	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/76-08/09/76	0	1	
GRCA0131	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/23/92-10/10/93	1	2	
GRCA0133	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/23/92-01/23/92	0	1	
GRCA0134	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/20/93-05/20/93	0	1	
GRCA0135	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/07/51-08/10/76	25	2	
GRCA0137	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/14/93-10/14/93	0	1	
GRCA0138	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/19/93-05/19/93	0	1	
GRCA0147	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/08/89-10/12/89	0	6	
GRCA0150	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/93-05/15/93	0	1	
GRCA0151	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/93-05/15/93	0	1	
GRCA0152	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/93-05/15/93	0	1	
GRCA0155	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/93-05/15/93	0	1	
GRCA0158	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/17/93-05/17/93	0	1	
GRCA0160	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/17/93-05/17/93	0	1	
GRCA0164	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/11/93-06/11/93	0	1	
GRCA0013	No	00951	FLUORIDE, TOTAL (MG/L AS F)	06/06/92-10/04/94	2	6	
GRCA0022	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/07/93-10/10/94	1	4	
GRCA0058	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	06/14/92-10/11/94	2	8	
GRCA0080	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	06/14/92-06/14/92	0	1	
GRCA0087	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	06/18/92-05/09/94	1	4	
GRCA0119	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	05/28/92-10/17/94	2	9	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0123	No	00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	07/05/93-10/18/94	1	4	
GRCA0136	No	00951	FLUORIDE, TOTAL (MG/L AS F)	07/06/93-10/20/94	1	5	
GRCA0146	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	06/20/92-10/19/94	2	8	
GRCA0002	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/05/89-10/10/89	0	6	
GRCA0004	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/10/78-10/21/81	3	14	
GRCA0006	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/04/76-08/04/76	0	1	
GRCA0011	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	69	817	T,S
GRCA0012	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/71-11/15/79	8	31	
GRCA0013	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/29/93-02/09/94	0	2	
GRCA0015	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/30/52-04/30/52	0	1	
GRCA0016	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/30/52-04/30/52	0	1	
GRCA0017	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/14/77-11/15/79	2	24	
GRCA0019	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/06/76-08/06/76	0	1	
GRCA0020	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/17/66-07/18/79	13	5	
GRCA0021	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/04/76-08/04/76	0	1	
GRCA0022	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/29/93-02/13/94	0	3	
GRCA0025	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/12/92-05/05/94	1	5	
GRCA0027	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/05/94-05/05/94	0	1	
GRCA0028	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/09/92-10/09/92	0	1	
GRCA0030	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/28/93-02/12/94	0	3	
GRCA0031	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/81-11/20/81	0	1	
GRCA0033	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/11/92-05/04/94	1	5	
GRCA0038	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/81-11/20/81	0	1	
GRCA0039	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/94-05/04/94	0	1	
GRCA0040	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/02/81-09/02/81	0	1	
GRCA0052	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/07/93-05/06/94	0	2	
GRCA0053	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	64	1317	S
GRCA0058	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/30/93-02/14/94	0	3	
GRCA0060	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	01/22/71-09/02/81	10	25	
GRCA0062	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/04/81-09/04/81	0	1	
GRCA0076	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/15/92-10/15/92	0	1	
GRCA0078	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/15/92-05/07/94	1	5	
GRCA0081	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/19/81-11/19/81	0	1	
GRCA0087	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/16/92-05/07/94	1	5	
GRCA0088	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/92-05/08/94	1	5	
GRCA0089	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/19/81-11/19/81	0	1	
GRCA0093	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/09/94-05/09/94	0	1	
GRCA0094	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/19/81-11/19/81	0	1	
GRCA0095	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/92-05/08/94	1	5	
GRCA0098	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/18/92-02/17/94	1	4	
GRCA0100	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/18/81-11/18/81	0	1	
GRCA0103	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/12/93-05/09/94	0	2	
GRCA0104	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/18/81-11/18/81	0	1	
GRCA0106	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/04/93-02/17/94	0	3	
GRCA0110	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/04/93-05/09/94	0	2	
GRCA0111	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/94-08/23/94	0	1	
GRCA0112	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/28/82-03/28/82	0	1	
GRCA0113	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/24/94-08/24/94	0	1	
GRCA0119	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/04/93-02/18/94	0	3	
GRCA0123	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/05/93-05/10/94	0	4	
GRCA0124	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/07/89-10/11/89	0	5	
GRCA0129	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/76-08/09/76	0	1	
GRCA0130	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/05/93-10/14/93	0	2	
GRCA0131	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	01/23/92-10/10/93	1	2	
GRCA0133	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	01/23/92-01/23/92	0	1	
GRCA0134	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/20/93-05/20/93	0	1	
GRCA0135	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/10/76-08/10/76	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0136	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/06/93-05/11/94	0	3	
GRCA0137	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/14/93-10/14/93	0	1	
GRCA0138	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/19/93-05/19/93	0	1	
GRCA0146	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/06/93-05/11/94	0	4	
GRCA0147	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/08/89-10/12/89	0	6	
GRCA0150	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/93-05/15/93	0	1	
GRCA0151	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/93-05/15/93	0	1	
GRCA0152	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/93-05/15/93	0	1	
GRCA0155	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/93-05/15/93	0	1	
GRCA0158	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/17/93-05/17/93	0	1	
GRCA0160	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/17/93-05/17/93	0	1	
GRCA0164	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/11/93-06/11/93	0	1	
GRCA0001	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/01/62-04/01/68	5	12	
GRCA0003	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	12/01/93-08/09/94	0	5	
GRCA0011	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/28/74-09/21/95	21	102	
GRCA0012	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/15/77-11/15/79	2	27	
GRCA0017	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/14/77-11/15/79	2	26	
GRCA0020	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/18/79-07/18/79	0	1	
GRCA0031	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/20/81-11/20/81	0	1	
GRCA0038	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	01/23/80-01/23/80	0	1	
GRCA0060	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/02/81-09/02/81	0	1	
GRCA0062	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/04/81-09/04/81	0	1	
GRCA0081	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/19/81-11/19/81	0	1	
GRCA0094	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/19/81-11/19/81	0	1	
GRCA0100	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/18/81-11/18/81	0	1	
GRCA0111	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/23/94-08/23/94	0	1	
GRCA0112	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/28/82-03/28/82	0	1	
GRCA0113	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/24/94-08/24/94	0	1	
GRCA0131	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/10/93-10/10/93	0	1	
GRCA0134	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/20/93-05/20/93	0	1	
GRCA0137	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/14/93-10/14/93	0	1	
GRCA0138	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/19/93-05/19/93	0	1	
GRCA0151	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/15/93-05/15/93	0	1	
GRCA0155	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/15/93-05/15/93	0	1	
GRCA0158	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/17/93-05/17/93	0	1	
GRCA0160	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/17/93-05/17/93	0	1	
GRCA0164	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/11/93-06/11/93	0	1	
GRCA0011	No	01001	ARSENIC, SUSPENDED (UG/L AS AS)	05/28/74-09/01/82	8	18	
GRCA0012	No	01001	ARSENIC, SUSPENDED (UG/L AS AS)	09/15/77-09/17/79	2	4	
GRCA0017	No	01001	ARSENIC, SUSPENDED (UG/L AS AS)	09/14/77-09/18/79	2	4	
GRCA0055	Yes	01001	ARSENIC, SUSPENDED (UG/L AS AS)	01/23/80-01/23/80	0	1	
GRCA0112	No	01001	ARSENIC, SUSPENDED (UG/L AS AS)	03/28/82-03/28/82	0	1	
GRCA0004	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/78-11/12/86	8	39	
GRCA0008	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/29/80-08/29/80	0	1	
GRCA0011	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/28/74-09/21/95	21	98	
GRCA0012	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/15/77-11/15/79	2	6	
GRCA0013	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/06/92-10/04/94	2	6	
GRCA0017	No	01002	ARSENIC, TOTAL (UG/L AS AS)	09/14/77-11/15/79	2	5	
GRCA0020	No	01002	ARSENIC, TOTAL (UG/L AS AS)	07/18/79-07/18/79	0	1	
GRCA0022	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	05/24/92-07/01/94	2	7	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0033	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/93-10/10/94	1	4	
GRCA0055	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	01/23/80-01/23/80	0	1	
GRCA0058	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	06/14/92-10/11/94	2	8	
GRCA0087	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	06/18/92-05/09/94	1	4	
GRCA0112	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/28/82-03/28/82	0	1	
GRCA0119	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	05/28/92-10/17/94	2	9	
GRCA0123	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	07/05/93-10/18/94	1	4	
GRCA0136	No	01002	ARSENIC, TOTAL (UG/L AS AS)	07/06/93-10/20/94	1	5	
GRCA0144	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	06/20/92-10/19/94	2	8	
GRCA0007	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/02/81-06/02/81	0	1	
GRCA0008	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/29/80-08/29/80	0	1	
GRCA0008	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	08/29/80-08/29/80	0	1	
GRCA0001	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/01/62-04/01/68	5	10	
GRCA0003	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	12/01/93-08/09/94	0	5	
GRCA0011	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	02/02/78-09/21/95	17	99	
GRCA0012	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/15/77-11/15/79	2	26	
GRCA0017	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	09/14/77-11/15/79	2	26	
GRCA0020	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	07/18/79-07/18/79	0	1	
GRCA0024	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/01/76-05/01/76	0	1	
GRCA0034	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	04/30/76-04/30/76	0	1	
GRCA0055	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	01/23/80-01/23/80	0	1	
GRCA0077	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/03/76-05/03/76	0	1	
GRCA0086	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/04/76-05/04/76	0	1	
GRCA0089	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/04/76-05/04/76	0	1	
GRCA0094	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/05/76-05/05/76	0	1	
GRCA0100	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/06/76-05/06/76	0	1	
GRCA0104	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/07/76-05/07/76	0	1	
GRCA0111	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/23/94-08/23/94	0	1	
GRCA0112	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	03/28/82-03/28/82	0	1	
GRCA0113	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/08/76-05/08/76	0	1	
GRCA0131	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/09/76-10/10/93	17	2	
GRCA0132	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/09/76-05/09/76	0	1	
GRCA0134	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/20/93-05/20/93	0	1	
GRCA0137	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/14/93-10/14/93	0	1	
GRCA0138	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/19/93-05/19/93	0	1	
GRCA0143	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/11/76-05/11/76	0	1	
GRCA0150	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/15/93-05/15/93	0	1	
GRCA0151	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/15/93-05/15/93	0	1	
GRCA0152	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/15/93-05/15/93	0	1	
GRCA0155	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/15/93-05/15/93	0	1	
GRCA0158	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/17/93-05/17/93	0	1	
GRCA0160	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/17/93-05/17/93	0	1	
GRCA0164	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	06/11/93-06/11/93	0	1	
GRCA0011	No	01006	BARIUM, SUSPENDED (UG/L AS BA)	02/02/78-09/01/82	4	17	
GRCA0020	No	01006	BARIUM, SUSPENDED (UG/L AS BA)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	01006	BARIUM, SUSPENDED (UG/L AS BA)	01/23/80-01/23/80	0	1	
GRCA0112	No	01006	BARIUM, SUSPENDED (UG/L AS BA)	03/28/82-03/28/82	0	1	
GRCA0004	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/10/78-11/12/86	8	39	
GRCA0011	No	01007	BARIUM, TOTAL (UG/L AS BA)	02/02/78-09/01/82	4	17	
GRCA0020	No	01007	BARIUM, TOTAL (UG/L AS BA)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	01/23/80-01/23/80	0	1	
GRCA0112	No	01007	BARIUM, TOTAL (UG/L AS BA)	03/28/82-03/28/82	0	1	
GRCA0001	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/01/62-07/01/67	4	9	
GRCA0011	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/02/82-09/21/95	12	37	
GRCA0024	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/01/76-05/01/76	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0034	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/30/76-04/30/76	0	1	
GRCA0077	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/03/76-05/03/76	0	1	
GRCA0086	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/04/76-05/04/76	0	1	
GRCA0089	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/04/76-05/04/76	0	1	
GRCA0094	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/05/76-05/05/76	0	1	
GRCA0100	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/06/76-05/06/76	0	1	
GRCA0104	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/07/76-05/07/76	0	1	
GRCA0111	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	08/23/94-08/23/94	0	1	
GRCA0113	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/08/76-05/08/76	0	1	
GRCA0131	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/09/76-10/10/93	17	2	
GRCA0132	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/09/76-05/09/76	0	1	
GRCA0134	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/20/93-05/20/93	0	1	
GRCA0137	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/14/93-10/14/93	0	1	
GRCA0138	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/19/93-05/19/93	0	1	
GRCA0143	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/11/76-05/11/76	0	1	
GRCA0150	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/15/93-05/15/93	0	1	
GRCA0151	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/15/93-05/15/93	0	1	
GRCA0152	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/15/93-05/15/93	0	1	
GRCA0155	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/15/93-05/15/93	0	1	
GRCA0158	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/17/93-05/17/93	0	1	
GRCA0160	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/17/93-05/17/93	0	1	
GRCA0164	No	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	06/11/93-06/11/93	0	1	
GRCA0008	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/29/80-08/29/80	0	1	
GRCA0011	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/12/88-09/21/95	6	12	
GRCA0013	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/06/92-10/04/94	2	6	
GRCA0022	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/07/93-10/10/94	1	4	
GRCA0058	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/14/92-10/11/94	2	8	
GRCA0087	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/15/92-07/05/94	2	6	
GRCA0096	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/18/92-05/09/94	1	4	
GRCA0119	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/28/92-10/17/94	2	9	
GRCA0123	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	07/05/93-10/18/94	1	4	
GRCA0136	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	07/06/93-10/20/94	1	5	
GRCA0144	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/20/92-10/19/94	2	8	
GRCA0007	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/02/81-06/02/81	0	1	
GRCA0008	No	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/29/80-08/29/80	0	1	
GRCA0024	Yes	01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/01/76-05/01/76	0	1	
GRCA0034	Yes	01015	BISMUTH, DISSOLVED (UG/L AS BI)	04/30/76-04/30/76	0	1	
GRCA0077	Yes	01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/03/76-05/03/76	0	1	
GRCA0086	Yes	01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/04/76-05/04/76	0	1	
GRCA0089	Yes	01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/04/76-05/04/76	0	1	
GRCA0094	Yes	01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/05/76-05/05/76	0	1	
GRCA0100	Yes	01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/06/76-05/06/76	0	1	
GRCA0104	Yes	01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/07/76-05/07/76	0	1	
GRCA0117	Yes	01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/08/76-05/08/76	0	1	
GRCA0131	No	01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/09/76-05/09/76	0	1	
GRCA0132	No	01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/09/76-05/09/76	0	1	
GRCA0143	No	01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/11/76-05/11/76	0	1	
GRCA0001	No	01020	BORON, DISSOLVED (UG/L AS B)	10/01/62-04/01/68	5	11	
GRCA0004	No	01020	BORON, DISSOLVED (UG/L AS B)	05/10/78-10/21/81	3	14	
GRCA0006	No	01020	BORON, DISSOLVED (UG/L AS B)	08/04/76-08/04/76	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0011	No	01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	65	607	S
GRCA0012	No	01020	BORON, DISSOLVED (UG/L AS B)	05/15/49-11/15/79	30	39	
GRCA0017	No	01020	BORON, DISSOLVED (UG/L AS B)	09/14/77-11/15/79	2	26	
GRCA0019	No	01020	BORON, DISSOLVED (UG/L AS B)	08/06/76-08/06/76	0	1	
GRCA0021	No	01020	BORON, DISSOLVED (UG/L AS B)	08/04/76-08/04/76	0	1	
GRCA0024	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/01/76-05/01/76	0	1	
GRCA0031	Yes	01020	BORON, DISSOLVED (UG/L AS B)	11/20/81-11/20/81	0	1	
GRCA0034	Yes	01020	BORON, DISSOLVED (UG/L AS B)	04/30/76-04/30/76	0	1	
GRCA0038	Yes	01020	BORON, DISSOLVED (UG/L AS B)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	01020	BORON, DISSOLVED (UG/L AS B)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	59	1009	S
GRCA0060	Yes	01020	BORON, DISSOLVED (UG/L AS B)	01/22/71-09/02/81	10	25	
GRCA0062	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/04/81-09/04/81	0	1	
GRCA0077	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/03/76-05/03/76	0	1	
GRCA0081	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/04/76-11/19/81	5	2	
GRCA0089	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/04/76-11/19/81	5	2	
GRCA0094	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/05/76-11/19/81	5	2	
GRCA0100	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/06/76-11/18/81	5	2	
GRCA0104	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/07/76-11/18/81	5	2	
GRCA0105	Yes	01020	BORON, DISSOLVED (UG/L AS B)	11/18/81-11/18/81	0	1	
GRCA0111	No	01020	BORON, DISSOLVED (UG/L AS B)	08/23/94-08/23/94	0	1	
GRCA0113	No	01020	BORON, DISSOLVED (UG/L AS B)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/08/76-05/08/76	0	1	
GRCA0129	Yes	01020	BORON, DISSOLVED (UG/L AS B)	08/09/76-08/09/76	0	1	
GRCA0131	No	01020	BORON, DISSOLVED (UG/L AS B)	05/09/76-10/10/93	17	3	
GRCA0132	No	01020	BORON, DISSOLVED (UG/L AS B)	05/09/76-05/09/76	0	1	
GRCA0133	No	01020	BORON, DISSOLVED (UG/L AS B)	01/23/92-01/23/92	0	1	
GRCA0134	No	01020	BORON, DISSOLVED (UG/L AS B)	05/20/93-05/20/93	0	1	
GRCA0135	No	01020	BORON, DISSOLVED (UG/L AS B)	08/10/76-08/10/76	0	1	
GRCA0137	No	01020	BORON, DISSOLVED (UG/L AS B)	10/14/93-10/14/93	0	1	
GRCA0138	No	01020	BORON, DISSOLVED (UG/L AS B)	05/19/93-05/19/93	0	1	
GRCA0143	No	01020	BORON, DISSOLVED (UG/L AS B)	05/11/76-05/11/76	0	1	
GRCA0150	No	01020	BORON, DISSOLVED (UG/L AS B)	05/15/93-05/15/93	0	1	
GRCA0151	No	01020	BORON, DISSOLVED (UG/L AS B)	05/15/93-05/15/93	0	1	
GRCA0155	No	01020	BORON, DISSOLVED (UG/L AS B)	05/15/93-05/15/93	0	1	
GRCA0158	No	01020	BORON, DISSOLVED (UG/L AS B)	05/17/93-05/17/93	0	1	
GRCA0160	No	01020	BORON, DISSOLVED (UG/L AS B)	05/17/93-05/17/93	0	1	
GRCA0164	No	01020	BORON, DISSOLVED (UG/L AS B)	06/11/93-06/11/93	0	1	
GRCA0011	No	01022	BORON, TOTAL (UG/L AS B)	10/12/47-09/21/95	47	78	
GRCA0055	Yes	01022	BORON, TOTAL (UG/L AS B)	10/01/47-07/13/83	35	69	
GRCA0001	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/01/62-04/01/68	5	12	
GRCA0003	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	12/01/93-08/09/94	0	5	
GRCA0011	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/28/74-09/21/95	21	100	
GRCA0012	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/15/77-09/17/79	2	5	
GRCA0017	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/14/77-09/18/79	2	4	
GRCA0020	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	07/18/79-07/18/79	0	1	
GRCA0024	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/01/76-05/01/76	0	1	
GRCA0031	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	11/20/81-11/20/81	0	1	
GRCA0034	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/30/76-04/30/76	0	1	
GRCA0038	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	01/23/80-01/23/80	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0060	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/02/81-09/02/81	0	1	
GRCA0062	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/04/81-09/04/81	0	1	
GRCA0077	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/03/76-05/03/76	0	1	
GRCA0081	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/04/76-11/19/81	5	2	
GRCA0089	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/04/76-11/19/81	5	2	
GRCA0094	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/05/76-11/19/81	5	2	
GRCA0100	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/06/76-11/18/81	5	2	
GRCA0104	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/07/76-11/18/81	5	2	
GRCA0105	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	11/18/81-11/18/81	0	1	
GRCA0111	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/23/94-08/23/94	0	1	
GRCA0112	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/28/82-03/28/82	0	1	
GRCA0113	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/08/76-05/08/76	0	1	
GRCA0131	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/09/76-10/10/93	17	2	
GRCA0132	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/09/76-05/09/76	0	1	
GRCA0134	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/20/93-05/20/93	0	1	
GRCA0137	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/14/93-10/14/93	0	1	
GRCA0138	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/19/93-05/19/93	0	1	
GRCA0143	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/11/76-05/11/76	0	1	
GRCA0150	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/15/93-05/15/93	0	1	
GRCA0151	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/15/93-05/15/93	0	1	
GRCA0152	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/15/93-05/15/93	0	1	
GRCA0155	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/15/93-05/15/93	0	1	
GRCA0158	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/17/93-05/17/93	0	1	
GRCA0160	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/17/93-05/17/93	0	1	
GRCA0164	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	06/11/93-06/11/93	0	1	
GRCA0011	No	01026	CADMIUM, SUSPENDED (UG/L AS CD)	05/28/74-09/01/82	8	20	
GRCA0012	No	01026	CADMIUM, SUSPENDED (UG/L AS CD)	09/15/77-09/17/79	2	5	
GRCA0017	No	01026	CADMIUM, SUSPENDED (UG/L AS CD)	09/14/77-09/18/79	2	4	
GRCA0020	No	01026	CADMIUM, SUSPENDED (UG/L AS CD)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	01026	CADMIUM, SUSPENDED (UG/L AS CD)	01/23/80-01/23/80	0	1	
GRCA0004	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/78-11/12/86	8	37	
GRCA0008	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/29/80-08/29/80	0	1	
GRCA0011	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/28/74-09/21/95	21	94	
GRCA0012	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/15/77-09/17/79	2	5	
GRCA0013	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/06/92-10/04/94	2	6	
GRCA0017	No	01027	CADMIUM, TOTAL (UG/L AS CD)	09/14/77-09/18/79	2	4	
GRCA0020	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/18/79-07/18/79	0	1	
GRCA0022	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/93-10/10/94	1	4	
GRCA0055	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	01/23/80-07/13/83	3	2	
GRCA0058	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/14/92-10/11/94	2	8	
GRCA0087	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/18/92-05/09/94	1	4	
GRCA0112	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/28/82-03/28/82	0	1	
GRCA0119	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	05/28/92-10/17/94	2	9	
GRCA0123	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/05/93-10/18/94	1	4	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0136	No	01027	CADMIUM, TOTAL (UG/L AS CD)	07/06/93-10/20/94	1	5	
GRCA0144	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/20/92-10/19/94	2	8	
GRCA0007	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/02/81-06/02/81	0	1	
GRCA0008	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/29/80-08/29/80	0	1	
GRCA0007	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/02/81-06/02/81	0	1	
GRCA0008	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/29/80-08/29/80	0	1	
GRCA0001	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/01/62-07/01/67	4	10	
GRCA0003	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	12/01/93-08/09/94	0	5	
GRCA0011	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/28/74-09/21/95	21	101	
GRCA0012	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/15/77-09/17/79	2	5	
GRCA0017	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/14/77-09/18/79	2	4	
GRCA0020	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/18/79-07/18/79	0	1	
GRCA0024	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/01/76-05/01/76	0	1	
GRCA0034	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/30/76-04/30/76	0	1	
GRCA0055	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/23/80-01/23/80	0	1	
GRCA0077	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/03/76-05/03/76	0	1	
GRCA0086	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/04/76-05/04/76	0	1	
GRCA0089	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/04/76-05/04/76	0	1	
GRCA0094	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/05/76-05/05/76	0	1	
GRCA0100	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/06/76-05/06/76	0	1	
GRCA0104	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/07/76-05/07/76	0	1	
GRCA0111	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/23/94-08/23/94	0	1	
GRCA0112	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/28/82-03/28/82	0	1	
GRCA0113	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/08/76-05/08/76	0	1	
GRCA0131	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/09/76-10/10/93	17	2	
GRCA0132	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/09/76-05/09/76	0	1	
GRCA0134	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/20/93-05/20/93	0	1	
GRCA0137	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/14/93-10/14/93	0	1	
GRCA0138	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/19/93-05/19/93	0	1	
GRCA0143	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/11/76-05/11/76	0	1	
GRCA0150	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/15/93-05/15/93	0	1	
GRCA0151	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/15/93-05/15/93	0	1	
GRCA0152	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/15/93-05/15/93	0	1	
GRCA0155	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/15/93-05/15/93	0	1	
GRCA0158	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/17/93-05/17/93	0	1	
GRCA0160	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/17/93-05/17/93	0	1	
GRCA0164	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/11/93-06/11/93	0	1	
GRCA0011	No	01031	CHROMIUM, SUSPEND (UG/L AS CR)	05/28/74-08/03/81	7	19	
GRCA0012	No	01031	CHROMIUM, SUSPEND (UG/L AS CR)	09/15/77-09/17/79	2	5	
GRCA0017	No	01031	CHROMIUM, SUSPEND (UG/L AS CR)	09/14/77-09/18/79	2	4	
GRCA0020	No	01031	CHROMIUM, SUSPEND (UG/L AS CR)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	01031	CHROMIUM, SUSPEND (UG/L AS CR)	01/23/80-01/23/80	0	1	
GRCA0004	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	05/10/78-10/21/81	3	11	
GRCA0004	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/78-11/12/86	8	37	
GRCA0008	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/29/80-08/29/80	0	1	
GRCA0011	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/28/74-09/21/95	21	98	
GRCA0012	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/15/77-09/17/79	2	5	
GRCA0013	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/06/92-10/04/94	2	6	
GRCA0017	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/14/77-09/18/79	2	4	
GRCA0020	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/18/79-07/18/79	0	1	
GRCA0022	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/93-10/10/94	1	4	
GRCA0055	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	01/23/80-01/23/80	0	1	
GRCA0058	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/14/92-10/11/94	2	8	
GRCA0087	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/27/92-10/15/94	2	9	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0103	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/18/92-05/09/94	1	4	
GRCA0112	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/28/82-03/28/82	0	1	
GRCA0119	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/28/92-10/17/94	2	9	
GRCA0123	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/05/93-10/18/94	1	4	
GRCA0136	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/06/93-10/20/94	1	5	
GRCA0144	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/20/92-10/19/94	2	8	
GRCA0001	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/01/62-04/01/68	5	12	
GRCA0011	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/28/74-09/21/95	21	74	
GRCA0012	No	01035	COBALT, DISSOLVED (UG/L AS CO)	09/15/77-09/17/79	2	5	
GRCA0017	No	01035	COBALT, DISSOLVED (UG/L AS CO)	09/14/77-09/18/79	2	4	
GRCA0020	No	01035	COBALT, DISSOLVED (UG/L AS CO)	07/18/79-07/18/79	0	1	
GRCA0024	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	05/01/76-05/01/76	0	1	
GRCA0034	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	04/30/76-04/30/76	0	1	
GRCA0055	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	01/23/80-01/23/80	0	1	
GRCA0077	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	05/03/76-05/03/76	0	1	
GRCA0086	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	05/04/76-05/04/76	0	1	
GRCA0089	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	05/04/76-05/04/76	0	1	
GRCA0094	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	05/05/76-05/05/76	0	1	
GRCA0100	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	05/06/76-05/06/76	0	1	
GRCA0104	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	05/07/76-05/07/76	0	1	
GRCA0111	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/23/94-08/23/94	0	1	
GRCA0112	No	01035	COBALT, DISSOLVED (UG/L AS CO)	03/28/82-03/28/82	0	1	
GRCA0113	No	01035	COBALT, DISSOLVED (UG/L AS CO)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	05/08/76-05/08/76	0	1	
GRCA0131	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/09/76-10/10/93	17	2	
GRCA0132	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/09/76-05/09/76	0	1	
GRCA0134	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/20/93-05/20/93	0	1	
GRCA0137	No	01035	COBALT, DISSOLVED (UG/L AS CO)	10/14/93-10/14/93	0	1	
GRCA0138	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/19/93-05/19/93	0	1	
GRCA0143	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/11/76-05/11/76	0	1	
GRCA0150	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/15/93-05/15/93	0	1	
GRCA0151	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/15/93-05/15/93	0	1	
GRCA0152	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/15/93-05/15/93	0	1	
GRCA0155	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/15/93-05/15/93	0	1	
GRCA0158	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/17/93-05/17/93	0	1	
GRCA0160	No	01035	COBALT, DISSOLVED (UG/L AS CO)	05/17/93-05/17/93	0	1	
GRCA0164	No	01035	COBALT, DISSOLVED (UG/L AS CO)	06/11/93-06/11/93	0	1	
GRCA0011	No	01036	COBALT, SUSPENDED (UG/L AS CO)	05/28/74-03/02/82	7	15	
GRCA0012	No	01036	COBALT, SUSPENDED (UG/L AS CO)	09/15/77-09/17/79	2	5	
GRCA0017	No	01036	COBALT, SUSPENDED (UG/L AS CO)	09/14/77-09/18/79	2	4	
GRCA0020	No	01036	COBALT, SUSPENDED (UG/L AS CO)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	01036	COBALT, SUSPENDED (UG/L AS CO)	01/23/80-01/23/80	0	1	
GRCA0011	No	01037	COBALT, TOTAL (UG/L AS CO)	05/28/74-09/01/82	8	23	
GRCA0012	No	01037	COBALT, TOTAL (UG/L AS CO)	09/15/77-09/17/79	2	5	
GRCA0017	No	01037	COBALT, TOTAL (UG/L AS CO)	09/14/77-09/18/79	2	4	
GRCA0020	No	01037	COBALT, TOTAL (UG/L AS CO)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	01037	COBALT, TOTAL (UG/L AS CO)	01/23/80-01/23/80	0	1	
GRCA0112	No	01037	COBALT, TOTAL (UG/L AS CO)	03/28/82-03/28/82	0	1	
GRCA0001	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/01/62-04/01/68	5	12	
GRCA0003	No	01040	COPPER, DISSOLVED (UG/L AS CU)	12/01/93-08/09/94	0	5	
GRCA0011	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/28/74-09/21/95	21	100	
GRCA0012	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/15/77-11/15/79	2	27	
GRCA0017	No	01040	COPPER, DISSOLVED (UG/L AS CU)	09/14/77-11/15/79	2	26	
GRCA0020	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/18/79-07/18/79	0	1	
GRCA0024	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	05/01/76-05/01/76	0	1	
GRCA0031	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	11/20/81-11/20/81	0	1	
GRCA0034	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	04/30/76-04/30/76	0	1	
GRCA0038	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	01/23/80-01/23/80	0	1	
GRCA0060	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/02/81-09/02/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0062	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/04/81-09/04/81	0	1	
GRCA0077	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	05/03/76-05/03/76	0	1	
GRCA0081	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	05/04/76-11/19/81	5	2	
GRCA0089	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	05/04/76-11/19/81	5	2	
GRCA0094	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	05/05/76-11/19/81	5	2	
GRCA0100	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	05/06/76-11/18/81	5	2	
GRCA0104	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	05/07/76-11/18/81	5	2	
GRCA0105	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	11/18/81-11/18/81	0	1	
GRCA0111	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/23/94-08/23/94	0	1	
GRCA0112	No	01040	COPPER, DISSOLVED (UG/L AS CU)	03/28/82-03/28/82	0	1	
GRCA0113	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	05/08/76-05/08/76	0	1	
GRCA0131	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/09/76-10/10/93	17	2	
GRCA0132	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/09/76-05/09/76	0	1	
GRCA0134	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/20/93-05/20/93	0	1	
GRCA0137	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/14/93-10/14/93	0	1	
GRCA0138	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/19/93-05/19/93	0	1	
GRCA0143	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/11/76-05/11/76	0	1	
GRCA0150	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/15/93-05/15/93	0	1	
GRCA0151	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/15/93-05/15/93	0	1	
GRCA0152	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/15/93-05/15/93	0	1	
GRCA0155	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/15/93-05/15/93	0	1	
GRCA0158	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/17/93-05/17/93	0	1	
GRCA0160	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/17/93-05/17/93	0	1	
GRCA0164	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/11/93-06/11/93	0	1	
GRCA0011	No	01041	COPPER, SUSPENDED (UG/L AS CU)	05/28/74-09/01/82	8	22	
GRCA0012	No	01041	COPPER, SUSPENDED (UG/L AS CU)	09/15/77-09/17/79	2	5	
GRCA0017	No	01041	COPPER, SUSPENDED (UG/L AS CU)	09/14/77-09/18/79	2	4	
GRCA0020	No	01041	COPPER, SUSPENDED (UG/L AS CU)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	01041	COPPER, SUSPENDED (UG/L AS CU)	01/23/80-01/23/80	0	1	
GRCA0112	No	01041	COPPER, SUSPENDED (UG/L AS CU)	03/28/82-03/28/82	0	1	
GRCA0004	No	01042	COPPER, TOTAL (UG/L AS CU)	05/10/78-11/12/86	8	37	
GRCA0008	No	01042	COPPER, TOTAL (UG/L AS CU)	08/29/80-08/29/80	0	1	
GRCA0011	No	01042	COPPER, TOTAL (UG/L AS CU)	05/28/74-09/21/95	21	97	
GRCA0012	No	01042	COPPER, TOTAL (UG/L AS CU)	09/15/77-09/17/79	2	5	
GRCA0013	No	01042	COPPER, TOTAL (UG/L AS CU)	06/06/92-10/04/94	2	6	
GRCA0017	No	01042	COPPER, TOTAL (UG/L AS CU)	09/14/77-09/18/79	2	4	
GRCA0020	No	01042	COPPER, TOTAL (UG/L AS CU)	07/18/79-07/18/79	0	1	
GRCA0022	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/07/93-10/10/94	1	4	
GRCA0055	Yes	01042	COPPER, TOTAL (UG/L AS CU)	01/23/80-07/13/83	3	2	
GRCA0058	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/14/92-10/11/94	2	8	
GRCA0087	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/18/92-05/09/94	1	4	
GRCA0112	No	01042	COPPER, TOTAL (UG/L AS CU)	03/28/82-03/28/82	0	1	
GRCA0119	Yes	01042	COPPER, TOTAL (UG/L AS CU)	05/28/92-10/17/94	2	9	
GRCA0123	No	01042	COPPER, TOTAL (UG/L AS CU)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/05/93-10/18/94	1	4	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0136	No	01042	COPPER, TOTAL (UG/L AS CU)	07/06/93-10/20/94	1	5	
GRCA0144	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/20/92-10/19/94	2	8	
GRCA0007	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/02/81-06/02/81	0	1	
GRCA0008	No	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/29/80-08/29/80	0	1	
GRCA0055	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	09/21/38-09/21/38	0	1	
GRCA0011	No	01044	IRON, SUSPENDED (UG/L AS FE)	11/01/78-07/01/82	3	7	
GRCA0012	No	01044	IRON, SUSPENDED (UG/L AS FE)	03/14/78-03/21/79	1	3	
GRCA0017	No	01044	IRON, SUSPENDED (UG/L AS FE)	03/13/78-09/07/78	0	2	
GRCA0020	No	01044	IRON, SUSPENDED (UG/L AS FE)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	01044	IRON, SUSPENDED (UG/L AS FE)	01/23/80-01/23/80	0	1	
GRCA0112	No	01044	IRON, SUSPENDED (UG/L AS FE)	03/28/82-03/28/82	0	1	
GRCA0001	No	01045	IRON, TOTAL (UG/L AS FE)	10/01/62-04/01/68	5	12	
GRCA0011	No	01045	IRON, TOTAL (UG/L AS FE)	10/12/47-09/21/95	47	432	S
GRCA0012	No	01045	IRON, TOTAL (UG/L AS FE)	09/15/77-09/17/79	2	5	
GRCA0017	No	01045	IRON, TOTAL (UG/L AS FE)	09/14/77-09/18/79	2	4	
GRCA0020	No	01045	IRON, TOTAL (UG/L AS FE)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	01045	IRON, TOTAL (UG/L AS FE)	10/01/47-01/23/80	32	315	
GRCA0112	No	01045	IRON, TOTAL (UG/L AS FE)	03/28/82-03/28/82	0	1	
GRCA0003	No	01046	IRON, DISSOLVED (UG/L AS FE)	12/01/93-08/09/94	0	5	
GRCA0006	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/04/76-08/04/76	0	1	
GRCA0011	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/11/26-09/21/95	69	296	T,S
GRCA0012	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/11/71-11/15/79	8	31	
GRCA0017	No	01046	IRON, DISSOLVED (UG/L AS FE)	09/14/77-11/15/79	2	26	
GRCA0019	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/06/76-08/06/76	0	1	
GRCA0020	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/17/66-07/18/79	13	5	
GRCA0021	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/04/76-08/04/76	0	1	
GRCA0024	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	05/01/76-05/01/76	0	1	
GRCA0031	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	11/20/81-11/20/81	0	1	
GRCA0034	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	04/30/76-04/30/76	0	1	
GRCA0038	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	61	1030	S
GRCA0060	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	01/22/71-09/02/81	10	25	
GRCA0062	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/04/81-09/04/81	0	1	
GRCA0077	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	05/03/76-05/03/76	0	1	
GRCA0081	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	05/04/76-11/19/81	5	2	
GRCA0089	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	05/04/76-11/19/81	5	2	
GRCA0094	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	05/05/76-11/19/81	5	2	
GRCA0100	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	05/06/76-11/18/81	5	2	
GRCA0104	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	05/07/76-11/18/81	5	2	
GRCA0105	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	11/18/81-11/18/81	0	1	
GRCA0111	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/23/94-08/23/94	0	1	
GRCA0112	No	01046	IRON, DISSOLVED (UG/L AS FE)	03/28/82-03/28/82	0	1	
GRCA0113	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	05/08/76-05/08/76	0	1	
GRCA0129	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/09/76-08/09/76	0	1	
GRCA0131	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/09/76-10/10/93	17	3	
GRCA0132	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/09/76-05/09/76	0	1	
GRCA0133	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/23/92-01/23/92	0	1	
GRCA0134	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/20/93-05/20/93	0	1	
GRCA0135	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/10/76-08/10/76	0	1	
GRCA0137	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/14/93-10/14/93	0	1	
GRCA0138	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/19/93-05/19/93	0	1	
GRCA0143	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/11/76-05/11/76	0	1	
GRCA0150	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/15/93-05/15/93	0	1	
GRCA0151	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/15/93-05/15/93	0	1	
GRCA0152	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/15/93-05/15/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0155	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/15/93-05/15/93	0	1	
GRCA0158	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/17/93-05/17/93	0	1	
GRCA0160	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/17/93-05/17/93	0	1	
GRCA0164	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/11/93-06/11/93	0	1	
GRCA0001	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/01/62-04/01/68	5	12	
GRCA0003	No	01049	LEAD, DISSOLVED (UG/L AS PB)	12/01/93-08/09/94	0	5	
GRCA0011	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/28/74-09/21/95	21	101	
GRCA0012	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/15/77-11/15/79	2	23	
GRCA0017	No	01049	LEAD, DISSOLVED (UG/L AS PB)	09/14/77-11/15/79	2	26	
GRCA0020	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/18/79-07/18/79	0	1	
GRCA0024	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	05/01/76-05/01/76	0	1	
GRCA0031	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	11/20/81-11/20/81	0	1	
GRCA0034	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	04/30/76-04/30/76	0	1	
GRCA0038	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	01/23/80-01/23/80	0	1	
GRCA0060	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/02/81-09/02/81	0	1	
GRCA0062	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/04/81-09/04/81	0	1	
GRCA0077	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	05/03/76-05/03/76	0	1	
GRCA0081	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	05/04/76-11/19/81	5	2	
GRCA0089	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	05/04/76-11/19/81	5	2	
GRCA0094	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	05/05/76-11/19/81	5	2	
GRCA0100	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	05/06/76-11/18/81	5	2	
GRCA0104	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	05/07/76-11/18/81	5	2	
GRCA0105	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	11/18/81-11/18/81	0	1	
GRCA0111	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/23/94-08/23/94	0	1	
GRCA0112	No	01049	LEAD, DISSOLVED (UG/L AS PB)	03/28/82-03/28/82	0	1	
GRCA0113	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	05/08/76-05/08/76	0	1	
GRCA0131	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/09/76-10/10/93	17	2	
GRCA0132	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/09/76-05/09/76	0	1	
GRCA0134	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/20/93-05/20/93	0	1	
GRCA0137	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/14/93-10/14/93	0	1	
GRCA0138	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/19/93-05/19/93	0	1	
GRCA0143	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/11/76-05/11/76	0	1	
GRCA0150	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/15/93-05/15/93	0	1	
GRCA0151	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/15/93-05/15/93	0	1	
GRCA0152	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/15/93-05/15/93	0	1	
GRCA0155	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/15/93-05/15/93	0	1	
GRCA0158	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/17/93-05/17/93	0	1	
GRCA0160	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/17/93-05/17/93	0	1	
GRCA0164	No	01049	LEAD, DISSOLVED (UG/L AS PB)	06/11/93-06/11/93	0	1	
GRCA0011	No	01050	LEAD, SUSPENDED (UG/L AS PB)	05/28/74-09/01/82	8	21	
GRCA0012	No	01050	LEAD, SUSPENDED (UG/L AS PB)	09/15/77-09/17/79	2	5	
GRCA0017	No	01050	LEAD, SUSPENDED (UG/L AS PB)	09/14/77-09/18/79	2	4	
GRCA0020	No	01050	LEAD, SUSPENDED (UG/L AS PB)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	01050	LEAD, SUSPENDED (UG/L AS PB)	01/23/80-01/23/80	0	1	
GRCA0112	No	01050	LEAD, SUSPENDED (UG/L AS PB)	03/28/82-03/28/82	0	1	
GRCA0004	No	01051	LEAD, TOTAL (UG/L AS PB)	05/10/78-11/12/86	8	37	
GRCA0008	No	01051	LEAD, TOTAL (UG/L AS PB)	08/29/80-08/29/80	0	1	
GRCA0011	No	01051	LEAD, TOTAL (UG/L AS PB)	05/28/74-09/21/95	21	99	
GRCA0012	No	01051	LEAD, TOTAL (UG/L AS PB)	09/15/77-09/17/79	2	5	
GRCA0013	No	01051	LEAD, TOTAL (UG/L AS PB)	06/06/92-10/04/94	2	6	
GRCA0017	No	01051	LEAD, TOTAL (UG/L AS PB)	09/14/77-09/18/79	2	4	
GRCA0020	No	01051	LEAD, TOTAL (UG/L AS PB)	07/18/79-07/18/79	0	1	
GRCA0022	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	01051	LEAD, TOTAL (UG/L AS PB)	05/05/94-10/08/94	0	3	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0028	Yes	01051	LEAD, TOTAL (UG/L AS PB)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	01051	LEAD, TOTAL (UG/L AS PB)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	01051	LEAD, TOTAL (UG/L AS PB)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	01051	LEAD, TOTAL (UG/L AS PB)	10/07/93-10/10/94	1	4	
GRCA0055	Yes	01051	LEAD, TOTAL (UG/L AS PB)	01/23/80-01/23/80	0	1	
GRCA0058	Yes	01051	LEAD, TOTAL (UG/L AS PB)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	01051	LEAD, TOTAL (UG/L AS PB)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/14/92-10/11/94	2	8	
GRCA0087	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	01051	LEAD, TOTAL (UG/L AS PB)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	01051	LEAD, TOTAL (UG/L AS PB)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	01051	LEAD, TOTAL (UG/L AS PB)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	01051	LEAD, TOTAL (UG/L AS PB)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	01051	LEAD, TOTAL (UG/L AS PB)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/18/92-05/09/94	1	4	
GRCA0112	No	01051	LEAD, TOTAL (UG/L AS PB)	03/28/82-03/28/82	0	1	
GRCA0119	Yes	01051	LEAD, TOTAL (UG/L AS PB)	05/28/92-10/17/94	2	9	
GRCA0123	No	01051	LEAD, TOTAL (UG/L AS PB)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	01051	LEAD, TOTAL (UG/L AS PB)	07/05/93-10/18/94	1	4	
GRCA0136	No	01051	LEAD, TOTAL (UG/L AS PB)	07/06/93-10/20/94	1	5	
GRCA0144	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/20/92-10/19/94	2	8	
GRCA0007	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/02/81-06/02/81	0	1	
GRCA0008	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/29/80-08/29/80	0	1	
GRCA0011	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	05/28/74-09/01/82	8	21	
GRCA0012	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	09/15/77-09/17/79	2	5	
GRCA0017	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	09/14/77-09/18/79	2	4	
GRCA0020	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	01054	MANGANESE, SUSPENDED (UG/L AS MN)	01/23/80-01/23/80	0	1	
GRCA0001	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/01/62-04/01/68	5	12	
GRCA0004	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/10/78-11/12/86	8	37	
GRCA0011	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/28/74-09/21/95	21	98	
GRCA0012	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/15/77-09/17/79	2	5	
GRCA0017	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/14/77-09/18/79	2	4	
GRCA0020	No	01055	MANGANESE, TOTAL (UG/L AS MN)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	01/23/80-01/23/80	0	1	
GRCA0112	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/28/82-03/28/82	0	1	
GRCA0003	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/01/93-08/09/94	0	5	
GRCA0011	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/28/74-09/21/95	21	104	
GRCA0012	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/15/77-11/15/79	2	27	
GRCA0017	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/14/77-11/15/79	2	26	
GRCA0020	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/18/79-07/18/79	0	1	
GRCA0024	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/01/76-05/01/76	0	1	
GRCA0031	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/81-11/20/81	0	1	
GRCA0034	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/30/76-04/30/76	0	1	
GRCA0038	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/23/80-01/23/80	0	1	
GRCA0060	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/02/81-09/02/81	0	1	
GRCA0062	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/04/81-09/04/81	0	1	
GRCA0077	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/03/76-05/03/76	0	1	
GRCA0081	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/76-11/19/81	5	2	
GRCA0089	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/76-11/19/81	5	2	
GRCA0094	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/05/76-11/19/81	5	2	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0100	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/06/76-11/18/81	5	2	
GRCA0104	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/07/76-11/18/81	5	2	
GRCA0105	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/18/81-11/18/81	0	1	
GRCA0111	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/23/94-08/23/94	0	1	
GRCA0112	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/28/82-03/28/82	0	1	
GRCA0113	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/08/76-05/08/76	0	1	
GRCA0131	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/09/76-10/10/93	17	3	
GRCA0132	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/09/76-05/09/76	0	1	
GRCA0133	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/23/92-01/23/92	0	1	
GRCA0134	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/20/93-05/20/93	0	1	
GRCA0137	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/14/93-10/14/93	0	1	
GRCA0138	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/19/93-05/19/93	0	1	
GRCA0143	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/11/76-05/11/76	0	1	
GRCA0150	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/15/93-05/15/93	0	1	
GRCA0151	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/15/93-05/15/93	0	1	
GRCA0152	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/15/93-05/15/93	0	1	
GRCA0155	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/15/93-05/15/93	0	1	
GRCA0158	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/17/93-05/17/93	0	1	
GRCA0160	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/17/93-05/17/93	0	1	
GRCA0164	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/11/93-06/11/93	0	1	
GRCA0011	No	01059	THALLIUM, TOTAL (UG/L AS TL)	10/12/88-12/06/89	1	5	
GRCA0013	No	01059	THALLIUM, TOTAL (UG/L AS TL)	06/06/92-10/04/94	2	6	
GRCA0022	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	10/07/93-10/10/94	1	4	
GRCA0058	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	06/14/92-10/11/94	2	8	
GRCA0087	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	06/18/92-05/09/94	1	4	
GRCA0119	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	05/28/92-10/17/94	2	9	
GRCA0123	No	01059	THALLIUM, TOTAL (UG/L AS TL)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	07/05/93-10/18/94	1	4	
GRCA0136	No	01059	THALLIUM, TOTAL (UG/L AS TL)	07/06/93-10/20/94	1	5	
GRCA0144	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	01059	THALLIUM, TOTAL (UG/L AS TL)	06/20/92-10/19/94	2	8	
GRCA0001	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/01/62-04/01/68	5	12	
GRCA0011	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/02/82-09/21/95	12	52	
GRCA0024	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/01/76-05/01/76	0	1	
GRCA0031	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/20/81-11/20/81	0	1	
GRCA0034	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/30/76-04/30/76	0	1	
GRCA0038	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/02/81-09/02/81	0	1	
GRCA0060	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/02/81-09/02/81	0	1	
GRCA0062	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/04/81-09/04/81	0	1	
GRCA0077	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/03/76-05/03/76	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0081	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/04/76-11/19/81	5	2	
GRCA0089	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/04/76-11/19/81	5	2	
GRCA0094	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/05/76-11/19/81	5	2	
GRCA0100	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/06/76-11/18/81	5	2	
GRCA0104	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/07/76-11/18/81	5	2	
GRCA0105	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/18/81-11/18/81	0	1	
GRCA0111	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/23/94-08/23/94	0	1	
GRCA0113	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/08/76-05/08/76	0	1	
GRCA0131	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/09/76-10/10/93	17	2	
GRCA0132	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/09/76-05/09/76	0	1	
GRCA0134	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/20/93-05/20/93	0	1	
GRCA0137	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/14/93-10/14/93	0	1	
GRCA0138	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/19/93-05/19/93	0	1	
GRCA0143	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/11/76-05/11/76	0	1	
GRCA0150	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/15/93-05/15/93	0	1	
GRCA0151	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/15/93-05/15/93	0	1	
GRCA0152	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/15/93-05/15/93	0	1	
GRCA0155	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/15/93-05/15/93	0	1	
GRCA0158	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/17/93-05/17/93	0	1	
GRCA0160	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/17/93-05/17/93	0	1	
GRCA0164	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/11/93-06/11/93	0	1	
GRCA0001	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/01/62-04/01/68	5	12	
GRCA0011	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/15/79-09/21/95	15	63	
GRCA0024	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/01/76-05/01/76	0	1	
GRCA0031	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/20/81-11/20/81	0	1	
GRCA0034	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	04/30/76-04/30/76	0	1	
GRCA0038	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/02/81-09/02/81	0	1	
GRCA0060	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/02/81-09/02/81	0	1	
GRCA0062	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/04/81-09/04/81	0	1	
GRCA0077	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/03/76-05/03/76	0	1	
GRCA0081	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/04/76-11/19/81	5	2	
GRCA0089	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/04/76-11/19/81	5	2	
GRCA0094	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/05/76-11/19/81	5	2	
GRCA0100	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/06/76-11/18/81	5	2	
GRCA0104	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/07/76-11/18/81	5	2	
GRCA0105	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/18/81-11/18/81	0	1	
GRCA0111	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/23/94-08/23/94	0	1	
GRCA0112	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/28/82-03/28/82	0	1	
GRCA0113	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/08/76-05/08/76	0	1	
GRCA0131	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/09/76-10/10/93	17	2	
GRCA0132	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/09/76-05/09/76	0	1	
GRCA0134	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/20/93-05/20/93	0	1	
GRCA0137	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/14/93-10/14/93	0	1	
GRCA0138	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/19/93-05/19/93	0	1	
GRCA0143	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/11/76-05/11/76	0	1	
GRCA0150	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/15/93-05/15/93	0	1	
GRCA0151	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/15/93-05/15/93	0	1	
GRCA0152	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/15/93-05/15/93	0	1	
GRCA0155	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/15/93-05/15/93	0	1	
GRCA0158	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/17/93-05/17/93	0	1	
GRCA0160	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/17/93-05/17/93	0	1	
GRCA0164	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	06/11/93-06/11/93	0	1	
GRCA0011	No	01066	NICKEL, SUSPENDED (UG/L AS NI)	11/15/79-09/01/82	2	11	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0112	No	01066	NICKEL, SUSPENDED (UG/L AS NI)	03/28/82-03/28/82	0	1	
GRCA0004	No	01067	NICKEL, TOTAL (UG/L AS NI)	05/10/78-04/26/83	4	20	
GRCA0008	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/29/80-08/29/80	0	1	
GRCA0011	No	01067	NICKEL, TOTAL (UG/L AS NI)	11/15/79-09/21/95	15	23	
GRCA0013	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/06/92-10/04/94	2	6	
GRCA0022	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	10/07/93-10/10/94	1	4	
GRCA0058	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/14/92-10/11/94	2	8	
GRCA0087	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/18/92-05/09/94	1	4	
GRCA0112	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/28/82-03/28/82	0	1	
GRCA0119	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	05/28/92-10/17/94	2	9	
GRCA0123	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/05/93-10/18/94	1	4	
GRCA0136	No	01067	NICKEL, TOTAL (UG/L AS NI)	07/06/93-10/20/94	1	5	
GRCA0144	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/20/92-10/19/94	2	8	
GRCA0007	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/02/81-06/02/81	0	1	
GRCA0008	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/29/80-08/29/80	0	1	
GRCA0008	No	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	08/29/80-08/29/80	0	1	
GRCA0001	No	01070	PHOSPHORUS, TOTAL, SPECTROGRAPH METH (UG/L AS P)	10/01/62-07/01/67	4	9	
GRCA0001	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/01/62-04/01/68	5	12	
GRCA0003	No	01075	SILVER, DISSOLVED (UG/L AS AG)	12/01/93-08/09/94	0	5	
GRCA0011	No	01075	SILVER, DISSOLVED (UG/L AS AG)	02/02/78-09/21/95	17	98	
GRCA0020	No	01075	SILVER, DISSOLVED (UG/L AS AG)	07/18/79-07/18/79	0	1	
GRCA0024	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	05/01/76-05/01/76	0	1	
GRCA0034	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	04/30/76-04/30/76	0	1	
GRCA0055	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	01/23/80-01/23/80	0	1	
GRCA0077	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	05/03/76-05/03/76	0	1	
GRCA0086	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	05/04/76-05/04/76	0	1	
GRCA0089	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	05/04/76-05/04/76	0	1	
GRCA0094	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	05/05/76-05/05/76	0	1	
GRCA0100	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	05/06/76-05/06/76	0	1	
GRCA0104	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	05/07/76-05/07/76	0	1	
GRCA0111	No	01075	SILVER, DISSOLVED (UG/L AS AG)	08/23/94-08/23/94	0	1	
GRCA0112	No	01075	SILVER, DISSOLVED (UG/L AS AG)	03/28/82-03/28/82	0	1	
GRCA0113	No	01075	SILVER, DISSOLVED (UG/L AS AG)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	05/08/76-05/08/76	0	1	
GRCA0131	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/09/76-10/10/93	17	2	
GRCA0132	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/09/76-05/09/76	0	1	
GRCA0134	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/20/93-05/20/93	0	1	
GRCA0137	No	01075	SILVER, DISSOLVED (UG/L AS AG)	10/14/93-10/14/93	0	1	
GRCA0138	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/19/93-05/19/93	0	1	
GRCA0143	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/11/76-05/11/76	0	1	
GRCA0150	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/15/93-05/15/93	0	1	
GRCA0151	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/15/93-05/15/93	0	1	
GRCA0152	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/15/93-05/15/93	0	1	
GRCA0155	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/15/93-05/15/93	0	1	
GRCA0158	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/17/93-05/17/93	0	1	
GRCA0160	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/17/93-05/17/93	0	1	
GRCA0164	No	01075	SILVER, DISSOLVED (UG/L AS AG)	06/11/93-06/11/93	0	1	
GRCA0011	No	01076	SILVER, SUSPENDED (UG/L AS AG)	02/02/78-08/03/81	3	13	
GRCA0020	No	01076	SILVER, SUSPENDED (UG/L AS AG)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	01076	SILVER, SUSPENDED (UG/L AS AG)	01/23/80-01/23/80	0	1	
GRCA0004	No	01077	SILVER, TOTAL (UG/L AS AG)	05/10/78-11/12/86	8	37	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0011	No	01077	SILVER, TOTAL (UG/L AS AG)	02/02/78-09/01/82	4	17	
GRCA0013	No	01077	SILVER, TOTAL (UG/L AS AG)	06/06/92-10/04/94	2	6	
GRCA0020	No	01077	SILVER, TOTAL (UG/L AS AG)	07/18/79-07/18/79	0	1	
GRCA0022	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	01077	SILVER, TOTAL (UG/L AS AG)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	01077	SILVER, TOTAL (UG/L AS AG)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	01077	SILVER, TOTAL (UG/L AS AG)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	01077	SILVER, TOTAL (UG/L AS AG)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	01077	SILVER, TOTAL (UG/L AS AG)	10/07/93-10/10/94	1	4	
GRCA0055	Yes	01077	SILVER, TOTAL (UG/L AS AG)	01/23/80-01/23/80	0	1	
GRCA0058	Yes	01077	SILVER, TOTAL (UG/L AS AG)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	01077	SILVER, TOTAL (UG/L AS AG)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/14/92-10/11/94	2	8	
GRCA0087	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	01077	SILVER, TOTAL (UG/L AS AG)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	01077	SILVER, TOTAL (UG/L AS AG)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	01077	SILVER, TOTAL (UG/L AS AG)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	01077	SILVER, TOTAL (UG/L AS AG)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	01077	SILVER, TOTAL (UG/L AS AG)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/18/92-05/09/94	1	4	
GRCA0112	No	01077	SILVER, TOTAL (UG/L AS AG)	03/28/82-03/28/82	0	1	
GRCA0119	Yes	01077	SILVER, TOTAL (UG/L AS AG)	05/28/92-10/17/94	2	9	
GRCA0123	No	01077	SILVER, TOTAL (UG/L AS AG)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	01077	SILVER, TOTAL (UG/L AS AG)	07/05/93-10/18/94	1	4	
GRCA0136	No	01077	SILVER, TOTAL (UG/L AS AG)	07/06/93-10/20/94	1	5	
GRCA0144	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/20/92-10/19/94	2	8	
GRCA0007	No	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/02/81-06/02/81	0	1	
GRCA0001	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/01/62-04/01/68	5	11	
GRCA0011	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/02/82-09/21/95	12	51	
GRCA0024	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/01/76-05/01/76	0	1	
GRCA0034	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	04/30/76-04/30/76	0	1	
GRCA0077	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/03/76-05/03/76	0	1	
GRCA0086	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/04/76-05/04/76	0	1	
GRCA0089	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/04/76-05/04/76	0	1	
GRCA0094	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/05/76-05/05/76	0	1	
GRCA0100	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/06/76-05/06/76	0	1	
GRCA0104	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/07/76-05/07/76	0	1	
GRCA0111	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	08/23/94-08/23/94	0	1	
GRCA0113	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/08/76-05/08/76	0	1	
GRCA0131	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/09/76-10/10/93	17	2	
GRCA0132	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/09/76-05/09/76	0	1	
GRCA0134	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/20/93-05/20/93	0	1	
GRCA0137	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/14/93-10/14/93	0	1	
GRCA0138	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/19/93-05/19/93	0	1	
GRCA0143	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/11/76-05/11/76	0	1	
GRCA0150	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/15/93-05/15/93	0	1	
GRCA0151	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/15/93-05/15/93	0	1	
GRCA0152	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/15/93-05/15/93	0	1	
GRCA0155	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/15/93-05/15/93	0	1	
GRCA0158	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/17/93-05/17/93	0	1	
GRCA0160	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/17/93-05/17/93	0	1	
GRCA0164	No	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	06/11/93-06/11/93	0	1	
GRCA0001	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/01/62-04/01/68	5	12	
GRCA0011	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/02/82-09/21/95	12	52	
GRCA0024	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/01/76-05/01/76	0	1	
GRCA0031	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/20/81-11/20/81	0	1	
GRCA0034	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	04/30/76-04/30/76	0	1	
GRCA0038	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/02/81-09/02/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0053	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/02/81-09/02/81	0	1	
GRCA0060	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/02/81-09/02/81	0	1	
GRCA0062	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/04/81-09/04/81	0	1	
GRCA0077	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/03/76-05/03/76	0	1	
GRCA0081	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/04/76-11/19/81	5	2	
GRCA0089	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/04/76-11/19/81	5	2	
GRCA0094	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/05/76-11/19/81	5	2	
GRCA0100	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/06/76-11/18/81	5	2	
GRCA0104	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/07/76-11/18/81	5	2	
GRCA0105	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/18/81-11/18/81	0	1	
GRCA0111	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	08/23/94-08/23/94	0	1	
GRCA0113	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/08/76-05/08/76	0	1	
GRCA0131	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/09/76-10/10/93	17	2	
GRCA0132	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/09/76-05/09/76	0	1	
GRCA0134	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/20/93-05/20/93	0	1	
GRCA0137	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/14/93-10/14/93	0	1	
GRCA0138	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/19/93-05/19/93	0	1	
GRCA0143	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/11/76-05/11/76	0	1	
GRCA0150	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/15/93-05/15/93	0	1	
GRCA0151	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/15/93-05/15/93	0	1	
GRCA0152	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/15/93-05/15/93	0	1	
GRCA0155	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/15/93-05/15/93	0	1	
GRCA0158	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/17/93-05/17/93	0	1	
GRCA0160	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	05/17/93-05/17/93	0	1	
GRCA0164	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	06/11/93-06/11/93	0	1	
GRCA0001	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/01/62-04/01/68	5	12	
GRCA0003	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	12/01/93-08/09/94	0	5	
GRCA0011	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/28/74-09/21/95	21	102	
GRCA0012	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/15/77-11/15/79	2	27	
GRCA0017	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/14/77-11/15/79	2	25	
GRCA0020	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/18/79-07/18/79	0	1	
GRCA0024	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/01/76-05/01/76	0	1	
GRCA0031	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/20/81-11/20/81	0	1	
GRCA0034	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/30/76-04/30/76	0	1	
GRCA0038	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/23/80-01/23/80	0	1	
GRCA0060	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/02/81-09/02/81	0	1	
GRCA0062	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/04/81-09/04/81	0	1	
GRCA0077	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/03/76-05/03/76	0	1	
GRCA0081	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/04/76-11/19/81	5	2	
GRCA0089	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/04/76-11/19/81	5	2	
GRCA0094	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/05/76-11/19/81	5	2	
GRCA0100	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/06/76-11/18/81	5	2	
GRCA0104	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/07/76-11/18/81	5	2	
GRCA0105	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/18/81-11/18/81	0	1	
GRCA0111	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/23/94-08/23/94	0	1	
GRCA0112	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/28/82-03/28/82	0	1	
GRCA0113	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/24/94-08/24/94	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0117	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/08/76-05/08/76	0	1	
GRCA0131	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/09/76-10/10/93	17	2	
GRCA0132	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/09/76-05/09/76	0	1	
GRCA0134	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/20/93-05/20/93	0	1	
GRCA0137	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/14/93-10/14/93	0	1	
GRCA0138	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/19/93-05/19/93	0	1	
GRCA0143	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/11/76-05/11/76	0	1	
GRCA0150	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/15/93-05/15/93	0	1	
GRCA0151	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/15/93-05/15/93	0	1	
GRCA0152	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/15/93-05/15/93	0	1	
GRCA0155	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/15/93-05/15/93	0	1	
GRCA0158	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/17/93-05/17/93	0	1	
GRCA0160	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/17/93-05/17/93	0	1	
GRCA0164	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/11/93-06/11/93	0	1	
GRCA0011	No	01091	ZINC, SUSPENDED (UG/L ZN)	05/28/74-09/01/82	8	20	
GRCA0012	No	01091	ZINC, SUSPENDED (UG/L ZN)	09/15/77-09/17/79	2	5	
GRCA0017	No	01091	ZINC, SUSPENDED (UG/L ZN)	09/14/77-09/18/79	2	4	
GRCA0020	No	01091	ZINC, SUSPENDED (UG/L ZN)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	01091	ZINC, SUSPENDED (UG/L ZN)	01/23/80-01/23/80	0	1	
GRCA0112	No	01091	ZINC, SUSPENDED (UG/L ZN)	03/28/82-03/28/82	0	1	
GRCA0004	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/10/78-11/12/86	8	38	
GRCA0008	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/29/80-08/29/80	0	1	
GRCA0011	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/28/74-09/21/95	21	98	
GRCA0012	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/15/77-09/17/79	2	5	
GRCA0013	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/06/92-10/04/94	2	6	
GRCA0017	No	01092	ZINC, TOTAL (UG/L AS ZN)	09/14/77-09/18/79	2	4	
GRCA0020	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/18/79-07/18/79	0	1	
GRCA0022	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	10/07/93-10/10/94	1	4	
GRCA0055	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	01/23/80-01/23/80	0	1	
GRCA0058	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/14/92-10/11/94	2	8	
GRCA0087	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/18/92-05/09/94	1	4	
GRCA0112	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/28/82-03/28/82	0	1	
GRCA0119	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	05/28/92-10/17/94	2	9	
GRCA0123	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/05/93-10/18/94	1	4	
GRCA0136	No	01092	ZINC, TOTAL (UG/L AS ZN)	07/06/93-10/20/94	1	5	
GRCA0144	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/20/92-10/19/94	2	8	
GRCA0007	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/02/81-06/02/81	0	1	
GRCA0008	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/29/80-08/29/80	0	1	
GRCA0011	No	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	09/21/95-09/21/95	0	1	
GRCA0017	No	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	02/15/78-02/15/78	0	1	
GRCA0111	No	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	08/23/94-08/23/94	0	1	
GRCA0113	No	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	08/24/94-08/24/94	0	1	
GRCA0131	No	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	10/10/93-10/10/93	0	1	
GRCA0134	No	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	05/20/93-05/20/93	0	1	
GRCA0137	No	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	10/14/93-10/14/93	0	1	
GRCA0138	No	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	05/19/93-05/19/93	0	1	
GRCA0158	No	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	05/17/93-05/17/93	0	1	
GRCA0160	No	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	05/17/93-05/17/93	0	1	
GRCA0164	No	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	06/11/93-06/11/93	0	1	
GRCA0008	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	08/29/80-08/29/80	0	1	
GRCA0011	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	10/12/88-09/21/95	6	12	
GRCA0013	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/06/92-10/04/94	2	6	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0022	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	10/07/93-10/10/94	1	4	
GRCA0058	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/14/92-10/11/94	2	8	
GRCA0087	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/18/92-05/09/94	1	4	
GRCA0119	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	05/28/92-10/17/94	2	9	
GRCA0123	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	07/05/93-10/18/94	1	4	
GRCA0136	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	07/06/93-10/20/94	1	5	
GRCA0144	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/20/92-10/19/94	2	8	
GRCA0007	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/02/81-06/02/81	0	1	
GRCA0008	No	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	08/29/80-08/29/80	0	1	
GRCA0008	No	01099	ANTIMONY,TISSUE,WET WEIGHT,MG/KG	08/29/80-08/29/80	0	1	
GRCA0024	Yes	01100	TIN, DISSOLVED (UG/L AS SN)	05/01/76-05/01/76	0	1	
GRCA0034	Yes	01100	TIN, DISSOLVED (UG/L AS SN)	04/30/76-04/30/76	0	1	
GRCA0077	Yes	01100	TIN, DISSOLVED (UG/L AS SN)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01100	TIN, DISSOLVED (UG/L AS SN)	05/03/76-05/03/76	0	1	
GRCA0086	Yes	01100	TIN, DISSOLVED (UG/L AS SN)	05/04/76-05/04/76	0	1	
GRCA0089	Yes	01100	TIN, DISSOLVED (UG/L AS SN)	05/04/76-05/04/76	0	1	
GRCA0094	Yes	01100	TIN, DISSOLVED (UG/L AS SN)	05/05/76-05/05/76	0	1	
GRCA0100	Yes	01100	TIN, DISSOLVED (UG/L AS SN)	05/06/76-05/06/76	0	1	
GRCA0104	Yes	01100	TIN, DISSOLVED (UG/L AS SN)	05/07/76-05/07/76	0	1	
GRCA0117	Yes	01100	TIN, DISSOLVED (UG/L AS SN)	05/08/76-05/08/76	0	1	
GRCA0131	No	01100	TIN, DISSOLVED (UG/L AS SN)	05/09/76-05/09/76	0	1	
GRCA0132	No	01100	TIN, DISSOLVED (UG/L AS SN)	05/09/76-05/09/76	0	1	
GRCA0143	No	01100	TIN, DISSOLVED (UG/L AS SN)	05/11/76-05/11/76	0	1	
GRCA0001	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/01/63-07/01/67	4	8	
GRCA0003	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/09/94-08/09/94	0	1	
GRCA0011	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/02/82-09/21/95	12	52	
GRCA0024	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/01/76-05/01/76	0	1	
GRCA0031	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/20/81-11/20/81	0	1	
GRCA0034	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/30/76-04/30/76	0	1	
GRCA0038	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/02/81-09/02/81	0	1	
GRCA0060	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/02/81-09/02/81	0	1	
GRCA0062	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/04/81-09/04/81	0	1	
GRCA0077	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/03/76-05/03/76	0	1	
GRCA0081	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/04/76-11/19/81	5	2	
GRCA0089	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/04/76-11/19/81	5	2	
GRCA0094	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/05/76-11/19/81	5	2	
GRCA0100	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/06/76-11/18/81	5	2	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0104	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/07/76-11/18/81	5	2	
GRCA0105	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/18/81-11/18/81	0	1	
GRCA0117	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/08/76-05/08/76	0	1	
GRCA0131	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/09/76-05/09/76	0	1	
GRCA0132	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/09/76-05/09/76	0	1	
GRCA0143	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/11/76-05/11/76	0	1	
GRCA0024	Yes	01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/01/76-05/01/76	0	1	
GRCA0034	Yes	01120	GALLIUM, DISSOLVED (UG/L AS GA)	04/30/76-04/30/76	0	1	
GRCA0077	Yes	01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/03/76-05/03/76	0	1	
GRCA0086	Yes	01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/04/76-05/04/76	0	1	
GRCA0089	Yes	01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/04/76-05/04/76	0	1	
GRCA0094	Yes	01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/05/76-05/05/76	0	1	
GRCA0100	Yes	01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/06/76-05/06/76	0	1	
GRCA0104	Yes	01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/07/76-05/07/76	0	1	
GRCA0117	Yes	01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/08/76-05/08/76	0	1	
GRCA0131	No	01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/09/76-05/09/76	0	1	
GRCA0132	No	01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/09/76-05/09/76	0	1	
GRCA0143	No	01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/11/76-05/11/76	0	1	
GRCA0024	Yes	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/01/76-05/01/76	0	1	
GRCA0034	Yes	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	04/30/76-04/30/76	0	1	
GRCA0077	Yes	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/03/76-05/03/76	0	1	
GRCA0086	Yes	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/04/76-05/04/76	0	1	
GRCA0089	Yes	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/04/76-05/04/76	0	1	
GRCA0094	Yes	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/05/76-05/05/76	0	1	
GRCA0100	Yes	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/06/76-05/06/76	0	1	
GRCA0104	Yes	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/07/76-05/07/76	0	1	
GRCA0117	Yes	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/08/76-05/08/76	0	1	
GRCA0131	No	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/09/76-05/09/76	0	1	
GRCA0132	No	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/09/76-05/09/76	0	1	
GRCA0143	No	01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/11/76-05/11/76	0	1	
GRCA0011	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/02/82-09/21/95	12	52	
GRCA0024	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/01/76-05/01/76	0	1	
GRCA0034	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	04/30/76-04/30/76	0	1	
GRCA0077	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/03/76-05/03/76	0	1	
GRCA0086	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/04/76-05/04/76	0	1	
GRCA0089	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/04/76-05/04/76	0	1	
GRCA0094	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/05/76-05/05/76	0	1	
GRCA0100	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/06/76-05/06/76	0	1	
GRCA0104	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/07/76-05/07/76	0	1	
GRCA0111	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/23/94-08/23/94	0	1	
GRCA0113	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/24/94-08/24/94	0	1	
GRCA0117	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/08/76-05/08/76	0	1	
GRCA0131	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/09/76-10/10/93	17	2	
GRCA0132	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/09/76-05/09/76	0	1	
GRCA0134	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/20/93-05/20/93	0	1	
GRCA0137	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/14/93-10/14/93	0	1	
GRCA0138	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/19/93-05/19/93	0	1	
GRCA0143	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/11/76-05/11/76	0	1	
GRCA0150	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/15/93-05/15/93	0	1	
GRCA0151	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/15/93-05/15/93	0	1	
GRCA0152	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/15/93-05/15/93	0	1	
GRCA0155	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/15/93-05/15/93	0	1	
GRCA0158	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/17/93-05/17/93	0	1	
GRCA0160	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/17/93-05/17/93	0	1	
GRCA0164	No	01130	LITHIUM, DISSOLVED (UG/L AS LI)	06/11/93-06/11/93	0	1	
GRCA0001	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/01/62-04/01/63	0	2	
GRCA0003	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	12/01/93-08/09/94	0	5	
GRCA0004	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/01/86-10/01/86	0	1	
GRCA0011	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/28/74-09/21/95	21	105	
GRCA0012	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/15/77-11/15/79	2	27	
GRCA0017	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/14/77-11/15/79	2	24	
GRCA0020	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	07/18/79-07/18/79	0	1	
GRCA0031	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/20/81-11/20/81	0	1	
GRCA0038	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/02/81-09/02/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0049	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	01/23/80-01/23/80	0	1	
GRCA0060	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/02/81-09/02/81	0	1	
GRCA0062	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/04/81-09/04/81	0	1	
GRCA0081	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/19/81-11/19/81	0	1	
GRCA0094	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/19/81-11/19/81	0	1	
GRCA0100	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/18/81-11/18/81	0	1	
GRCA0111	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/23/94-08/23/94	0	1	
GRCA0112	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/28/82-03/28/82	0	1	
GRCA0113	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/24/94-08/24/94	0	1	
GRCA0131	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/10/93-10/10/93	0	1	
GRCA0137	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/14/93-10/14/93	0	1	
GRCA0138	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/19/93-05/19/93	0	1	
GRCA0150	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/15/93-05/15/93	0	1	
GRCA0151	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/15/93-05/15/93	0	1	
GRCA0152	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/15/93-05/15/93	0	1	
GRCA0155	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/15/93-05/15/93	0	1	
GRCA0158	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/17/93-05/17/93	0	1	
GRCA0160	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/17/93-05/17/93	0	1	
GRCA0164	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	06/11/93-06/11/93	0	1	
GRCA0011	No	01146	SELENIUM, SUSPENDED (UG/L AS SE)	05/28/74-09/01/82	8	23	
GRCA0012	No	01146	SELENIUM, SUSPENDED (UG/L AS SE)	09/15/77-09/17/79	2	5	
GRCA0017	No	01146	SELENIUM, SUSPENDED (UG/L AS SE)	09/14/77-09/18/79	2	6	
GRCA0020	No	01146	SELENIUM, SUSPENDED (UG/L AS SE)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	01146	SELENIUM, SUSPENDED (UG/L AS SE)	01/23/80-01/23/80	0	1	
GRCA0112	No	01146	SELENIUM, SUSPENDED (UG/L AS SE)	03/28/82-03/28/82	0	1	
GRCA0004	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/78-11/12/86	8	40	
GRCA0011	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/28/74-09/21/95	21	99	
GRCA0012	No	01147	SELENIUM, TOTAL (UG/L AS SE)	09/15/77-09/17/79	2	5	
GRCA0013	No	01147	SELENIUM, TOTAL (UG/L AS SE)	06/06/92-10/04/94	2	6	
GRCA0017	No	01147	SELENIUM, TOTAL (UG/L AS SE)	09/14/77-09/18/79	2	4	
GRCA0020	No	01147	SELENIUM, TOTAL (UG/L AS SE)	07/18/79-07/18/79	0	1	
GRCA0022	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/93-10/10/94	1	4	
GRCA0055	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	01/23/80-01/23/80	0	1	
GRCA0058	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/14/92-10/11/94	2	8	
GRCA0087	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/18/92-05/09/94	1	4	
GRCA0112	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/28/82-03/28/82	0	1	
GRCA0119	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	05/28/92-10/17/94	2	9	
GRCA0123	No	01147	SELENIUM, TOTAL (UG/L AS SE)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	07/05/93-10/18/94	1	4	
GRCA0136	No	01147	SELENIUM, TOTAL (UG/L AS SE)	07/06/93-10/20/94	1	5	
GRCA0144	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/20/92-10/19/94	2	8	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0007	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/02/81-06/02/81	0	1	
GRCA0024	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/01/76-05/01/76	0	1	
GRCA0034	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	04/30/76-04/30/76	0	1	
GRCA0077	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/03/76-05/03/76	0	1	
GRCA0086	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/04/76-05/04/76	0	1	
GRCA0089	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/04/76-05/04/76	0	1	
GRCA0094	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/05/76-05/05/76	0	1	
GRCA0100	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/06/76-05/06/76	0	1	
GRCA0104	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/07/76-05/07/76	0	1	
GRCA0117	Yes	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/08/76-05/08/76	0	1	
GRCA0131	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/09/76-05/09/76	0	1	
GRCA0132	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/09/76-05/09/76	0	1	
GRCA0143	No	01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/11/76-05/11/76	0	1	
GRCA0024	Yes	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/01/76-05/01/76	0	1	
GRCA0034	Yes	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	04/30/76-04/30/76	0	1	
GRCA0077	Yes	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/03/76-05/03/76	0	1	
GRCA0079	Yes	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/03/76-05/03/76	0	1	
GRCA0086	Yes	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/04/76-05/04/76	0	1	
GRCA0089	Yes	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/04/76-05/04/76	0	1	
GRCA0094	Yes	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/05/76-05/05/76	0	1	
GRCA0100	Yes	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/06/76-05/06/76	0	1	
GRCA0104	Yes	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/07/76-05/07/76	0	1	
GRCA0117	Yes	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/08/76-05/08/76	0	1	
GRCA0131	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/09/76-05/09/76	0	1	
GRCA0132	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/09/76-05/09/76	0	1	
GRCA0143	No	01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/11/76-05/11/76	0	1	
GRCA0055	Yes	01325	ALGAE, FLOATING MATS (SEVERITY)	09/05/85-09/05/85	0	1	
GRCA0055	Yes	01345	DEBRIS, FLOATING (SEVERITY)	09/05/85-09/05/85	0	1	
GRCA0131	No	01350	TURBIDITY (SEVERITY)	06/02/91-06/02/91	0	1	
GRCA0148	No	01350	TURBIDITY (SEVERITY)	08/22/91-08/22/91	0	1	
GRCA0001	No	01501	ALPHA, TOTAL	11/23/59-09/22/69	9	399	A
GRCA0004	No	01501	ALPHA, TOTAL	05/10/78-08/19/86	8	4	
GRCA0010	No	01501	ALPHA, TOTAL	05/19/70-01/11/71	0	9	
GRCA0013	No	01501	ALPHA, TOTAL	06/06/92-02/09/94	1	3	
GRCA0022	Yes	01501	ALPHA, TOTAL	05/12/93-05/12/93	0	1	
GRCA0025	Yes	01501	ALPHA, TOTAL	06/10/92-10/12/92	0	2	
GRCA0030	Yes	01501	ALPHA, TOTAL	05/24/92-02/12/94	1	2	
GRCA0033	Yes	01501	ALPHA, TOTAL	06/09/92-02/12/94	1	2	
GRCA0058	Yes	01501	ALPHA, TOTAL	02/14/94-02/14/94	0	1	
GRCA0078	Yes	01501	ALPHA, TOTAL	10/15/92-02/15/94	1	2	
GRCA0080	Yes	01501	ALPHA, TOTAL	06/14/92-06/14/92	0	1	
GRCA0087	Yes	01501	ALPHA, TOTAL	06/14/92-10/16/92	0	2	
GRCA0088	Yes	01501	ALPHA, TOTAL	02/16/94-02/16/94	0	1	
GRCA0095	Yes	01501	ALPHA, TOTAL	02/16/94-02/16/94	0	1	
GRCA0098	Yes	01501	ALPHA, TOTAL	05/27/92-02/17/94	1	4	
GRCA0106	Yes	01501	ALPHA, TOTAL	05/27/92-02/17/94	1	3	
GRCA0119	Yes	01501	ALPHA, TOTAL	05/28/92-02/18/94	1	3	
GRCA0123	No	01501	ALPHA, TOTAL	06/19/92-10/22/92	0	2	
GRCA0136	No	01501	ALPHA, TOTAL	07/06/93-07/06/93	0	1	
GRCA0146	Yes	01501	ALPHA, TOTAL	07/06/93-02/20/94	0	2	
GRCA0001	No	01502	ALPHA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	7	314	A
GRCA0010	No	01502	ALPHA, TOTAL, COUNTING ERROR	05/19/70-01/11/71	0	9	
GRCA0013	No	01502	ALPHA, TOTAL, COUNTING ERROR	02/09/94-02/09/94	0	1	
GRCA0025	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	06/10/92-10/12/92	0	2	
GRCA0030	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	05/24/92-02/12/94	1	2	
GRCA0033	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	06/09/92-06/09/92	0	1	
GRCA0078	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	02/15/94-02/15/94	0	1	
GRCA0080	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	06/14/92-06/14/92	0	1	
GRCA0087	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	10/16/92-10/16/92	0	1	
GRCA0095	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	02/16/94-02/16/94	0	1	
GRCA0098	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	06/16/92-06/16/92	0	1	
GRCA0106	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	05/27/92-05/18/93	0	2	
GRCA0119	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	05/18/93-05/18/93	0	1	
GRCA0123	No	01502	ALPHA, TOTAL, COUNTING ERROR	10/22/92-10/22/92	0	1	
GRCA0136	No	01502	ALPHA, TOTAL, COUNTING ERROR	07/06/93-07/06/93	0	1	
GRCA0146	Yes	01502	ALPHA, TOTAL, COUNTING ERROR	07/06/93-07/06/93	0	1	
GRCA0001	No	01503	ALPHA, DISSOLVED	11/23/59-09/22/69	9	399	A
GRCA0010	No	01503	ALPHA, DISSOLVED	05/19/70-01/11/71	0	9	
GRCA0001	No	01504	ALPHA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	7	314	A
GRCA0010	No	01504	ALPHA, DISSOLVED, COUNTING ERROR	05/19/70-01/11/71	0	9	
GRCA0001	No	01505	ALPHA, SUSPENDED	11/23/59-09/22/69	9	399	A

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0010	No	01505	ALPHA, SUSPENDED	05/19/70-01/11/71	0	9	
GRCA0001	No	01506	ALPHA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	7	314	A
GRCA0010	No	01506	ALPHA, SUSPENDED, COUNTING ERROR	05/19/70-01/11/71	0	9	
GRCA0001	No	03501	BETA, TOTAL	11/23/59-09/22/69	9	401	A
GRCA0004	No	03501	BETA, TOTAL	05/10/78-08/19/86	8	4	
GRCA0010	No	03501	BETA, TOTAL	05/19/70-01/11/71	0	9	
GRCA0013	No	03501	BETA, TOTAL	06/06/92-02/09/94	1	3	
GRCA0022	Yes	03501	BETA, TOTAL	05/12/93-05/12/93	0	1	
GRCA0025	Yes	03501	BETA, TOTAL	06/10/92-10/12/92	0	2	
GRCA0030	Yes	03501	BETA, TOTAL	05/24/92-02/12/94	1	2	
GRCA0033	Yes	03501	BETA, TOTAL	06/09/92-02/12/94	1	2	
GRCA0058	Yes	03501	BETA, TOTAL	02/14/94-02/14/94	0	1	
GRCA0078	Yes	03501	BETA, TOTAL	10/15/92-02/15/94	1	2	
GRCA0080	Yes	03501	BETA, TOTAL	06/14/92-06/14/92	0	1	
GRCA0087	Yes	03501	BETA, TOTAL	06/14/92-10/16/92	0	2	
GRCA0088	Yes	03501	BETA, TOTAL	02/16/94-02/16/94	0	1	
GRCA0095	Yes	03501	BETA, TOTAL	02/16/94-02/16/94	0	1	
GRCA0098	Yes	03501	BETA, TOTAL	05/27/92-02/17/94	1	4	
GRCA0106	Yes	03501	BETA, TOTAL	05/27/92-02/17/94	1	3	
GRCA0119	Yes	03501	BETA, TOTAL	05/28/92-02/18/94	1	3	
GRCA0123	No	03501	BETA, TOTAL	06/19/92-10/22/92	0	2	
GRCA0136	No	03501	BETA, TOTAL	07/06/93-07/06/93	0	1	
GRCA0146	Yes	03501	BETA, TOTAL	07/06/93-02/20/94	0	2	
GRCA0001	No	03502	BETA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	7	315	A
GRCA0010	No	03502	BETA, TOTAL, COUNTING ERROR	05/19/70-01/11/71	0	9	
GRCA0013	No	03502	BETA, TOTAL, COUNTING ERROR	02/09/94-02/09/94	0	1	
GRCA0025	Yes	03502	BETA, TOTAL, COUNTING ERROR	06/10/92-10/12/92	0	2	
GRCA0030	Yes	03502	BETA, TOTAL, COUNTING ERROR	05/24/92-05/24/92	0	1	
GRCA0033	Yes	03502	BETA, TOTAL, COUNTING ERROR	06/09/92-06/09/92	0	1	
GRCA0078	Yes	03502	BETA, TOTAL, COUNTING ERROR	10/15/92-02/15/94	1	2	
GRCA0080	Yes	03502	BETA, TOTAL, COUNTING ERROR	06/14/92-06/14/92	0	1	
GRCA0087	Yes	03502	BETA, TOTAL, COUNTING ERROR	06/14/92-10/16/92	0	2	
GRCA0098	Yes	03502	BETA, TOTAL, COUNTING ERROR	05/27/92-10/18/92	0	3	
GRCA0106	Yes	03502	BETA, TOTAL, COUNTING ERROR	05/27/92-05/18/93	0	2	
GRCA0119	Yes	03502	BETA, TOTAL, COUNTING ERROR	05/28/92-05/18/93	0	2	
GRCA0123	No	03502	BETA, TOTAL, COUNTING ERROR	06/19/92-10/22/92	0	2	
GRCA0001	No	03503	BETA, DISSOLVED	11/23/59-09/22/69	9	400	A
GRCA0010	No	03503	BETA, DISSOLVED	05/19/70-01/11/71	0	9	
GRCA0001	No	03504	BETA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	7	315	A
GRCA0010	No	03504	BETA, DISSOLVED, COUNTING ERROR	05/19/70-01/11/71	0	9	
GRCA0001	No	03505	BETA, SUSPENDED	11/23/59-09/22/69	9	400	A
GRCA0010	No	03505	BETA, SUSPENDED	05/19/70-01/11/71	0	9	
GRCA0001	No	03506	BETA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	7	315	A
GRCA0010	No	03506	BETA, SUSPENDED, COUNTING ERROR	05/19/70-01/11/71	0	9	
GRCA0111	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	08/23/94-08/23/94	0	1	
GRCA0113	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	08/24/94-08/24/94	0	1	
GRCA0131	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/10/93-10/10/93	0	1	
GRCA0134	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/20/93-05/20/93	0	1	
GRCA0137	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/14/93-10/14/93	0	1	
GRCA0138	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/19/93-05/19/93	0	1	
GRCA0150	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/15/93-05/15/93	0	1	
GRCA0151	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/15/93-05/15/93	0	1	
GRCA0152	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/15/93-05/15/93	0	1	
GRCA0155	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/15/93-05/15/93	0	1	
GRCA0158	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/17/93-05/17/93	0	1	
GRCA0160	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/17/93-05/17/93	0	1	
GRCA0164	No	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	06/11/93-11/17/93	0	2	
GRCA0111	No	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	08/23/94-08/23/94	0	1	
GRCA0113	No	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	08/24/94-08/24/94	0	1	
GRCA0131	No	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	10/10/93-10/10/93	0	1	
GRCA0134	No	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/20/93-05/20/93	0	1	
GRCA0137	No	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	10/14/93-10/14/93	0	1	
GRCA0138	No	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/19/93-05/19/93	0	1	
GRCA0150	No	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/15/93-05/15/93	0	1	
GRCA0151	No	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/15/93-05/15/93	0	1	
GRCA0152	No	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/15/93-05/15/93	0	1	
GRCA0155	No	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/15/93-05/15/93	0	1	
GRCA0158	No	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/17/93-05/17/93	0	1	
GRCA0160	No	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/17/93-05/17/93	0	1	
GRCA0164	No	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	06/11/93-11/17/93	0	2	
GRCA0004	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/10/78-08/19/86	8	3	
GRCA0010	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	08/18/70-09/29/70	0	2	

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Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0111	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	08/23/94-08/23/94	0	1	
GRCA0113	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	08/24/94-08/24/94	0	1	
GRCA0131	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	10/10/93-10/10/93	0	1	
GRCA0134	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/20/93-05/20/93	0	1	
GRCA0137	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	10/14/93-10/14/93	0	1	
GRCA0138	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/19/93-05/19/93	0	1	
GRCA0150	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/15/93-05/15/93	0	1	
GRCA0151	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/15/93-05/15/93	0	1	
GRCA0152	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/15/93-05/15/93	0	1	
GRCA0155	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/15/93-05/15/93	0	1	
GRCA0158	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/17/93-05/17/93	0	1	
GRCA0160	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/17/93-05/17/93	0	1	
GRCA0164	No	07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	06/11/93-11/17/93	0	2	
GRCA0010	No	07001	TRITIUM,TOTAL,COUNTING ERROR (PICOCURIES/LITER)	08/18/70-09/29/70	0	2	
GRCA0010	No	07005	TRITIUM, DISSOLVED (PC/L)	10/19/70-10/19/70	0	1	
GRCA0010	No	07006	TRITIUM, DISSOLVED, COUNTING ERROR (PC/L)	10/19/70-10/19/70	0	1	
GRCA0004	No	09501	RADIUM 226, TOTAL	05/10/78-08/19/86	8	4	
GRCA0010	No	09503	RADIUM 226, DISSOLVED	05/06/63-06/27/72	9	100	
GRCA0010	No	09504	RADIUM 226, DISSOLVED, COUNTING ERROR	09/01/67-06/25/71	3	45	
GRCA0010	No	09505	RADIUM 226, SUSPENDED	01/01/69-01/01/69	0	1	
GRCA0010	No	09506	RADIUM 226, SUSPENDED, COUNTING ERROR	01/01/69-01/01/69	0	1	
GRCA0010	No	09507	RADIUM 226 IN SEDIMENT (PC/G OF DRY SOLIDS)	01/01/69-01/01/69	0	1	
GRCA0010	No	09508	RADIUM 226 IN SEDIMENT, COUNTING ERROR	01/01/69-01/01/69	0	1	
GRCA0012	No	09511	RADIUM 226, DISSOLVED, RADON METHOD	05/28/75-05/28/75	0	6	
GRCA0029	Yes	09511	RADIUM 226, DISSOLVED, RADON METHOD	04/29/76-04/29/76	0	1	
GRCA0031	Yes	09511	RADIUM 226, DISSOLVED, RADON METHOD	04/29/76-04/29/76	0	1	
GRCA0109	Yes	09511	RADIUM 226, DISSOLVED, RADON METHOD	05/07/76-05/07/76	0	1	
GRCA0114	Yes	09511	RADIUM 226, DISSOLVED, RADON METHOD	05/07/76-05/07/76	0	1	
GRCA0125	Yes	09511	RADIUM 226, DISSOLVED, RADON METHOD	05/08/76-05/08/76	0	1	
GRCA0131	No	09511	RADIUM 226, DISSOLVED, RADON METHOD	05/09/76-05/09/76	0	1	
GRCA0132	No	09511	RADIUM 226, DISSOLVED, RADON METHOD	05/09/76-05/09/76	0	1	
GRCA0143	No	09511	RADIUM 226, DISSOLVED, RADON METHOD	05/11/76-05/11/76	0	1	
GRCA0004	No	11501	RADIUM 228, TOTAL	10/21/81-08/19/86	4	2	
GRCA0001	No	13501	STRONTIUM 90, TOTAL	10/01/59-04/01/69	9	17	
GRCA0001	No	13502	STRONTIUM 90, TOTAL, COUNTING ERROR	01/01/65-04/01/69	4	3	
GRCA0001	No	13503	STRONTIUM 90, DISSOLVED	07/01/69-07/01/69	0	1	
GRCA0001	No	13504	STRONTIUM 90, DISSOLVED, COUNTING ERROR	07/01/69-07/01/69	0	1	
GRCA0001	No	15501	STRONTIUM 89, TOTAL	01/01/69-07/01/69	0	3	
GRCA0001	No	15502	STRONTIUM 89, TOTAL, COUNTING ERROR	01/01/69-07/01/69	0	3	
GRCA0111	No	22603	URANIUM 238, DISSOLVED, PC/L	08/23/94-08/23/94	0	1	
GRCA0113	No	22603	URANIUM 238, DISSOLVED, PC/L	08/24/94-08/24/94	0	1	
GRCA0131	No	22603	URANIUM 238, DISSOLVED, PC/L	10/10/93-10/10/93	0	1	
GRCA0137	No	22603	URANIUM 238, DISSOLVED, PC/L	10/14/93-10/14/93	0	1	
GRCA0164	No	22603	URANIUM 238, DISSOLVED, PC/L	11/17/93-11/17/93	0	1	
GRCA0111	No	22610	URANIUM 234, DISSOLVED, PC/L	08/23/94-08/23/94	0	1	
GRCA0113	No	22610	URANIUM 234, DISSOLVED, PC/L	08/24/94-08/24/94	0	1	
GRCA0131	No	22610	URANIUM 234, DISSOLVED, PC/L	10/10/93-10/10/93	0	1	
GRCA0137	No	22610	URANIUM 234, DISSOLVED, PC/L	10/14/93-10/14/93	0	1	
GRCA0164	No	22610	URANIUM 234, DISSOLVED, PC/L	11/17/93-11/17/93	0	1	
GRCA0111	No	22620	URANIUM 235, DISSOLVED. PC/L	08/23/94-08/23/94	0	1	
GRCA0113	No	22620	URANIUM 235, DISSOLVED. PC/L	08/24/94-08/24/94	0	1	
GRCA0131	No	22620	URANIUM 235, DISSOLVED. PC/L	10/10/93-10/10/93	0	1	
GRCA0137	No	22620	URANIUM 235, DISSOLVED. PC/L	10/14/93-10/14/93	0	1	
GRCA0164	No	22620	URANIUM 235, DISSOLVED. PC/L	11/17/93-11/17/93	0	1	
GRCA0004	No	22703	URANIUM, NATURAL, DISSOLVED	10/21/81-10/21/81	0	1	
GRCA0010	No	22703	URANIUM, NATURAL, DISSOLVED	05/06/63-05/12/72	9	100	
GRCA0031	Yes	22703	URANIUM, NATURAL, DISSOLVED	11/20/81-11/20/81	0	1	
GRCA0038	Yes	22703	URANIUM, NATURAL, DISSOLVED	11/20/81-11/20/81	0	1	
GRCA0040	Yes	22703	URANIUM, NATURAL, DISSOLVED	09/01/81-09/01/81	0	1	
GRCA0041	Yes	22703	URANIUM, NATURAL, DISSOLVED	09/01/81-09/01/81	0	1	
GRCA0043	Yes	22703	URANIUM, NATURAL, DISSOLVED	11/20/81-11/20/81	0	1	
GRCA0044	Yes	22703	URANIUM, NATURAL, DISSOLVED	09/02/81-09/02/81	0	1	
GRCA0047	Yes	22703	URANIUM, NATURAL, DISSOLVED	09/02/81-09/02/81	0	1	
GRCA0049	Yes	22703	URANIUM, NATURAL, DISSOLVED	09/02/81-09/02/81	0	1	
GRCA0053	Yes	22703	URANIUM, NATURAL, DISSOLVED	09/02/81-09/02/81	0	1	
GRCA0060	Yes	22703	URANIUM, NATURAL, DISSOLVED	09/02/81-09/02/81	0	1	
GRCA0062	Yes	22703	URANIUM, NATURAL, DISSOLVED	09/01/81-09/01/81	0	1	
GRCA0065	Yes	22703	URANIUM, NATURAL, DISSOLVED	09/01/81-09/01/81	0	1	
GRCA0066	Yes	22703	URANIUM, NATURAL, DISSOLVED	09/01/81-09/01/81	0	1	
GRCA0068	Yes	22703	URANIUM, NATURAL, DISSOLVED	09/01/81-09/01/81	0	1	
GRCA0071	Yes	22703	URANIUM, NATURAL, DISSOLVED	09/04/81-09/04/81	0	1	
GRCA0075	Yes	22703	URANIUM, NATURAL, DISSOLVED	09/04/81-09/04/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0081	Yes	22703	URANIUM, NATURAL, DISSOLVED	09/04/81-09/04/81	0	1	
GRCA0083	Yes	22703	URANIUM, NATURAL, DISSOLVED	09/04/81-09/04/81	0	1	
GRCA0086	Yes	22703	URANIUM, NATURAL, DISSOLVED	11/19/81-11/19/81	0	1	
GRCA0089	Yes	22703	URANIUM, NATURAL, DISSOLVED	11/19/81-11/19/81	0	1	
GRCA0094	Yes	22703	URANIUM, NATURAL, DISSOLVED	11/19/81-11/19/81	0	1	
GRCA0100	Yes	22703	URANIUM, NATURAL, DISSOLVED	11/18/81-11/18/81	0	1	
GRCA0104	Yes	22703	URANIUM, NATURAL, DISSOLVED	11/18/81-11/18/81	0	1	
GRCA0105	Yes	22703	URANIUM, NATURAL, DISSOLVED	11/18/81-11/18/81	0	1	
GRCA0111	No	22703	URANIUM, NATURAL, DISSOLVED	08/23/94-08/23/94	0	1	
GRCA0113	No	22703	URANIUM, NATURAL, DISSOLVED	08/24/94-08/24/94	0	1	
GRCA0131	No	22703	URANIUM, NATURAL, DISSOLVED	10/10/93-10/10/93	0	1	
GRCA0134	No	22703	URANIUM, NATURAL, DISSOLVED	05/20/93-05/20/93	0	1	
GRCA0137	No	22703	URANIUM, NATURAL, DISSOLVED	10/14/93-10/14/93	0	1	
GRCA0138	No	22703	URANIUM, NATURAL, DISSOLVED	05/19/93-05/19/93	0	1	
GRCA0150	No	22703	URANIUM, NATURAL, DISSOLVED	05/15/93-05/15/93	0	1	
GRCA0151	No	22703	URANIUM, NATURAL, DISSOLVED	05/15/93-05/15/93	0	1	
GRCA0152	No	22703	URANIUM, NATURAL, DISSOLVED	05/15/93-05/15/93	0	1	
GRCA0155	No	22703	URANIUM, NATURAL, DISSOLVED	05/15/93-05/15/93	0	1	
GRCA0158	No	22703	URANIUM, NATURAL, DISSOLVED	05/17/93-05/17/93	0	1	
GRCA0160	No	22703	URANIUM, NATURAL, DISSOLVED	05/17/93-05/17/93	0	1	
GRCA0164	No	22703	URANIUM, NATURAL, DISSOLVED	06/11/93-11/17/93	0	2	
GRCA0004	No	22708	URANIUM, NATURAL TOTAL MG/L	10/21/81-10/21/81	0	1	
GRCA0022	Yes	22708	URANIUM, NATURAL TOTAL MG/L	06/10/92-10/12/92	0	2	
GRCA0106	Yes	22708	URANIUM, NATURAL TOTAL MG/L	06/17/92-10/20/92	0	2	
GRCA0119	Yes	22708	URANIUM, NATURAL TOTAL MG/L	06/18/92-10/21/92	0	2	
GRCA0144	Yes	22708	URANIUM, NATURAL TOTAL MG/L	06/21/92-10/24/92	0	2	
GRCA0134	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/20/93-05/20/93	0	1	
GRCA0138	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/19/93-05/19/93	0	1	
GRCA0150	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/15/93-05/15/93	0	1	
GRCA0151	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/15/93-05/15/93	0	1	
GRCA0152	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/15/93-05/15/93	0	1	
GRCA0155	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/15/93-05/15/93	0	1	
GRCA0158	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/17/93-05/17/93	0	1	
GRCA0160	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/17/93-05/17/93	0	1	
GRCA0164	No	28011	URANIUM,NATURAL,TOTAL UG/L AS U	06/11/93-06/11/93	0	1	
GRCA0011	No	29804	BICARBONATE,WTR,DISS.,FIX ENDPT,FIELD,AS HCO3,MG/L	01/16/92-03/19/92	0	2	
GRCA0001	No	30004	FENSULFOTHION, WATER, WHOLE, RECOVERABLE UG/L	08/15/70-11/16/70	0	4	
GRCA0001	No	30205	TEMPERATURE, WOOD (FIRE POTENTIAL) DEG F	10/23/68-10/23/68	0	1	
GRCA0011	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/19/74-08/27/74	0	6	
GRCA0012	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	05/24/74-06/25/74	0	3	
GRCA0001	No	31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/23/59-05/25/66	6	242	
GRCA0004	No	31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/12/78-08/15/79	1	7	
GRCA0004	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	05/10/78-08/15/79	1	6	
GRCA0005	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/01/93-08/02/93	0	6	
GRCA0011	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/19/74-09/20/76	2	21	
GRCA0012	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/24/74-09/15/77	3	4	
GRCA0013	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/92-09/29/93	1	5	
GRCA0017	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/14/77-09/14/77	0	1	
GRCA0022	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/10/92-10/09/94	2	8	
GRCA0025	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/13/94-10/15/95	1	5	
GRCA0027	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/05/94-10/14/95	1	6	
GRCA0028	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/07/94-10/07/94	0	1	
GRCA0030	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/08/92-10/13/95	3	9	
GRCA0033	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/09/92-10/14/95	3	12	
GRCA0036	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/95-06/17/95	0	1	
GRCA0039	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/09/92-10/14/95	3	7	
GRCA0052	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/11/92-10/16/95	3	9	
GRCA0058	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/11/92-08/02/95	3	9	
GRCA0076	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/14/92-10/18/95	3	7	
GRCA0078	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/92-10/18/95	3	10	
GRCA0080	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/14/92-06/14/92	0	1	
GRCA0087	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/08/93-10/19/95	2	8	
GRCA0088	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/15/92-08/03/95	3	9	
GRCA0093	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/16/92-08/04/95	3	9	
GRCA0095	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/15/92-10/19/95	3	11	
GRCA0096	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/19/92-10/16/94	1	2	
GRCA0098	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/16/92-10/21/95	3	11	
GRCA0103	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/92-10/21/95	3	8	
GRCA0106	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/92-10/21/95	3	11	
GRCA0110	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/18/92-10/22/95	3	7	
GRCA0115	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/22/95-10/22/95	0	1	
GRCA0116	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/22/95-10/22/95	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0119	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/18/92-06/23/95	3	8	
GRCA0123	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/92-06/23/95	3	8	
GRCA0130	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/92-10/23/95	3	8	
GRCA0136	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/21/92-10/25/95	3	8	
GRCA0146	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/06/93-10/24/95	2	9	
GRCA0011	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	18	126	
GRCA0012	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/15/77-10/17/79	2	25	
GRCA0017	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/14/77-10/17/79	2	24	
GRCA0031	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/20/81-11/20/81	0	1	
GRCA0038	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/20/81-11/20/81	0	1	
GRCA0040	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	0	1	
GRCA0041	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	0	1	
GRCA0043	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/20/81-11/20/81	0	1	
GRCA0044	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/02/81-09/02/81	0	1	
GRCA0047	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/02/81-09/02/81	0	1	
GRCA0049	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/02/81-09/02/81	0	1	
GRCA0053	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/02/81-09/02/81	0	1	
GRCA0060	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/02/81-09/02/81	0	1	
GRCA0062	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	0	1	
GRCA0065	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	0	1	
GRCA0066	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	0	1	
GRCA0068	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	0	1	
GRCA0071	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/04/81-09/04/81	0	1	
GRCA0086	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/19/81-11/19/81	0	1	
GRCA0089	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/19/81-11/19/81	0	1	
GRCA0094	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/19/81-11/19/81	0	1	
GRCA0100	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/18/81-11/18/81	0	1	
GRCA0104	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/18/81-11/18/81	0	1	
GRCA0105	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/18/81-11/18/81	0	1	
GRCA0111	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/23/94-08/23/94	0	1	
GRCA0113	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/24/94-08/24/94	0	1	
GRCA0131	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	06/02/91-06/02/91	0	1	
GRCA0148	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/11/90-07/11/90	0	1	
GRCA0103	Yes	31648	E. COLI - MTEC-MF N0/100ML	10/12/93-10/12/93	0	1	
GRCA0131	No	31648	E. COLI - MTEC-MF N0/100ML	06/02/91-06/02/91	0	1	
GRCA0011	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	02/03/77-09/21/95	18	120	
GRCA0012	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/15/77-11/15/79	2	24	
GRCA0013	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/06/92-09/29/93	1	5	
GRCA0017	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/14/77-11/15/79	2	24	
GRCA0022	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/10/92-10/09/94	2	8	
GRCA0025	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	02/13/94-10/15/95	1	5	
GRCA0027	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/05/94-10/14/95	1	6	
GRCA0028	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/07/94-10/07/94	0	1	
GRCA0030	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/08/92-10/13/95	3	9	
GRCA0031	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/20/81-11/20/81	0	1	
GRCA0033	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/09/92-10/14/95	3	12	
GRCA0036	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/17/95-06/17/95	0	1	
GRCA0038	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/20/81-11/20/81	0	1	
GRCA0039	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/09/92-10/14/95	3	7	
GRCA0040	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	0	1	
GRCA0041	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	0	1	
GRCA0043	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/20/81-11/20/81	0	1	
GRCA0044	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/02/81-09/02/81	0	1	
GRCA0047	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/02/81-09/02/81	0	1	
GRCA0049	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/02/81-09/02/81	0	1	
GRCA0052	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/11/92-10/16/95	3	9	
GRCA0053	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/02/81-09/02/81	0	1	
GRCA0058	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/11/92-08/02/95	3	9	
GRCA0060	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/02/81-09/02/81	0	1	
GRCA0062	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	0	1	
GRCA0065	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	0	1	
GRCA0066	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	0	1	
GRCA0068	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	0	1	
GRCA0071	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/04/81-09/04/81	0	1	
GRCA0075	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/04/81-09/04/81	0	1	
GRCA0076	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/15/92-10/18/95	3	6	
GRCA0078	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/15/92-10/18/95	3	10	
GRCA0080	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/14/92-06/14/92	0	1	
GRCA0081	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/04/81-09/04/81	0	1	
GRCA0083	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/04/81-09/04/81	0	1	
GRCA0086	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/19/81-11/19/81	0	1	
GRCA0087	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/08/93-10/19/95	2	8	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0088	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/15/92-08/03/95	3	9	
GRCA0089	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/19/81-11/19/81	0	1	
GRCA0093	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/16/92-08/04/95	3	9	
GRCA0094	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/19/81-11/19/81	0	1	
GRCA0095	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/15/92-10/19/95	3	11	
GRCA0096	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/19/92-10/16/94	1	2	
GRCA0098	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/16/92-10/21/95	3	10	
GRCA0100	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/18/81-11/18/81	0	1	
GRCA0103	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/17/92-10/21/95	3	9	
GRCA0104	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/18/81-11/18/81	0	1	
GRCA0105	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/18/81-11/18/81	0	1	
GRCA0106	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/17/92-10/21/95	3	11	
GRCA0110	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/18/92-10/22/95	3	7	
GRCA0111	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/23/94-08/23/94	0	1	
GRCA0113	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/24/94-08/24/94	0	1	
GRCA0115	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/22/95-10/22/95	0	1	
GRCA0116	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/22/95-10/22/95	0	1	
GRCA0119	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/18/92-06/23/95	3	9	
GRCA0123	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/19/92-06/23/95	3	8	
GRCA0130	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/19/92-10/23/95	3	8	
GRCA0136	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/24/92-10/25/95	3	8	
GRCA0146	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/06/93-10/24/95	2	9	
GRCA0148	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/11/90-07/11/90	0	1	
GRCA0011	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	03/19/74-09/20/76	2	21	
GRCA0012	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	05/24/74-08/15/78	4	5	
GRCA0017	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	09/14/77-09/14/77	0	1	
GRCA0001	No	32000	SAMPLE SIZE (LITERS)	11/15/67-02/17/71	3	24	
GRCA0001	No	32001	SAMPLE SIZE (GALLONS)	11/30/59-02/17/71	11	56	
GRCA0001	No	32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	11/30/59-02/17/71	11	62	
GRCA0001	No	32004	CARBON ALCOHOL EXTRACTABLES	11/30/59-02/17/71	11	58	
GRCA0001	No	32005	CARBON CHLOROFORM EXTRACTABLES	11/30/59-02/17/71	11	62	
GRCA0001	No	32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	11/30/59-12/07/61	2	17	
GRCA0001	No	32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	11/30/59-12/07/61	2	17	
GRCA0001	No	32023	ACIDS, STRONG	11/30/59-12/07/61	2	17	
GRCA0001	No	32024	ACIDS, WEAK	11/30/59-12/07/61	2	17	
GRCA0001	No	32025	BASES	11/30/59-12/07/61	2	17	
GRCA0001	No	32026	NEUTRALS, TOTAL	11/30/59-12/07/61	2	17	
GRCA0001	No	32027	ALIPHATICS FRACTION OF NEUTRALS	11/30/59-12/07/61	2	17	
GRCA0001	No	32028	AROMATICS FRACTION OF NEUTRALS	11/30/59-12/07/61	2	17	
GRCA0001	No	32029	OXYGENATED COMPOUNDS FRACTION OF NEUTRALS	11/30/59-12/07/61	2	17	
GRCA0008	No	32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	32103	1,2-DICHLOROETHANE,WHOLE WATER,UG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	32104	BROMOFORM,WHOLE WATER,UG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	32106	CHLOROFORM,WHOLE WATER,UG/L	08/29/80-08/29/80	0	1	
GRCA0165	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	02/24/75-11/21/75	0	3	
GRCA0011	No	32226	CHLOROPHYLL B, PERIPHYTON, SPECTRO, MG/M2	12/30/74-07/26/76	1	5	
GRCA0011	No	32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	12/30/74-07/26/76	1	5	
GRCA0008	No	34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	08/29/80-08/29/80	0	1	
GRCA0008	No	34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	08/29/80-08/29/80	0	1	
GRCA0008	No	34200	ACENAPHTHYLENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34204	ACENAPHTHYLENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34205	ACENAPHTHENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34208	ACENAPHTHENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34209	ACENAPHTHENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34210	ACROLEIN TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34213	ACROLEIN DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34213	ACROLEIN DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34214	ACROLEIN WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34215	ACRYLONITRILE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34218	ACRYLONITRILE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34218	ACRYLONITRILE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34219	ACRYLONITRILE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34220	ANTHRACENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34223	ANTHRACENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34224	ANTHRACENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34234	BENZO(B)FLUORANTHENE,TISSUE,WET WGT,MG/KG	08/29/80-08/29/80	0	1	
GRCA0007	No	34237	BENZENE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	

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Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0008	No	34237	BENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34238	BENZENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34241	BENZIDINE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34247	BENZO-A-PYRENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34251	BENZO-A-PYRENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34252	BERYLLIUM WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0007	No	34257	B-BHC-BETA DRY WGTBOTUG/KG	06/02/81-06/02/81	0	1	
GRCA0008	No	34257	B-BHC-BETA DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34258	B-BHC-BETA WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	06/02/81-06/02/81	0	1	
GRCA0008	No	34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0007	No	34271	BIS (CHLOROMETHYL) ETHER DRY WGTBOTUG/KG	06/02/81-06/02/81	0	1	
GRCA0008	No	34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0007	No	34290	BROMOFORM DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34290	BROMOFORM DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34291	BROMOFORM WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34296	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG	08/29/80-08/29/80	0	1	
GRCA0007	No	34299	CARBON TETRACHLORIDE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34299	CARBON TETRACHLORIDE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34300	CARBON TETRACHLORIDE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34301	CHLOROBENZENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34304	CHLOROBENZENE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34304	CHLOROBENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34305	CHLOROBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0007	No	34309	CHLORODIBROMOMETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34309	CHLORODIBROMOMETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34310	CHLORODIBROMOMETHANE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34311	CHLOROETHANE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34314	CHLOROETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34314	CHLOROETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34315	CHLOROETHANE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0007	No	34318	CHLOROFORM DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34318	CHLOROFORM DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34319	CHLOROFORM WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34320	CHRYSENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34323	CHRYSENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34324	CHRYSENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0007	No	34330	DICHLOROBROMOMETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34330	DICHLOROBROMOMETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34331	DICHLOROBROMOMETHANE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34335	DICHLORODIFLUOROMETHANE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34336	DIETHYL PHTHALATE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34340	DIETHYL PHTHALATE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34341	DIMETHYL PHTHALATE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34350	1,2-DIPHENYLHYDRAZINE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34351	ENDOSULFAN SULFATE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	06/02/81-06/02/81	0	1	
GRCA0008	No	34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34356	ENDOSULFAN, BETA TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	06/02/81-06/02/81	0	1	

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Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0008	No	34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34360	ENDOSULFAN, BETA WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34361	ENDOSULFAN, ALPHA TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	06/02/81-06/02/81	0	1	
GRCA0008	No	34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34366	ENDRIN ALDEHYDE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34371	ETHYLBENZENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34374	ETHYLBENZENE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34374	ETHYLBENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34375	ETHYLBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34376	FLUORANTHENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34379	FLUORANTHENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34380	FLUORANTHENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34381	FLUORENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34384	FLUORENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34385	FLUORENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34390	HEXACHLOROCYCLOPENTADIENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34391	HEXACHLOROBUTADIENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34396	HEXACHLOROETHANE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34400	HEXACHLOROETHANE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34407	INDENO (1,2,3-CD) PYRENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34408	ISOPHORONE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34411	ISOPHORONE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34412	ISOPHORONE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34413	METHYL BROMIDE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34416	METHYL BROMIDE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34416	METHYL BROMIDE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34417	METHYL BROMIDE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34418	METHYL CHLORIDE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34421	METHYL CHLORIDE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34421	METHYL CHLORIDE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34422	METHYL CHLORIDE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34423	METHYLENE CHLORIDE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34426	METHYLENE CHLORIDE DRY WGTBOTUG/KG	05/07/81-05/07/81	0	2	
GRCA0008	No	34426	METHYLENE CHLORIDE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34428	N-NITROSODI-N-PROPYLAMINE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34431	N-NITROSODI-N-PROPYLAMINE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34432	N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34433	N-NITROSODIPHENYLAMINE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34437	N-NITROSODIPHENYLAMINE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34438	N-NITROSODIMETHYLAMINE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34441	N-NITROSODIMETHYLAMINE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34442	N-NITROSODIMETHYLAMINE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34445	NAPHTHALENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34446	NAPHTHALENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34447	NITROBENZENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34450	NITROBENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34451	NITROBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34452	PARACHLOROMETA CRESOL TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34456	PARACHLOROMETA CRESOL WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34461	PHENANTHRENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34464	PHENANTHRENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34465	PHENANTHRENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34468	PHENOL WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34469	PYRENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34472	PYRENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34473	PYRENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34475	TETRACHLOROETHYLENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34478	TETRACHLOROETHYLENE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34478	TETRACHLOROETHYLENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34479	TETRACHLOROETHYLENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0007	No	34480	THALLIUM DRY WGTBOTMG/KG	06/02/81-06/02/81	0	1	
GRCA0007	No	34483	TOLUENE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34483	TOLUENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34484	TOLUENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0007	No	34487	TRICHLOROETHYLENE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34487	TRICHLOROETHYLENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34488	TRICHLOROFLUOROMETHANE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34491	TRICHLOROFLUOROMETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34491	TRICHLOROFLUOROMETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34492	TRICHLOROFLUOROMETHANE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0007	No	34495	VINYL CHLORIDE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34495	VINYL CHLORIDE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34496	1,1-DICHLOROETHANE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34499	1,1-DICHLOROETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34499	1,1-DICHLOROETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34500	1,1-DICHLOROETHANE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34501	1,1-DICHLOROETHYLENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34504	1,1-DICHLOROETHYLENE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34504	1,1-DICHLOROETHYLENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34505	1,1-DICHLOROETHYLENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34506	1,1,1-TRICHLOROETHANE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34509	1,1,1-TRICHLOROETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34509	1,1,1-TRICHLOROETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34510	1,1,1-TRICHLOROETHANE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34511	1,1,2-TRICHLOROETHANE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34514	1,1,2-TRICHLOROETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34514	1,1,2-TRICHLOROETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34515	1,1,2-TRICHLOROETHANE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34519	1,1,2,2-TETRACHLOROETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34519	1,1,2,2-TETRACHLOROETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34520	1,1,2,2-TETRACHLOROETHANE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34525	BENZO(GHI)PERYLENE1,12-BENZOPERYLENWET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0007	No	34534	1,2-DICHLOROETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34534	1,2-DICHLOROETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34535	1,2-DICHLOROETHANE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34536	1,2-DICHLOROBENZENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34540	1,2-DICHLOROBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34541	1,2-DICHLOROPROPANE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34544	1,2-DICHLOROPROPANE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34544	1,2-DICHLOROPROPANE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34545	1,2-DICHLOROPROPANE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34549	TRANS-1,2-DICHLOROETHENE, IN SED. DRY WT. UG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34549	TRANS-1,2-DICHLOROETHENE, IN SED. DRY WT. UG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34550	TRANS-1,2-DICHLOROETHENE, IN TISSUE, WET WT. MG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34554	1,2,4-TRICHLOROBENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34560	1,2,5,6-DIBENZANTHRACENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34561	1,3-DICHLOROPROPENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34564	1,3-DICHLOROPROPENE DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34565	1,3-DICHLOROPROPENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34566	1,3-DICHLOROBENZENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34570	1,3-DICHLOROBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34571	1,4-DICHLOROBENZENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34574	1,4-DICHLOROBENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34575	1,4-DICHLOROBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34579	2-CHLOROETHYL VINYL ETHER DRY WGTBOTUG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34579	2-CHLOROETHYL VINYL ETHER DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34580	2-CHLOROETHYL VINYL ETHER WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34581	2-CHLORONAPHTHALENE TOTWUG/L	08/29/80-08/29/80	0	1	

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

Station/Parameter Period of Record Tabulation
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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0008	No	34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34585	2-CHLORONAPHTHALENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34586	2-CHLOROPHENOL TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34590	2-CHLOROPHENOL WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34591	2-NITROPHENOL TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34594	2-NITROPHENOL DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34595	2-NITROPHENOL WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34596	DI-N-OCTYL PHTHALATE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34600	DI-N-OCTYL PHTHALATE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34601	2,4-DICHLOROPHENOL TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34605	2,4-DICHLOROPHENOL WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34606	2,4-DIMETHYLPHENOL TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34610	2,4-DIMETHYLPHENOL WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34611	2,4-DINITROTOLUENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34614	2,4-DINITROTOLUENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34615	2,4-DINITROTOLUENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34616	2,4-DINITROPHENOL TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34620	2,4-DINITROPHENOL WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34625	2,4,6-TRICHLOROPHENOL WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34626	2,6-DINITROTOLUENE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34630	2,6-DINITROTOLUENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34635	3,3'-DICHLOROBENZIDINE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34640	4-BROMOPHENYL PHENYL ETHER WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34645	4-CHLOROPHENYL PHENYL ETHER WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34646	4-NITROPHENOL TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34649	4-NITROPHENOL DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34650	4-NITROPHENOL WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34661	DNOC (4,6-DINITRO-ORTHO-CRESOL) WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34664	PCB - 1221 WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34667	PCB - 1232 WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34669	PCB - 1248 WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34670	PCB - 1260 WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34671	PCB - 1016 TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34674	PCB - 1016 WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34683	DI-N-BUTYL PHTHALATE,TISSUE,WET WGTWET WGT	08/29/80-08/29/80	0	1	
GRCA0008	No	34685	ENDRIN WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34687	HEPTACHLOR WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34689	PCB - 1242 WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34690	PCB - 1254 WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34691	TOXAPHENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34692	TRICHLOROETHYLENE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34693	VINYL CHLORIDE WET WGTTISMG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTTUG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	34702	CIS-1,3-DICHLOROPROPENE SEDIMENT DRY WEIGHT UG/KG	05/07/81-06/02/81	0	3	
GRCA0008	No	34703	CIS-1,3-DICHLOROPROPENE FISH TISSUE WET WGT MG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	08/29/80-08/29/80	0	1	
GRCA0001	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	03/02/64-09/30/68	4	42	
GRCA0004	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	05/10/78-05/16/79	1	4	
GRCA0011	No	39025	SIMAZINE,COULSON CONDUCTIVITY,WATER SAMPLE(UG/L)	09/03/76-05/03/78	1	4	
GRCA0008	No	39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	08/29/80-08/29/80	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0011	No	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	03/02/82-03/02/82	0	1	
GRCA0002	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	10/05/89-10/10/89	0	6	
GRCA0011	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	10/12/88-09/21/95	6	49	
GRCA0055	Yes	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	10/06/89-10/11/89	0	8	
GRCA0111	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	08/23/94-08/23/94	0	1	
GRCA0113	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	08/24/94-08/24/94	0	1	
GRCA0122	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/10/90-05/10/90	0	1	
GRCA0124	Yes	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	10/07/89-10/11/89	0	5	
GRCA0127	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	04/23/93-04/23/93	0	1	
GRCA0131	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	07/14/91-01/23/92	0	2	
GRCA0137	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/11/90-05/11/90	0	1	
GRCA0147	Yes	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	10/08/89-10/12/89	0	8	
GRCA0148	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/14/90-02/11/91	0	3	
GRCA0150	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	08/22/91-08/22/91	0	1	
GRCA0152	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	08/23/91-08/23/91	0	1	
GRCA0153	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	08/23/91-08/23/91	0	1	
GRCA0154	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	08/23/91-08/23/91	0	1	
GRCA0157	No	39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	08/24/91-08/24/91	0	1	
GRCA0011	No	39046	SIMAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	05/03/77-05/03/77	0	1	
GRCA0008	No	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	08/29/80-08/29/80	0	1	
GRCA0008	No	39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	08/29/80-08/29/80	0	1	
GRCA0007	No	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	06/02/81-06/02/81	0	1	
GRCA0008	No	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	08/29/80-08/29/80	0	1	
GRCA0002	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/05/89-10/10/89	0	6	
GRCA0011	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/24/86-09/21/95	8	73	
GRCA0055	Yes	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	12/08/86-10/11/89	2	9	
GRCA0111	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	08/23/94-08/23/94	0	1	
GRCA0113	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	08/24/94-08/24/94	0	1	
GRCA0122	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/10/90-04/01/92	1	2	
GRCA0124	Yes	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/07/89-10/11/89	0	5	
GRCA0127	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	04/23/93-04/23/93	0	1	
GRCA0131	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	04/11/90-10/10/93	3	4	
GRCA0133	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	01/23/92-01/23/92	0	1	
GRCA0134	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/20/93-05/20/93	0	1	
GRCA0137	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/11/90-10/14/93	3	2	
GRCA0138	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/19/93-05/19/93	0	1	
GRCA0139	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/13/93-10/13/93	0	1	
GRCA0140	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/25/92-10/25/92	0	1	
GRCA0142	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/13/93-10/13/93	0	1	
GRCA0147	Yes	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/08/89-10/12/89	0	8	
GRCA0148	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/14/90-04/05/92	1	5	
GRCA0150	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	08/22/91-05/15/93	1	2	
GRCA0151	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/15/93-05/15/93	0	1	
GRCA0152	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	08/23/91-05/15/93	1	2	
GRCA0153	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	08/23/91-08/23/91	0	1	
GRCA0154	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	08/23/91-08/23/91	0	1	
GRCA0155	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/15/93-05/15/93	0	1	
GRCA0157	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	08/24/91-08/24/91	0	1	
GRCA0158	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/17/93-05/17/93	0	1	
GRCA0160	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/17/93-05/17/93	0	1	
GRCA0164	No	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	06/11/93-11/17/93	0	2	
GRCA0008	No	39099	BIS(2-ETHYLHEXYL)PHTHALATE,TISSUE,WET WGT,MG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	08/29/80-08/29/80	0	1	
GRCA0008	No	39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	08/29/80-08/29/80	0	1	
GRCA0008	No	39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	08/29/80-08/29/80	0	1	
GRCA0011	No	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	03/02/82-03/02/82	0	1	
GRCA0011	No	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/05/81-11/05/81	0	1	
GRCA0008	No	39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	08/29/80-08/29/80	0	1	
GRCA0008	No	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/29/80-08/29/80	0	1	
GRCA0008	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	08/29/80-08/29/80	0	1	
GRCA0007	No	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/02/81-06/02/81	0	1	
GRCA0004	No	39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	0	1	
GRCA0008	No	39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	08/29/80-08/29/80	0	1	
GRCA0007	No	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/02/81-06/02/81	0	1	
GRCA0008	No	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/29/80-08/29/80	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0008	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	08/29/80-08/29/80	0	1	
GRCA0007	No	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/02/81-06/02/81	0	1	
GRCA0004	No	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	09/04/85-08/19/86	0	2	
GRCA0008	No	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	08/29/80-08/29/80	0	1	
GRCA0007	No	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/02/81-06/02/81	0	1	
GRCA0008	No	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/29/80-08/29/80	0	1	
GRCA0008	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	08/29/80-08/29/80	0	1	
GRCA0007	No	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	06/02/81-06/02/81	0	1	
GRCA0001	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	7	7	
GRCA0004	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	0	1	
GRCA0011	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0007	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/02/81-06/02/81	0	1	
GRCA0008	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/29/80-08/29/80	0	1	
GRCA0011	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/05/81	5	5	
GRCA0008	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	08/29/80-08/29/80	0	1	
GRCA0004	No	39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	08/19/86-08/19/86	0	1	
GRCA0008	No	39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	08/29/80-08/29/80	0	1	
GRCA0001	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/06/60-09/29/67	7	7	
GRCA0011	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	05/24/76-03/02/82	5	15	
GRCA0007	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	06/02/81-06/02/81	0	1	
GRCA0008	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/29/80-08/29/80	0	1	
GRCA0011	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	05/24/76-11/05/81	5	5	
GRCA0001	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/13/66-09/13/66	0	1	
GRCA0004	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	08/19/86-08/19/86	0	1	
GRCA0011	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	05/24/76-03/02/82	5	15	
GRCA0007	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	06/02/81-06/02/81	0	1	
GRCA0008	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/29/80-08/29/80	0	1	
GRCA0011	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	05/24/76-11/05/81	5	5	
GRCA0001	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	7	7	
GRCA0011	No	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0011	No	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/05/81	5	5	
GRCA0001	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	7	7	
GRCA0011	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0011	No	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/05/81	5	5	
GRCA0001	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	7	7	
GRCA0004	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	0	1	
GRCA0011	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0011	No	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/05/81	5	5	
GRCA0001	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	7	7	
GRCA0004	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	0	1	
GRCA0011	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0007	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/02/81-06/02/81	0	1	
GRCA0008	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/29/80-08/29/80	0	1	
GRCA0011	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	05/24/76-11/05/81	5	5	
GRCA0004	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	0	1	
GRCA0011	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	03/02/82-03/02/82	0	1	
GRCA0007	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/02/81-06/02/81	0	1	
GRCA0011	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/05/81-11/05/81	0	1	
GRCA0001	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	7	7	
GRCA0004	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/04/85-09/04/85	0	1	
GRCA0011	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0007	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/02/81-06/02/81	0	1	
GRCA0008	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/29/80-08/29/80	0	1	
GRCA0011	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/05/81	5	5	
GRCA0011	No	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0011	No	39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/24/76-11/16/78	2	4	
GRCA0004	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	09/04/85-08/19/86	0	2	
GRCA0011	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0007	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/02/81-06/02/81	0	1	
GRCA0008	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/29/80-08/29/80	0	1	
GRCA0011	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	05/24/76-11/05/81	5	5	
GRCA0008	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	08/29/80-08/29/80	0	1	
GRCA0001	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	7	7	
GRCA0004	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	0	1	
GRCA0011	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0007	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	06/02/81-06/02/81	0	1	
GRCA0008	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/29/80-08/29/80	0	1	
GRCA0011	No	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/05/81	5	5	
GRCA0001	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	7	7	
GRCA0004	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	0	1	
GRCA0011	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0007	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	06/02/81-06/02/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0008	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/29/80-08/29/80	0	1	
GRCA0011	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	05/24/76-11/05/81	5	5	
GRCA0004	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	09/04/85-09/04/85	0	1	
GRCA0011	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0007	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	06/02/81-06/02/81	0	1	
GRCA0011	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	05/24/76-11/05/81	5	5	
GRCA0008	No	39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	06/02/81-06/02/81	0	1	
GRCA0008	No	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	08/29/80-08/29/80	0	1	
GRCA0008	No	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	06/02/81-06/02/81	0	1	
GRCA0008	No	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/02/81-06/02/81	0	1	
GRCA0008	No	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/29/80-08/29/80	0	1	
GRCA0008	No	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/02/81-06/02/81	0	1	
GRCA0008	No	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/29/80-08/29/80	0	1	
GRCA0004	No	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	09/04/85-09/04/85	0	1	
GRCA0008	No	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	08/29/80-08/29/80	0	1	
GRCA0007	No	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/02/81-06/02/81	0	1	
GRCA0008	No	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/29/80-08/29/80	0	1	
GRCA0007	No	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	06/02/81-06/02/81	0	1	
GRCA0008	No	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	08/29/80-08/29/80	0	1	
GRCA0011	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	02/02/78-03/02/82	4	11	
GRCA0011	No	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/03/78-11/05/81	3	2	
GRCA0011	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0011	No	39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/16/78	2	4	
GRCA0011	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0011	No	39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/16/78	2	4	
GRCA0004	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	0	1	
GRCA0011	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0011	No	39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/16/78	2	4	
GRCA0011	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0011	No	39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	05/24/76-11/16/78	2	4	
GRCA0011	No	39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	05/24/76-05/03/78	1	5	
GRCA0011	No	39631	ATRAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	05/03/77-05/03/77	0	1	
GRCA0008	No	39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	08/29/80-08/29/80	0	1	
GRCA0008	No	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	08/29/80-08/29/80	0	1	
GRCA0008	No	39705	HEXACHLOROBUTADIENE BOT. DEPOS.(UG/KG DRY WGT)	08/29/80-08/29/80	0	1	
GRCA0011	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	8	
GRCA0011	No	39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/03/77-05/03/78	1	2	
GRCA0011	No	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	8	
GRCA0011	No	39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/03/77-05/03/78	1	2	
GRCA0011	No	39755	MIREX, TOTAL (UG/L)	03/02/82-03/02/82	0	1	
GRCA0011	No	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/05/81-11/05/81	0	1	
GRCA0004	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/04/85-08/19/86	0	2	
GRCA0011	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	8	
GRCA0011	No	39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/03/77-05/03/78	1	2	
GRCA0004	No	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	09/04/85-09/04/85	0	1	
GRCA0008	No	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	08/29/80-08/29/80	0	1	
GRCA0011	No	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0011	No	39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/24/76-11/16/78	2	4	
GRCA0011	No	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	5	15	
GRCA0011	No	39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	05/24/76-11/16/78	2	4	
GRCA0005	No	50040	ELEVATION OF WATER LEVEL WITH REF.TO MEAN SEA L FT	06/01/93-08/02/93	0	6	
GRCA0001	No	60050	ALGAE, TOTAL (CELLS/ML)	10/02/61-11/04/68	7	102	
GRCA0011	No	60050	ALGAE, TOTAL (CELLS/ML)	08/30/75-08/03/81	5	26	
GRCA0001	No	60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	7	102	
GRCA0001	No	60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	7	102	
GRCA0001	No	60200	ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/04/68	7	102	
GRCA0001	No	60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/04/68	7	102	
GRCA0001	No	60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-09/30/68	6	101	
GRCA0001	No	60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-09/30/68	6	101	
GRCA0001	No	60390	DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	12/02/61-05/02/67	5	63	
GRCA0001	No	60391	DIATOMS,PERCENT OF TOTAL,SECOND DOMINANT SPECIES	11/04/66-11/04/66	0	1	
GRCA0001	No	60392	DIATOMS,PERCENT OF TOTAL,THIRD DOMINANT SPECIES	11/04/66-11/04/66	0	1	
GRCA0001	No	60394	DIATOMS,PERCENT OF TOTAL,ALL OTHER SPECIES	10/03/66-05/02/67	0	3	
GRCA0001	No	60400	DIATOMS, CENTRIC (/ML)	10/02/61-09/09/68	6	100	
GRCA0001	No	60600	DIATOMS, PENNATE (/ML)	10/02/61-09/30/68	6	101	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0001	No	60610	DIATOM, INERT SHELLS - CENTRIC (/ML)	10/03/66-09/30/68	1	15	
GRCA0001	No	60620	DIATOM, INERT SHELLS - PENNATE (/ML)	10/03/66-11/04/68	2	16	
GRCA0001	No	60820	PROTOZOA, TOTAL (/ML)	10/02/61-04/01/63	1	25	
GRCA0001	No	60850	ROTIFERS, TOTAL (/LITER)	10/02/61-04/15/63	1	27	
GRCA0001	No	60900	CRUSTACEA, TOTAL (/LITER)	10/02/61-04/15/63	1	27	
GRCA0001	No	60950	NEMATODES, TOTAL (/LITER)	10/02/61-04/15/63	1	26	
GRCA0001	No	60990	ZOOPLANKTON OTHER (/LITER)	10/02/61-04/15/63	1	26	
GRCA0001	No	61390	DIATOMS,FIRST DOMINANT SPECIES OF UNITS - CODE	10/03/66-05/02/67	0	3	
GRCA0001	No	61391	DIATOMS,SECOND DOMINANT SPECIES OF UNITS - CODE	11/04/66-11/04/66	0	1	
GRCA0001	No	61392	DIATOMS,THIRD DOMINANT SPECIES OF UNITS - CODE	11/04/66-11/04/66	0	1	
GRCA0001	No	63400	INVALID	09/30/68-09/30/68	0	1	
GRCA0002	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/05/89-10/10/89	0	6	
GRCA0003	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/01/93-09/22/94	0	7	
GRCA0004	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/10/78-11/12/86	8	41	
GRCA0006	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/04/76-08/04/76	0	1	
GRCA0011	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	47	784	T,A,S
GRCA0012	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-11/15/79	32	91	
GRCA0017	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/77-11/15/79	2	23	
GRCA0019	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/06/76-08/06/76	0	1	
GRCA0020	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/18/79-07/18/79	0	1	
GRCA0021	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/04/76-08/04/76	0	1	
GRCA0031	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/20/81-11/20/81	0	1	
GRCA0032	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/20/65-06/20/65	0	1	
GRCA0038	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/20/81-11/20/81	0	1	
GRCA0040	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/01/81-09/01/81	0	1	
GRCA0041	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/01/81-09/01/81	0	1	
GRCA0043	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/20/81-11/20/81	0	1	
GRCA0044	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/02/81-09/02/81	0	1	
GRCA0047	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/02/81-09/02/81	0	1	
GRCA0049	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/02/81-09/02/81	0	1	
GRCA0053	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/02/81-09/02/81	0	1	
GRCA0055	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	53	878	S
GRCA0060	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/05/72-09/02/81	8	19	
GRCA0062	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/01/81-09/01/81	0	1	
GRCA0065	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/01/81-09/01/81	0	1	
GRCA0066	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/01/81-09/01/81	0	1	
GRCA0068	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/01/81-09/01/81	0	1	
GRCA0071	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/04/81-09/04/81	0	1	
GRCA0075	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/04/81-09/04/81	0	1	
GRCA0081	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/04/81-09/04/81	0	1	
GRCA0083	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/04/81-09/04/81	0	1	
GRCA0086	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/19/81-11/19/81	0	1	
GRCA0089	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/19/81-11/19/81	0	1	
GRCA0094	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/19/81-11/19/81	0	1	
GRCA0100	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/18/81-11/18/81	0	1	
GRCA0104	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/18/81-11/18/81	0	1	
GRCA0105	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/18/81-11/18/81	0	1	
GRCA0112	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/28/82-03/28/82	0	1	
GRCA0124	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/07/89-10/11/89	0	5	
GRCA0129	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/09/76-08/09/76	0	1	
GRCA0135	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/10/76-08/10/76	0	1	
GRCA0147	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/08/89-10/12/89	0	6	
GRCA0166	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	9	104	A
GRCA0006	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/04/76-08/04/76	0	1	
GRCA0011	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	57	423	S
GRCA0012	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/71-11/15/79	8	31	
GRCA0015	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/30/52-04/30/52	0	1	
GRCA0016	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/30/52-04/30/52	0	1	
GRCA0017	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/14/77-11/15/79	2	23	
GRCA0019	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/06/76-08/06/76	0	1	
GRCA0020	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/17/66-07/18/79	13	5	
GRCA0021	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/04/76-08/04/76	0	1	
GRCA0026	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/15/60-06/15/60	0	1	
GRCA0031	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/20/81-11/20/81	0	1	
GRCA0038	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/02/81-09/02/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0055	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	57	1057	S
GRCA0060	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/22/71-09/02/81	10	25	
GRCA0062	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/04/81-09/04/81	0	1	
GRCA0081	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/19/81-11/19/81	0	1	
GRCA0094	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/19/81-11/19/81	0	1	
GRCA0100	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/18/81-11/18/81	0	1	
GRCA0112	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	03/28/82-03/28/82	0	1	
GRCA0129	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/76-08/09/76	0	1	
GRCA0135	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/10/76-08/10/76	0	1	
GRCA0011	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	57	931	T,S
GRCA0012	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	32	92	
GRCA0017	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/14/77-11/15/79	2	24	
GRCA0020	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	07/18/79-07/18/79	0	1	
GRCA0038	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/20/81-11/20/81	0	1	
GRCA0040	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/01/81-09/01/81	0	1	
GRCA0041	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/01/81-09/01/81	0	1	
GRCA0044	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/02/81-09/02/81	0	1	
GRCA0047	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/02/81-09/02/81	0	1	
GRCA0049	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/02/81-09/02/81	0	1	
GRCA0053	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/02/81-09/02/81	0	1	
GRCA0055	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	57	1375	S
GRCA0060	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	01/22/71-09/02/81	10	23	
GRCA0065	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/01/81-09/01/81	0	1	
GRCA0066	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/01/81-09/01/81	0	1	
GRCA0071	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/04/81-09/04/81	0	1	
GRCA0075	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/04/81-09/04/81	0	1	
GRCA0081	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/04/81-09/04/81	0	1	
GRCA0083	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/04/81-09/04/81	0	1	
GRCA0086	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/19/81-11/19/81	0	1	
GRCA0089	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/19/81-11/19/81	0	1	
GRCA0094	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/19/81-11/19/81	0	1	
GRCA0100	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/18/81-11/18/81	0	1	
GRCA0104	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/18/81-11/18/81	0	1	
GRCA0105	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/18/81-11/18/81	0	1	
GRCA0112	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	03/28/82-03/28/82	0	1	
GRCA0006	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/04/76-08/04/76	0	1	
GRCA0011	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	57	933	T,S
GRCA0012	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	32	93	
GRCA0017	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/14/77-11/15/79	2	24	
GRCA0019	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/06/76-08/06/76	0	1	
GRCA0020	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/17/66-07/18/79	13	5	
GRCA0021	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/04/76-08/04/76	0	1	
GRCA0032	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/20/65-06/20/65	0	1	
GRCA0038	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/20/81-11/20/81	0	1	
GRCA0040	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/01/81-09/01/81	0	1	
GRCA0041	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/01/81-09/01/81	0	1	
GRCA0044	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/02/81-09/02/81	0	1	
GRCA0047	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/02/81-09/02/81	0	1	
GRCA0049	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/02/81-09/02/81	0	1	
GRCA0053	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/02/81-09/02/81	0	1	
GRCA0055	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	57	1473	S
GRCA0060	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/22/71-09/02/81	10	25	
GRCA0065	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/01/81-09/01/81	0	1	
GRCA0066	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/01/81-09/01/81	0	1	
GRCA0071	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/04/81-09/04/81	0	1	
GRCA0075	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/04/81-09/04/81	0	1	
GRCA0081	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/04/81-09/04/81	0	1	
GRCA0083	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/04/81-09/04/81	0	1	
GRCA0086	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/19/81-11/19/81	0	1	
GRCA0089	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/19/81-11/19/81	0	1	
GRCA0094	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/19/81-11/19/81	0	1	
GRCA0100	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/18/81-11/18/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0104	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/18/81-11/18/81	0	1	
GRCA0105	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/18/81-11/18/81	0	1	
GRCA0112	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/28/82-03/28/82	0	1	
GRCA0129	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/76-08/09/76	0	1	
GRCA0135	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/10/76-08/10/76	0	1	
GRCA0013	No	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/06/92-10/04/94	2	6	
GRCA0022	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/10/92-10/15/95	3	9	
GRCA0027	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/05/94-10/14/95	1	6	
GRCA0028	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/24/92-10/13/95	3	8	
GRCA0033	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/09/92-10/14/95	3	11	
GRCA0036	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/17/95-06/17/95	0	1	
GRCA0039	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/04/94-10/14/95	1	3	
GRCA0052	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/07/93-06/18/95	1	5	
GRCA0058	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/14/93-08/02/95	2	6	
GRCA0059	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/12/92-10/14/92	0	2	
GRCA0067	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/27/94-06/22/94	0	2	
GRCA0076	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/11/94-08/02/95	0	3	
GRCA0078	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/14/92-08/02/95	3	10	
GRCA0080	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/14/92-06/09/94	1	2	
GRCA0084	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/09/94-06/09/94	0	1	
GRCA0087	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/14/92-08/03/95	3	10	
GRCA0088	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/15/92-08/03/95	3	9	
GRCA0093	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/09/94-08/04/95	1	5	
GRCA0095	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/15/92-10/19/95	3	10	
GRCA0096	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/27/92-08/04/95	3	11	
GRCA0103	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/12/93-10/21/95	2	7	
GRCA0106	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/27/92-08/05/95	3	11	
GRCA0110	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/18/92-08/05/95	3	5	
GRCA0119	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/28/92-06/23/95	3	10	
GRCA0123	No	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/19/92-06/23/95	3	8	
GRCA0126	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	08/05/95-08/05/95	0	1	
GRCA0130	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/05/93-06/24/95	1	5	
GRCA0136	No	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/16/93-08/06/95	1	6	
GRCA0146	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/20/92-08/06/95	3	10	
GRCA0011	No	70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	10/02/51-01/01/63	11	12	
GRCA0012	No	70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	08/14/65-08/25/71	6	3	
GRCA0055	Yes	70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	01/02/52-08/22/69	17	6	
GRCA0011	No	70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	10/02/51-01/01/63	11	15	
GRCA0012	No	70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	08/14/65-08/25/71	6	4	
GRCA0055	Yes	70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	01/02/52-08/22/69	17	6	
GRCA0011	No	70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	10/02/51-01/01/63	11	13	
GRCA0012	No	70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	08/14/65-08/25/71	6	5	
GRCA0055	Yes	70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	01/02/52-08/22/69	17	7	
GRCA0011	No	70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	10/31/51-01/01/63	11	14	
GRCA0012	No	70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	08/14/65-08/25/71	6	5	
GRCA0055	Yes	70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	01/02/52-08/22/69	17	7	
GRCA0011	No	70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	10/02/51-01/01/63	11	12	
GRCA0012	No	70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	08/14/65-08/25/71	6	5	
GRCA0055	Yes	70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	01/02/52-08/22/69	17	7	
GRCA0002	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/05/89-10/10/89	0	6	
GRCA0011	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	39	217	T,S
GRCA0012	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	40	241	T,S
GRCA0055	Yes	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	01/02/51-10/11/89	38	68	S
GRCA0124	Yes	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/07/89-10/12/89	0	6	
GRCA0147	Yes	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/08/89-10/12/89	0	6	
GRCA0011	No	70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/02/51-08/12/65	13	121	
GRCA0012	No	70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	07/25/54-08/30/92	38	55	S
GRCA0055	Yes	70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	01/02/51-08/22/69	18	52	
GRCA0011	No	70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/02/51-08/12/65	13	116	
GRCA0012	No	70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	07/25/54-08/30/92	38	51	S
GRCA0055	Yes	70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	01/02/51-08/22/69	18	42	
GRCA0011	No	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/02/51-01/01/63	11	90	
GRCA0012	No	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/08/54-08/30/92	37	34	S
GRCA0055	Yes	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	11/01/51-08/22/69	17	26	
GRCA0011	No	70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	05/27/61-05/27/61	0	1	
GRCA0012	No	70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	08/04/61-08/30/92	31	27	
GRCA0012	No	70336	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 2.00MM	09/24/90-08/12/94	3	25	
GRCA0011	No	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	10/02/51-04/10/65	13	43	
GRCA0012	No	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	37	170	T,S

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0055	Yes	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	01/02/51-07/10/71	20	56	
GRCA0011	No	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/51-04/10/65	13	121	
GRCA0012	No	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	40	188	T,S
GRCA0055	Yes	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	20	86	
GRCA0011	No	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	10/02/51-01/01/63	11	14	
GRCA0012	No	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/12/57-09/07/94	37	94	S
GRCA0055	Yes	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	01/02/51-08/22/69	18	10	
GRCA0011	No	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/51-04/10/65	13	121	
GRCA0012	No	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	40	188	T,S
GRCA0055	Yes	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	20	87	
GRCA0011	No	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	10/02/51-01/01/63	11	14	
GRCA0012	No	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	07/12/57-09/07/94	37	94	S
GRCA0055	Yes	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	01/02/51-08/22/69	18	10	
GRCA0011	No	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/07/59-04/10/65	5	23	
GRCA0012	No	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	38	116	S
GRCA0055	Yes	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/07/59-12/24/71	12	55	
GRCA0011	No	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/07/59-04/10/65	5	22	
GRCA0012	No	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	38	105	S
GRCA0055	Yes	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/07/59-12/24/71	12	49	
GRCA0011	No	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/07/59-04/10/65	5	20	
GRCA0012	No	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	38	93	S
GRCA0055	Yes	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	11/10/59-12/24/71	12	42	
GRCA0011	No	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	04/17/60-01/01/63	2	4	
GRCA0012	No	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	08/04/61-03/25/93	31	63	
GRCA0055	Yes	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	05/30/60-12/24/71	11	26	
GRCA0012	No	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	08/04/61-03/25/93	31	42	
GRCA0055	Yes	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	10/01/62-07/10/71	8	3	
GRCA0012	No	70347	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM	08/28/72-03/25/93	20	38	
GRCA0002	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/05/89-10/10/89	0	12	
GRCA0011	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/30/75-09/07/94	19	35	
GRCA0055	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/06/89-10/11/89	0	15	
GRCA0124	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/07/89-10/11/89	0	5	
GRCA0147	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/08/89-10/12/89	0	13	
GRCA0011	No	70950	BIOMASS-CHLOROPHYLL RATIO, PERIPHYTON (UNITS)	08/16/79-06/04/80	0	3	
GRCA0011	No	70957	CHLOROPHYLL-A,PERIPHYTON UG/L,CHROMO-FLUORO	06/06/78-06/04/80	1	6	
GRCA0011	No	70958	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-FLUORO	06/06/78-06/04/80	1	6	
GRCA0001	No	71000	COUNT LEVEL OF MOST ABNDNT ALGAE1ST DOMINANT /ML	05/02/67-05/02/67	0	1	
GRCA0001	No	71010	GENUS OF MOST ABUNDANT ALGAE 1ST DOMINANT /ML	05/02/67-05/02/67	0	1	
GRCA0124	Yes	71100	SESTON, TOTAL - MG/L	10/09/89-10/12/89	0	27	
GRCA0003	No	71830	HYDROXIDE ION (MG/L AS OH)	12/01/93-09/22/94	0	7	
GRCA0004	No	71830	HYDROXIDE ION (MG/L AS OH)	05/10/78-11/12/86	8	38	
GRCA0011	No	71830	HYDROXIDE ION (MG/L AS OH)	03/05/87-03/05/87	0	1	
GRCA0011	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/18/79-01/06/81	1	20	
GRCA0020	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	01/23/80-01/23/80	0	1	
GRCA0011	No	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/17/79-03/02/83	3	28	
GRCA0055	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	01/23/80-01/23/80	0	1	
GRCA0011	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/01/47-08/30/75	27	423	
GRCA0012	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/01/47-02/01/50	2	56	
GRCA0015	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/30/52-04/30/52	0	1	
GRCA0016	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/30/52-04/30/52	0	1	
GRCA0020	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/18/79-07/18/79	0	1	
GRCA0039	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/10/92-10/10/92	0	1	
GRCA0042	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/20/94-03/20/94	0	1	
GRCA0048	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/24/94-04/24/94	0	1	
GRCA0055	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/21/36-07/19/62	26	533	
GRCA0056	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	05/22/94-05/22/94	0	1	
GRCA0063	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/27/94-03/29/94	0	2	
GRCA0064	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/27/94-02/27/94	0	1	
GRCA0067	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	11/28/93-06/22/94	0	4	
GRCA0069	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	11/28/93-11/28/93	0	1	
GRCA0072	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/30/94-03/30/94	0	1	
GRCA0074	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/31/94-03/31/94	0	1	
GRCA0080	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/31/94-06/09/94	0	2	
GRCA0084	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/09/94-06/09/94	0	1	
GRCA0085	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/13/94-03/13/94	0	1	
GRCA0103	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/20/92-07/03/93	0	2	
GRCA0130	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/19/92-10/22/92	0	2	
GRCA0136	No	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/24/92-10/24/92	0	1	
GRCA0144	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/24/92-10/24/92	0	1	
GRCA0011	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	01/11/26-05/30/75	49	288	S
GRCA0032	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	06/20/65-06/20/65	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0055	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/23/25-08/01/75	49	846	S
GRCA0060	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/14/72-03/08/74	1	17	
GRCA0091	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	06/27/51-06/27/51	0	1	
GRCA0097	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	06/27/51-06/27/51	0	1	
GRCA0135	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/07/51-08/07/51	0	1	
GRCA0011	No	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	01/10/73-08/30/75	2	30	
GRCA0055	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	11/16/72-08/01/75	2	27	
GRCA0060	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	11/14/72-03/08/74	1	17	
GRCA0055	Yes	71870	BROMIDE (MG/L AS BR)	10/01/63-09/15/64	0	25	
GRCA0011	No	71885	IRON (UG/L AS FE)	11/01/42-09/07/64	21	90	
GRCA0055	Yes	71885	IRON (UG/L AS FE)	10/17/59-09/01/67	7	28	
GRCA0004	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	01/17/79-12/05/84	5	11	
GRCA0011	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/18/79-04/03/84	4	41	
GRCA0012	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/17/79-09/17/79	0	1	
GRCA0017	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/18/79-09/18/79	0	1	
GRCA0020	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/18/79-07/18/79	0	1	
GRCA0055	Yes	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	01/23/80-07/13/83	3	2	
GRCA0011	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/15/74-09/02/81	7	57	
GRCA0012	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	09/15/77-09/17/79	2	5	
GRCA0017	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	09/14/77-09/18/79	2	4	
GRCA0020	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	07/18/79-07/18/79	0	1	
GRCA0055	Yes	71887	NITROGEN, TOTAL, AS NO3 - MG/L	01/23/80-01/23/80	0	1	
GRCA0003	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	12/01/93-08/09/94	0	5	
GRCA0011	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	05/28/74-09/21/95	21	65	
GRCA0012	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/15/77-09/17/79	2	5	
GRCA0017	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/14/77-09/18/79	2	4	
GRCA0020	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	07/18/79-07/18/79	0	1	
GRCA0031	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	11/20/81-11/20/81	0	1	
GRCA0038	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/01/81-09/01/81	0	1	
GRCA0043	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	11/20/81-11/20/81	0	1	
GRCA0044	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/02/81-09/02/81	0	1	
GRCA0047	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/02/81-09/02/81	0	1	
GRCA0049	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/02/81-09/02/81	0	1	
GRCA0053	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/02/81-09/02/81	0	1	
GRCA0055	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	01/25/73-01/23/80	6	2	
GRCA0060	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/02/81-09/02/81	0	1	
GRCA0062	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/01/81-09/01/81	0	1	
GRCA0065	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/01/81-09/01/81	0	1	
GRCA0071	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/04/81-09/04/81	0	1	
GRCA0075	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/04/81-09/04/81	0	1	
GRCA0081	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/04/81-09/04/81	0	1	
GRCA0083	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/04/81-09/04/81	0	1	
GRCA0086	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	11/19/81-11/19/81	0	1	
GRCA0089	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	11/19/81-11/19/81	0	1	
GRCA0094	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	11/19/81-11/19/81	0	1	
GRCA0100	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	11/18/81-11/18/81	0	1	
GRCA0105	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	11/18/81-11/18/81	0	1	
GRCA0111	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	08/23/94-08/23/94	0	1	
GRCA0112	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	03/28/82-03/28/82	0	1	
GRCA0113	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	08/24/94-08/24/94	0	1	
GRCA0131	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/10/93-10/10/93	0	1	
GRCA0137	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/14/93-10/14/93	0	1	
GRCA0138	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	05/19/93-05/19/93	0	1	
GRCA0150	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	05/15/93-05/15/93	0	1	
GRCA0151	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	05/15/93-05/15/93	0	1	
GRCA0152	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	05/15/93-05/15/93	0	1	
GRCA0155	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	05/15/93-05/15/93	0	1	
GRCA0158	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	05/17/93-05/17/93	0	1	
GRCA0160	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	05/17/93-05/17/93	0	1	
GRCA0164	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	06/11/93-06/11/93	0	1	
GRCA0011	No	71895	MERCURY, SUSPENDED (UG/L AS HG)	05/28/74-08/03/81	7	18	
GRCA0012	No	71895	MERCURY, SUSPENDED (UG/L AS HG)	09/15/77-09/17/79	2	5	
GRCA0017	No	71895	MERCURY, SUSPENDED (UG/L AS HG)	09/14/77-09/18/79	2	4	
GRCA0020	No	71895	MERCURY, SUSPENDED (UG/L AS HG)	07/18/79-07/18/79	0	1	
GRCA0055	Yes	71895	MERCURY, SUSPENDED (UG/L AS HG)	01/23/80-01/23/80	0	1	
GRCA0004	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/10/78-11/12/86	8	37	
GRCA0008	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/29/80-08/29/80	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0011	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/28/74-09/21/95	21	87	
GRCA0012	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/15/77-11/15/79	2	6	
GRCA0013	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/06/92-10/04/94	2	6	
GRCA0017	No	71900	MERCURY, TOTAL (UG/L AS HG)	09/14/77-11/15/79	2	5	
GRCA0020	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/18/79-07/18/79	0	1	
GRCA0022	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/10/92-10/09/94	2	8	
GRCA0025	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/10/92-10/09/94	2	7	
GRCA0027	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	05/05/94-10/08/94	0	3	
GRCA0028	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	10/07/94-10/07/94	0	1	
GRCA0030	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	05/24/92-07/01/94	2	7	
GRCA0033	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/09/92-10/08/94	2	8	
GRCA0039	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	05/04/94-05/04/94	0	1	
GRCA0052	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	10/07/93-10/10/94	1	4	
GRCA0055	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	01/23/80-01/23/80	0	1	
GRCA0058	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	05/14/93-07/03/94	1	5	
GRCA0059	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/12/92-10/14/92	0	2	
GRCA0076	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	10/11/94-10/11/94	0	1	
GRCA0078	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/14/92-10/11/94	2	8	
GRCA0087	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/14/92-10/12/94	2	8	
GRCA0088	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/15/92-10/13/94	2	8	
GRCA0093	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	05/09/94-10/14/94	0	3	
GRCA0095	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/15/92-07/05/94	2	7	
GRCA0096	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	10/16/94-10/16/94	0	1	
GRCA0098	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	05/27/92-10/15/94	2	9	
GRCA0103	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	10/12/93-10/15/94	1	4	
GRCA0106	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	05/27/92-10/17/94	2	9	
GRCA0110	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/18/92-05/09/94	1	4	
GRCA0112	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/28/82-03/28/82	0	1	
GRCA0119	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	05/28/92-10/17/94	2	9	
GRCA0123	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/19/92-07/09/94	2	7	
GRCA0130	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	07/05/93-10/18/94	1	4	
GRCA0136	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/06/93-10/20/94	1	5	
GRCA0144	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/21/92-10/24/92	0	2	
GRCA0146	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/20/92-10/19/94	2	8	
GRCA0007	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/02/81-06/02/81	0	1	
GRCA0008	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/29/80-08/29/80	0	1	
GRCA0008	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/29/80-08/29/80	0	1	
GRCA0008	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/29/80-08/29/80	0	1	
GRCA0008	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/29/80-08/29/80	0	1	
GRCA0008	No	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/29/80-08/29/80	0	1	
GRCA0008	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/29/80-08/29/80	0	1	
GRCA0008	No	71941	CADMIUM,TOTAL IN FISH-DRY WEIGHT BASIS	08/29/80-08/29/80	0	1	
GRCA0011	No	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	10/01/47-09/27/62	14	569	
GRCA0012	No	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	10/01/47-09/18/61	13	66	
GRCA0055	Yes	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	10/01/47-09/27/62	14	467	
GRCA0060	Yes	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	12/31/61-09/28/62	0	5	
GRCA0124	Yes	72008	DEPTH, TOTAL OF WELL (FT BELOW LAND SURFACE DATUM)	10/09/89-10/12/89	0	3	
GRCA0135	No	72008	DEPTH, TOTAL OF WELL (FT BELOW LAND SURFACE DATUM)	08/10/76-08/10/76	0	1	
GRCA0004	No	72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	05/08/80-03/09/81	0	3	
GRCA0159	No	72025	DEPTH OF POND OR RESERVOIR IN FEET	01/03/76-05/23/76	0	6	
GRCA0165	No	72025	DEPTH OF POND OR RESERVOIR IN FEET	02/24/75-11/21/75	0	3	
GRCA0167	No	72025	DEPTH OF POND OR RESERVOIR IN FEET	09/27/75-06/10/76	0	9	
GRCA0124	Yes	72051	WITHDRAWAL OF GROUNDWATER (MILLIONS OF GALS/YR)	10/09/89-10/12/89	0	27	
GRCA0004	No	74010	IRON, TOTAL (MG/L AS FE)	05/10/78-11/12/86	8	38	
GRCA0111	No	75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	08/23/94-08/23/94	0	1	
GRCA0113	No	75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	08/24/94-08/24/94	0	1	
GRCA0131	No	75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	10/10/93-10/10/93	0	1	
GRCA0134	No	75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/20/93-05/20/93	0	1	
GRCA0137	No	75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	10/14/93-10/14/93	0	1	
GRCA0138	No	75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/19/93-05/19/93	0	1	
GRCA0150	No	75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/15/93-05/15/93	0	1	
GRCA0151	No	75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/15/93-05/15/93	0	1	
GRCA0152	No	75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/15/93-05/15/93	0	1	
GRCA0155	No	75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/15/93-05/15/93	0	1	
GRCA0158	No	75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/17/93-05/17/93	0	1	
GRCA0160	No	75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/17/93-05/17/93	0	1	
GRCA0164	No	75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	06/11/93-11/17/93	0	2	
GRCA0111	No	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	08/23/94-08/23/94	0	1	
GRCA0113	No	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	08/24/94-08/24/94	0	1	
GRCA0131	No	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	10/10/93-10/10/93	0	1	
GRCA0134	No	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/20/93-05/20/93	0	1	
GRCA0137	No	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	10/14/93-10/14/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0138	No	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/19/93-05/19/93	0	1	
GRCA0150	No	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/15/93-05/15/93	0	1	
GRCA0151	No	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/15/93-05/15/93	0	1	
GRCA0152	No	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/15/93-05/15/93	0	1	
GRCA0155	No	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/15/93-05/15/93	0	1	
GRCA0158	No	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/17/93-05/17/93	0	1	
GRCA0160	No	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/17/93-05/17/93	0	1	
GRCA0164	No	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	06/11/93-11/17/93	0	2	
GRCA0111	No	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	08/23/94-08/23/94	0	1	
GRCA0113	No	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	08/24/94-08/24/94	0	1	
GRCA0131	No	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	10/10/93-10/10/93	0	1	
GRCA0134	No	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/20/93-05/20/93	0	1	
GRCA0137	No	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	10/14/93-10/14/93	0	1	
GRCA0138	No	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/19/93-05/19/93	0	1	
GRCA0150	No	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/15/93-05/15/93	0	1	
GRCA0151	No	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/15/93-05/15/93	0	1	
GRCA0152	No	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/15/93-05/15/93	0	1	
GRCA0155	No	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/15/93-05/15/93	0	1	
GRCA0158	No	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/17/93-05/17/93	0	1	
GRCA0160	No	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/17/93-05/17/93	0	1	
GRCA0164	No	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	06/11/93-11/17/93	0	2	
GRCA0111	No	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	08/23/94-08/23/94	0	1	
GRCA0113	No	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	08/24/94-08/24/94	0	1	
GRCA0131	No	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	10/10/93-10/10/93	0	1	
GRCA0134	No	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/20/93-05/20/93	0	1	
GRCA0137	No	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	10/14/93-10/14/93	0	1	
GRCA0138	No	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/19/93-05/19/93	0	1	
GRCA0150	No	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/15/93-05/15/93	0	1	
GRCA0151	No	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/15/93-05/15/93	0	1	
GRCA0152	No	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/15/93-05/15/93	0	1	
GRCA0155	No	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/15/93-05/15/93	0	1	
GRCA0158	No	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/17/93-05/17/93	0	1	
GRCA0160	No	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/17/93-05/17/93	0	1	
GRCA0164	No	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	06/11/93-11/17/93	0	2	
GRCA0111	No	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	08/23/94-08/23/94	0	1	
GRCA0113	No	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	08/24/94-08/24/94	0	1	
GRCA0131	No	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	10/10/93-10/10/93	0	1	
GRCA0134	No	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/20/93-05/20/93	0	1	
GRCA0137	No	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	10/14/93-10/14/93	0	1	
GRCA0138	No	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/19/93-05/19/93	0	1	
GRCA0150	No	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/15/93-05/15/93	0	1	
GRCA0151	No	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/15/93-05/15/93	0	1	
GRCA0152	No	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/15/93-05/15/93	0	1	
GRCA0155	No	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/15/93-05/15/93	0	1	
GRCA0158	No	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/17/93-05/17/93	0	1	
GRCA0160	No	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/17/93-05/17/93	0	1	
GRCA0164	No	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	06/11/93-11/17/93	0	2	
GRCA0111	No	75990	URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	08/23/94-08/23/94	0	1	
GRCA0113	No	75990	URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	08/24/94-08/24/94	0	1	
GRCA0111	No	75991	URANIUM 238,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	08/23/94-08/23/94	0	1	
GRCA0113	No	75991	URANIUM 238,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	08/24/94-08/24/94	0	1	
GRCA0131	No	75991	URANIUM 238,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	10/10/93-10/10/93	0	1	
GRCA0137	No	75991	URANIUM 238,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	10/14/93-10/14/93	0	1	
GRCA0164	No	75991	URANIUM 238,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	11/17/93-11/17/93	0	1	
GRCA0111	No	75992	URANIUM 234,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	08/23/94-08/23/94	0	1	
GRCA0113	No	75992	URANIUM 234,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	08/24/94-08/24/94	0	1	
GRCA0131	No	75992	URANIUM 234,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	10/10/93-10/10/93	0	1	
GRCA0137	No	75992	URANIUM 234,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	10/14/93-10/14/93	0	1	
GRCA0164	No	75992	URANIUM 234,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	11/17/93-11/17/93	0	1	
GRCA0134	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/20/93-05/20/93	0	1	
GRCA0138	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/19/93-05/19/93	0	1	
GRCA0150	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/15/93-05/15/93	0	1	
GRCA0151	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/15/93-05/15/93	0	1	
GRCA0152	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/15/93-05/15/93	0	1	
GRCA0155	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/15/93-05/15/93	0	1	
GRCA0158	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/17/93-05/17/93	0	1	
GRCA0160	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/17/93-05/17/93	0	1	
GRCA0164	No	75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	06/11/93-06/11/93	0	1	
GRCA0111	No	75994	URANIUM 235,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	08/23/94-08/23/94	0	1	
GRCA0113	No	75994	URANIUM 235,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	08/24/94-08/24/94	0	1	
GRCA0131	No	75994	URANIUM 235,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	10/10/93-10/10/93	0	1	
GRCA0137	No	75994	URANIUM 235,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	10/14/93-10/14/93	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0164	No	75994	URANIUM 235,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	11/17/93-11/17/93	0	1	
GRCA0131	No	76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	10/10/93-10/10/93	0	1	
GRCA0134	No	76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	05/20/93-05/20/93	0	1	
GRCA0137	No	76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	10/14/93-10/14/93	0	1	
GRCA0138	No	76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	05/19/93-05/19/93	0	1	
GRCA0151	No	76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	05/15/93-05/15/93	0	1	
GRCA0152	No	76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	05/15/93-05/15/93	0	1	
GRCA0155	No	76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	05/15/93-05/15/93	0	1	
GRCA0160	No	76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	05/17/93-05/17/93	0	1	
GRCA0164	No	76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	06/11/93-06/11/93	0	1	
GRCA0029	Yes	80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	04/29/76-04/29/76	0	1	
GRCA0034	Yes	80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	04/30/76-04/30/76	0	1	
GRCA0079	Yes	80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/03/76-05/03/76	0	1	
GRCA0086	Yes	80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/04/76-05/04/76	0	1	
GRCA0094	Yes	80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/05/76-05/05/76	0	1	
GRCA0109	Yes	80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/07/76-05/07/76	0	1	
GRCA0114	Yes	80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/07/76-05/07/76	0	1	
GRCA0117	Yes	80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/08/76-05/08/76	0	1	
GRCA0125	Yes	80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/08/76-05/08/76	0	1	
GRCA0131	No	80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/09/76-05/09/76	0	1	
GRCA0132	No	80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/09/76-05/09/76	0	1	
GRCA0143	No	80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/11/76-05/11/76	0	1	
GRCA0012	No	80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	05/28/75-05/28/75	0	6	
GRCA0024	Yes	80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	05/01/76-05/01/76	0	1	
GRCA0031	Yes	80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	04/29/76-04/29/76	0	1	
GRCA0077	Yes	80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	05/03/76-05/03/76	0	1	
GRCA0089	Yes	80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	05/04/76-05/04/76	0	1	
GRCA0100	Yes	80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	05/06/76-05/06/76	0	1	
GRCA0104	Yes	80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	05/07/76-05/07/76	0	1	
GRCA0111	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	08/23/94-08/23/94	0	1	
GRCA0113	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	08/24/94-08/24/94	0	1	
GRCA0131	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/10/93-10/10/93	0	1	
GRCA0134	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/20/93-05/20/93	0	1	
GRCA0137	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/14/93-10/14/93	0	1	
GRCA0138	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/19/93-05/19/93	0	1	
GRCA0150	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/15/93-05/15/93	0	1	
GRCA0151	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/15/93-05/15/93	0	1	
GRCA0152	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/15/93-05/15/93	0	1	
GRCA0155	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/15/93-05/15/93	0	1	
GRCA0158	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/17/93-05/17/93	0	1	
GRCA0160	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/17/93-05/17/93	0	1	
GRCA0164	No	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	06/11/93-11/17/93	0	2	
GRCA0111	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	08/23/94-08/23/94	0	1	
GRCA0113	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	08/24/94-08/24/94	0	1	
GRCA0131	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/10/93-10/10/93	0	1	
GRCA0134	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/20/93-05/20/93	0	1	
GRCA0137	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/14/93-10/14/93	0	1	
GRCA0138	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/19/93-05/19/93	0	1	
GRCA0150	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/15/93-05/15/93	0	1	
GRCA0151	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/15/93-05/15/93	0	1	
GRCA0152	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/15/93-05/15/93	0	1	
GRCA0155	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/15/93-05/15/93	0	1	
GRCA0158	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/17/93-05/17/93	0	1	
GRCA0160	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/17/93-05/17/93	0	1	
GRCA0164	No	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	06/11/93-11/17/93	0	2	
GRCA0002	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/05/89-10/10/89	0	6	
GRCA0011	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	42	617	T,A,S
GRCA0012	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	40	490	T,A,S
GRCA0017	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	09/14/77-11/15/79	2	24	
GRCA0055	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	38	117	S
GRCA0124	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/89-10/12/89	0	6	
GRCA0147	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/08/89-10/12/89	0	6	
GRCA0011	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	31	537	T,A
GRCA0012	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/13/59-09/17/79	20	106	
GRCA0017	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	09/14/77-11/15/79	2	22	
GRCA0055	Yes	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	31	80	
GRCA0011	No	80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	04/13/63-08/12/65	2	5	
GRCA0055	Yes	80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	10/29/65-10/29/65	0	1	
GRCA0011	No	80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	04/13/63-08/12/65	2	20	
GRCA0055	Yes	80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	10/29/65-10/29/65	0	1	
GRCA0011	No	80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	04/13/63-08/12/65	2	20	
GRCA0055	Yes	80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	10/29/65-10/29/65	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0011	No	80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	04/13/63-08/12/65	2	19	
GRCA0055	Yes	80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	10/29/65-10/29/65	0	1	
GRCA0011	No	80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	08/12/65-08/12/65	0	1	
GRCA0012	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	04/13/63-05/27/71	8	5	
GRCA0124	Yes	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	10/08/89-10/11/89	0	12	
GRCA0011	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	09/26/67-09/26/67	0	1	
GRCA0012	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	04/13/63-05/27/71	8	6	
GRCA0055	Yes	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	12/07/70-06/21/71	0	3	
GRCA0124	Yes	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	10/08/89-10/11/89	0	15	
GRCA0011	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	09/26/67-09/26/67	0	1	
GRCA0012	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	04/13/63-05/27/71	8	6	
GRCA0055	Yes	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	12/07/70-06/21/71	0	3	
GRCA0124	Yes	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	10/08/89-10/11/89	0	15	
GRCA0011	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	09/26/67-09/26/67	0	1	
GRCA0012	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	04/13/63-05/27/71	8	6	
GRCA0055	Yes	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	12/07/70-06/21/71	0	3	
GRCA0124	Yes	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	10/08/89-10/11/89	0	15	
GRCA0011	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	09/26/67-09/26/67	0	1	
GRCA0012	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	04/13/63-05/27/71	8	5	
GRCA0055	Yes	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	12/07/70-06/21/71	0	3	
GRCA0124	Yes	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	10/08/89-10/11/89	0	14	
GRCA0011	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	09/26/67-09/26/67	0	1	
GRCA0012	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	04/13/63-05/27/71	8	5	
GRCA0055	Yes	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	12/07/70-06/21/71	0	3	
GRCA0124	Yes	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/08/89-10/11/89	0	13	
GRCA0012	No	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	04/13/63-05/27/71	8	5	
GRCA0055	Yes	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	03/29/71-03/29/71	0	1	
GRCA0124	Yes	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	10/08/89-10/11/89	0	13	
GRCA0012	No	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	04/13/63-05/27/71	8	4	
GRCA0124	Yes	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	10/08/89-10/11/89	0	12	
GRCA0012	No	80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	04/13/63-05/27/71	8	4	
GRCA0124	Yes	80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	10/08/89-10/11/89	0	4	
GRCA0012	No	80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	04/13/63-04/13/63	0	1	
GRCA0124	Yes	80226	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .062MM	10/09/89-10/12/89	0	17	
GRCA0124	Yes	80227	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .125MM	10/09/89-10/12/89	0	29	
GRCA0124	Yes	80228	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .250MM	10/09/89-10/12/89	0	31	
GRCA0124	Yes	80229	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .500MM	10/09/89-10/12/89	0	31	
GRCA0124	Yes	80230	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 1.00MM	10/09/89-10/12/89	0	31	
GRCA0124	Yes	80231	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 2.00MM	10/09/89-10/12/89	0	31	
GRCA0124	Yes	80232	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 4.00MM	10/09/89-10/12/89	0	30	
GRCA0124	Yes	80233	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 8.00MM	10/09/89-10/12/89	0	17	
GRCA0011	No	81204	POTASSIUM, (TONS PER DAY AS K)	08/30/75-08/30/75	0	1	
GRCA0011	No	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/05/81-11/05/81	0	1	
GRCA0012	No	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	10/25/92-10/25/92	0	1	
GRCA0011	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	01/06/81-06/02/81	0	4	
GRCA0055	Yes	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	02/10/81-07/24/81	0	2	
GRCA0005	No	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/01/93-08/02/93	0	6	
GRCA0013	No	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/07/92-09/29/93	0	4	
GRCA0022	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	05/12/93-10/09/94	1	6	
GRCA0025	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/10/92-10/15/95	3	8	
GRCA0027	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/05/93-10/14/95	2	7	
GRCA0028	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/09/92-10/07/94	1	3	
GRCA0030	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	05/24/92-10/13/95	3	10	
GRCA0033	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/09/92-10/14/95	3	11	
GRCA0036	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/17/95-06/17/95	0	1	
GRCA0039	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/09/92-10/14/95	3	7	
GRCA0042	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	03/20/94-03/20/94	0	1	
GRCA0045	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/23/94-04/23/94	0	1	
GRCA0046	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/24/94-04/24/94	0	1	
GRCA0048	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/24/94-04/24/94	0	1	
GRCA0050	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	11/17/93-05/20/94	0	2	
GRCA0052	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/11/92-10/16/95	3	9	
GRCA0054	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	11/26/93-11/26/93	0	1	
GRCA0056	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	05/22/94-05/22/94	0	1	
GRCA0057	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/12/92-06/12/92	0	1	
GRCA0058	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	05/14/93-08/02/95	2	7	
GRCA0059	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/12/92-10/14/92	0	2	
GRCA0063	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	02/27/94-03/29/94	0	2	
GRCA0064	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	02/27/94-03/29/94	0	2	
GRCA0067	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	11/28/93-06/22/94	0	4	
GRCA0069	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	11/28/93-05/26/94	0	3	
GRCA0070	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	03/30/94-03/30/94	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0072	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	03/30/94-03/30/94	0	1	
GRCA0074	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	03/31/94-03/31/94	0	1	
GRCA0076	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/14/92-10/18/95	3	7	
GRCA0078	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/14/92-10/18/95	3	11	
GRCA0080	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	03/31/94-06/09/94	0	2	
GRCA0084	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/09/94-06/09/94	0	1	
GRCA0085	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	03/13/94-03/13/94	0	1	
GRCA0087	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/14/92-10/19/95	3	11	
GRCA0088	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/15/92-08/03/95	3	9	
GRCA0090	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/19/92-10/19/92	0	1	
GRCA0093	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/16/92-08/04/95	3	9	
GRCA0095	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/15/92-10/19/95	3	10	
GRCA0096	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/19/92-10/16/94	1	2	
GRCA0098	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	05/27/92-10/21/95	3	10	
GRCA0101	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/20/95-10/20/95	0	1	
GRCA0102	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/20/94-06/20/94	0	1	
GRCA0103	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/17/92-10/21/95	3	10	
GRCA0106	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/17/92-10/21/95	3	11	
GRCA0110	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/18/92-10/22/95	3	7	
GRCA0115	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/22/95-10/22/95	0	1	
GRCA0116	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/22/95-10/22/95	0	1	
GRCA0119	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	05/28/92-06/23/95	3	10	
GRCA0123	No	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/19/92-06/23/95	3	9	
GRCA0126	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/05/95-08/05/95	0	1	
GRCA0130	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/19/92-06/24/95	3	7	
GRCA0136	No	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/21/92-10/25/95	3	10	
GRCA0144	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/21/92-10/24/92	0	2	
GRCA0146	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/20/92-10/24/95	3	11	
GRCA0149	Yes	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/25/92-10/25/92	0	1	
GRCA0111	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	08/23/94-08/23/94	0	1	
GRCA0113	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	08/24/94-08/24/94	0	1	
GRCA0131	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	10/10/93-10/10/93	0	1	
GRCA0134	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/20/93-05/20/93	0	1	
GRCA0137	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	10/14/93-10/14/93	0	1	
GRCA0138	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/19/93-05/19/93	0	1	
GRCA0150	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/15/93-05/15/93	0	1	
GRCA0151	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/15/93-05/15/93	0	1	
GRCA0152	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/15/93-05/15/93	0	1	
GRCA0155	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/15/93-05/15/93	0	1	
GRCA0158	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/17/93-05/17/93	0	1	
GRCA0160	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/17/93-05/17/93	0	1	
GRCA0164	No	82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	06/11/93-11/17/93	0	2	
GRCA0111	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	08/23/94-08/23/94	0	1	
GRCA0113	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	08/24/94-08/24/94	0	1	
GRCA0131	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	10/10/93-10/10/93	0	1	
GRCA0134	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/20/93-05/20/93	0	1	
GRCA0137	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	10/14/93-10/14/93	0	1	
GRCA0138	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/19/93-05/19/93	0	1	
GRCA0150	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/15/93-05/15/93	0	1	
GRCA0151	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/15/93-05/15/93	0	1	
GRCA0152	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/15/93-05/15/93	0	1	
GRCA0155	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/15/93-05/15/93	0	1	
GRCA0158	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/17/93-05/17/93	0	1	
GRCA0160	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/17/93-05/17/93	0	1	
GRCA0164	No	82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	06/11/93-11/17/93	0	2	
GRCA0011	No	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	03/02/82-03/02/82	0	1	
GRCA0131	No	82303	RADON 222, TOTAL IN WATER PC/L	10/10/93-10/10/93	0	1	
GRCA0134	No	82303	RADON 222, TOTAL IN WATER PC/L	05/20/93-05/20/93	0	1	
GRCA0137	No	82303	RADON 222, TOTAL IN WATER PC/L	10/14/93-10/14/93	0	1	
GRCA0138	No	82303	RADON 222, TOTAL IN WATER PC/L	05/19/93-05/19/93	0	1	
GRCA0151	No	82303	RADON 222, TOTAL IN WATER PC/L	05/15/93-05/15/93	0	1	
GRCA0152	No	82303	RADON 222, TOTAL IN WATER PC/L	05/15/93-05/15/93	0	1	
GRCA0155	No	82303	RADON 222, TOTAL IN WATER PC/L	05/15/93-05/15/93	0	1	
GRCA0158	No	82303	RADON 222, TOTAL IN WATER PC/L	05/17/93-05/17/93	0	1	
GRCA0160	No	82303	RADON 222, TOTAL IN WATER PC/L	05/17/93-05/17/93	0	1	
GRCA0164	No	82303	RADON 222, TOTAL IN WATER PC/L	06/11/93-06/11/93	0	1	
GRCA0002	No	82398	SAMPLING METHOD (CODES)	10/05/89-10/10/89	0	22	
GRCA0011	No	82398	SAMPLING METHOD (CODES)	12/30/74-09/22/95	20	113	
GRCA0012	No	82398	SAMPLING METHOD (CODES)	09/13/90-10/04/94	4	364	
GRCA0055	Yes	82398	SAMPLING METHOD (CODES)	02/07/85-10/11/89	4	46	
GRCA0111	No	82398	SAMPLING METHOD (CODES)	08/23/94-08/23/94	0	1	
GRCA0122	No	82398	SAMPLING METHOD (CODES)	05/10/90-04/01/92	1	2	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0124	Yes	82398	SAMPLING METHOD (CODES)	10/07/89-03/30/92	2	11	
GRCA0127	No	82398	SAMPLING METHOD (CODES)	04/23/93-04/23/93	0	1	
GRCA0131	No	82398	SAMPLING METHOD (CODES)	04/11/90-01/23/92	1	4	
GRCA0133	No	82398	SAMPLING METHOD (CODES)	01/23/92-01/23/92	0	1	
GRCA0134	No	82398	SAMPLING METHOD (CODES)	05/20/93-05/20/93	0	1	
GRCA0137	No	82398	SAMPLING METHOD (CODES)	05/11/90-05/11/90	0	1	
GRCA0138	No	82398	SAMPLING METHOD (CODES)	05/19/93-05/19/93	0	1	
GRCA0140	No	82398	SAMPLING METHOD (CODES)	10/25/92-10/25/92	0	1	
GRCA0147	Yes	82398	SAMPLING METHOD (CODES)	10/07/89-10/12/89	0	37	
GRCA0148	No	82398	SAMPLING METHOD (CODES)	05/14/90-04/05/92	1	5	
GRCA0150	No	82398	SAMPLING METHOD (CODES)	08/22/91-05/15/93	1	2	
GRCA0151	No	82398	SAMPLING METHOD (CODES)	05/15/93-05/15/93	0	1	
GRCA0152	No	82398	SAMPLING METHOD (CODES)	08/23/91-05/15/93	1	2	
GRCA0153	No	82398	SAMPLING METHOD (CODES)	08/23/91-08/23/91	0	1	
GRCA0154	No	82398	SAMPLING METHOD (CODES)	08/23/91-08/23/91	0	1	
GRCA0155	No	82398	SAMPLING METHOD (CODES)	05/15/93-05/15/93	0	1	
GRCA0157	No	82398	SAMPLING METHOD (CODES)	08/24/91-08/24/91	0	1	
GRCA0158	No	82398	SAMPLING METHOD (CODES)	05/17/93-05/17/93	0	1	
GRCA0160	No	82398	SAMPLING METHOD (CODES)	05/17/93-05/17/93	0	1	
GRCA0164	No	82398	SAMPLING METHOD (CODES)	06/11/93-06/11/93	0	1	
GRCA0006	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/04/76-08/04/76	0	1	
GRCA0015	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	04/30/52-04/30/52	0	1	
GRCA0016	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	04/30/52-04/30/52	0	1	
GRCA0021	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/04/76-08/04/76	0	1	
GRCA0026	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/15/60-06/15/60	0	1	
GRCA0031	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	04/29/76-11/20/81	5	2	
GRCA0038	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/01/81-09/01/81	0	1	
GRCA0051	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	11/11/61-11/11/61	0	1	
GRCA0053	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/02/81-09/02/81	0	1	
GRCA0062	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/01/81-09/01/81	0	1	
GRCA0075	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/04/81-09/04/81	0	1	
GRCA0077	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/03/76-05/03/76	0	1	
GRCA0081	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	09/04/81-09/04/81	0	1	
GRCA0091	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/27/51-06/27/51	0	1	
GRCA0094	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	11/19/81-11/19/81	0	1	
GRCA0097	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/27/51-06/27/51	0	1	
GRCA0100	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	11/18/81-11/18/81	0	1	
GRCA0109	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/07/76-05/07/76	0	1	
GRCA0111	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/23/94-08/23/94	0	1	
GRCA0113	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/24/94-08/24/94	0	1	
GRCA0114	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/07/76-05/07/76	0	1	
GRCA0121	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	01/06/95-01/06/95	0	1	
GRCA0122	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	04/01/92-04/01/92	0	1	
GRCA0128	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	01/06/95-01/06/95	0	1	
GRCA0129	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/09/76-08/09/76	0	1	
GRCA0131	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/09/76-01/07/95	18	7	
GRCA0132	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/09/76-05/09/76	0	1	
GRCA0133	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	01/23/92-01/23/92	0	1	
GRCA0135	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/07/51-08/10/76	25	2	
GRCA0137	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/11/90-01/08/95	4	3	
GRCA0138	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/19/93-05/19/93	0	1	
GRCA0139	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/13/93-10/13/93	0	1	
GRCA0141	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	01/08/95-01/08/95	0	1	
GRCA0142	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/13/93-10/13/93	0	1	
GRCA0143	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/11/76-05/11/76	0	1	
GRCA0150	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	12/08/94-12/08/94	0	1	
GRCA0151	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/15/93-06/06/94	1	2	
GRCA0152	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/23/91-06/05/94	2	3	
GRCA0154	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/23/91-08/23/91	0	1	
GRCA0155	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/09/94-12/08/94	0	2	
GRCA0156	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/08/94-06/08/94	0	1	
GRCA0157	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/24/91-08/24/91	0	1	
GRCA0158	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/17/93-12/06/94	1	3	
GRCA0160	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/17/93-12/07/94	1	2	
GRCA0162	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/05/94-12/06/94	0	2	
GRCA0164	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	06/11/93-11/17/93	0	2	
GRCA0006	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/04/76-08/04/76	0	1	

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

Station/Parameter Period of Record Tabulation
From 08/23/25 To 10/25/95

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
GRCA0015	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	04/30/52-04/30/52	0	1	
GRCA0016	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	04/30/52-04/30/52	0	1	
GRCA0021	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/04/76-08/04/76	0	1	
GRCA0026	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/15/60-06/15/60	0	1	
GRCA0031	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	04/29/76-11/20/81	5	2	
GRCA0038	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11/20/81-11/20/81	0	1	
GRCA0040	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/01/81-09/01/81	0	1	
GRCA0041	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/01/81-09/01/81	0	1	
GRCA0051	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11/11/61-11/11/61	0	1	
GRCA0053	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/02/81-09/02/81	0	1	
GRCA0062	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/01/81-09/01/81	0	1	
GRCA0066	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/01/81-09/01/81	0	1	
GRCA0068	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/01/81-09/01/81	0	1	
GRCA0075	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/04/81-09/04/81	0	1	
GRCA0077	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/03/76-05/03/76	0	1	
GRCA0081	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	09/04/81-09/04/81	0	1	
GRCA0091	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/27/51-06/27/51	0	1	
GRCA0094	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11/19/81-11/19/81	0	1	
GRCA0097	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/27/51-06/27/51	0	1	
GRCA0100	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11/18/81-11/18/81	0	1	
GRCA0104	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11/18/81-11/18/81	0	1	
GRCA0109	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/07/76-05/07/76	0	1	
GRCA0111	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/23/94-08/23/94	0	1	
GRCA0113	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/24/94-08/24/94	0	1	
GRCA0114	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/07/76-05/07/76	0	1	
GRCA0121	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	01/06/95-01/06/95	0	1	
GRCA0122	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	04/01/92-04/01/92	0	1	
GRCA0128	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	01/06/95-01/06/95	0	1	
GRCA0129	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/09/76-08/09/76	0	1	
GRCA0131	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/09/76-01/07/95	18	7	
GRCA0132	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/09/76-05/09/76	0	1	
GRCA0133	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	01/23/92-01/23/92	0	1	
GRCA0135	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/07/51-08/10/76	25	2	
GRCA0137	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/11/90-01/08/95	4	3	
GRCA0138	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/19/93-05/19/93	0	1	
GRCA0139	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/13/93-10/13/93	0	1	
GRCA0141	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	01/08/95-01/08/95	0	1	
GRCA0142	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/13/93-10/13/93	0	1	
GRCA0143	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/11/76-05/11/76	0	1	
GRCA0150	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	12/08/94-12/08/94	0	1	
GRCA0151	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/15/93-06/06/94	1	2	
GRCA0152	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/23/91-06/05/94	2	3	
GRCA0154	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/23/91-08/23/91	0	1	
GRCA0155	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/09/94-12/08/94	0	2	
GRCA0156	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/08/94-06/08/94	0	1	
GRCA0157	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/24/91-08/24/91	0	1	
GRCA0158	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/17/93-12/06/94	1	3	
GRCA0160	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/17/93-12/07/94	1	2	
GRCA0162	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/05/94-12/06/94	0	2	
GRCA0164	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	06/11/93-11/17/93	0	2	

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

Station-By-Station Results

Station Inventory for Station: GRCA0001

NPS Station ID: GRCA0001
LAT/LON: 36.935837/-111.482226
Agency: 1110NET
Date Created: / /
Location: COLORADO RIVER AT PAGE
FIPS State/County: 04000 ARIZONA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 030060 /03110202 /03110203 /060-
RMI-Indexes: 1021001 009360
Within Park Boundary: No
RMI-Miles: 1250.02 0011.00
HUC: 14070006
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LOWER COLORADO RIVER
ECO Region:
RF1 Index: 14070006002
RF1 Mile Point: 1.780
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
ALL SAMPLING DONE APPROX. 1/4 MILE DOWNSTREAM FROM GLEN CANYON DAM. ACTIVATION DATE' NOVEMBER 23,1959. SAMPLED BY U.S.BUREAU OF RECLAMATION. FIELD ANALYSIS BY U.S. BUREAU OF RECLAMATION, AND DEPT. OF THE INTERIOR FWPCA. OTHER COOPERATING AGENCIES'ARIZONA STATE DEPT. OF HEALTH,AND UTAH STATE DEPT. OF HEALTH. NEAREST PERTINENT GAGING STATION' AT LEES FERRY,

Parameter Inventory for Station: GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/23/59-05/25/66	310	12.45	13.354	28.2	0.	49.249	7.018	3.35	9.	19.	23.
00060	FLOW, STREAM, MEAN DAILY CFS	11/23/59-09/27/65	295	6030.	10751.763	79200.	930.	171182424.093	13083.67	1006.	3200.	11300.	29600.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/23/59-09/30/68	282	185.	1286.72	80000.	0.	29844437.028	5463.006	12.5	12.5	770.	2640.
00080	COLOR (PLATINUM-COBALT UNITS)	11/23/59-09/30/68	249	5.	8.177	80.	0.	107.17	10.352	0.	3.	10.	15.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/05/68-11/10/69	19	851.	887.316	1190.	740.	14542.895	120.594	769.	805.	980.	1061.
00300	OXYGEN, DISSOLVED MG/L	11/13/61-05/25/66	124	9.8	9.594	13.5	5.	3.138	1.771	7.3	8.1	10.975	11.8
00310	BOD, 5 DAY, 20 DEG C MG/L	10/29/62-05/25/66	70	1.45	1.733	6.5	0.2	1.396	1.181	0.61	0.9	2.2	3.37
00335	COD, .025N K2CR2O7 MG/L	08/09/65-08/09/65	1	66.	66.	66.	66.	0.	0.	**	**	**	**
00370	CHLORINE DEMAND, 1 HOUR (MG/L)	02/08/65-02/08/65	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00380	CHLORINE DEMAND, 24 HOUR (MG/L)	07/10/61-02/08/65	2	3.15	3.15	3.9	2.4	1.125	1.061	**	**	**	**
00400	PH (STANDARD UNITS)	11/23/59-05/25/66	311	8.1	8.097	9.5	7.1	0.054	0.233	7.8	8.	8.2	8.3
00400	CONVERTED PH (STANDARD UNITS)	11/23/59-05/25/66	311	8.1	8.034	9.5	7.1	0.058	0.242	7.8	8.	8.2	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/23/59-05/25/66	311	0.008	0.009	0.079	0.	0.	0.006	0.005	0.006	0.01	0.016
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/60-09/30/68	302	145.5	153.119	550.	70.	2471.016	49.709	108.3	123.	167.25	199.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/18/61-05/25/66	172	858.	807.785	1926.	230.	77625.351	278.613	409.5	624.75	972.25	1097.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/23/59-09/26/66	254	226.5	1009.146	10860.	6.	3759846.41	1939.032	19.5	42.5	943.	2551.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/04/61-12/03/62	37	0.1	0.211	0.9	0.	0.068	0.26	0.	0.	0.4	0.62
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/07/64-09/30/68	29	0.94	0.96	1.8	0.14	0.143	0.378	0.4	0.75	1.15	1.5
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	12/07/64-09/30/68	27	0.5	0.62	2.2	0.05	0.226	0.476	0.1	0.3	0.8	1.32
00636	NITROGEN, AMMONIA&ORG., DISS. 1 DET (MG/L AS N)	01/04/65-09/30/68	10	0.45	0.375	0.8	0.	0.067	0.26	0.005	0.088	0.525	0.78
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	10/15/61-05/10/65	113	0.	0.098	7.6	0.	0.568	0.754	0.	0.	0.	0.
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/04/65-09/30/68	17 ##	0.005	0.024	0.24	0.	0.003	0.057	0.004	0.005	0.01	0.096
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/07/64-09/30/68	23 ##	0.005	0.007	0.02	0.005	0.	0.004	0.005	0.005	0.005	0.01
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/04/65-09/30/68	19	4.6	4.979	11.	1.2	5.215	2.284	2.4	3.2	6.5	7.8
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/05/65-09/30/68	20	3.5	3.453	8.	0.25	3.437	1.854	1.	2.475	4.	7.08
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/60-09/30/68	315	370.	363.206	780.	140.	15542.05	124.668	192.	270.	440.	522.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/62-04/01/68	10	75.5	97.5	205.	40.	2744.722	52.39	42.2	62.75	143.75	200.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/62-04/01/68	10	4.7	4.9	8.3	1.2	5.809	2.41	1.23	3.15	7.5	8.22
00940	CHLORIDE,TOTAL IN WATER MG/L	11/23/59-09/30/68	267	85.	81.285	180.	6.	1503.37	38.773	24.8	48.	108.	135.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/61-09/30/68	145	320.	307.29	500.	46.	12423.86	111.462	119.	240.5	400.	440.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/62-04/01/68	10	0.295	0.331	0.52	0.2	0.012	0.11	0.201	0.255	0.425	0.518

** - Less than 9 observations ## - 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: GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/01/62-04/01/68	12 ##	25.	23.583	40.5	5.	151.902	12.325	5.15	10.75	34.625	39.6
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/01/62-04/01/68	10	58.5	63.9	108.	30.	593.211	24.356	31.	46.	87.25	106.3
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/01/62-07/01/67	9 ##	0.12	0.108	0.15	0.045	0.001	0.037	0.045	0.075	0.14	0.15
01020	BORON, DISSOLVED (UG/L AS B)	10/01/62-04/01/68	11	150.	185.727	432.	86.	11681.218	108.08	88.	108.	228.	411.6
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/01/62-04/01/68	12 ##	7.75	9.208	33.	1.	84.657	9.201	1.	1.	13.25	27.6
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/01/62-07/01/67	10 ##	6.	6.	12.	0.5	15.167	3.894	0.5	2.75	9.125	11.9
01035	COBALT, DISSOLVED (UG/L AS CO)	10/01/62-04/01/68	12 ##	10.5	8.333	16.5	1.	37.333	6.11	1.	1.	13.375	15.9
01040	COPPER, DISSOLVED (UG/L AS CU)	10/01/62-04/01/68	12 ##	5.25	5.083	10.	0.5	7.947	2.819	0.95	2.625	6.875	9.55
01045	IRON, TOTAL (UG/L AS FE)	10/01/62-04/01/68	12 ##	10.5	29.	127.	0.5	1794.773	42.365	0.5	1.	41.75	119.2
01049	LEAD, DISSOLVED (UG/L AS PB)	10/01/62-04/01/68	12 ##	20.25	16.792	33.	2.	146.475	12.103	2.	2.125	27.	31.65
01055	MANGANESE, TOTAL (UG/L AS MN)	10/01/62-04/01/68	12 ##	3.725	3.746	9.	0.5	8.059	2.839	0.5	0.725	6.2	8.4
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/01/62-04/01/68	12 ##	25.	27.083	100.	2.	719.674	26.827	2.	5.375	31.875	84.4
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/01/62-04/01/68	12 ##	7.75	7.792	16.5	1.	35.339	5.945	1.	1.	13.25	15.9
01070	PHOSPHORUS, TOTAL, SPECTROGRAPH METH (UG/L AS P)	10/01/62-07/01/67	9 ##	48.	50.944	125.	16.5	968.965	31.128	16.5	32.25	58.	125.
01075	SILVER, DISSOLVED (UG/L AS AG)	10/01/62-04/01/68	12 ##	1.125	1.375	3.5	0.1	1.231	1.109	0.1	0.375	2.213	3.35
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/01/62-04/01/68	11	527.	619.	1254.	265.	92818.4	304.661	269.6	400.	792.	1205.2
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/01/62-04/01/68	12 ##	21.	16.208	33.	2.	149.021	12.207	2.	2.125	26.5	31.65
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/01/62-04/01/68	12 ##	13.25	16.25	77.	1.	412.568	20.312	1.	3.25	18.375	59.9
01105	ALUMINUM, TOTAL (UG/L AS AL)	04/01/63-07/01/67	8 ##	24.5	27.375	50.	12.	180.339	13.429	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/01/62-04/01/63	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
01501	ALPHA, TOTAL	11/23/59-09/22/69	399	8.	24.09	473.	0.	2008.248	44.813	4.	5.	23.	59.
01502	ALPHA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	314	3.	7.21	137.	0.	219.093	14.802	1.	2.	7.	12.5
01503	ALPHA, DISSOLVED	11/23/59-09/22/69	399	6.	7.799	49.	0.	30.256	5.501	3.	4.	9.	14.
01504	ALPHA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	314	3.	3.697	17.	0.	6.261	2.502	1.	2.	5.	7.
01505	ALPHA, SUSPENDED	11/23/59-09/22/69	399	0.	16.319	469.	0.	1901.207	43.603	0.	0.	14.	47.
01506	ALPHA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	314	0.	4.613	137.	0.	233.599	15.284	0.	0.	1.	11.5
03501	BETA, TOTAL	11/23/59-09/22/69	401	32.	87.783	1891.	0.	38459.06	196.11	11.2	17.	67.	176.4
03502	BETA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	315	7.	21.556	450.	1.	1955.547	44.222	3.	3.	25.	50.2
03503	BETA, DISSOLVED	11/23/59-09/22/69	400	21.	25.83	130.	0.	379.154	19.472	1.	12.	39.	52.
03504	BETA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	315	7.	11.648	64.	2.	125.898	11.22	3.	3.	17.	31.4
03505	BETA, SUSPENDED	11/23/59-09/22/69	400	2.	62.15	1824.	0.	36324.06	190.589	0.	0.2	34.	151.9
03506	BETA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	315	3.	15.553	448.	0.1	1918.117	43.796	0.3	1.	11.	37.
13501	STRONTIUM 90, TOTAL	10/01/59-04/01/69	17	2.	2.682	6.9	0.2	4.218	2.054	0.28	1.2	4.55	6.1
13502	STRONTIUM 90, TOTAL, COUNTING ERROR	01/01/65-04/01/69	3	0.6	0.533	0.7	0.3	0.043	0.208	**	**	**	**
13503	STRONTIUM 90, DISSOLVED	07/01/69-07/01/69	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
13504	STRONTIUM 90, DISSOLVED, COUNTING ERROR	07/01/69-07/01/69	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
15501	STRONTIUM 89, TOTAL	01/01/69-07/01/69	3	0.	0.333	1.	0.	0.333	0.577	**	**	**	**
15502	STRONTIUM 89, TOTAL, COUNTING ERROR	01/01/69-07/01/69	3	1.	1.333	2.	1.	0.333	0.577	**	**	**	**
30004	FENSULFOTHION, WATER, WHOLE, RECOVERABLE UG/L	08/15/70-11/16/70	4	597.	608.25	708.	531.	6680.917	81.737	**	**	**	**
30205	TEMPERATURE, WOOD (FIRE POTENTIAL) DEG F	10/23/68-10/23/68	1	75.	75.	75.	75.	0.	0.	**	**	**	**
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/23/59-05/25/66	242	100.	690.771	26000.	0.5	4657929.637	2158.224	20.	20.	400.	2000.
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	11/23/59-05/25/66	242	2.	2.071	4.415	-0.301	0.582	0.763	1.301	1.301	2.602	3.301
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			117.626								
32000	SAMPLE SIZE (LITERS)	11/15/67-02/17/71	24	1354.	1776.667	11340.	1112.	4167908.841	2041.546	1205.	1292.5	1447.25	1659.5
32001	SAMPLE SIZE (GALLONS)	11/30/59-02/17/71	51	501.	2726.804	8890.	313.	6614210.001	2571.811	341.	362.	5050.	5755.8
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	11/30/59-02/17/71	62	590.	522.097	1121.	77.	147087.433	383.52	104.2	117.	884.75	1052.7
32004	CARBON ALCOHOL EXTRACTABLES	11/30/59-02/17/71	58	507.5	451.638	1022.	44.	139390.2	373.35	62.8	87.25	843.25	985.1
32005	CARBON CHLOROFORM EXTRACTABLES	11/30/59-02/17/71	62	61.	59.484	111.	9.	904.352	30.072	19.3	31.	84.25	101.7
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	11/30/59-12/07/61	17	0.	0.412	3.	0.	0.632	0.795	0.	0.	1.	1.4
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	11/30/59-12/07/61	17	5.	5.588	14.	2.	10.882	3.299	2.	3.	6.5	12.4
32023	ACIDS, STRONG	11/30/59-12/07/61	17	1.	1.353	4.	0.	1.118	1.057	0.	1.	2.	3.2
32024	ACIDS, WEAK	11/30/59-12/07/61	17	2.	2.765	5.	1.	1.316	1.147	1.8	2.	3.5	5.
32025	BASES	11/30/59-12/07/61	17	1.	1.353	7.	0.	2.368	1.539	0.	1.	1.	3.
32026	NEUTRALS, TOTAL	11/30/59-12/07/61	17	11.	12.235	23.	5.	20.566	4.535	7.4	9.	15.	20.6
32027	ALIPHATICS FRACTION OF NEUTRALS	11/30/59-12/07/61	17	2.	2.412	10.	1.	4.632	2.152	1.	1.	3.	5.2
32028	AROMATICS FRACTION OF NEUTRALS	11/30/59-12/07/61	17	1.	1.294	4.	0.	0.721	0.849	0.8	1.	1.5	2.4
32029	OXYGENATED COMPOUNDS FRACTION OF NEUTRALS	11/30/59-12/07/61	17	8.	8.294	17.	4.	8.346	2.889	4.8	6.5	9.5	12.2
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	03/02/64-09/30/68	42	0.04	0.039	0.08	0.	0.	0.018	0.02	0.02	0.05	0.067
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	7	0.	0.012	0.085	0.	0.001	0.032	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/06/60-09/29/67	6	0.	0.	0.	0.	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/13/66-09/13/66	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	7	0.	0.	0.001	0.	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	7	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	6	0.	0.01	0.058	0.	0.001	0.024	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	7	0.001	0.001	0.006	0.	0.	0.002	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	6	0.	0.002	0.012	0.	0.	0.005	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	6	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/06/60-09/29/67	6	0.	0.	0.	0.	0.	0.	**	**	**	**
60050	ALGAE, TOTAL (CELLS/ML)	10/02/61-11/04/68	102	200.	863.725	32600.	0.	12246888.954	3499.556	0.	100.	600.	1100.
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	102	0.	10.392	490.	0.	2932.518	54.153	0.	0.	0.	0.
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	102	0.	10.098	840.	0.	6939.594	83.304	0.	0.	0.	0.
60200	ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/04/68	102	0.	45.294	890.	0.	13096.447	114.44	0.	0.	52.5	144.
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/04/68	102	0.	0.686	40.	0.	24.277	4.927	0.	0.	0.	0.
60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-09/30/68	101	0.	43.465	760.	0.	15562.871	124.751	0.	0.	20.	90.
60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-09/30/68	101	0.	10.099	740.	0.	5498.99	74.155	0.	0.	0.	8.
60390	DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	12/02/61-05/02/67	63	39.	47.794	98.	11.	565.005	23.77	20.	26.	67.	82.4
60391	DIATOMS,PERCENT OF TOTAL,SECOND DOMINANT SPECIES	11/04/66-11/04/66	1	29.	29.	29.	29.	0.	0.	**	**	**	**
60392	DIATOMS,PERCENT OF TOTAL,THIRD DOMINANT SPECIES	11/04/66-11/04/66	1	14.	14.	14.	14.	0.	0.	**	**	**	**
60394	DIATOMS,PERCENT OF TOTAL,ALL OTHER SPECIES	10/03/66-05/02/67	3	21.	17.333	29.	2.	192.333	13.868	**	**	**	**
60400	DIATOMS, CENTRIC (/ML)	10/02/61-09/09/68	100	5.	197.6	4350.	0.	437119.434	661.15	0.	0.	67.5	328.
60600	DIATOMS, PENNATE (/ML)	10/02/61-09/30/68	101	90.	558.614	28060.	0.	8436706.059	2904.601	0.	20.	250.	736.
60610	DIATOM, INERT SHELLS - CENTRIC (/ML)	10/03/66-09/30/68	15	0.	1.333	20.	0.	26.667	5.164	0.	0.	0.	8.
60620	DIATOM, INERT SHELLS - PENNATE (/ML)	10/03/66-11/04/68	16	0.	13.75	70.	0.	385.	19.621	0.	0.	27.5	42.
60820	PROTOZOA, TOTAL (/ML)	10/02/61-04/01/63	25	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60850	ROTIFERS, TOTAL (/LITER)	10/02/61-04/15/63	27	0.	10.704	286.	0.	3027.37	55.022	0.	0.	0.	0.6
60900	CRUSTACEA, TOTAL (/LITER)	10/02/61-04/15/63	27	0.	0.741	18.	0.	11.969	3.46	0.	0.	0.	1.
60950	NEMATODES, TOTAL (/LITER)	10/02/61-04/15/63	26	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60990	ZOOPLANKTON OTHER (/LITER)	10/02/61-04/15/63	26	0.	0.038	1.	0.	0.038	0.196	0.	0.	0.	0.
63400	INVALID	09/30/68-09/30/68	1	60.	60.	60.	60.	0.	0.	**	**	**	**
71000	COUNT LEVEL OF MOST ABNDNT ALGAE1ST DOMINANT /ML	05/02/67-05/02/67	1	450.	450.	450.	450.	0.	0.	**	**	**	**
71010	GENUS OF MOST ABUNDANT ALGAE 1ST DOMINANT /ML	05/02/67-05/02/67	1	77.	77.	77.	77.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRCA0001

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	282	147	0.52	130	66	0.51	82	42	0.51	70	39	0.56			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	124	0	0.00	55	0	0.00	38	0	0.00	31	0	0.00			
00400	PH	Other-Hi Lim.	9.	311	1	0.00	145	0	0.00	87	1	0.01	79	0	0.00			
		Other-Lo Lim.	6.5	311	0	0.00	145	0	0.00	87	0	0.00	79	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	29	0	0.00	15	0	0.00	9	0	0.00	5	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	267	0	0.00	122	0	0.00	76	0	0.00	69	0	0.00			
		Drinking Water	250.	267	0	0.00	122	0	0.00	76	0	0.00	69	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	145	107	0.74	63	48	0.76	45	34	0.76	37	25	0.68			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	10	0	0.00	5	0	0.00	4	0	0.00	1	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	12	0	0.00	6	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	50.	12	0	0.00	6	0	0.00	4	0	0.00	2	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	10	0	0.00	4	0	0.00	4	0	0.00	2	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	4.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	4 &	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5.	4 &	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	10	0	0.00	5	0	0.00	3	0	0.00	2	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	12	0	0.00	6	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	1300.	12	0	0.00	6	0	0.00	4	0	0.00	2	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	12	0	0.00	6	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	15.	5 &	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	12	0	0.00	6	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	100.	12	0	0.00	6	0	0.00	4	0	0.00	2	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	12	0	0.00	6	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	100.	12	0	0.00	6	0	0.00	4	0	0.00	2	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: GRCA0001

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01090	ZINC, DISSOLVED	Fresh Acute	120.	12	0	0.00	6	0	0.00	4	0	0.00	2	0	0.00			
		Drinking Water	5000.	12	0	0.00	6	0	0.00	4	0	0.00	2	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	2	0	0.00	1	0	0.00	1	0	0.00						
13501	STRONTIUM 90, TOTAL	Drinking Water	8.	17	0	0.00	10	0	0.00	4	0	0.00	3	0	0.00			
13503	STRONTIUM 90, DISSOLVED	Drinking Water	8.	1	0	0.00							1	0	0.00			
31503	COLIFORM, TOTAL, MEMBR FILTER, DELAYED	Other-Hi Lim.	1000.	242	40	0.17	117	10	0.09	70	17	0.24	55	13	0.24			
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXT	Fresh Acute	28900.	62	0	0.00	34	0	0.00	14	0	0.00	14	0	0.00			
		Drinking Water	100.	62	57	0.92	34	32	0.94	14	12	0.86	14	13	0.93			
32005	CARBON CHLOROFORM EXTRACTABLES	Fresh Acute	28900.	62	0	0.00	33	0	0.00	14	0	0.00	15	0	0.00			
		Drinking Water	100.	62	8	0.13	33	4	0.12	14	2	0.14	15	2	0.13			
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLU	Fresh Acute	28900.	17	0	0.00	8	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	100.	17	0	0.00	8	0	0.00	5	0	0.00	4	0	0.00			
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBL	Fresh Acute	28900.	17	0	0.00	8	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	100.	17	0	0.00	8	0	0.00	5	0	0.00	4	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	7	0	0.00				1	0	0.00	6	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	6	0	0.00							6	0	0.00			
		Drinking Water	0.2	6	0	0.00							6	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	7	0	0.00				1	0	0.00	6	0	0.00			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	7	0	0.00				1	0	0.00	6	0	0.00			
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	6	0	0.00				1	0	0.00	5	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	7	0	0.00				1	0	0.00	6	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	6	0	0.00				1	0	0.00	5	0	0.00			
		Drinking Water	2.	6	0	0.00				1	0	0.00	5	0	0.00			
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	6	0	0.00				1	0	0.00	5	0	0.00			
		Drinking Water	0.4	6	0	0.00				1	0	0.00	5	0	0.00			
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	6	0	0.00				1	0	0.00	5	0	0.00			
		Drinking Water	0.2	6	0	0.00				1	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 1959 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/23/59-05/25/66	6	2.75	2.933	5.1	0.5	2.427	1.558	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	11/23/59-09/27/65	6	6035.	6115.	7180.	4580.	917870.	958.055	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/23/59-09/30/68	6	500.	565.	1000.	390.	48350.	219.886	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	11/23/59-09/30/68	6	6.	7.833	15.	6.	12.967	3.601	**	**	**	**
00400	PH (STANDARD UNITS)	11/23/59-05/25/66	6	8.1	8.1	8.2	8.	0.008	0.089	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/23/59-05/25/66	6	8.1	8.092	8.2	8.	0.008	0.09	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/23/59-05/25/66	6	0.008	0.008	0.01	0.006	0.	0.002	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/23/59-09/26/66	6	421.	667.	1758.	368.	294762.8	542.921	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/23/59-09/30/68	6	110.5	113.	137.	98.	215.2	14.67	**	**	**	**
01501p	ALPHA, TOTAL	11/23/59-09/22/69	6	39.	42.5	87.	23.	538.3	23.201	**	**	**	**
01503p	ALPHA, DISSOLVED	11/23/59-09/22/69	6	12.5	11.5	15.	7.	10.7	3.271	**	**	**	**
01505p	ALPHA, SUSPENDED	11/23/59-09/22/69	6	26.	31.	72.	10.	477.2	21.845	**	**	**	**
03501p	BETA, TOTAL	11/23/59-09/22/69	6	50.	51.5	88.	20.	765.5	27.668	**	**	**	**
03503p	BETA, DISSOLVED	11/23/59-09/22/69	6	1.5	7.167	22.	0.	100.967	10.048	**	**	**	**
03505p	BETA, SUSPENDED	11/23/59-09/22/69	6	34.5	44.333	86.	18.	851.467	29.18	**	**	**	**
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/23/59-05/25/66	2 ##	75.	75.	100.	50.	1250.	35.355	**	**	**	**
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	11/23/59-05/25/66	2 ##	1.849	1.849	2.	1.699	0.045	0.213	**	**	**	**
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			70.711								

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Annual Analysis for 1960 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/23/59-05/25/66	51	12.4	13.818	28.2	0.	83.825	9.156	2.24	4.4	22.2	26.42
00060	FLOW, STREAM, MEAN DAILY CFS	11/23/59-09/27/65	53	5970.	12071.132	44000.	2250.	131546729.463	11469.382	3094.	4775.	18550.	32380.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/23/59-09/30/68	49	650.	1261.633	8000.	5.	2823179.571	1680.232	280.	395.	1000.	3600.
00080	COLOR (PLATINUM-COBALT UNITS)	11/23/59-09/30/68	45	9.	15.111	80.	0.	362.874	19.049	5.	8.	10.	35.
00400	PH (STANDARD UNITS)	11/23/59-05/25/66	50	8.1	8.068	8.5	7.6	0.036	0.19	7.8	7.975	8.125	8.39
00400	CONVERTED PH (STANDARD UNITS)	11/23/59-05/25/66	50	8.1	8.028	8.5	7.6	0.038	0.194	7.8	7.975	8.125	8.39
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/23/59-05/25/66	50	0.008	0.009	0.025	0.003	0.	0.004	0.004	0.008	0.011	0.016
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/60-09/30/68	31	180.	182.258	550.	84.	7677.331	87.62	94.4	109.	220.	262.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/23/59-09/26/66	46	726.5	1521.	9222.	31.	4128158.889	2031.787	169.9	430.25	1539.	4236.5
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/60-09/30/68	48	417.	414.958	746.	158.	26365.828	162.376	193.4	242.	549.	633.2
00940	CHLORIDE,TOTAL IN WATER MG/L	11/23/59-09/30/68	51	106.	89.118	151.	17.	2020.946	44.955	22.2	39.	128.	143.
01501p	ALPHA, TOTAL	11/23/59-09/22/69	46	38.	56.413	267.	6.	3370.337	58.055	12.1	22.75	62.5	150.9
01503p	ALPHA, DISSOLVED	11/23/59-09/22/69	46	12.	12.826	49.	1.	97.836	9.891	3.	5.	17.25	25.8
01505p	ALPHA, SUSPENDED	11/23/59-09/22/69	46	21.	43.587	265.	0.	3221.537	56.759	2.7	10.	47.75	129.9
03501p	BETA, TOTAL	11/23/59-09/22/69	46	63.	103.804	504.	0.	14516.161	120.483	8.1	31.75	136.	255.4
03503p	BETA, DISSOLVED	11/23/59-09/22/69	46	2.5	9.761	67.	0.	246.719	15.707	0.	0.	11.25	39.9
03505p	BETA, SUSPENDED	11/23/59-09/22/69	46	55.5	94.043	495.	0.	14283.065	119.512	2.8	19.75	122.	255.4
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/23/59-05/25/66	26	650.	1678.5	10000.	10.	6413678.5	2532.524	50.	175.	2000.	5220.
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	11/23/59-05/25/66	26	2.801	2.762	4.	1.	0.547	0.74	1.699	2.226	3.301	3.676
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			577.93								

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Annual Analysis for 1961 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/23/59-05/25/66	48	13.25	13.51	28.	0.3	75.479	8.688	1.1	6.275	20.	26.55
00060	FLOW, STREAM, MEAN DAILY CFS	11/23/59-09/27/65	49	8360.	10634.082	39200.	3200.	62954978.827	7934.417	3970.	5140.	11100.	24700.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/23/59-09/30/68	48	780.	2375.354	32000.	15.	27482966.021	5242.42	20.	390.	1925.	5300.
00080	COLOR (PLATINUM-COBALT UNITS)	11/23/59-09/30/68	31	5.	6.484	25.	0.	31.725	5.632	0.	3.	8.	14.
00300	OXYGEN, DISSOLVED MG/L	11/13/61-05/25/66	5	11.5	11.48	12.5	10.6	0.637	0.798	**	**	**	**

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Annual Analysis for 1961 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	11/23/59-05/25/66	48	8.1	8.1	8.7	7.6	0.039	0.197	7.8	8.	8.2	8.3
00400	CONVERTED PH (STANDARD UNITS)	11/23/59-05/25/66	48	8.1	8.057	8.7	7.6	0.041	0.202	7.8	8.	8.2	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/23/59-05/25/66	48	0.008	0.009	0.025	0.002	0.	0.004	0.005	0.006	0.01	0.016
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/60-09/30/68	48	173.	185.271	450.	96.	4512.414	67.175	117.4	148.	198.	311.6
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/18/61-05/25/66	13	956.	1110.308	1926.	763.	148348.397	385.16	783.4	861.5	1332.5	1889.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/23/59-09/26/66	38	1042.	2251.474	9999.	135.	7675638.58	2770.494	165.5	615.75	2594.75	6965.1
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/60-09/30/68	48	400.	397.604	700.	192.	14369.563	119.873	203.6	310.	459.	566.
00940	CHLORIDE,TOTAL IN WATER MG/L	11/23/59-09/30/68	47	58.	74.191	159.	20.	1764.028	42.	24.8	48.	123.	140.
01501p	ALPHA, TOTAL	11/23/59-09/22/69	38	49.5	72.237	473.	9.	7073.267	84.103	16.6	26.	85.75	136.6
01502p	ALPHA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	5	19.	28.2	83.	6.	973.7	31.204	**	**	**	**
01503p	ALPHA, DISSOLVED	11/23/59-09/22/69	38	8.	9.763	27.	2.	43.645	6.606	3.	5.	12.25	23.1
01504p	ALPHA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	5	5.	5.	6.	4.	0.5	0.707	**	**	**	**
01505p	ALPHA, SUSPENDED	11/23/59-09/22/69	38	42.	62.737	469.	0.	7125.388	84.412	1.	17.25	75.	127.3
01506p	ALPHA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	5	20.	32.4	83.	11.	846.3	29.091	**	**	**	**
03501p	BETA, TOTAL	11/23/59-09/22/69	38	84.	270.	1891.	0.	190221.405	436.144	10.1	26.75	236.5	904.2
03502p	BETA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	5	52.	61.6	125.	35.	1329.3	36.46	**	**	**	**
03503p	BETA, DISSOLVED	11/23/59-09/22/69	38	13.5	20.526	77.	0.	473.283	21.755	0.	0.	33.25	56.5
03504p	BETA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	5	26.	27.4	42.	21.	74.3	8.62	**	**	**	**
03505p	BETA, SUSPENDED	11/23/59-09/22/69	38	64.	249.474	1824.	0.	178155.77	422.085	0.	17.5	202.25	884.1
03506p	BETA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	5	45.	54.8	118.	28.	1318.7	36.314	**	**	**	**
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/23/59-05/25/66	35	200.	733.443	3300.	0.5	903795.747	950.682	50.	50.	1000.	2380.
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	11/23/59-05/25/66	35	2.301	2.355	3.519	-0.301	0.68	0.824	1.699	1.699	3.	3.372
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			226.304								
60050	ALGAE, TOTAL (CELLS/ML)	10/02/61-11/04/68	5	200.	360.	1000.	0.	188000.	433.59	**	**	**	**
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	5	0.	0.	0.	0.	0.	0.	**	**	**	**
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	5	0.	0.	0.	0.	0.	0.	**	**	**	**
60200	ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/04/68	5	0.	4.	20.	0.	80.	8.944	**	**	**	**
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/04/68	5	0.	0.	0.	0.	0.	0.	**	**	**	**
60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-09/30/68	5	0.	16.	40.	0.	480.	21.909	**	**	**	**
60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-09/30/68	5	0.	0.	0.	0.	0.	0.	**	**	**	**
60390	DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	12/02/61-05/02/67	1	50.	50.	50.	50.	0.	0.	**	**	**	**
60400	DIATOMS, CENTRIC (/ML)	10/02/61-09/09/68	5	0.	4.	20.	0.	80.	8.944	**	**	**	**
60600	DIATOMS, PENNATE (/ML)	10/02/61-09/30/68	5	250.	344.	890.	0.	144230.	379.776	**	**	**	**

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Annual Analysis for 1962 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/23/59-05/25/66	52	15.75	14.973	27.	0.3	64.517	8.032	3.35	6.85	22.	25.
00060	FLOW, STREAM, MEAN DAILY CFS	11/23/59-09/27/65	54	8080.	19535.	79200.	3000.	389770289.623	19742.601	5035.	6187.5	31450.	54300.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/23/59-09/30/68	53	750.	3426.321	80000.	135.	124089164.568	11139.532	232.	320.	2500.	6200.
00080	COLOR (PLATINUM-COBALT UNITS)	11/23/59-09/30/68	46	7.5	8.87	35.	0.	67.894	8.24	0.	0.	15.	21.3
00300	OXYGEN, DISSOLVED MG/L	11/13/61-05/25/66	47	9.5	9.602	13.5	5.9	3.152	1.775	7.5	8.	11.	12.
00400	PH (STANDARD UNITS)	11/23/59-05/25/66	53	8.1	8.058	8.6	7.1	0.078	0.279	7.7	7.9	8.2	8.4
00400	CONVERTED PH (STANDARD UNITS)	11/23/59-05/25/66	53	8.1	7.949	8.6	7.1	0.09	0.3	7.7	7.9	8.2	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/23/59-05/25/66	53	0.008	0.011	0.079	0.003	0.	0.012	0.004	0.006	0.013	0.02
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/60-09/30/68	51	160.	167.02	292.	92.	1296.26	36.004	124.	146.	180.	217.6
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/18/61-05/25/66	51	776.	785.118	1411.	397.	66044.986	256.992	474.8	547.	1000.	1098.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/23/59-09/26/66	45	1054.	1938.2	10860.	85.	6000822.073	2449.658	318.8	501.	1907.5	6306.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/60-09/30/68	52	369.	370.404	780.	148.	23052.559	151.831	180.	230.25	465.5	540.
00940	CHLORIDE,TOTAL IN WATER MG/L	11/23/59-09/30/68	50	75.5	69.44	150.	6.	1578.17	39.726	19.1	30.5	96.25	133.4
01501p	ALPHA, TOTAL	11/23/59-09/22/69	43	33.	50.953	287.	3.	3101.76	55.693	13.4	20.	54.	118.
01502p	ALPHA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	43	16.	27.698	137.	2.	925.264	30.418	5.8	9.	30.	81.4
01503p	ALPHA, DISSOLVED	11/23/59-09/22/69	43	7.	7.767	19.	0.	22.087	4.7	2.	3.	11.	15.
01504p	ALPHA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	43	5.	5.186	11.	1.	6.155	2.481	2.	3.	7.	8.6
01505p	ALPHA, SUSPENDED	11/23/59-09/22/69	43	28.	43.186	285.	1.	3052.679	55.251	7.	12.	48.	107.

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Annual Analysis for 1962 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01506p	ALPHA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	43	15.	26.605	137.	1.	955.578	30.912	5.	7.	28.	81.
03501p	BETA, TOTAL	11/23/59-09/22/69	44	141.5	269.773	1320.	31.	91355.017	302.25	57.	87.	297.5	773.
03502p	BETA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	44	47.	77.568	450.	8.	9009.972	94.921	18.5	33.	67.5	212.5
03503p	BETA, DISSOLVED	11/23/59-09/22/69	44	45.5	40.773	77.	0.	339.482	18.425	16.	24.5	53.75	65.
03504p	BETA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	44	22.	24.	64.	4.	151.163	12.295	8.	15.25	32.	39.
03505p	BETA, SUSPENDED	11/23/59-09/22/69	44	97.	229.	1243.	9.	85717.674	292.776	36.	53.	244.	713.
03506p	BETA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	44	37.	71.159	448.	6.	9247.16	96.162	16.	24.25	61.75	210.
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/23/59-05/25/66	32	125.	770.156	9000.	50.	3549821.749	1884.097	50.	57.5	375.	2310.
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	11/23/59-05/25/66	32	2.097	2.275	3.954	1.699	0.404	0.635	1.699	1.759	2.571	3.363
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			188.317								
60050	ALGAE, TOTAL (CELLS/ML)	10/02/61-11/04/68	22	550.	2690.909	32600.	0.	53316103.896	7301.788	0.	100.	1250.	10510.
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	22	0.	1.818	40.	0.	72.727	8.528	0.	0.	0.	0.
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	22	0.	38.182	840.	0.	32072.727	179.089	0.	0.	0.	0.
60200	ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/04/68	22	0.	86.364	890.	0.	48224.242	219.6	0.	0.	37.5	453.
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/04/68	22	0.	1.818	40.	0.	72.727	8.528	0.	0.	0.	0.
60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-09/30/68	22	0.	49.545	270.	0.	7985.498	89.362	0.	0.	47.5	224.
60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-09/30/68	22	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60390	DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	12/02/61-05/02/67	13	25.	28.077	51.	18.	97.41	9.87	18.	20.	35.5	45.4
60400	DIATOMS, CENTRIC (/ML)	10/02/61-09/09/68	22	20.	427.727	4350.	0.	1215285.065	1102.4	0.	0.	295.	2363.
60600	DIATOMS, PENNATE (/ML)	10/02/61-09/30/68	22	360.	2100.455	28060.	0.	36871937.879	6072.227	0.	125.	1050.	6542.

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Annual Analysis for 1963 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/23/59-05/25/66	44	15.	13.993	21.	0.5	25.231	5.023	6.5	11.125	18.	19.5
00060	FLOW, STREAM, MEAN DAILY CFS	11/23/59-09/27/65	52	1020.	1943.462	7550.	980.	3163026.998	1778.49	1000.	1000.	2472.5	5518.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/23/59-09/30/68	50	## 12.5	21.17	300.	0.	2260.384	47.543	12.5	12.5	12.5	12.5
00080	COLOR (PLATINUM-COBALT UNITS)	11/23/59-09/30/68	46	5.	4.022	15.	0.	14.022	3.745	0.	0.	5.	10.
00300	OXYGEN, DISSOLVED MG/L	11/13/61-05/25/66	16	11.45	11.325	12.6	10.2	0.346	0.588	10.34	10.85	11.675	12.11
00400	PH (STANDARD UNITS)	11/23/59-05/25/66	48	8.	8.075	8.9	7.4	0.089	0.298	7.7	7.925	8.275	8.41
00400	CONVERTED PH (STANDARD UNITS)	11/23/59-05/25/66	48	8.	7.981	8.9	7.4	0.098	0.313	7.7	7.925	8.275	8.41
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/23/59-05/25/66	48	0.01	0.01	0.04	0.001	0.	0.008	0.004	0.005	0.012	0.02
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/60-09/30/68	49	140.	146.939	232.	116.	591.35	24.318	126.	130.	160.	168.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/18/61-05/25/66	50	804.5	830.92	1265.	570.	29482.973	171.706	630.	677.5	960.	1038.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/23/59-09/26/66	49	43.	122.245	1630.	13.	58000.23	240.832	22.	29.5	154.	210.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/60-09/30/68	50	396.	394.36	514.	290.	3944.766	62.807	301.	340.	440.	487.2
00940	CHLORIDE,TOTAL IN WATER MG/L	11/23/59-09/30/68	46	95.	100.435	180.	16.	1008.34	31.754	69.4	81.5	114.5	147.2
01501p	ALPHA, TOTAL	11/23/59-09/22/69	49	9.	9.755	34.	2.	29.647	5.445	5.	6.	11.5	17.
01502p	ALPHA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	49	6.	6.224	20.	4.	6.594	2.568	4.	5.	7.	9.
01503p	ALPHA, DISSOLVED	11/23/59-09/22/69	49	9.	8.714	18.	2.	13.083	3.617	5.	6.	10.	14.
01504p	ALPHA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	49	6.	5.857	9.	4.	2.083	1.443	4.	5.	7.	8.
01505p	ALPHA, SUSPENDED	11/23/59-09/22/69	49	0.	1.041	25.	0.	14.082	3.753	0.	0.	0.5	3.
01506p	ALPHA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	49	1.	1.51	19.	0.	8.047	2.837	0.	0.	2.	3.
03501p	BETA, TOTAL	11/23/59-09/22/69	49	53.	59.041	171.	24.	729.748	27.014	32.	42.5	69.5	95.
03502p	BETA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	49	21.	27.204	85.	4.	299.999	17.32	11.	17.5	33.5	56.
03503p	BETA, DISSOLVED	11/23/59-09/22/69	49	48.	50.796	130.	23.	358.999	18.947	28.	41.	59.5	70.
03504p	BETA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	49	18.	21.837	45.	4.	106.264	10.308	11.	15.5	32.	39.
03505p	BETA, SUSPENDED	11/23/59-09/22/69	49	4.	8.245	124.	0.	333.73	18.268	0.	1.	8.	14.
03506p	BETA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	49	6.	13.673	78.	1.	273.683	16.543	2.	5.	16.5	37.
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/23/59-05/25/66	45	100.	1261.556	26000.	10.	16571308.889	4070.787	20.	20.	740.	3200.
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	11/23/59-05/25/66	45	2.	2.13	4.415	1.	0.744	0.862	1.301	1.301	2.841	3.46
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			134.977								
60050	ALGAE, TOTAL (CELLS/ML)	10/02/61-11/04/68	23	300.	613.043	3200.	0.	780276.68	883.333	100.	100.	700.	2520.
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	23	0.	6.957	140.	0.	858.498	29.3	0.	0.	0.	12.
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	23	0.	7.391	40.	0.	183.794	13.557	0.	0.	20.	36.

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
60200	ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/04/68	23	0.	12.174	150.	0.	999.605	31.617	0.	0.	20.	26.
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/04/68	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-09/30/68	23	0.	27.391	260.	0.	3338.34	57.778	0.	0.	20.	82.
60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-09/30/68	23	0.	6.087	80.	0.	306.719	17.513	0.	0.	0.	20.
60390	DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	12/02/61-05/02/67	16	32.5	41.313	93.	11.	601.296	24.521	15.2	26.	64.75	83.9
60400	DIATOMS, CENTRIC (/ML)	10/02/61-09/09/68	23	20.	371.304	2770.	0.	639584.585	799.74	0.	0.	180.	2130.
60600	DIATOMS, PENNATE (/ML)	10/02/61-09/30/68	23	160.	185.652	740.	0.	26107.51	161.578	20.	80.	240.	370.

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Annual Analysis for 1964 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/23/59-05/25/66	44	9.75	11.695	23.	1.	26.329	5.131	8.	9.	14.	20.5
00060	FLOW, STREAM, MEAN DAILY CFS	11/23/59-09/27/65	48	3990.	4447.083	19100.	930.	16841033.865	4103.783	990.	1012.5	6000.	12110.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/23/59-09/30/68	41 ##	12.5	12.5	12.5	12.5	0.	0.	12.5	12.5	12.5	12.5
00080	COLOR (PLATINUM-COBALT UNITS)	11/23/59-09/30/68	41	5.	7.439	20.	0.	30.152	5.491	0.	5.	10.	15.
00400	PH (STANDARD UNITS)	11/23/59-05/25/66	41	8.2	8.198	9.5	7.8	0.067	0.259	8.	8.05	8.3	8.38
00400	CONVERTED PH (STANDARD UNITS)	11/23/59-05/25/66	41	8.2	8.149	9.5	7.8	0.07	0.264	8.	8.05	8.3	8.38
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/23/59-05/25/66	41	0.006	0.007	0.016	0.	0.	0.003	0.004	0.005	0.009	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/60-09/30/68	47	148.	144.915	176.	104.	315.819	17.771	112.	135.	160.	164.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/18/61-05/25/66	24	950.	930.958	1043.	570.	7532.476	86.79	890.	910.	967.5	1015.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/23/59-09/26/66	35	72.	80.343	310.	27.	2746.35	52.406	34.4	58.	86.	103.2
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/60-09/30/68	41	402.	383.951	500.	200.	7551.098	86.897	220.	390.	440.	470.
00940	CHLORIDE,TOTAL IN WATER MG/L	11/23/59-09/30/68	40	97.5	87.25	114.	32.	675.526	25.991	35.1	86.5	102.75	109.8
01501p	ALPHA, TOTAL	11/23/59-09/22/69	47	7.	7.787	38.	0.	35.432	5.952	2.8	4.	9.	13.2
01502p	ALPHA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	47	5.	6.085	18.	2.	8.297	2.88	3.	4.	8.	9.
01503p	ALPHA, DISSOLVED	11/23/59-09/22/69	47	7.	7.511	30.	0.	26.038	5.103	2.8	4.	9.	13.2
01504p	ALPHA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	47	5.	6.064	17.	2.	7.8	2.793	3.	4.	8.	9.
01505p	ALPHA, SUSPENDED	11/23/59-09/22/69	47	0.	0.277	8.	0.	1.465	1.21	0.	0.	0.	1.
01506p	ALPHA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	47	1.	1.064	5.	0.	0.539	0.734	0.	1.	1.	2.
03501p	BETA, TOTAL	11/23/59-09/22/69	47	37.	38.468	117.	15.	232.385	15.244	22.8	30.	45.	49.2
03502p	BETA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	47	15.	19.745	64.	4.	176.759	13.295	7.	10.	31.	37.6
03503p	BETA, DISSOLVED	11/23/59-09/22/69	47	36.	35.787	78.	11.	120.519	10.978	22.8	28.	42.	45.4
03504p	BETA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	47	12.	14.298	36.	4.	73.735	8.587	7.	8.	19.	32.
03505p	BETA, SUSPENDED	11/23/59-09/22/69	47	1.	2.681	39.	0.	34.526	5.876	0.	0.	3.	5.4
03506p	BETA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	47	6.	11.574	61.	1.	154.728	12.439	2.	3.	16.	31.
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/23/59-05/25/66	44 ##	20.	157.727	3600.	20.	292231.924	540.585	20.	20.	100.	275.
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	11/23/59-05/25/66	44 ##	1.301	1.68	3.556	1.301	0.27	0.519	1.301	1.301	2.	2.438
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			47.867								
60050	ALGAE, TOTAL (CELLS/ML)	10/02/61-11/04/68	19	200.	173.684	600.	0.	25380.117	159.311	0.	0.	300.	400.
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60200	ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/04/68	19	0.	26.842	160.	0.	1922.807	43.85	0.	0.	40.	90.
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/04/68	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-09/30/68	19	0.	8.421	90.	0.	647.368	25.443	0.	0.	0.	70.
60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-09/30/68	19	0.	5.263	50.	0.	204.094	14.286	0.	0.	0.	40.
60390	DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	12/02/61-05/02/67	13	61.	55.462	97.	20.	556.603	23.592	20.	35.	70.	92.2
60400	DIATOMS, CENTRIC (/ML)	10/02/61-09/09/68	19	30.	73.684	450.	0.	13169.006	114.756	0.	0.	90.	290.
60600	DIATOMS, PENNATE (/ML)	10/02/61-09/30/68	19	40.	61.579	230.	0.	3236.257	56.888	0.	30.	100.	120.

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Annual Analysis for 1965 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/23/59-05/25/66	45	13.	14.378	22.	8.	18.286	4.276	9.	11.	18.5	20.
00060	FLOW, STREAM, MEAN DAILY CFS	11/23/59-09/27/65	33	12000.	18328.182	56000.	6380.	207050784.091	14389.259	7346.	9350.	18950.	48560.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/23/59-09/30/68	22 ##	12.5	13.614	37.	12.5	27.284	5.223	12.5	12.5	12.5	12.5
00080	COLOR (PLATINUM-COBALT UNITS)	11/23/59-09/30/68	17	0.	0.647	10.	0.	5.868	2.422	0.	0.	0.	2.8
00300	OXYGEN, DISSOLVED MG/L	11/13/61-05/25/66	37	8.1	8.351	11.7	5.	2.514	1.586	6.5	7.3	9.55	10.52
00400	PH (STANDARD UNITS)	11/23/59-05/25/66	45	8.1	8.118	8.6	7.8	0.035	0.186	7.9	8.	8.2	8.34
00400	CONVERTED PH (STANDARD UNITS)	11/23/59-05/25/66	45	8.1	8.081	8.6	7.8	0.036	0.19	7.9	8.	8.2	8.34
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/23/59-05/25/66	45	0.008	0.008	0.016	0.003	0.	0.003	0.005	0.006	0.01	0.013
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/60-09/30/68	45	120.	120.489	165.	70.	470.528	21.692	95.6	101.	137.5	148.8
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/18/61-05/25/66	27	630.	679.037	1165.	316.	107604.037	328.031	317.8	340.	1045.	1109.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/23/59-09/26/66	13	24.	21.615	33.	11.	79.923	8.94	11.	12.	31.	32.6
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/60-09/30/68	45	230.	264.667	404.	140.	8145.864	90.254	170.	180.	360.	386.2
00940	CHLORIDE,TOTAL IN WATER MG/L	11/23/59-09/30/68	11	66.	54.091	79.	16.	609.291	24.684	16.8	24.	74.	78.2
01501p	ALPHA, TOTAL	11/23/59-09/22/69	41	4.	5.366	14.	1.	11.488	3.389	2.	3.	8.5	10.8
01502p	ALPHA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	41	1.	2.	5.	0.	1.6	1.265	1.	1.	3.	4.
01503p	ALPHA, DISSOLVED	11/23/59-09/22/69	41	4.	5.244	13.	1.	10.789	3.285	2.	3.	8.	10.8
01504p	ALPHA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	41	1.	2.	5.	0.	1.6	1.265	1.	1.	3.	4.
01505p	ALPHA, SUSPENDED	11/23/59-09/22/69	41	0.	0.122	1.	0.	0.11	0.331	0.	0.	0.	1.
01506p	ALPHA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	41	0.	0.341	1.	0.	0.23	0.48	0.	0.	1.	1.
03501p	BETA, TOTAL	11/23/59-09/22/69	41	19.	21.878	40.	11.	68.46	8.274	13.2	14.	28.	35.6
03502p	BETA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	41	4.	5.61	30.	2.	38.894	6.236	2.	2.	5.	13.
03503p	BETA, DISSOLVED	11/23/59-09/22/69	41	18.	20.61	38.	10.	56.644	7.526	13.	14.	26.	33.2
03504p	BETA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	41	3.	4.	11.	2.	8.4	2.898	2.	2.	3.5	10.
03505p	BETA, SUSPENDED	11/23/59-09/22/69	41	1.	1.268	8.	0.	2.601	1.613	0.	0.	2.	3.
03506p	BETA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	41	2.	3.463	28.	1.	32.755	5.723	1.	1.	3.	7.
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/23/59-05/25/66	41 ##	20.	189.512	2500.	10.	240314.756	490.219	20.	20.	100.	432.
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	11/23/59-05/25/66	41 ##	1.301	1.711	3.398	1.	0.348	0.59	1.301	1.301	2.	2.635
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			51.406								
60050	ALGAE, TOTAL (CELLS/ML)	10/02/61-11/04/68	11	400.	481.818	1000.	0.	135636.364	368.288	20.	100.	800.	1000.
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	11	0.	1.818	20.	0.	36.364	6.03	0.	0.	0.	16.
60200	ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/04/68	11	50.	57.273	180.	0.	2241.818	47.348	4.	20.	70.	158.
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/04/68	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-09/30/68	11	50.	213.636	760.	0.	91405.455	302.333	0.	20.	640.	736.
60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-09/30/68	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60390	DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	12/02/61-05/02/67	11	68.	65.182	94.	35.	244.164	15.626	37.8	53.	73.	90.8
60400	DIATOMS, CENTRIC (/ML)	10/02/61-09/09/68	11	0.	27.273	210.	0.	4121.818	64.201	0.	0.	20.	182.
60600	DIATOMS, PENNATE (/ML)	10/02/61-09/30/68	11	90.	180.	800.	0.	59160.	243.228	4.	20.	310.	722.

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Annual Analysis for 1966 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/23/59-05/25/66	20	10.5	10.65	14.	9.	1.187	1.089	9.1	10.	11.	11.95
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/23/59-09/30/68	6 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	11/23/59-09/30/68	7	15.	10.714	15.	0.	36.905	6.075	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	11/13/61-05/25/66	19	10.1	10.042	12.5	8.4	0.894	0.945	8.5	9.5	10.5	11.
00400	PH (STANDARD UNITS)	11/23/59-05/25/66	20	8.05	8.07	8.2	7.9	0.011	0.103	7.91	8.	8.2	8.2
00400	CONVERTED PH (STANDARD UNITS)	11/23/59-05/25/66	20	8.047	8.058	8.2	7.9	0.011	0.104	7.91	8.	8.2	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/23/59-05/25/66	20	0.009	0.009	0.013	0.006	0.	0.002	0.006	0.006	0.01	0.012
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/60-09/30/68	21	120.	119.095	126.	110.	15.09	3.885	115.	116.	121.5	124.8
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/18/61-05/25/66	7	300.	320.143	527.	230.	9487.476	97.404	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/23/59-09/26/66	22	13.5	22.591	133.	6.	773.206	27.807	7.3	11.	21.5	56.9
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/60-09/30/68	21	278.	274.048	316.	215.	400.148	20.004	246.8	266.5	284.	292.4
00940	CHLORIDE,TOTAL IN WATER MG/L	11/23/59-09/30/68	6	43.5	43.	48.	37.	16.	4.	**	**	**	**
01501p	ALPHA, TOTAL	11/23/59-09/22/69	25	5.	5.08	8.	4.	1.243	1.115	4.	4.	6.	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 1966 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01502p	ALPHA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	25	2.	2.04	3.	2.	0.04	0.2	2.	2.	2.	2.
01503p	ALPHA, DISSOLVED	11/23/59-09/22/69	25	5.	5.08	8.	4.	1.243	1.115	4.	4.	6.	7.
01504p	ALPHA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	25	2.	2.04	3.	2.	0.04	0.2	2.	2.	2.	2.
01505p	ALPHA, SUSPENDED	11/23/59-09/22/69	25	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01506p	ALPHA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	25	0.	0.04	1.	0.	0.04	0.2	0.	0.	0.	0.
03501p	BETA, TOTAL	11/23/59-09/22/69	25	21.	20.68	26.	16.	7.977	2.824	16.6	18.	23.	24.4
03502p	BETA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	25	3.	3.32	5.	2.	0.393	0.627	3.	3.	4.	4.
03503p	BETA, DISSOLVED	11/23/59-09/22/69	25	20.	20.24	25.	14.	8.273	2.876	16.	18.	22.5	23.8
03504p	BETA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	25	3.	3.12	5.	2.	0.277	0.526	3.	3.	3.	4.
03505p	BETA, SUSPENDED	11/23/59-09/22/69	25	0.	0.44	3.	0.	0.507	0.712	0.	0.	1.	1.
03506p	BETA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	25	1.	1.44	3.	1.	0.673	0.821	1.	1.	1.5	3.
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/23/59-05/25/66	17 ##	100.	92.941	500.	20.	12397.059	111.342	20.	20.	100.	180.
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	11/23/59-05/25/66	17 ##	2.	1.789	2.699	1.301	0.156	0.394	1.301	1.301	2.	2.14
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			61.478								
60050	ALGAE, TOTAL (CELLS/ML)	10/02/61-11/04/68	8	50.	112.5	500.	0.	29821.429	172.689	**	**	**	**
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	8	0.	13.75	70.	0.	712.5	26.693	**	**	**	**
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	8	0.	0.	0.	0.	0.	0.	**	**	**	**
60200	ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/04/68	8	35.	50.	180.	0.	3914.286	62.564	**	**	**	**
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/04/68	8	0.	0.	0.	0.	0.	0.	**	**	**	**
60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-09/30/68	8	0.	2.5	20.	0.	50.	7.071	**	**	**	**
60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-09/30/68	8	0.	0.	0.	0.	0.	0.	**	**	**	**
60390	DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	12/02/61-05/02/67	8	46.5	49.875	84.	25.	477.839	21.86	**	**	**	**
60400	DIATOMS, CENTRIC (/ML)	10/02/61-09/09/68	8	0.	1.25	10.	0.	12.5	3.536	**	**	**	**
60600	DIATOMS, PENNATE (/ML)	10/02/61-09/30/68	8	10.	50.	240.	0.	6828.571	82.635	**	**	**	**

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Annual Analysis for 1967 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/23/59-09/30/68	3 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	11/23/59-09/30/68	6	12.5	11.667	15.	5.	16.667	4.082	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/60-09/30/68	6	118.5	119.833	136.	110.	83.767	9.152	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/60-09/30/68	6	280.	288.833	360.	260.	1405.767	37.494	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/23/59-09/30/68	6	47.5	51.	67.	44.	78.8	8.877	**	**	**	**
01501p	ALPHA, TOTAL	11/23/59-09/22/69	28	5.	6.286	15.	3.	9.026	3.004	4.	4.	7.75	12.1
01502p	ALPHA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	28	2.	2.286	3.	2.	0.212	0.46	2.	2.	3.	3.
01503p	ALPHA, DISSOLVED	11/23/59-09/22/69	28	5.	6.179	14.	3.	7.708	2.776	4.	4.	7.75	12.
01504p	ALPHA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	28	2.	2.286	3.	2.	0.212	0.46	2.	2.	3.	3.
01505p	ALPHA, SUSPENDED	11/23/59-09/22/69	28	0.	0.107	1.	0.	0.099	0.315	0.	0.	0.	1.
01506p	ALPHA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	28	0.	0.071	1.	0.	0.069	0.262	0.	0.	0.	0.1
03501p	BETA, TOTAL	11/23/59-09/22/69	28	17.	17.571	30.	11.	16.995	4.122	13.	14.25	19.75	22.3
03502p	BETA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	28	4.	3.643	6.	3.	0.534	0.731	3.	3.	4.	4.1
03503p	BETA, DISSOLVED	11/23/59-09/22/69	28	17.	17.107	29.	11.	14.988	3.871	13.	14.25	19.75	22.1
03504p	BETA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	28	4.	3.536	4.	3.	0.258	0.508	3.	3.	4.	4.
03505p	BETA, SUSPENDED	11/23/59-09/22/69	28	0.	0.464	2.	0.	0.406	0.637	0.	0.	1.	1.1
03506p	BETA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	28	1.	1.214	4.	1.	0.471	0.686	1.	1.	1.	2.1
60050	ALGAE, TOTAL (CELLS/ML)	10/02/61-11/04/68	7	200.	300.	800.	100.	66666.667	258.199	**	**	**	**
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	7	0.	72.857	490.	0.	33890.476	184.094	**	**	**	**
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	7	0.	0.	0.	0.	0.	0.	**	**	**	**
60200	ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/04/68	7	90.	110.	330.	0.	13066.667	114.31	**	**	**	**
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/04/68	7	0.	0.	0.	0.	0.	0.	**	**	**	**
60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-09/30/68	7	0.	8.571	40.	0.	247.619	15.736	**	**	**	**
60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-09/30/68	7	0.	5.714	20.	0.	95.238	9.759	**	**	**	**
60390	DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	12/02/61-05/02/67	1	98.	98.	98.	98.	0.	0.	**	**	**	**
60400	DIATOMS, CENTRIC (/ML)	10/02/61-09/09/68	7	0.	5.714	20.	0.	95.238	9.759	**	**	**	**
60600	DIATOMS, PENNATE (/ML)	10/02/61-09/30/68	7	20.	75.714	330.	0.	14228.571	119.284	**	**	**	**

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Annual Analysis for 1968 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/23/59-09/30/68	4	## 12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	11/23/59-09/30/68	4	14.5	13.5	15.	10.	5.667	2.38	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/60-09/30/68	4	128.5	132.	152.	119.	246.	15.684	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/60-09/30/68	4	344.	322.	400.	200.	7696.	87.727	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/23/59-09/30/68	4	67.	63.	72.	46.	134.667	11.605	**	**	**	**
01501p	ALPHA, TOTAL	11/23/59-09/22/69	38	5.	5.579	14.	1.	5.926	2.434	3.	4.	6.	8.1
01502p	ALPHA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	38	3.	2.816	5.	2.	0.479	0.692	2.	2.	3.	4.
01503p	ALPHA, DISSOLVED	11/23/59-09/22/69	38	5.	5.5	13.	1.	5.662	2.38	2.9	4.	6.	8.1
01504p	ALPHA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	38	3.	2.816	5.	2.	0.479	0.692	2.	2.	3.	4.
01505p	ALPHA, SUSPENDED	11/23/59-09/22/69	38	0.	0.079	1.	0.	0.075	0.273	0.	0.	0.	0.1
01506p	ALPHA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	38	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
03501p	BETA, TOTAL	11/23/59-09/22/69	38	20.	24.026	78.	8.	212.891	14.591	11.9	17.75	25.	38.8
03502p	BETA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	38	5.	7.395	19.	3.	23.597	4.858	3.9	4.	10.	17.
03503p	BETA, DISSOLVED	11/23/59-09/22/69	38	19.	22.947	72.	0.	194.051	13.93	11.9	16.75	24.25	36.8
03504p	BETA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	38	5.	7.395	19.	3.	23.597	4.858	3.9	4.	10.	17.
03505p	BETA, SUSPENDED	11/23/59-09/22/69	38	1.	1.079	9.	0.	3.426	1.851	0.	0.	1.	4.
03506p	BETA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	38	1.	1.579	3.	1.	0.845	0.919	1.	1.	3.	3.
60050	ALGAE, TOTAL (CELLS/ML)	10/02/61-11/04/68	7	100.	200.	700.	0.	53333.333	230.94	**	**	**	**
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	7	0.	34.286	190.	0.	5061.905	71.147	**	**	**	**
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	7	0.	0.	0.	0.	0.	0.	**	**	**	**
60200	ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/04/68	7	0.	15.714	110.	0.	1728.571	41.576	**	**	**	**
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/04/68	7	0.	4.286	30.	0.	128.571	11.339	**	**	**	**
60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-09/30/68	6	0.	0.	0.	0.	0.	0.	**	**	**	**
60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-09/30/68	6	0.	123.333	740.	0.	91266.667	302.104	**	**	**	**
60400	DIATOMS, CENTRIC (/ML)	10/02/61-09/09/68	5	0.	8.	20.	0.	120.	10.954	**	**	**	**
60600	DIATOMS, PENNATE (/ML)	10/02/61-09/30/68	6	10.	23.333	60.	0.	866.667	29.439	**	**	**	**

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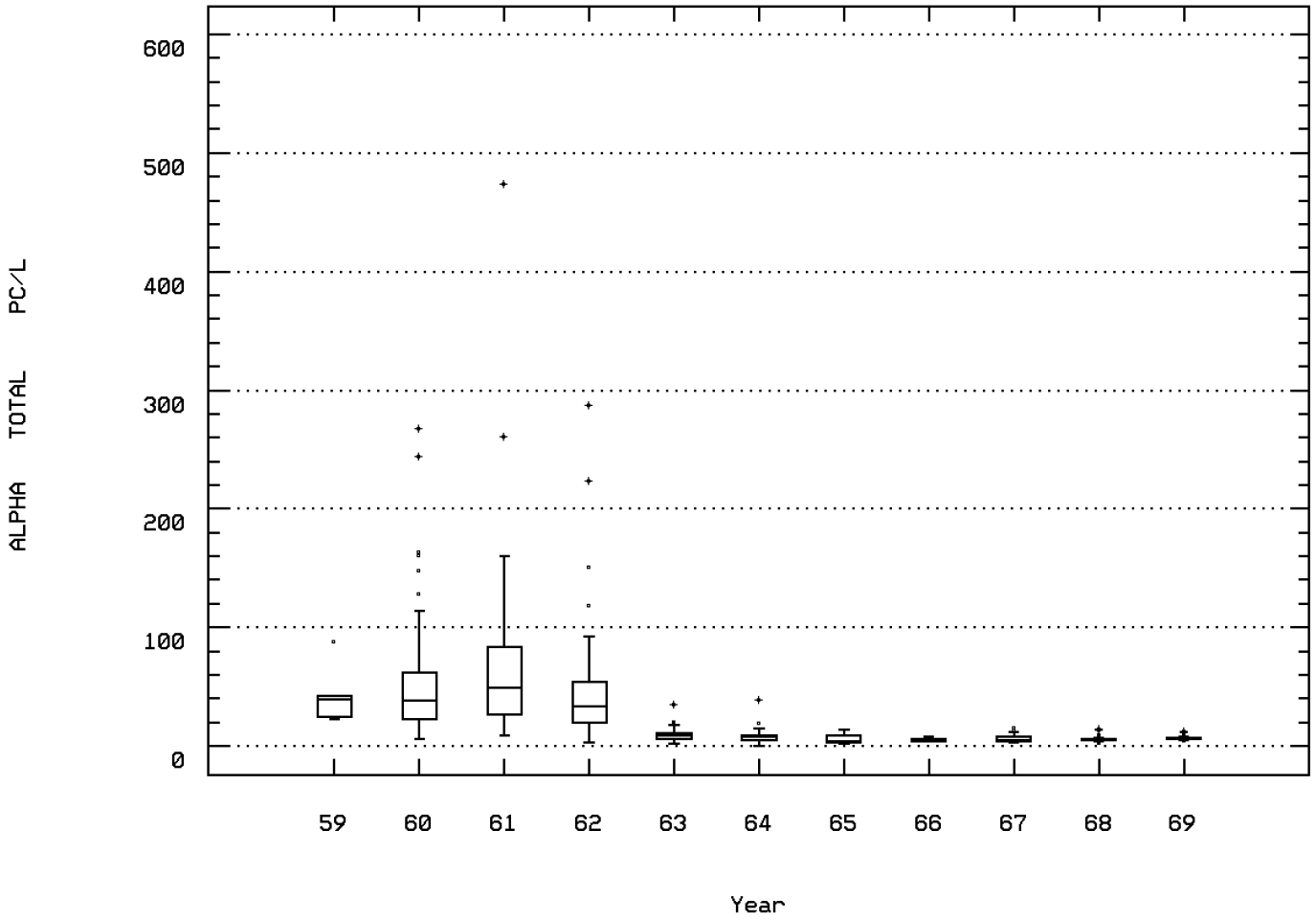
Annual Analysis for 1969 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01501p	ALPHA, TOTAL	11/23/59-09/22/69	38	6.	6.5	12.	4.	2.689	1.64	4.9	5.75	7.	8.1
01502p	ALPHA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	38	1.	0.971	2.	0.5	0.048	0.218	0.69	1.	1.	1.
01503p	ALPHA, DISSOLVED	11/23/59-09/22/69	38	6.	6.421	12.	4.	2.791	1.671	4.	5.75	7.	8.1
01504p	ALPHA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	38	1.	0.971	2.	0.5	0.048	0.218	0.69	1.	1.	1.
01505p	ALPHA, SUSPENDED	11/23/59-09/22/69	38	0.1	0.113	0.7	0.	0.027	0.163	0.	0.	0.1	0.22
01506p	ALPHA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	38	0.	0.037	0.7	0.	0.014	0.117	0.	0.	0.	0.1
03501p	BETA, TOTAL	11/23/59-09/22/69	39	10.	11.974	44.	4.	61.92	7.869	7.	9.	12.	16.
03502p	BETA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	38	3.	2.947	6.	1.	0.808	0.899	2.	2.	3.	4.
03503p	BETA, DISSOLVED	11/23/59-09/22/69	38	9.	10.342	42.	4.	32.934	5.739	6.9	8.	11.	13.
03504p	BETA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	38	3.	2.947	6.	2.	0.7	0.837	2.	2.	3.	4.
03505p	BETA, SUSPENDED	11/23/59-09/22/69	38	0.6	1.708	31.	0.2	24.777	4.978	0.2	0.4	1.	3.1
03506p	BETA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	38	0.1	0.218	3.	0.1	0.223	0.472	0.1	0.1	0.1	0.31

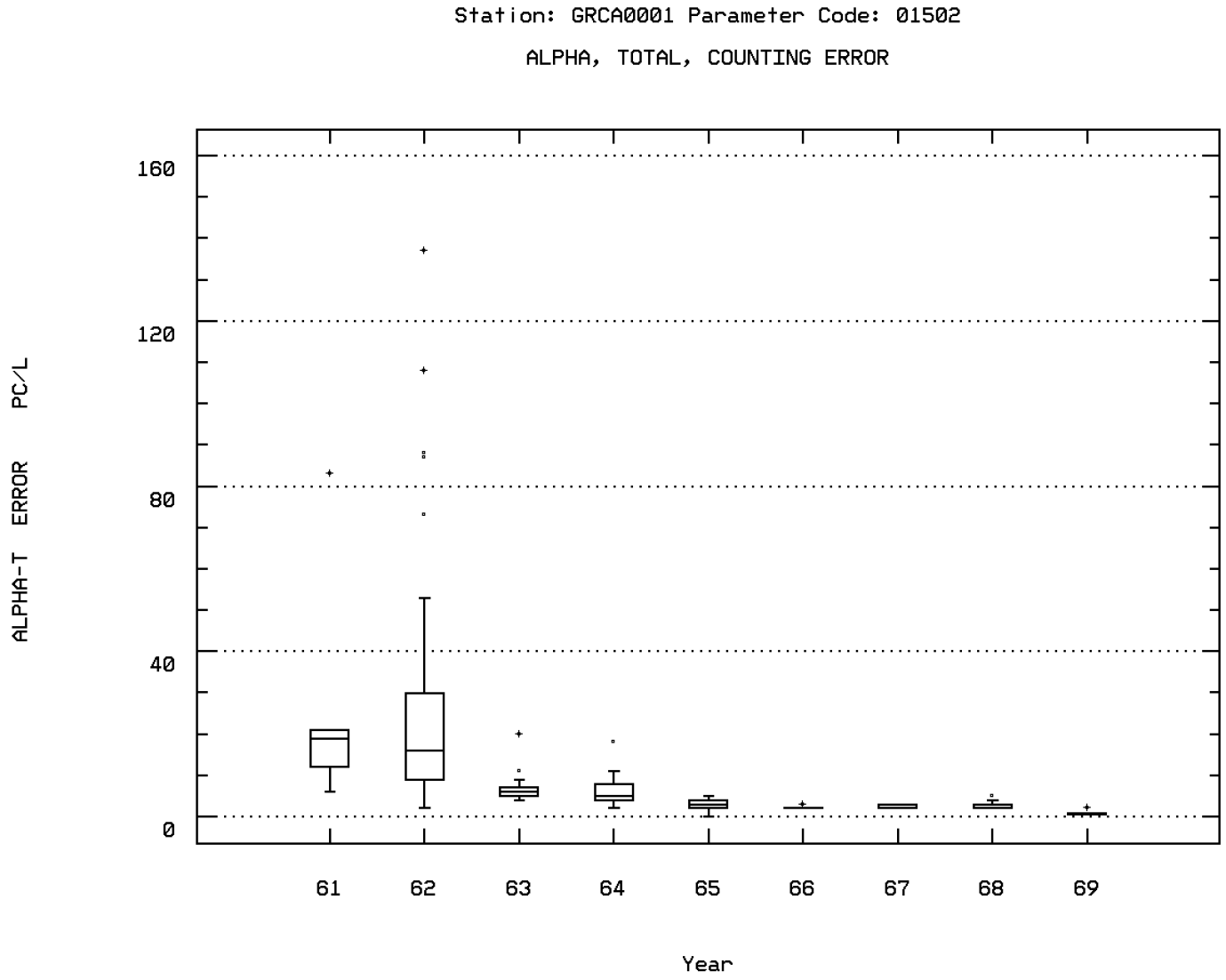
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot

Station: GRCA0001 Parameter Code: 01501

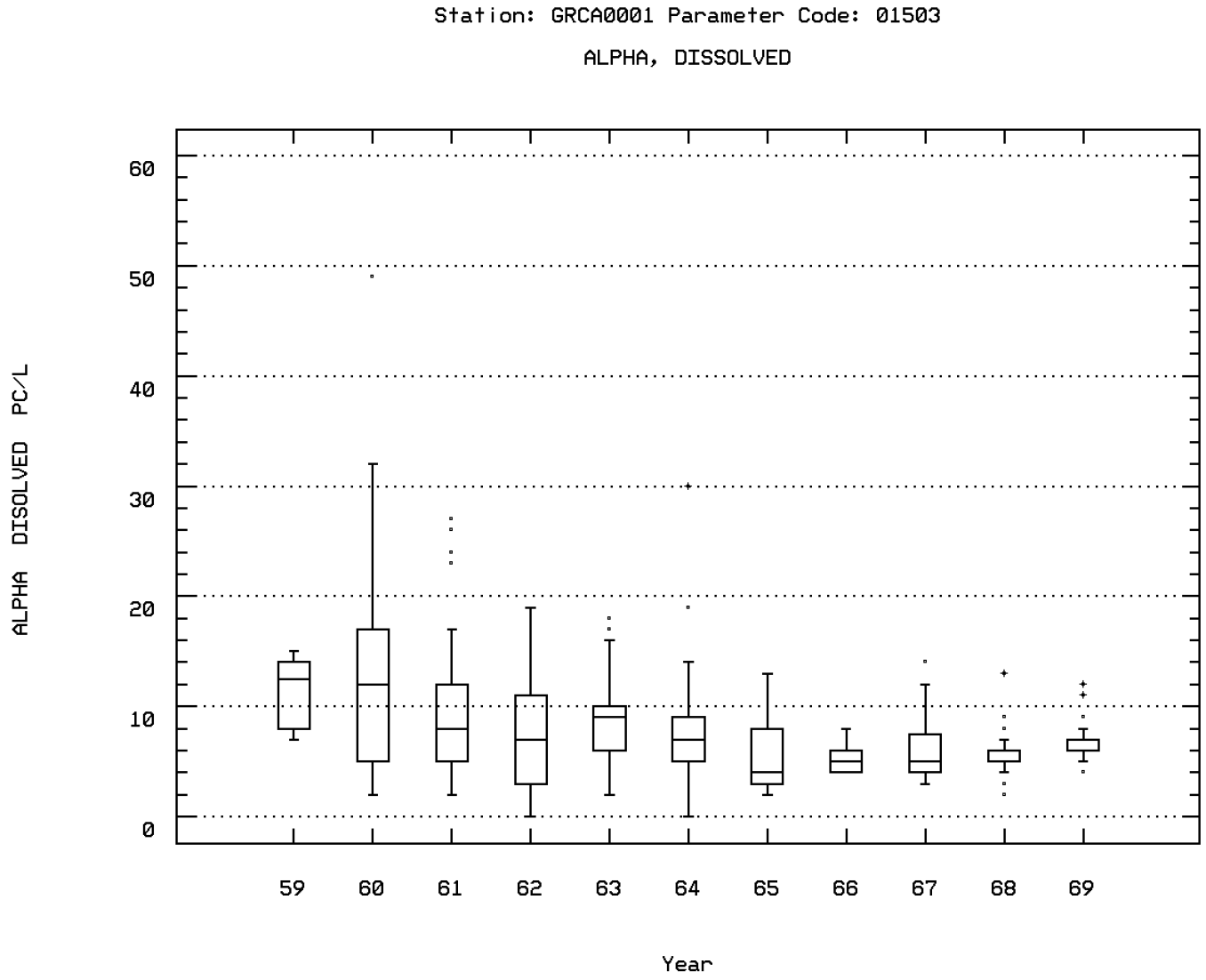
ALPHA, TOTAL



COLORADO RIVER AT PAGE



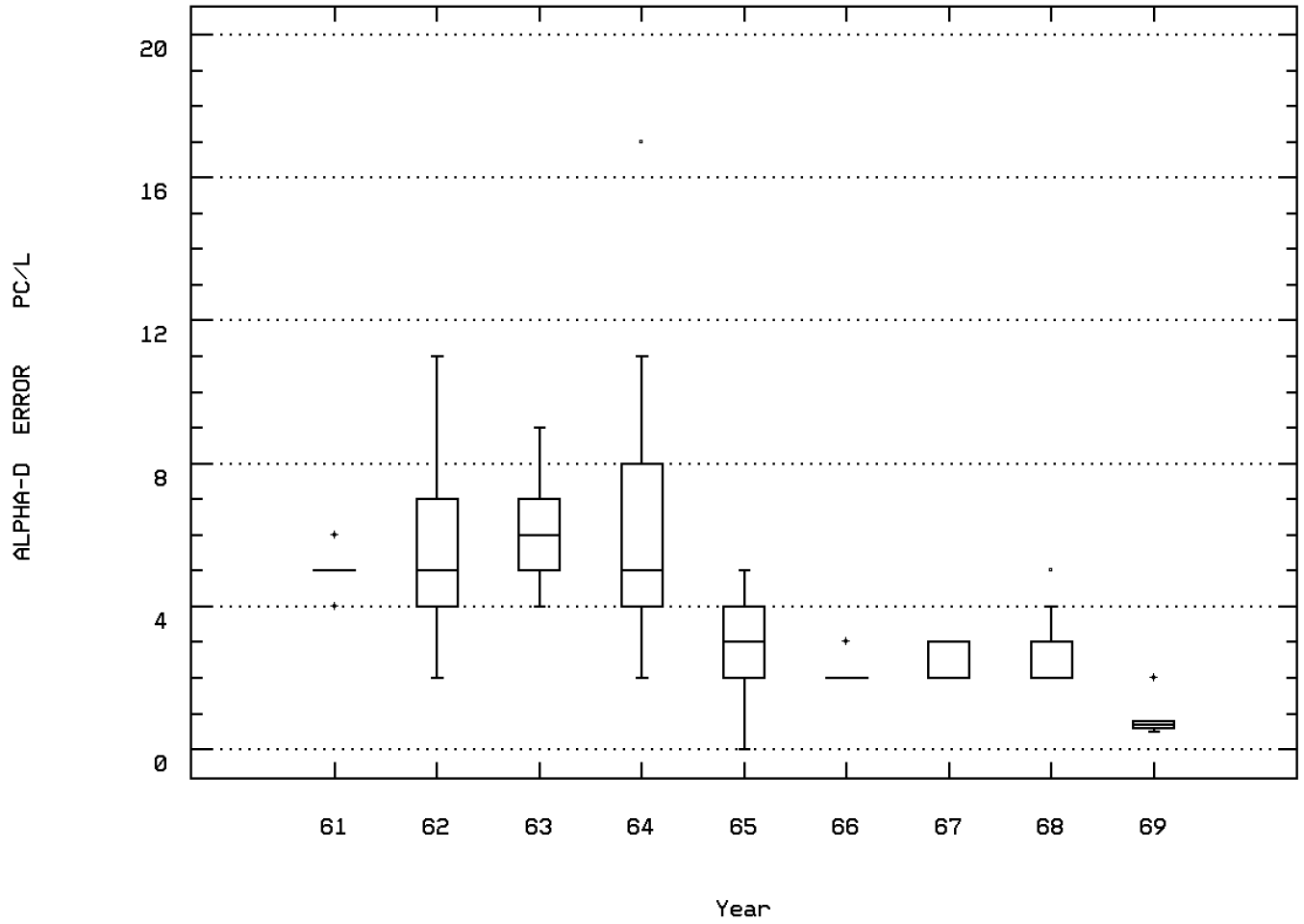
COLORADO RIVER AT PAGE



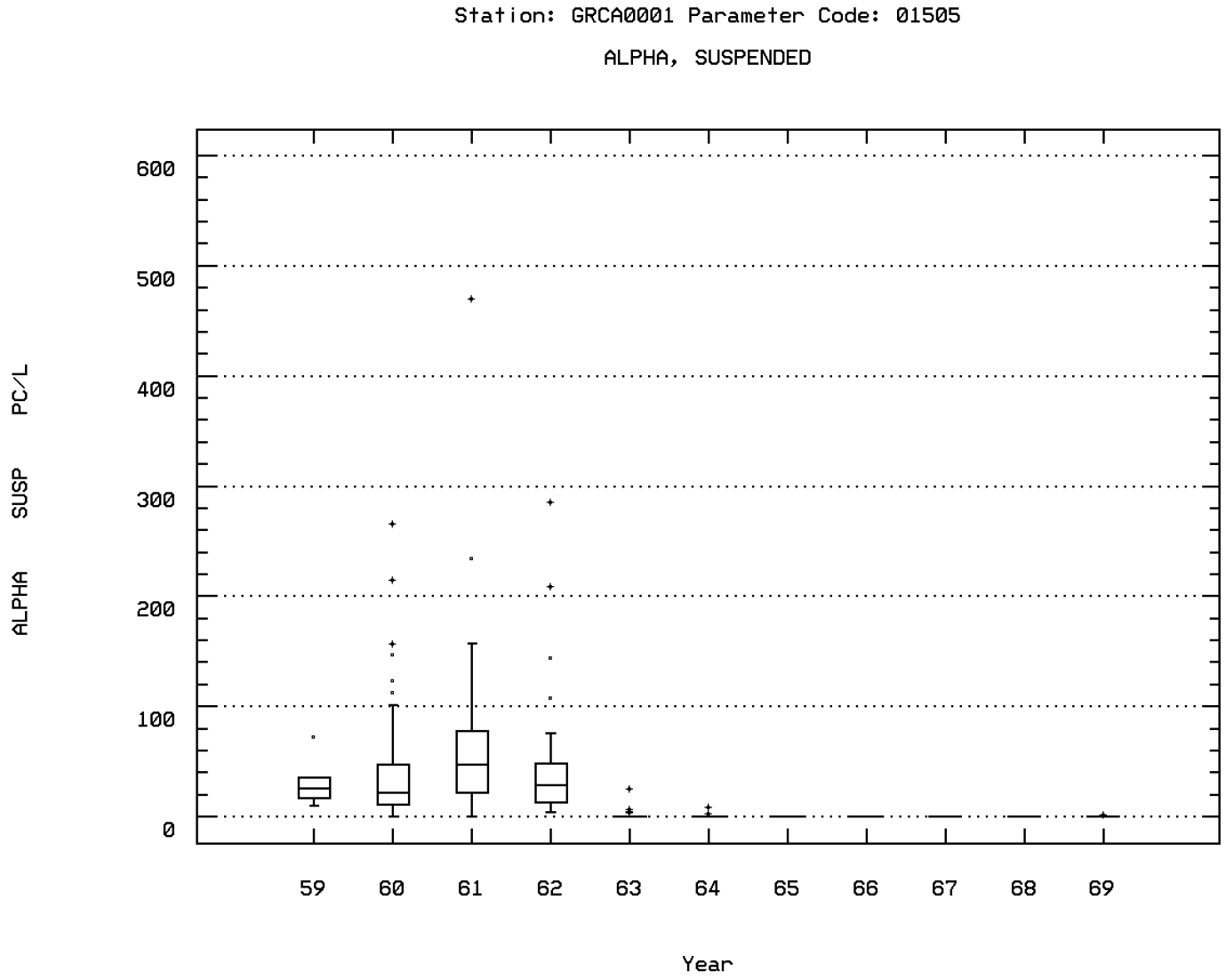
COLORADO RIVER AT PAGE

Station: GRCA0001 Parameter Code: 01504

ALPHA, DISSOLVED, COUNTING ERROR



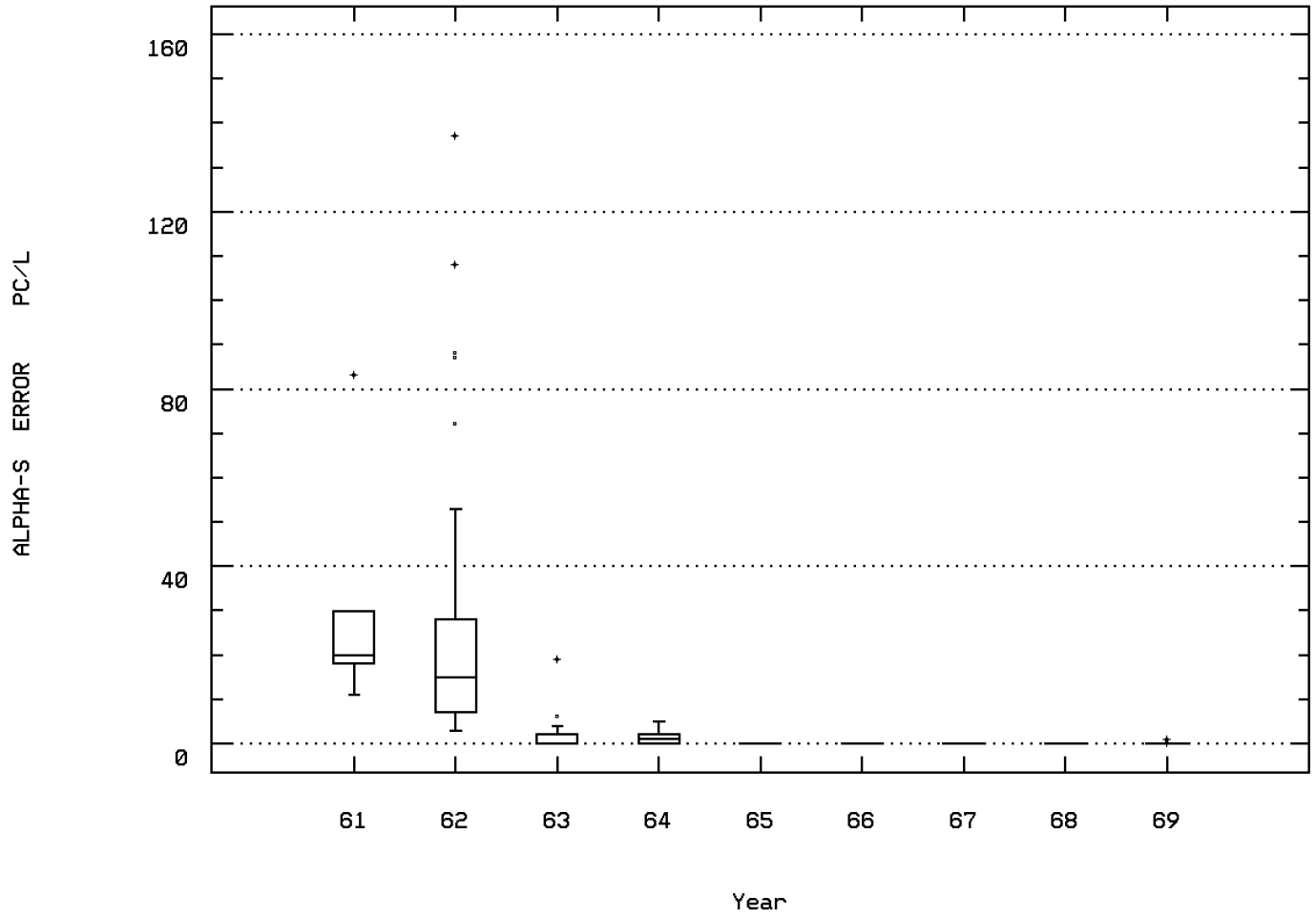
COLORADO RIVER AT PAGE



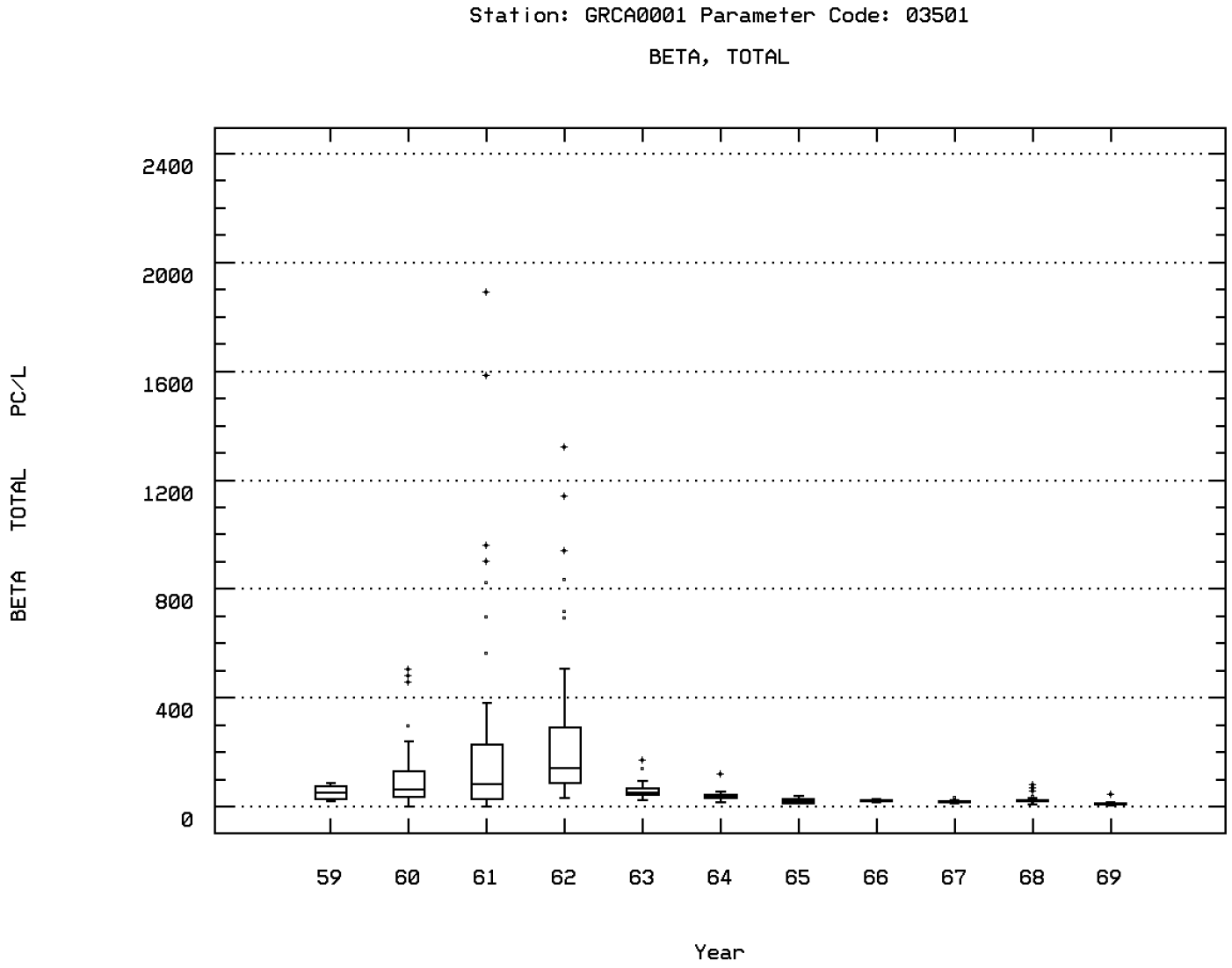
COLORADO RIVER AT PAGE

Station: GRCA0001 Parameter Code: 01506

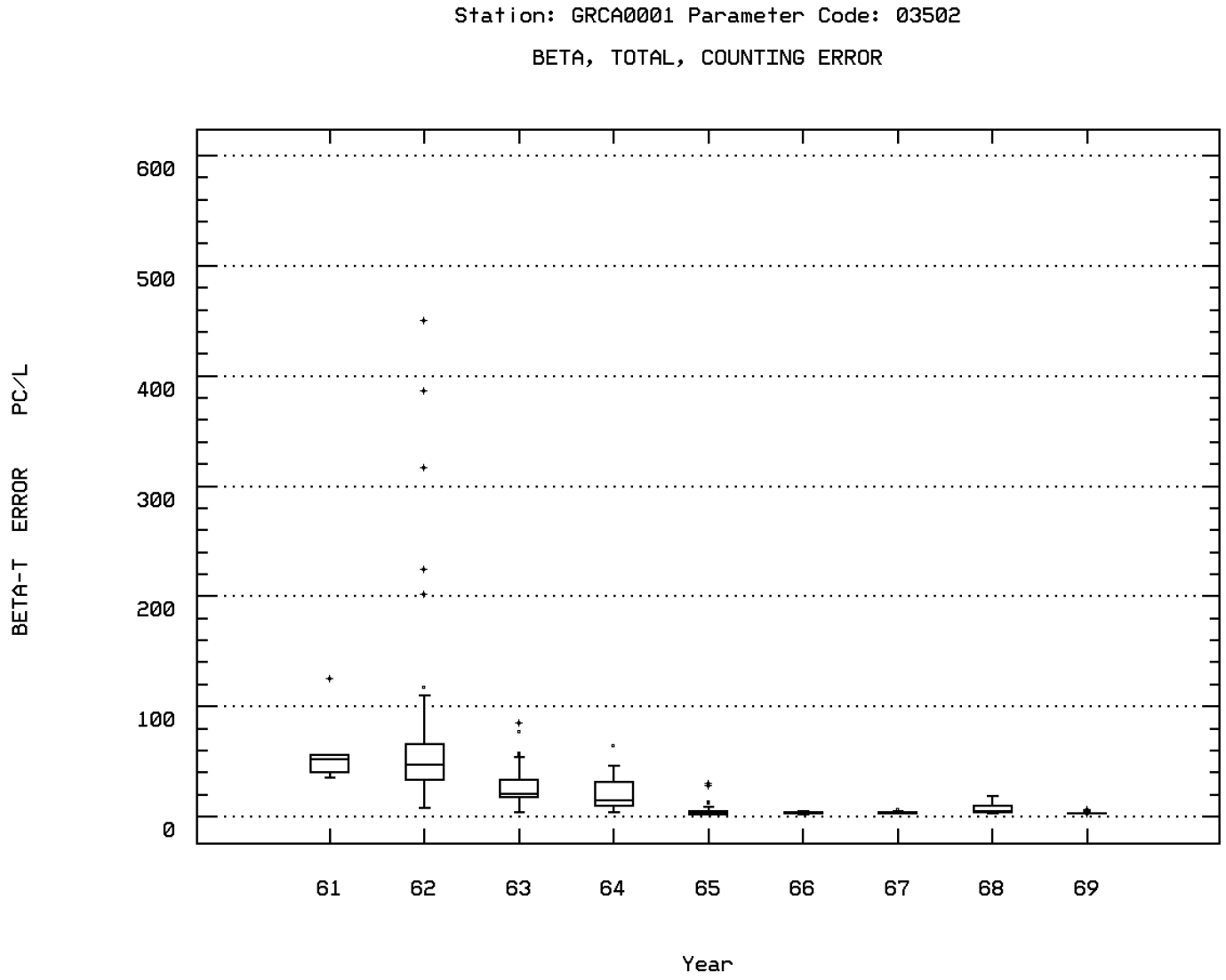
ALPHA, SUSPENDED, COUNTING ERROR



COLORADO RIVER AT PAGE



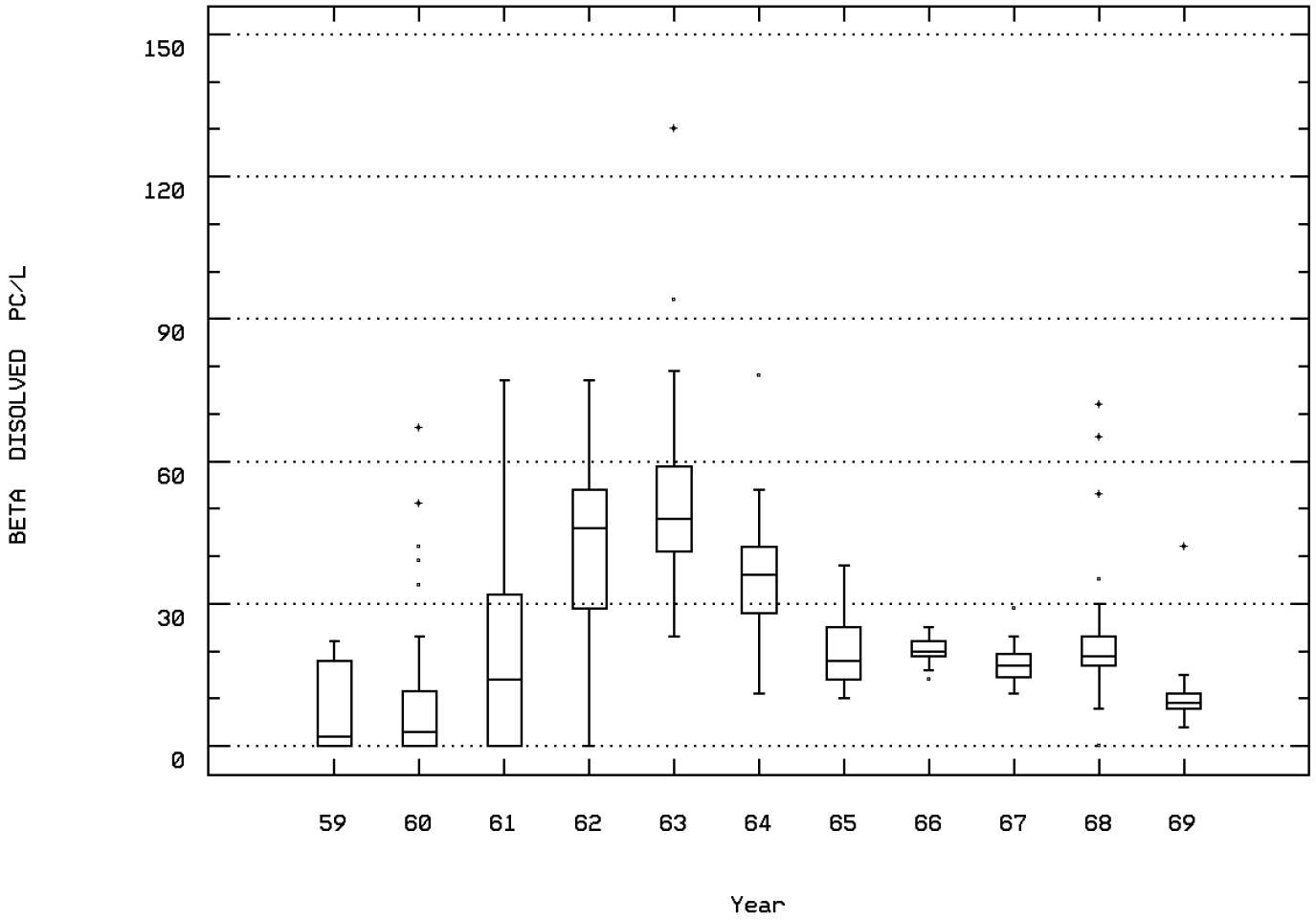
COLORADO RIVER AT PAGE



COLORADO RIVER AT PAGE

Station: GRCA0001 Parameter Code: 03503

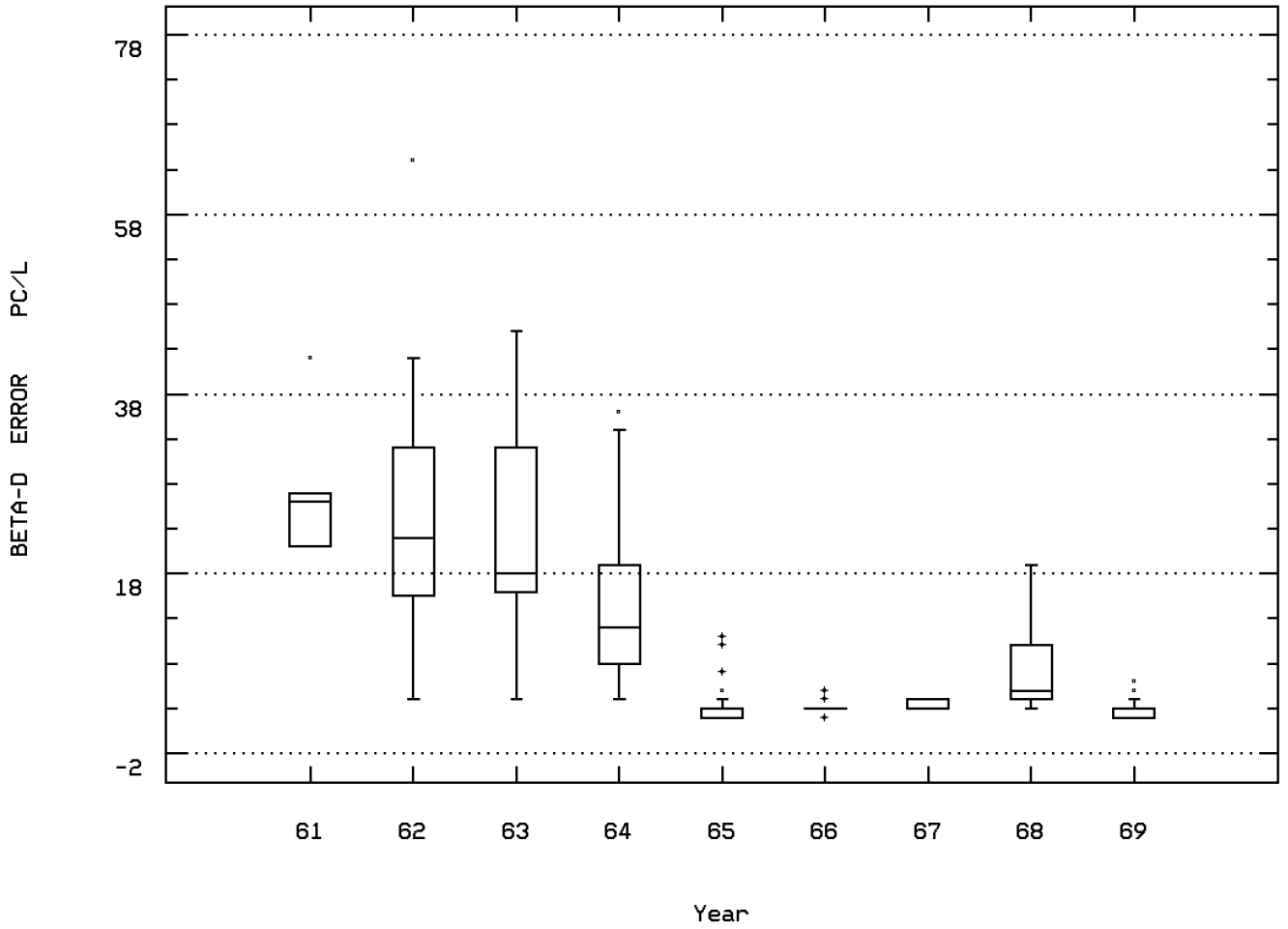
BETA, DISSOLVED



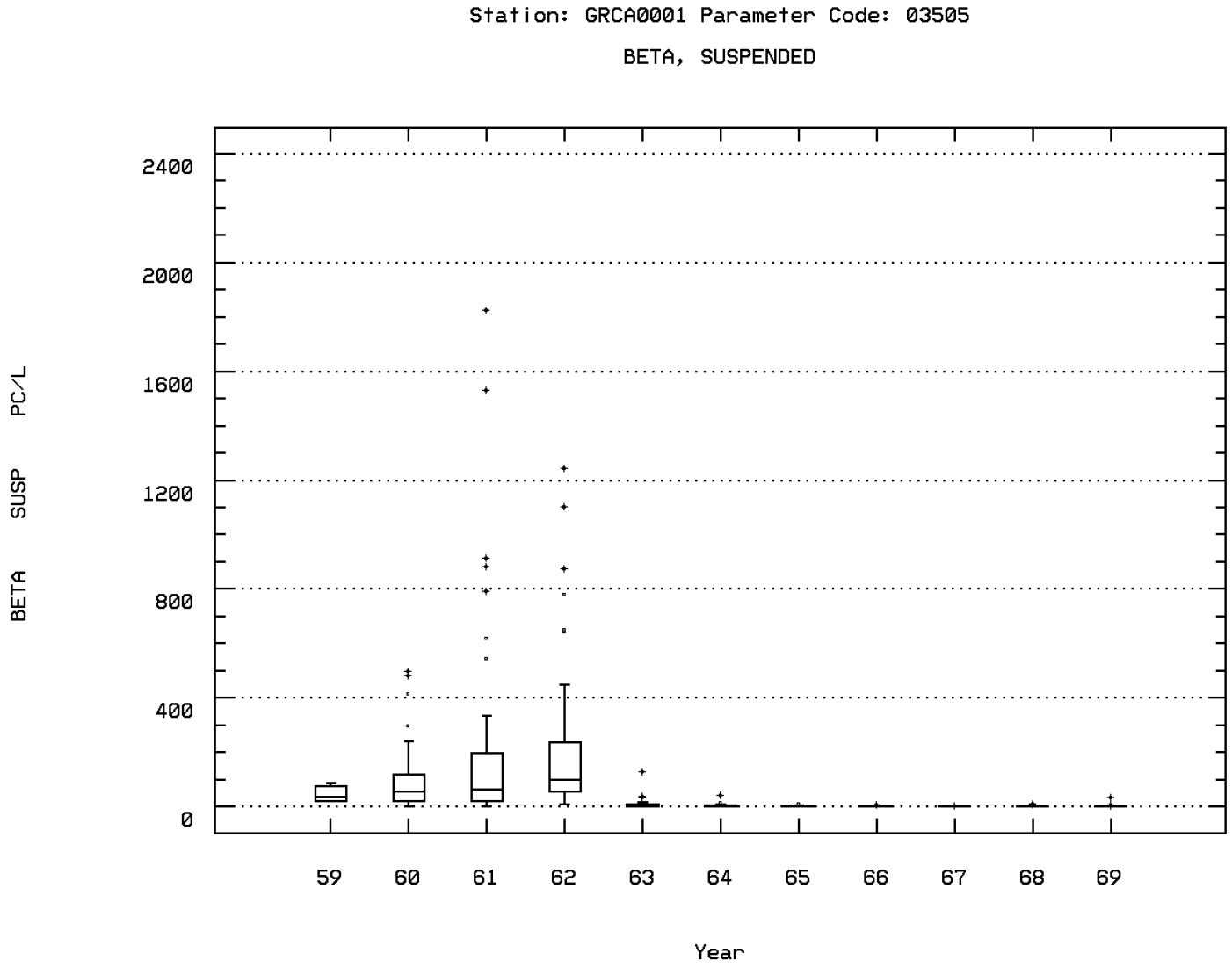
COLORADO RIVER AT PAGE

Station: GRCA0001 Parameter Code: 03504

BETA, DISSOLVED, COUNTING ERROR



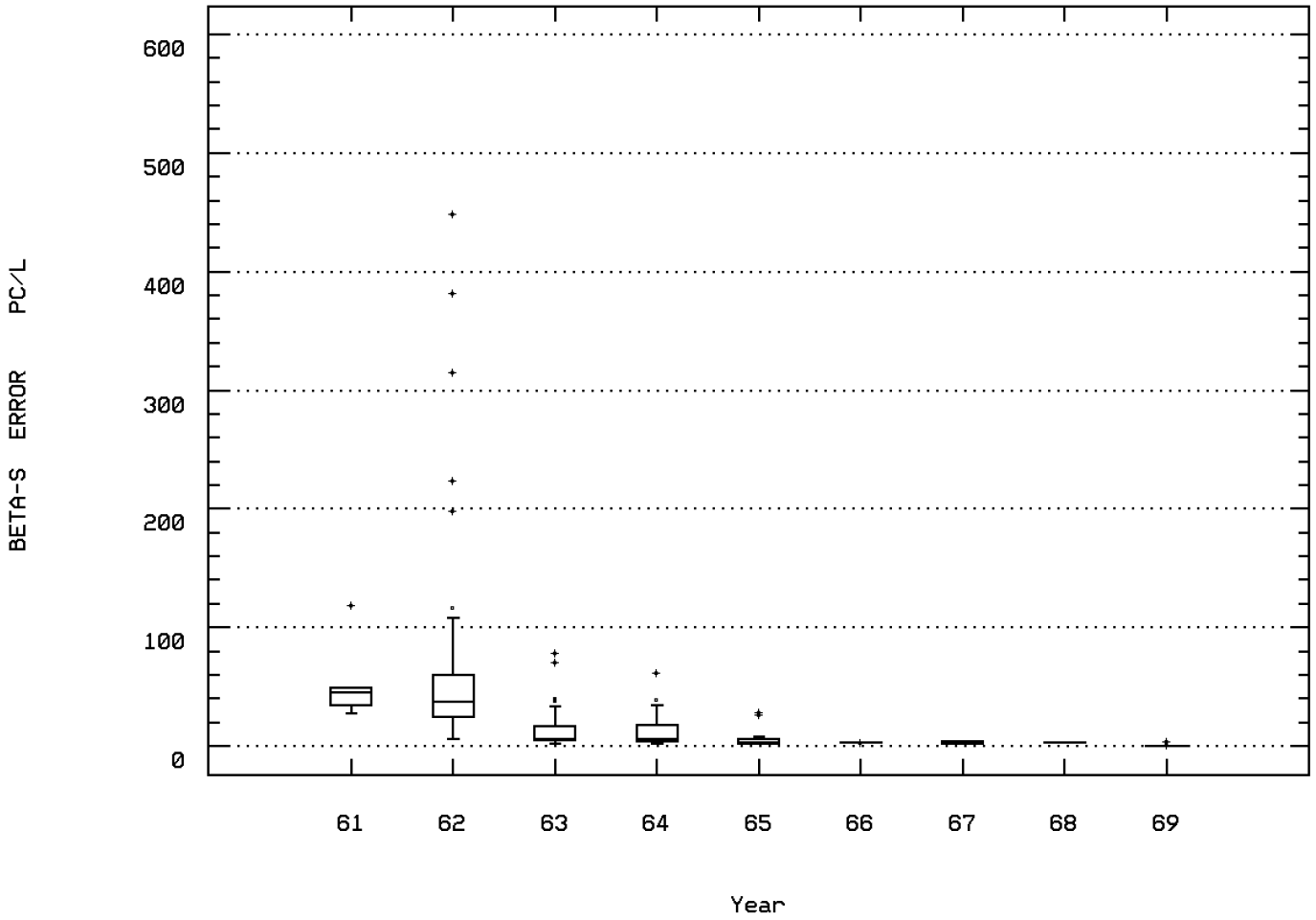
COLORADO RIVER AT PAGE



COLORADO RIVER AT PAGE

Station: GRCA0001 Parameter Code: 03506

BETA, SUSPENDED, COUNTING ERROR



COLORADO RIVER AT PAGE

Seasonal Analysis for Season #1: 10/01 to 3/14 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/23/59-05/25/66	147	9.	9.572	24.	0.	35.657	5.971	1.46	4.5	14.	18.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/23/59-09/30/68	130	122.5	1516.069	80000.	5.	53408658.987	7308.123	12.5	12.5	600.	2460.
00080	COLOR (PLATINUM-COBALT UNITS)	11/23/59-09/30/68	113	5.	7.248	80.	0.	74.724	8.644	0.	3.	10.	15.
00400	PH (STANDARD UNITS)	11/23/59-05/25/66	145	8.1	8.099	8.7	7.6	0.029	0.172	7.9	8.	8.2	8.3
00400	CONVERTED PH (STANDARD UNITS)	11/23/59-05/25/66	145	8.1	8.066	8.7	7.6	0.031	0.175	7.9	8.	8.2	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/23/59-05/25/66	145	0.008	0.009	0.025	0.002	0.	0.004	0.005	0.006	0.01	0.013
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/60-09/30/68	139	152.	159.331	550.	77.	3163.382	56.244	110.	125.	180.	204.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/23/59-09/26/66	115	190.	838.374	7936.	6.	2745371.815	1656.916	15.	30.	705.	1941.2
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/60-09/30/68	141	400.	394.475	780.	175.	15501.051	124.503	220.	291.5	464.	540.
00940	CHLORIDE,TOTAL IN WATER MG/L	11/23/59-09/30/68	122	95.	93.656	180.	16.	1325.087	36.402	42.6	63.	122.5	140.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/61-09/30/68	63	327.	326.587	500.	125.	10776.569	103.81	158.	250.	410.	456.
01501	ALPHA, TOTAL	11/23/59-09/22/69	178	8.	22.652	244.	2.	1406.895	37.509	4.	5.	23.	55.4
01502	ALPHA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	144	3.	7.734	88.	0.	223.945	14.965	1.	2.	7.75	14.
01503	ALPHA, DISSOLVED	11/23/59-09/22/69	178	7.	8.337	30.	2.	27.874	5.28	3.9	5.	11.	16.
01504	ALPHA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	144	3.	3.887	11.	0.	5.874	2.424	1.	2.	5.	7.5
01505	ALPHA, SUSPENDED	11/23/59-09/22/69	178	0.	14.312	214.	0.	1239.619	35.208	0.	0.	10.25	45.2
01506	ALPHA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	144	0.1	5.307	88.	0.	241.356	15.536	0.	0.	2.	15.
03501	BETA, TOTAL	11/23/59-09/22/69	178	30.	80.303	960.	0.	24363.614	156.088	13.	18.	65.25	172.8
03502	BETA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	144	7.	23.486	386.	2.	2227.79	47.199	3.	4.	29.	53.5
03503	BETA, DISSOLVED	11/23/59-09/22/69	178	22.	25.612	70.	0.	273.685	16.543	4.8	14.	36.25	50.
03504	BETA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	144	7.	12.028	64.	2.	140.964	11.873	3.	3.	17.	31.
03505	BETA, SUSPENDED	11/23/59-09/22/69	178	1.	54.706	912.	0.	22404.902	149.683	0.	0.	29.5	146.6
03506	BETA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	144	3.	18.073	381.	0.1	2170.028	46.584	1.	1.	23.	38.5
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/23/59-05/25/66	117 ##	50.	459.286	10000.	0.5	2147116.523	1465.304	20.	20.	150.	704.
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	11/23/59-05/25/66	117 ##	1.699	1.908	4.	-0.301	0.474	0.688	1.301	1.301	2.176	2.848
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			80.95								
32001	SAMPLE SIZE (GALLONS)	11/30/59-02/17/71	27	501.	2570.333	6463.	323.	5899120.231	2428.81	333.	351.	5050.	5768.
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	11/30/59-02/17/71	34	578.5	514.618	1081.	77.	140705.092	375.107	105.	126.75	820.	1058.
32004	CARBON ALCOHOL EXTRACTABLES	11/30/59-02/17/71	32	507.5	454.5	1008.	44.	135573.29	368.203	70.8	92.5	749.25	985.7
32005	CARBON CHLOROFORM EXTRACTABLES	11/30/59-02/17/71	33	58.	54.364	111.	9.	782.176	27.967	20.8	30.	73.	104.2
60050	ALGAE, TOTAL (CELLS/ML)	10/02/61-11/04/68	45	200.	402.222	3000.	0.	333858.586	577.805	0.	100.	400.	1000.
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	45	0.	4.	140.	0.	447.273	21.149	0.	0.	0.	0.
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	45	0.	2.444	40.	0.	68.889	8.3	0.	0.	0.	8.
60200	ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/04/68	45	0.	21.111	330.	0.	2855.556	53.437	0.	0.	25.	70.
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/04/68	45	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-09/30/68	44	0.	53.182	760.	0.	22394.292	149.647	0.	0.	40.	70.
60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-09/30/68	44	0.	2.273	40.	0.	59.831	7.735	0.	0.	0.	10.
60400	DIATOMS, CENTRIC (/ML)	10/02/61-09/09/68	44	0.	166.818	2770.	0.	227631.501	477.107	0.	0.	90.	465.
60600	DIATOMS, PENNATE (/ML)	10/02/61-09/30/68	44	85.	165.455	1530.	0.	73262.579	270.671	0.	20.	202.5	360.

** - Less than 9 observations ## - Computed 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: 3/15 to 6/19 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/23/59-05/25/66	86	12.45	13.353	24.8	0.2	18.959	4.354	9.	10.15	16.2	19.83
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/23/59-09/30/68	82	315.	824.433	5600.	6.	1716961.461	1310.329	12.5	12.5	900.	3140.
00080	COLOR (PLATINUM-COBALT UNITS)	11/23/59-09/30/68	76	7.5	9.868	80.	0.	181.609	13.476	0.	5.	11.5	19.3
00400	PH (STANDARD UNITS)	11/23/59-05/25/66	87	8.1	8.102	9.5	7.1	0.115	0.339	7.7	7.9	8.3	8.42
00400	CONVERTED PH (STANDARD UNITS)	11/23/59-05/25/66	87	8.1	7.973	9.5	7.1	0.132	0.363	7.7	7.9	8.3	8.42
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/23/59-05/25/66	87	0.008	0.011	0.079	0.	0.	0.011	0.004	0.005	0.013	0.02
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/60-09/30/68	81	148.	147.765	326.	84.	1070.782	32.723	110.4	124.5	160.	176.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/23/59-09/26/66	75	376.	955.187	10860.	7.	3268835.127	1807.992	23.4	58.	922.	2529.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/60-09/30/68	92	353.	326.533	514.	158.	9413.482	97.023	188.6	233.	400.	440.
00940	CHLORIDE,TOTAL IN WATER MG/L	11/23/59-09/30/68	76	66.	70.289	160.	6.	1655.702	40.69	20.	34.5	105.5	118.1
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/61-09/30/68	45	350.	307.156	460.	83.	13904.089	117.916	96.2	245.	390.	440.
01501	ALPHA, TOTAL	11/23/59-09/22/69	112	9.	25.723	287.	3.	1923.193	43.854	5.	6.	24.5	61.1

** - 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 #2: 3/15 to 6/19 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01502	ALPHA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	85	4.	7.547	137.	0.7	270.353	16.442	1.	2.	6.5	13.6
01503	ALPHA, DISSOLVED	11/23/59-09/22/69	112	6.	7.179	27.	0.	18.707	4.325	3.	4.25	9.	13.
01504	ALPHA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	85	3.	3.547	9.	0.7	4.711	2.17	1.	2.	5.	7.
01505	ALPHA, SUSPENDED	11/23/59-09/22/69	112	0.	18.55	285.	0.	1932.461	43.96	0.	0.	18.75	52.4
01506	ALPHA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	85	0.	4.789	137.	0.	288.277	16.979	0.	0.	1.	13.6
03501	BETA, TOTAL	11/23/59-09/22/69	112	40.5	81.223	1320.	9.	25488.752	159.652	12.	21.25	68.5	188.2
03502	BETA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	85	9.	19.365	224.	1.	890.139	29.835	3.	3.	23.5	48.4
03503	BETA, DISSOLVED	11/23/59-09/22/69	112	20.5	25.214	94.	0.	416.728	20.414	0.	11.	38.75	53.4
03504	BETA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	85	8.	11.129	40.	2.	104.971	10.246	3.	3.	17.	28.4
03505	BETA, SUSPENDED	11/23/59-09/22/69	112	3.	56.003	1243.	0.	24326.204	155.969	0.	1.	39.75	169.2
03506	BETA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	85	3.	13.275	223.	0.1	862.492	29.368	0.1	1.	11.5	35.4
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/23/59-05/25/66	70 ##	100.	732.286	9000.	10.	2095909.917	1447.726	20.	20.	932.5	2370.
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	11/23/59-05/25/66	70 ##	2.	2.122	3.954	1.	0.699	0.836	1.301	1.301	2.969	3.374
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			132.294								
32001	SAMPLE SIZE (GALLONS)	11/30/59-02/17/71	12	2492.	2933.	7500.	359.	7667862.545	2769.091	360.2	366.25	5080.	6971.7
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	11/30/59-02/17/71	14	746.	566.071	1121.	89.	179184.071	423.301	91.5	109.	950.25	1037.5
32004	CARBON ALCOHOL EXTRACTABLES	11/30/59-02/17/71	14	668.5	501.857	1022.	59.	153895.824	392.296	61.	71.75	861.	945.5
32005	CARBON CHLOROFORM EXTRACTABLES	11/30/59-02/17/71	14	77.5	64.214	109.	14.	1149.72	33.908	14.5	27.5	89.25	105.5
60050	ALGAE, TOTAL (CELLS/ML)	10/02/61-11/04/68	28	250.	514.286	3200.	0.	482010.582	694.27	0.	25.	700.	1430.
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	28	0.	1.786	50.	0.	89.286	9.449	0.	0.	0.	0.
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	28	0.	2.143	40.	0.	69.312	8.325	0.	0.	0.	2.
60200	ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/04/68	28	0.	26.429	160.	0.	2075.661	45.559	0.	0.	20.	114.
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/04/68	28	0.	1.429	40.	0.	57.143	7.559	0.	0.	0.	0.
60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-09/30/68	28	0.	29.286	230.	0.	3725.397	61.036	0.	0.	42.5	102.
60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-09/30/68	28	0.	32.143	740.	0.	19558.201	139.851	0.	0.	0.	53.
60400	DIATOMS, CENTRIC (/ML)	10/02/61-09/09/68	28	20.	143.929	2550.	0.	237898.81	487.749	0.	0.	65.	218.
60600	DIATOMS, PENNATE (/ML)	10/02/61-09/30/68	28	130.	282.143	1300.	0.	134535.979	366.791	0.	5.	370.	1044.

** - Less than 9 observations ## - Computed 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: 6/20 to 9/30 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/23/59-05/25/66	77	21.	20.574	28.2	8.	30.053	5.482	10.8	18.	25.	27.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/23/59-09/30/68	70	315.	1402.321	32000.	0.	19307219.623	4393.998	12.5	12.5	800.	2000.
00080	COLOR (PLATINUM-COBALT UNITS)	11/23/59-09/30/68	60	5.	7.783	50.	0.	72.274	8.501	0.	0.	10.	20.
00400	PH (STANDARD UNITS)	11/23/59-05/25/66	79	8.1	8.09	8.6	7.6	0.035	0.188	7.8	8.	8.2	8.4
00400	CONVERTED PH (STANDARD UNITS)	11/23/59-05/25/66	79	8.1	8.05	8.6	7.6	0.037	0.192	7.8	8.	8.2	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/23/59-05/25/66	79	0.008	0.009	0.025	0.003	0.	0.004	0.004	0.006	0.01	0.016
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/31/60-09/30/68	82	132.	147.878	330.	70.	2612.701	51.115	96.6	118.	161.	222.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/23/59-09/26/66	64	270.5	1379.234	9999.	8.	6095826.055	2468.973	29.5	51.	1424.25	4136.5
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/01/60-09/30/68	82	340.	350.585	746.	140.	19490.986	139.61	180.	217.5	420.	548.4
00940	CHLORIDE,TOTAL IN WATER MG/L	11/23/59-09/30/68	69	76.	71.522	151.	16.	1190.4	34.502	23.	40.	97.	106.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/61-09/30/68	37	300.	274.595	460.	46.	12391.526	111.317	92.8	195.	370.	384.
01501	ALPHA, TOTAL	11/23/59-09/22/69	109	7.	24.761	473.	0.	3111.776	55.783	2.	4.	23.	59.
01502	ALPHA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	85	2.	5.985	108.	0.5	162.685	12.755	1.	1.	6.	13.
01503	ALPHA, DISSOLVED	11/23/59-09/22/69	109	6.	7.56	49.	0.	45.656	6.757	2.	4.	9.	14.
01504	ALPHA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	85	2.	3.526	17.	0.5	8.503	2.916	1.	1.	5.	7.4
01505	ALPHA, SUSPENDED	11/23/59-09/22/69	109	0.	17.304	469.	0.	2975.784	54.551	0.	0.	10.	45.
01506	ALPHA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	85	0.	3.26	108.	0.	168.567	12.983	0.	0.	1.	7.8
03501	BETA, TOTAL	11/23/59-09/22/69	111	29.	106.396	1891.	0.	74443.441	272.843	8.2	14.	67.	194.
03502	BETA, TOTAL, COUNTING ERROR	10/02/61-09/22/69	86	5.5	20.488	450.	2.	2584.159	50.835	2.	3.	20.	37.
03503	BETA, DISSOLVED	11/23/59-09/22/69	110	17.	26.809	130.	0.	517.679	22.753	4.1	11.	44.	59.6
03504	BETA, DISSOLVED, COUNTING ERROR	10/02/61-09/22/69	86	4.	11.523	39.	2.	123.664	11.12	2.	3.	18.	32.
03505	BETA, SUSPENDED	11/23/59-09/22/69	110	2.	80.455	1824.	0.	71343.766	267.103	0.	0.2	37.5	166.1
03506	BETA, SUSPENDED, COUNTING ERROR	10/02/61-09/22/69	86	3.	13.586	448.	0.1	2562.791	50.624	0.1	1.	6.	31.
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/23/59-05/25/66	55	200.	1130.364	26000.	20.	13182580.421	3630.782	20.	50.	820.	2200.

** - Less than 9 observations ## - Computed 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: 6/20 to 9/30 - Station GRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31503	LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	11/23/59-05/25/66	55	2.301	2.351	4.415	1.301	0.546	0.739	1.301	1.699	2.914	3.34
31503	GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =			224.27								
32001	SAMPLE SIZE (GALLONS)	11/30/59-02/17/71	12	2080.5	2872.667	8890.	313.	8323666.424	2885.077	328.6	386.5	5060.	7810.
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	11/30/59-02/17/71	14	422.	496.286	1088.	93.	150874.681	388.426	100.5	133.5	830.	1056.5
32004	CARBON ALCOHOL EXTRACTABLES	11/30/59-02/17/71	12	116.5	385.417	992.	60.	150330.083	387.724	60.3	79.75	838.5	974.
32005	CARBON CHLOROFORM EXTRACTABLES	11/30/59-02/17/71	15	73.	66.333	109.	19.	950.524	30.831	20.2	32.	93.	104.2
60050	ALGAE, TOTAL (CELLS/ML)	10/02/61-11/04/68	29	200.	1917.241	32600.	0.	41572906.404	6447.706	100.	100.	800.	1200.
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	29	0.	28.621	490.	0.	9305.172	96.463	0.	0.	0.	70.
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/04/68	29	0.	29.655	840.	0.	24303.448	155.896	0.	0.	0.	0.
60200	ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/04/68	29	30.	101.034	890.	0.	36238.177	190.363	0.	0.	140.	180.
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/04/68	29	0.	1.034	30.	0.	31.034	5.571	0.	0.	0.	0.
60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-09/30/68	29	0.	42.414	640.	0.	17247.537	131.33	0.	0.	0.	210.
60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-09/30/68	29	0.	0.69	20.	0.	13.793	3.714	0.	0.	0.	0.
60400	DIATOMS, CENTRIC (/ML)	10/02/61-09/09/68	28	0.	299.643	4350.	0.	987018.386	993.488	0.	0.	27.5	596.
60600	DIATOMS, PENNATE (/ML)	10/02/61-09/30/68	29	90.	1422.069	28060.	0.	28797331.281	5366.314	0.	30.	240.	800.

** - Less than 9 observations ## - Computed 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: GRCA0002

NPS Station ID: GRCA0002 LAT/LON: 36.922226/-111.483337 Agency: 112WRD Date Created: 02/17/90
Location: COLORADO RIVER BELOW GLEN CANYON DAM, ARIZ. FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 09379910
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14070006 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 14070006 RF1 Mile Point: 0.000 Distance from RF1: 3.20 On/Off RF1:
RF3 Index: 15010001000320.93 RF3 Mile Point: 25.06 Distance from RF3: 0.15 On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/05/89-10/10/89	12	386.	398.25	471.	386.	842.568	29.027	386.	386.	386.	464.1
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/05/89-10/10/89	22	8.	8.623	11.	8.	0.746	0.864	8.	8.	9.275	9.85
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/06/89-10/10/89	16	13.75	16.469	24.5	9.	31.816	5.641	9.	11.75	22.	24.15
00025	BAROMETRIC PRESSURE (MM OF HG)	10/05/89-10/10/89	22	687.	687.409	691.	683.	3.491	1.869	685.	686.	689.	690.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/05/89-10/10/89	10	5180.	5771.	11000.	5160.	3376365.556	1837.489	5160.	5175.	5227.5	10425.
00065	STAGE, STREAM (FEET)	10/05/89-10/10/89	22	29.95	30.491	35.	29.94	2.066	1.437	29.94	29.95	29.973	33.663
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/05/89-10/10/89	6	0.2	0.383	1.2	0.2	0.162	0.402	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/05/89-10/10/89	12	802.5	808.667	872.	789.	486.424	22.055	790.8	798.75	805.	859.1
00300	OXYGEN, DISSOLVED MG/L	10/05/89-10/10/89	22	8.55	8.736	10.6	6.8	1.712	1.308	6.93	7.575	9.925	10.57
00400	PH (STANDARD UNITS)	10/05/89-10/10/89	12	8.15	8.137	8.24	7.82	0.011	0.107	7.907	8.13	8.205	8.231
00400	CONVERTED PH (STANDARD UNITS)	10/05/89-10/10/89	12	8.15	8.122	8.24	7.82	0.012	0.108	7.907	8.13	8.205	8.231
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/89-10/10/89	12	0.007	0.008	0.015	0.006	0.	0.002	0.006	0.006	0.007	0.013
00403	PH, LAB, STANDARD UNITS SU	10/05/89-10/10/89	6	8.	7.983	8.1	7.9	0.006	0.075	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/05/89-10/10/89	6	8.	7.978	8.1	7.9	0.006	0.076	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/89-10/10/89	6	0.01	0.011	0.013	0.008	0.	0.002	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/05/89-10/10/89	6	0.	0.	0.	0.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/05/89-10/10/89	6	169.	168.167	171.	164.	9.367	3.061	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/05/89-10/10/89	12	0.01	0.01	0.02	0.005	0.	0.004	0.005	0.006	0.01	0.017
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/05/89-10/10/89	12	0.01	0.013	0.02	0.01	0.	0.005	0.01	0.01	0.018	0.02
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/05/89-10/10/89	12 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/05/89-10/10/89	12	0.2	0.217	0.4	0.1	0.007	0.083	0.1	0.2	0.275	0.37
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/05/89-10/10/89	12	0.4	0.391	0.4	0.34	0.	0.022	0.343	0.4	0.4	0.4
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/05/89-10/10/89	12	0.4	0.4	0.4	0.4	0.	0.	0.4	0.4	0.4	0.4
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/89-10/10/89	12 ##	0.005	0.007	0.02	0.005	0.	0.004	0.005	0.005	0.005	0.017
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/05/89-10/10/89	12 ##	0.005	0.008	0.03	0.005	0.	0.007	0.005	0.005	0.005	0.024
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/05/89-10/10/89	12 ##	0.005	0.005	0.01	0.005	0.	0.001	0.005	0.005	0.005	0.009
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/05/89-10/10/89	12	2.7	2.775	3.	2.6	0.017	0.129	2.63	2.7	2.875	3.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/05/89-10/10/89	6	65.	65.333	66.	65.	0.267	0.516	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/05/89-10/10/89	6	23.	23.333	24.	23.	0.267	0.516	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/05/89-10/10/89	6	66.5	65.833	67.	63.	2.567	1.602	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/05/89-10/10/89	6	2.95	2.967	3.1	2.9	0.007	0.082	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/05/89-10/10/89	6	41.	40.5	41.	39.	0.7	0.837	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/05/89-10/10/89	6	220.	220.	220.	220.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/05/89-10/10/89	6	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/05/89-10/10/89	6	8.6	8.583	8.6	8.5	0.002	0.041	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	10/05/89-10/10/89	6	137.	137.	140.	134.	5.6	2.366	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/05/89-10/10/89	6	138.5	137.667	140.	134.	6.667	2.582	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/05/89-10/10/89	6	516.	515.833	528.	503.	74.167	8.612	**	**	**	**

** - Less than 9 observations ## - 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: GRCA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/05/89-10/10/89	6	71.	66.833	88.	41.	442.967	21.047	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/05/89-10/10/89	12 ##	0.005	0.008	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.017
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/05/89-10/10/89	6	1.5	2.5	8.	0.	8.3	2.881	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0002

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	6	0	0.00	6	0	0.00									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	22	0	0.00	22	0	0.00									
00400	PH	Other-Hi Lim.	9.	12	0	0.00	12	0	0.00									
		Other-Lo Lim.	6.5	12	0	0.00	12	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	6	0	0.00	6	0	0.00									
		Other-Lo Lim.	6.5	6	0	0.00	6	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	12	0	0.00	12	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	12	0	0.00	12	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	12	0	0.00	12	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	6	0	0.00									
		Drinking Water	250.	6	0	0.00	6	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	6	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	6	0	0.00	6	0	0.00									

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

Station Inventory for Station: GRCA0003

NPS Station ID: GRCA0003
LAT/LON: 36.936670/-111.483337
Agency: 21UTAH
Date Created: 03/21/77
Location: COLORADO RIVER BLW GLEN CYN DAM
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 495852 /555052 /C-73515
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070006
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LOWER COLORADO RIVER-MAIN STEM
ECO Region:
RF1 Index: 14070006002
RF1 Mile Point: 1.880
Distance from RF1: 0.70
On/Off RF1: ON
RF3 Index: 15010002001900.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/01/93-05/04/94	4	6.	11.5	34.	0.	233.667	15.286	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	12/01/93-09/22/94	7	10.	30.	100.	0.	1600.	40.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/01/93-09/22/94	7	710.	857.143	2010.	10.	536957.143	732.774	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/01/93-09/22/94	7	1440.	1968.571	4840.	190.	2498314.286	1580.606	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	12/01/93-09/22/94	7	4.	3.571	8.	0.	8.619	2.936	**	**	**	**
00400	PH (STANDARD UNITS)	12/01/93-09/22/94	6	4.5	5.	8.	3.	3.2	1.789	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/01/93-09/22/94	6	4.26	3.695	8.	3.	5.244	2.29	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/01/93-09/22/94	6	55.	201.835	1000.	0.01	155135.359	393.872	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	01/20/94-09/22/94	6	7.5	7.	9.	2.	6.8	2.608	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	01/20/94-09/22/94	6	7.26	2.778	9.	2.	28.189	5.309	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/20/94-09/22/94	6	0.055	1666.702	10000.	0.00116666525.336		4082.466	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	12/01/93-09/22/94	7	0.	4.286	30.	0.	128.571	11.339	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/01/93-09/22/94	7	580.	532.857	670.	330.	22290.476	149.3	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	12/01/93-09/22/94	7	620.	444.286	930.	20.	158861.905	398.575	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	12/01/93-09/22/94	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/01/93-09/22/94	7	80.	285.714	1540.	10.	312195.238	558.744	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/93-09/22/94	7 ##	0.25	0.413	0.98	0.25	0.086	0.293	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/01/93-09/22/94	7	0.61	0.607	0.97	0.38	0.034	0.185	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/01/93-09/22/94	7	0.16	0.307	0.62	0.03	0.084	0.289	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/01/93-09/22/94	7	405.	418.	674.	189.	28691.333	169.385	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/01/93-09/22/94	7	60.	118.571	400.	0.	20980.952	144.848	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/01/93-09/22/94	7	50.	45.714	90.	0.	2028.571	45.04	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	12/01/93-09/22/94	7	200.	165.714	300.	70.	6995.238	83.638	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/01/93-09/22/94	7	4.	4.	8.	0.	6.	2.449	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	12/01/93-09/22/94	7	175.	145.429	250.	15.	10817.952	104.009	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	12/01/93-09/22/94	7	630.1	647.786	974.3	232.	66180.145	257.255	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	12/01/93-08/09/94	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	12/01/93-08/09/94	5	30.	32.	70.	0.	820.	28.636	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	12/01/93-08/09/94	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	12/01/93-08/09/94	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	12/01/93-08/09/94	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	12/01/93-08/09/94	5 ##	0.	2.	10.	0.	20.	4.472	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	12/01/93-08/09/94	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	12/01/93-08/09/94	5	4.	20.8	90.	0.	1513.2	38.9	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	12/01/93-08/09/94	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	12/01/93-08/09/94	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/09/94-08/09/94	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	12/01/93-08/09/94	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

Parameter Inventory for Station: GRCA0003

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	12/01/93-09/22/94	7	400.	502.857	900.	100.	100723.81	317.37	**	**	**	**
71830	HYDROXIDE ION (MG/L AS OH)	12/01/93-09/22/94	7	0.	0.	0.	0.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	12/01/93-08/09/94	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: GRCA0003

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	7	2	0.29	2	0	0.00	2	2	1.00	3	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	7	5	0.71	2	1	0.50	2	1	0.50	3	3	1.00			
00400	PH	Other-Hi Lim.	9.	6	0	0.00	2	0	0.00	2	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	6	5	0.83	2	2	1.00	2	2	1.00	2	1	0.50			
00403	PH, LAB	Other-Hi Lim.	9.	6	2	0.33	1	0	0.00	2	1	0.50	3	1	0.33			
		Other-Lo Lim.	6.5	6	1	0.17	1	1	1.00	2	0	0.00	3	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	7	0	0.00	2	0	0.00	2	0	0.00	3	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	7	0	0.00	2	0	0.00	2	0	0.00	3	0	0.00			
		Drinking Water	250.	7	1	0.14	2	1	0.50	2	0	0.00	3	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	7	6	0.86	2	2	1.00	2	1	0.50	3	3	1.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	50.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	5.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	1300.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	15.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	100.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	5000.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	50.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	2.	5	0	0.00	2	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: GRCA0004

NPS Station ID: GRCA0004
LAT/LON: 36.936670/-111.483337
Agency: 21UTAH
Date Created: 03/24/79
Location: COLORADO RIVER BL GLEN CANYON DAM
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 495200
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070006
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER BASIN
Elevation: 0
Water Body Id:
Minor Basin: LOWER COLORADO RIVER DRAINAGE
ECO Region:
RF1 Index: 14070006002
RF1 Mile Point: 1.880
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 14070006002402.49
RF3 Mile Point: 3.13
Distance from RF3: 0.21
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/78-11/12/86	39	10.	9.892	15.4	6.5	3.993	1.998	7.5	8.3	11.	12.5
00065	STAGE, STREAM (FEET)	12/01/80-12/01/80	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	12/01/80-12/01/80	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/10/78-11/12/86	41	0.8	1.276	7.	0.3	1.431	1.196	0.4	0.6	1.65	2.16
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/78-11/12/86	34	725.5	742.588	990.	276.	25344.734	159.2	581.5	639.5	892.5	932.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/10/78-11/12/86	41	800.	794.073	1030.	625.	13849.87	117.685	652.6	677.5	897.5	940.
00300	OXYGEN, DISSOLVED MG/L	05/10/78-11/12/86	37	6.8	6.892	9.6	5.	1.255	1.12	5.54	6.1	7.65	8.64
00310	BOD, 5 DAY, 20 DEG C MG/L	01/17/79-08/15/79	4 ##	0.75	0.875	1.5	0.5	0.229	0.479	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	09/06/78-11/12/86	38	10.5	12.145	35.	5.	54.08	7.354	5.	5.	18.	20.1
00400	PH (STANDARD UNITS)	05/10/78-11/12/86	32	7.8	7.866	8.6	6.9	0.126	0.355	7.5	7.7	8.075	8.37
00400	CONVERTED PH (STANDARD UNITS)	05/10/78-11/12/86	32	7.8	7.705	8.6	6.9	0.153	0.391	7.5	7.7	8.075	8.37
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/78-11/12/86	32	0.016	0.02	0.126	0.003	0.001	0.024	0.004	0.008	0.02	0.032
00403	PH, LAB, STANDARD UNITS SU	05/10/78-11/12/86	10	8.	8.07	8.6	7.9	0.058	0.241	7.9	7.9	8.175	8.58
00403	CONVERTED PH, LAB, STANDARD UNITS	05/10/78-11/12/86	10	8.	8.023	8.6	7.9	0.06	0.246	7.9	7.9	8.175	8.58
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/78-11/12/86	10	0.01	0.009	0.013	0.003	0.	0.004	0.003	0.007	0.013	0.013
00405	CARBON DIOXIDE (MG/L AS CO2)	05/10/78-11/12/86	41	2.	1.878	4.	0.	0.96	0.98	1.	1.	3.	3.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/78-11/12/86	41	130.	131.317	177.	119.	115.822	10.762	121.	124.5	136.	140.4
00440	BICARBONATE ION (MG/L AS HCO3)	05/10/78-11/12/86	41	156.	157.683	188.	142.	100.922	10.046	146.	148.	166.	168.
00445	CARBONATE ION (MG/L AS CO3)	05/10/78-11/12/86	40	0.	0.525	4.	0.	1.384	1.176	0.	0.	0.	2.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/12/78-12/05/84	25 ##	1.5	2.858	16.	0.15	12.287	3.505	0.15	1.5	2.75	7.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/16/79-11/12/86	20 ##	1.5	1.775	6.	0.	1.67	1.292	0.	1.5	2.5	2.95
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/78-11/12/86	38 ##	0.05	0.055	0.1	0.05	0.	0.016	0.05	0.05	0.05	0.1
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/10/78-11/12/86	29 ##	0.005	0.013	0.05	0.	0.	0.012	0.005	0.005	0.025	0.025
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/17/79-12/05/84	11 ##	0.025	0.021	0.025	0.005	0.	0.008	0.005	0.025	0.025	0.025
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/10/78-11/12/86	32	0.475	0.514	0.8	0.23	0.02	0.141	0.343	0.41	0.64	0.7
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/17/79-12/05/84	11	0.6	0.585	0.8	0.34	0.019	0.138	0.362	0.45	0.7	0.79
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/10/78-11/12/86	41	0.3	0.322	1.	0.05	0.039	0.197	0.1	0.2	0.4	0.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/10/78-04/26/83	23	0.5	0.491	0.7	0.3	0.012	0.112	0.35	0.4	0.55	0.68
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/78-11/12/86	40	0.035	0.228	7.15	0.005	1.262	1.123	0.01	0.025	0.058	0.15
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/78-11/12/86	30 ##	0.01	0.015	0.06	0.	0.	0.015	0.003	0.005	0.021	0.04
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/10/78-11/12/86	36	5.	6.469	37.1	2.	37.808	6.149	2.52	3.125	7.225	12.39
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/10/78-11/12/86	41	270.	266.122	320.	191.	1065.11	32.636	226.2	236.5	292.	310.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/10/78-11/12/86	41	68.	67.561	88.	42.	107.902	10.388	56.	58.	76.5	80.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/12/78-11/12/86	40	24.	23.575	29.	13.	10.815	3.289	20.	21.25	26.	27.
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/10/78-11/12/86	41	69.	69.22	95.	48.	227.976	15.099	51.	53.	83.	90.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/10/78-11/12/86	40	4.	3.625	5.	2.	0.548	0.74	3.	3.	4.	5.
00940	CHLORIDE,TOTAL IN WATER MG/L	05/10/78-11/12/86	41	46.	44.122	72.	26.	193.46	13.909	27.	30.	56.	63.4
00941	CHLORIDE, DISSOLVED IN WATER MG/L	01/17/79-12/05/84	20	52.5	52.65	72.	27.	124.134	11.142	28.9	48.	59.75	65.8

** - 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: GRCA0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/10/78-11/12/86	41	217.	212.78	286.	151.	1864.676	43.182	156.4	167.	255.5	270.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/10/78-10/21/81	14	0.28	0.283	0.38	0.24	0.001	0.036	0.24	0.265	0.293	0.35
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/10/78-10/21/81	14	8.	8.357	10.	8.	0.401	0.633	8.	8.	9.	9.5
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/78-11/12/86	39	1.	1.346	5.	0.25	1.048	1.024	0.25	1.	2.	3.
01007	BARIUM, TOTAL (UG/L AS BA)	05/10/78-11/12/86	39	0.025	9.388	100.	0.	583.882	24.164	0.	0.	0.1	50.
01020	BORON, DISSOLVED (UG/L AS B)	05/10/78-10/21/81	14	142.5	141.786	165.	120.	236.951	15.393	120.	131.25	155.	165.
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/78-11/12/86	37 ##	0.5	0.784	5.	0.5	0.785	0.886	0.5	0.5	0.5	1.3
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	05/10/78-10/21/81	11 ##	2.5	2.455	2.5	2.	0.023	0.151	2.1	2.5	2.5	2.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/78-11/12/86	37 ##	2.5	3.203	10.	1.	3.201	1.789	2.5	2.5	2.5	5.5
01042	COPPER, TOTAL (UG/L AS CU)	05/10/78-11/12/86	37 ##	5.	7.77	20.	2.5	16.244	4.03	4.5	5.	10.	15.
01051	LEAD, TOTAL (UG/L AS PB)	05/10/78-11/12/86	37 ##	2.5	10.27	251.5	1.	1672.411	40.895	2.5	2.5	2.5	10.
01055	MANGANESE, TOTAL (UG/L AS MN)	05/10/78-11/12/86	37 ##	5.	8.162	75.	0.	143.167	11.965	2.5	5.	7.5	15.
01067	NICKEL, TOTAL (UG/L AS NI)	05/10/78-04/26/83	20 ##	5.	8.5	25.	5.	39.079	6.251	5.	5.	10.	23.75
01077	SILVER, TOTAL (UG/L AS AG)	05/10/78-11/12/86	37 ##	1.	1.378	5.	1.	0.992	0.996	1.	1.	1.	2.5
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/78-11/12/86	38	10.	13.974	90.	2.5	252.445	15.889	4.8	5.	20.	25.5
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/01/86-10/01/86	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/78-11/12/86	40 ##	0.5	0.596	2.	0.25	0.223	0.472	0.25	0.25	0.6	1.
01501	ALPHA, TOTAL	05/10/78-08/19/86	4	6.	7.75	19.	0.	74.917	8.655	**	**	**	**
03501	BETA, TOTAL	05/10/78-08/19/86	4	7.5	44.	161.	0.	6100.667	78.107	**	**	**	**
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/10/78-08/19/86	3	500.	356.	563.	5.	93393.	305.603	**	**	**	**
09501	RADIUM 226, TOTAL	05/10/78-08/19/86	4 ##	0.75	62.938	250.	0.25	15552.266	124.709	**	**	**	**
11501	RADIUM 228, TOTAL	10/21/81-08/19/86	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/21/81-10/21/81	1	3.72	3.72	3.72	3.72	0.	0.	**	**	**	**
22708	URANIUM, NATURAL TOTAL MG/L	10/21/81-10/21/81	1	3.72	3.72	3.72	3.72	0.	0.	**	**	**	**
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/12/78-08/15/79	7	23.	37.643	150.	11.5	2482.476	49.824	**	**	**	**
31506	LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	07/12/78-08/15/79	7	1.362	1.388	2.176	1.061	0.14	0.374	**	**	**	**
31506	GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			24.427								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	05/10/78-08/15/79	6	65.	292.417	1500.	11.5	351083.242	592.523	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	05/10/78-08/15/79	6	1.778	1.852	3.176	1.061	0.541	0.735	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			71.041								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	05/10/78-05/16/79	4 ##	0.015	0.019	0.03	0.015	0.	0.008	**	**	**	**
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	1	0.011	0.011	0.011	0.011	0.	0.	**	**	**	**
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	09/04/85-08/19/86	2	0.007	0.007	0.01	0.004	0.	0.004	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	08/19/86-08/19/86	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	08/19/86-08/19/86	1	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	1	0.012	0.012	0.012	0.012	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	1	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/04/85-09/04/85	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	09/04/85-08/19/86	2 ##	0.133	0.133	0.24	0.025	0.023	0.152	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	1	0.083	0.083	0.083	0.083	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	09/04/85-09/04/85	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	09/04/85-09/04/85	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	08/19/86-08/19/86	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	09/04/85-08/19/86	2 ##	0.058	0.058	0.1	0.015	0.004	0.06	**	**	**	**
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	09/04/85-09/04/85	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/10/78-11/12/86	41	520.	518.073	664.	380.	7932.32	89.064	406.4	420.	602.5	637.2
71830	HYDROXIDE ION (MG/L AS OH)	05/10/78-11/12/86	38	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	01/17/79-12/05/84	11 ##	0.01	0.013	0.04	0.005	0.	0.01	0.005	0.01	0.01	0.036
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/78-11/12/86	37 ##	0.05	0.101	1.6	0.05	0.065	0.254	0.05	0.05	0.05	0.1
72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	05/08/80-03/09/81	3	0.	0.1	0.3	0.	0.03	0.173	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	05/10/78-11/12/86	38	0.035	0.058	0.44	0.015	0.007	0.082	0.015	0.015	0.06	0.101

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

EPA Water Quality Criteria Analysis for Station: GRCA0004

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	41	0	0.00	19	0	0.00	10	0	0.00	12	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	37	0	0.00	18	0	0.00	9	0	0.00	10	0	0.00			
00400	PH	Other-Hi Lim.	9.	32	0	0.00	16	0	0.00	7	0	0.00	9	0	0.00			
		Other-Lo Lim.	6.5	32	0	0.00	16	0	0.00	7	0	0.00	9	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	10	0	0.00	4	0	0.00	3	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	10	0	0.00	4	0	0.00	3	0	0.00	3	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	29	0	0.00	13	0	0.00	8	0	0.00	8	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	11	0	0.00	5	0	0.00	4	0	0.00	2	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	32	0	0.00	14	0	0.00	8	0	0.00	10	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	11	0	0.00	5	0	0.00	4	0	0.00	2	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	23	0	0.00	10	0	0.00	7	0	0.00	6	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	41	0	0.00	19	0	0.00	10	0	0.00	12	0	0.00			
		Drinking Water	250.	41	0	0.00	19	0	0.00	10	0	0.00	12	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	20	0	0.00	10	0	0.00	6	0	0.00	4	0	0.00			
		Drinking Water	250.	20	0	0.00	10	0	0.00	6	0	0.00	4	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	41	12	0.29	19	3	0.16	10	6	0.60	12	3	0.25			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	14	0	0.00	5	0	0.00	5	0	0.00	4	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	39	0	0.00	19	0	0.00	10	0	0.00	10	0	0.00			
		Drinking Water	50.	39	0	0.00	19	0	0.00	10	0	0.00	10	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	39	0	0.00	18	0	0.00	10	0	0.00	11	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	37	1	0.03	18	0	0.00	10	1	0.10	9	0	0.00			
		Drinking Water	5.	37	1	0.03	18	0	0.00	10	1	0.10	9	0	0.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	11	0	0.00	4	0	0.00	5	0	0.00	2	0	0.00			
		Drinking Water	100.	11	0	0.00	4	0	0.00	5	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	37	0	0.00	18	0	0.00	10	0	0.00	9	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	37	1	0.03	18	0	0.00	10	0	0.00	9	1	0.11			
		Drinking Water	1300.	37	0	0.00	18	0	0.00	10	0	0.00	9	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	36 &	0	0.00	18	0	0.00	9	0	0.00	9	0	0.00			
		Drinking Water	15.	36 &	1	0.03	18	0	0.00	9	1	0.11	9	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	20	0	0.00	9	0	0.00	7	0	0.00	4	0	0.00			
		Drinking Water	100.	20	0	0.00	9	0	0.00	7	0	0.00	4	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	36 &	1	0.03	17	0	0.00	10	1	0.10	9	0	0.00			
		Drinking Water	100.	37	0	0.00	18	0	0.00	10	0	0.00	9	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	38	0	0.00	18	0	0.00	10	0	0.00	10	0	0.00			
		Drinking Water	5000.	38	0	0.00	18	0	0.00	10	0	0.00	10	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	40	0	0.00	19	0	0.00	10	0	0.00	11	0	0.00			
		Drinking Water	50.	40	0	0.00	19	0	0.00	10	0	0.00	11	0	0.00			
07000	TRITIUM, TOTAL	Drinking Water	20000.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									
22708	URANIUM, NATURAL, TOTAL	Drinking Water	0.02	1	1	1.00	1	1	1.00									
31506	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C	Other-Hi Lim.	1000.	7	0	0.00	2	0	0.00	2	0	0.00	3	0	0.00			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	6	1	0.17	2	0	0.00	1	0	0.00	3	1	0.33			
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1	0	0.00							1	0	0.00			
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	2	0	0.00							2	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	1	0	0.00							1	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	1	0	0.00							1	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	1	0	0.00							1	0	0.00			
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	1	0	0.00							1	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	2	0	0.00							2	0	0.00			
		Drinking Water	3.	2	0	0.00							2	0	0.00			
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00							1	0	0.00			
		Drinking Water	0.4	1	0	0.00							1	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: GRCA0004

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	1	0	0.00							1	0	0.00			
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	2	0	0.00							2	0	0.00			
39782	LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	37	0	0.00	18	0	0.00	10	0	0.00	9	0	0.00			
		Drinking Water	2.	37	0	0.00	18	0	0.00	10	0	0.00	9	0	0.00			

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

Seasonal Analysis for Season #1: 10/01 to 3/14 - Station GRCA0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/78-11/12/86	18	10.	10.011	13.	7.	2.974	1.725	7.45	8.85	11.25	12.55
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/10/78-11/12/86	19	0.8	1.	2.	0.4	0.26	0.51	0.5	0.7	1.3	2.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/78-11/12/86	16	664.5	683.813	925.	276.	22984.696	151.607	472.7	618.25	782.5	886.5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/10/78-11/12/86	19	760.	750.947	940.	625.	9810.942	99.05	649.	655.	830.	895.
00300	OXYGEN, DISSOLVED MG/L	05/10/78-11/12/86	18	6.95	6.994	8.8	5.6	0.951	0.975	5.78	6.175	7.775	8.62
00335	COD, .025N K2CR2O7 MG/L	09/06/78-11/12/86	18	12.	12.167	21.	5.	30.588	5.531	5.	6.875	17.25	20.1
00400	PH (STANDARD UNITS)	05/10/78-11/12/86	16	7.85	7.913	8.6	7.1	0.14	0.374	7.38	7.7	8.25	8.46
00400	CONVERTED PH (STANDARD UNITS)	05/10/78-11/12/86	16	7.847	7.758	8.6	7.1	0.165	0.407	7.38	7.7	8.25	8.46
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/78-11/12/86	16	0.014	0.017	0.079	0.003	0.	0.018	0.004	0.006	0.02	0.046
00405	CARBON DIOXIDE (MG/L AS CO2)	05/10/78-11/12/86	19	2.	1.895	3.	1.	0.544	0.737	1.	1.	2.	3.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/78-11/12/86	19	125.	127.263	149.	120.	58.871	7.673	120.	121.	132.	138.
00440	BICARBONATE ION (MG/L AS HCO3)	05/10/78-11/12/86	19	150.	154.211	182.	142.	98.175	9.908	146.	148.	162.	168.
00445	CARBONATE ION (MG/L AS CO3)	05/10/78-11/12/86	19	0.	0.526	4.	0.	1.708	1.307	0.	0.	0.	4.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/12/78-12/05/84	11 ##	1.5	2.568	10.	0.15	8.358	2.891	0.24	1.5	2.5	9.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/16/79-11/12/86	10 ##	1.5	1.9	6.	0.	2.433	1.56	0.15	1.5	1.75	5.65
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/78-11/12/86	18 ##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/10/78-11/12/86	13 ##	0.005	0.011	0.025	0.005	0.	0.01	0.005	0.005	0.025	0.025
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/10/78-11/12/86	14	0.415	0.458	0.75	0.23	0.021	0.144	0.285	0.365	0.563	0.725
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/10/78-11/12/86	19	0.3	0.334	1.	0.05	0.048	0.22	0.1	0.2	0.5	0.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/78-11/12/86	18	0.04	0.452	7.15	0.007	2.797	1.672	0.01	0.025	0.09	0.895
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/78-11/12/86	14 ##	0.01	0.016	0.05	0.003	0.	0.013	0.004	0.006	0.026	0.04
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/10/78-11/12/86	17	5.4	7.847	37.1	2.7	66.911	8.18	2.78	3.65	9.1	18.06
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/10/78-11/12/86	19	256.	250.526	304.	191.	931.041	30.513	210.	227.	270.	292.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/10/78-11/12/86	19	64.	61.947	78.	42.	78.053	8.835	50.	56.	68.	73.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/12/78-11/12/86	19	23.	23.316	27.	18.	6.339	2.518	20.	21.	26.	27.
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/10/78-11/12/86	19	62.	64.053	92.	48.	191.386	13.834	49.	51.	74.	85.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/10/78-11/12/86	18	3.	3.389	5.	3.	0.369	0.608	3.	3.	4.	4.1
00940	CHLORIDE,TOTAL IN WATER MG/L	05/10/78-11/12/86	19	42.	39.579	59.	26.	145.813	12.075	27.	27.	50.	56.
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/10/78-11/12/86	19	200.	199.579	270.	151.	1727.48	41.563	154.	165.	233.	270.
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/78-11/12/86	19	1.	1.539	5.	0.25	1.634	1.278	0.25	1.	2.	4.
01007	BARIUM, TOTAL (UG/L AS BA)	05/10/78-11/12/86	18 ##	0.025	5.871	80.	0.	376.738	19.41	0.	0.	0.1	30.5
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/78-11/12/86	18 ##	0.5	0.694	2.5	0.5	0.239	0.489	0.5	0.5	0.625	1.15
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/78-11/12/86	18 ##	2.5	3.194	7.5	2.5	2.063	1.436	2.5	2.5	3.125	5.25
01042	COPPER, TOTAL (UG/L AS CU)	05/10/78-11/12/86	18 ##	7.5	7.917	15.	2.5	13.419	3.663	4.75	5.	10.	15.
01051	LEAD, TOTAL (UG/L AS PB)	05/10/78-11/12/86	18 ##	2.5	2.917	10.	2.5	3.125	1.768	2.5	2.5	2.5	3.25
01055	MANGANESE, TOTAL (UG/L AS MN)	05/10/78-11/12/86	18 ##	5.	9.583	75.	2.5	273.713	16.544	4.75	5.	5.	21.
01077	SILVER, TOTAL (UG/L AS AG)	05/10/78-11/12/86	18 ##	1.	1.306	5.	1.	0.975	0.987	1.	1.	1.	2.75
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/78-11/12/86	18	10.	13.194	50.	2.5	146.916	12.121	4.75	5.	20.	32.
01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/78-11/12/86	19 ##	0.5	0.637	2.	0.25	0.272	0.521	0.25	0.25	0.6	2.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/10/78-11/12/86	19	504.	483.316	622.	380.	6013.784	77.549	404.	412.	546.	595.
71830	HYDROXIDE ION (MG/L AS OH)	05/10/78-11/12/86	18	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/78-11/12/86	18 ##	0.05	0.058	0.15	0.05	0.001	0.026	0.05	0.05	0.05	0.105
74010	IRON, TOTAL (MG/L AS FE)	05/10/78-11/12/86	18	0.045	0.069	0.44	0.015	0.009	0.096	0.015	0.026	0.065	0.143

** - Less than 9 observations ## - Computed 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: 3/15 to 6/19 - Station GRCA0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/78-11/12/86	9	8.2	8.5	10.8	6.5	1.458	1.207	6.5	7.9	9.25	10.8
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/10/78-11/12/86	10	0.8	1.16	4.	0.3	1.283	1.133	0.3	0.3	1.525	3.79
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/78-11/12/86	7	890.	858.857	990.	661.	12477.476	111.703	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/10/78-11/12/86	10	905.	881.4	1030.	695.	9531.822	97.631	702.	801.75	940.	1021.
00300	OXYGEN, DISSOLVED MG/L	05/10/78-11/12/86	9	6.8	6.867	8.8	5.1	1.29	1.136	5.1	6.05	7.75	8.8
00335	COD, .025N K2CR2O7 MG/L	09/06/78-11/12/86	9 ##	5.	9.278	20.	5.	40.944	6.399	5.	5.	15.5	20.
00400	PH (STANDARD UNITS)	05/10/78-11/12/86	7	7.8	7.929	8.4	7.6	0.092	0.304	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/10/78-11/12/86	7	7.8	7.852	8.4	7.6	0.099	0.315	**	**	**	**

** - Less than 9 observations ## - Computed 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: 3/15 to 6/19 - Station GRCA0004

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	05/10/78-11/12/86	7	0.016	0.014	0.025	0.004	0.	0.008	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	05/10/78-11/12/86	10	1.5	1.9	4.	1.	1.211	1.101	1.	1.	3.	3.9
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/78-11/12/86	10	135.5	136.8	154.	130.	48.622	6.973	130.1	131.75	138.75	152.7
00440	BICARBONATE ION (MG/L AS HCO3)	05/10/78-11/12/86	10	164.	165.7	188.	158.	77.789	8.82	158.	159.5	168.	186.
00445	CARBONATE ION (MG/L AS CO3)	05/10/78-11/12/86	9	0.	0.556	2.	0.	0.778	0.882	0.	0.	1.5	2.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/12/78-12/05/84	6 ##	2.	1.675	3.	0.15	1.42	1.192	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/16/79-11/12/86	5 ##	2.5	1.9	3.	0.	1.425	1.194	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/78-11/12/86	10 ##	0.05	0.065	0.1	0.05	0.001	0.024	0.05	0.05	0.1	0.1
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/10/78-11/12/86	8 ##	0.015	0.014	0.025	0.	0.	0.011	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/10/78-11/12/86	8	0.575	0.569	0.7	0.44	0.008	0.091	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/10/78-11/12/86	10	0.3	0.255	0.5	0.05	0.016	0.126	0.055	0.175	0.3	0.48
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/78-11/12/86	10	0.04	0.045	0.1	0.02	0.001	0.023	0.021	0.029	0.053	0.096
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/78-11/12/86	8	0.01	0.015	0.04	0.	0.	0.016	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/10/78-11/12/86	9	6.2	6.944	15.5	3.6	12.095	3.478	3.6	4.95	7.5	15.5
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/10/78-11/12/86	10	292.	290.9	320.	250.	496.1	22.273	252.2	274.25	312.	319.8
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/10/78-11/12/86	10	79.	75.5	88.	58.	79.833	8.935	58.8	67.5	80.5	87.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/12/78-11/12/86	9	25.	24.667	29.	16.	13.5	3.674	16.	24.	27.	29.
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/10/78-11/12/86	10	80.5	78.3	95.	61.	125.789	11.216	61.2	66.75	86.5	94.3
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/10/78-11/12/86	10	4.	4.2	5.	3.	0.4	0.632	3.1	4.	5.	5.
00940	CHLORIDE,TOTAL IN WATER MG/L	05/10/78-11/12/86	10	59.5	55.9	72.	36.	137.656	11.733	36.5	43.25	64.5	71.4
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/10/78-11/12/86	10	257.	239.2	286.	169.	1772.4	42.1	170.6	187.25	271.5	284.7
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/78-11/12/86	10	1.	1.2	3.	0.5	0.567	0.753	0.5	0.875	1.25	2.9
01007	BARIUM, TOTAL (UG/L AS BA)	05/10/78-11/12/86	10 ##	0.025	5.02	50.	0.	249.778	15.804	0.	0.	0.05	45.005
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/78-11/12/86	10 ##	0.5	0.95	5.	0.5	2.025	1.423	0.5	0.5	0.5	4.55
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/78-11/12/86	10 ##	2.5	4.	10.	2.5	7.222	2.687	2.5	2.5	5.625	9.75
01042	COPPER, TOTAL (UG/L AS CU)	05/10/78-11/12/86	10 ##	5.	5.5	10.	2.5	6.667	2.582	2.5	4.375	6.25	10.
01051	LEAD, TOTAL (UG/L AS PB)	05/10/78-11/12/86	10 ##	2.5	29.65	251.5	2.5	6105.392	78.137	2.5	2.5	8.75	228.35
01055	MANGANESE, TOTAL (UG/L AS MN)	05/10/78-11/12/86	10	5.	7.2	20.	0.	34.789	5.898	0.25	2.5	10.5	19.2
01077	SILVER, TOTAL (UG/L AS AG)	05/10/78-11/12/86	10 ##	1.	1.7	5.	1.	1.733	1.317	1.	1.	2.5	4.75
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/78-11/12/86	10	5.	6.35	10.	2.5	8.447	2.906	2.55	4.5	10.	10.
01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/78-11/12/86	10 ##	0.5	0.65	2.	0.25	0.308	0.555	0.25	0.25	1.	1.9
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/10/78-11/12/86	10	614.	588.8	664.	438.	5034.844	70.957	444.8	540.5	641.	662.6
71830	HYDROXIDE ION (MG/L AS OH)	05/10/78-11/12/86	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/78-11/12/86	10 ##	0.05	0.06	0.1	0.05	0.	0.021	0.05	0.05	0.063	0.1
74010	IRON, TOTAL (MG/L AS FE)	05/10/78-11/12/86	10 ##	0.015	0.033	0.08	0.015	0.001	0.025	0.015	0.015	0.053	0.078

** - Less than 9 observations ## - Computed 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: 6/20 to 9/30 - Station GRCA0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/78-11/12/86	12	10.5	10.758	15.4	7.	5.712	2.39	7.39	9.05	12.1	15.01
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/10/78-11/12/86	12	1.3	1.808	7.	0.4	3.277	1.81	0.46	0.65	2.15	5.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/78-11/12/86	11	673.	754.091	950.	450.	26538.291	162.906	485.2	659.	920.	945.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/10/78-11/12/86	12	742.5	789.583	1000.	675.	16342.992	127.84	675.	680.	915.	991.
00300	OXYGEN, DISSOLVED MG/L	05/10/78-11/12/86	10	6.35	6.73	9.6	5.	2.027	1.424	5.03	5.825	7.75	9.49
00335	COD, .025N K2CR2O7 MG/L	09/06/78-11/12/86	11	13.	14.455	35.	5.	102.073	10.103	5.	5.	20.	33.4
00400	PH (STANDARD UNITS)	05/10/78-11/12/86	9	7.8	7.733	8.1	6.9	0.13	0.361	6.9	7.6	8.	8.1
00400	CONVERTED PH (STANDARD UNITS)	05/10/78-11/12/86	9	7.8	7.551	8.1	6.9	0.167	0.409	6.9	7.6	8.	8.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/78-11/12/86	9	0.016	0.028	0.126	0.008	0.001	0.037	0.008	0.01	0.026	0.126
00405	CARBON DIOXIDE (MG/L AS CO2)	05/10/78-11/12/86	12	1.	1.833	4.	0.	1.606	1.267	0.3	1.	3.	3.7
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/78-11/12/86	12	129.5	133.167	177.	119.	225.606	15.02	120.5	125.	137.5	165.3
00440	BICARBONATE ION (MG/L AS HCO3)	05/10/78-11/12/86	12	156.	156.5	168.	144.	61.909	7.868	144.6	152.	164.5	168.
00445	CARBONATE ION (MG/L AS CO3)	05/10/78-11/12/86	12	0.	0.5	4.	0.	1.545	1.243	0.	0.	0.	3.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/12/78-12/05/84	8 ##	2.	4.144	16.	0.15	25.951	5.094	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/16/79-11/12/86	5 ##	1.5	1.4	2.5	0.	0.8	0.894	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/10/78-11/12/86	10 ##	0.05	0.055	0.1	0.05	0.	0.016	0.05	0.05	0.05	0.095

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

Seasonal Analysis for Season #3: 6/20 to 9/30 - Station GRCA0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/10/78-11/12/86	8 ##	0.008	0.016	0.05	0.005	0.	0.016	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/10/78-11/12/86	10	0.5	0.549	0.8	0.34	0.023	0.152	0.347	0.433	0.7	0.79
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/10/78-11/12/86	12	0.3	0.358	0.8	0.1	0.043	0.207	0.13	0.2	0.55	0.74
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/10/78-11/12/86	12	0.028	0.045	0.15	0.005	0.003	0.051	0.005	0.013	0.05	0.15
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/10/78-11/12/86	8 ##	0.006	0.014	0.06	0.003	0.	0.019	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/10/78-11/12/86	10	2.95	3.7	8.3	2.	4.996	2.235	2.	2.075	4.525	8.2
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/10/78-11/12/86	12	268.	270.167	316.	233.	947.606	30.783	233.9	237.75	298.	314.2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/10/78-11/12/86	12	70.5	69.833	84.	58.	81.97	9.054	58.	59.5	77.25	82.8
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/12/78-11/12/86	12	24.5	23.167	28.	13.	16.879	4.108	15.1	21.	26.	27.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/10/78-11/12/86	12	68.	69.833	92.	52.	291.424	17.071	52.	53.25	88.5	91.4
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/10/78-11/12/86	12	3.5	3.5	5.	2.	0.636	0.798	2.3	3.	4.	4.7
00940	CHLORIDE,TOTAL IN WATER MG/L	05/10/78-11/12/86	12	32.5	41.5	64.	30.	183.	13.528	30.	30.25	55.25	62.8
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/10/78-11/12/86	12	218.	211.667	260.	158.	1566.788	39.583	160.7	167.5	251.	259.4
01002	ARSENIC, TOTAL (UG/L AS AS)	05/10/78-11/12/86	10	1.	1.125	2.	0.25	0.434	0.659	0.275	0.5	2.	2.
01007	BARIUM, TOTAL (UG/L AS BA)	05/10/78-11/12/86	11	0.025	19.115	100.	0.	1208.08	34.757	0.	0.	50.	92.
01027	CADMIUM, TOTAL (UG/L AS CD)	05/10/78-11/12/86	9 ##	0.5	0.778	3.	0.5	0.694	0.833	0.5	0.5	0.5	3.
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/10/78-11/12/86	9 ##	2.5	2.333	2.5	1.	0.25	0.5	1.	2.5	2.5	2.5
01042	COPPER, TOTAL (UG/L AS CU)	05/10/78-11/12/86	9 ##	10.	10.	20.	5.	25.	5.	5.	5.	12.5	20.
01051	LEAD, TOTAL (UG/L AS PB)	05/10/78-11/12/86	9 ##	2.5	3.444	10.	1.	7.09	2.663	1.	2.5	3.75	10.
01055	MANGANESE, TOTAL (UG/L AS MN)	05/10/78-11/12/86	9 ##	5.	6.389	15.	2.5	14.236	3.773	2.5	5.	7.5	15.
01077	SILVER, TOTAL (UG/L AS AG)	05/10/78-11/12/86	9 ##	1.	1.167	2.5	1.	0.25	0.5	1.	1.	1.	2.5
01092	ZINC, TOTAL (UG/L AS ZN)	05/10/78-11/12/86	10	15.	23.	90.	10.	595.556	24.404	10.	10.	25.	83.5
01147	SELENIUM, TOTAL (UG/L AS SE)	05/10/78-11/12/86	11 ##	0.5	0.477	1.	0.25	0.081	0.284	0.25	0.25	0.5	1.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/10/78-11/12/86	12	489.	514.167	654.	406.	8233.788	90.74	406.6	444.	604.5	648.
71830	HYDROXIDE ION (MG/L AS OH)	05/10/78-11/12/86	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
71900	MERCURY, TOTAL (UG/L AS HG)	05/10/78-11/12/86	9 ##	0.05	0.233	1.6	0.05	0.263	0.513	0.05	0.05	0.1	1.6
74010	IRON, TOTAL (MG/L AS FE)	05/10/78-11/12/86	10	0.03	0.064	0.31	0.015	0.008	0.091	0.015	0.015	0.085	0.289

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

Station Inventory for Station: GRCA0005

NPS Station ID: GRCA0005 | LAT/LON: 36.940420/-111.488309 | Agency: 11NPSWRD | Date Created: 01/07/95
Location: THE DAM | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /RESERV/TYPA/AMBNT | STORET Station ID(s): GLCA_DAM1
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14070006 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER - SAN JUAN RIVER | ECO Region:
RF1 Index: 14070006 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
SAMPLE LOCATION IS IN LAKE POWELL AT THE DAM. THIS DATA WAS COLLECTED BY GLEN CANYON NATIONAL RECREATION AREA DURINGA BACTERIA MONITORING STUDY CONDUCTED FROM 1988 ON IN ORDER TO MONITOR THE IMPACTS OF RECREATIONAL BATHING AND BOATING. THIS DATA IS SUMMARIZED IN A NATIONAL PARK SERVICE - WATER RESOURCES DIVISION TECHNICAL REPORT.

Parameter Inventory for Station: GRCA0005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th

******** No Parameter Data at this Station Suitable for Statistical Analysis ********

Station Inventory for Station: GRCA0006

NPS Station ID: GRCA0006
LAT/LON: 36.863892/-111.577504
Agency: 112WRD
Date Created: 02/28/78
Location: A-40-08 18DBC
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 365150111343901
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070006
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 14070006
RF1 Mile Point: 0.000
Distance from RF1: 30.40
On/Off RF1:
RF3 Index: 15010001033903.87
RF3 Mile Point: 4.68
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/04/76-08/04/76	1	22.5	22.5	22.5	22.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/04/76-08/04/76	1	625.	625.	625.	625.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/04/76-08/04/76	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/04/76-08/04/76	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/04/76-08/04/76	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/04/76-08/04/76	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/04/76-08/04/76	1	133.	133.	133.	133.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/04/76-08/04/76	1	162.	162.	162.	162.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/04/76-08/04/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/04/76-08/04/76	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/04/76-08/04/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/04/76-08/04/76	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/04/76-08/04/76	1	57.	57.	57.	57.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/04/76-08/04/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/04/76-08/04/76	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/04/76-08/04/76	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/04/76-08/04/76	1	120.	120.	120.	120.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/04/76-08/04/76	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/04/76-08/04/76	1	81.	81.	81.	81.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/04/76-08/04/76	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/04/76-08/04/76	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/04/76-08/04/76	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/04/76-08/04/76	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/04/76-08/04/76	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/04/76-08/04/76	1	270.	270.	270.	270.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/04/76-08/04/76	1	40.	40.	40.	40.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/04/76-08/04/76	1	397.	397.	397.	397.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/04/76-08/04/76	1	405.	405.	405.	405.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/04/76-08/04/76	1	0.54	0.54	0.54	0.54	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0006

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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: GRCA0007

NPS Station ID: GRCA0007
LAT/LON: 36.865837/-111.585004
Agency: 11TOX09
Date Created: 12/05/81
Location: LEES FERRY @ RAFT RAMP
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 000142
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070006
Depth of Water: 999
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LOWER COLORADO RIVER
ECO Region:
RF1 Index: 14070006001
RF1 Mile Point: 0.880
Distance from RF1: 12.40
On/Off RF1: ON
RF3 Index: 15010002002800.50
RF3 Mile Point: 4.70
Distance from RF3: 0.13
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0007

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)	06/02/81-06/02/81	1	10.36	10.36	10.36	10.36	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/02/81-06/02/81	1 ##	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/02/81-06/02/81	1 ##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/02/81-06/02/81	1	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/02/81-06/02/81	1	33.3	33.3	33.3	33.3	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/02/81-06/02/81	1	44.1	44.1	44.1	44.1	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/02/81-06/02/81	1 ##	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/02/81-06/02/81	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/02/81-06/02/81	1	95.8	95.8	95.8	95.8	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/02/81-06/02/81	1	29.9	29.9	29.9	29.9	0.	0.	**	**	**	**
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/02/81-06/02/81	1	101.4	101.4	101.4	101.4	0.	0.	**	**	**	**
34213	ACROLEIN DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	37.	36.833	38.5	35.	3.083	1.756	**	**	**	**
34218	ACRYLONITRILE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	37.	36.833	38.5	35.	3.083	1.756	**	**	**	**
34237	BENZENE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34257	B-BHC-BETA DRY WGTBOTUG/KG	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
34271	BIS (CHLOROMETHYL) ETHER DRY WGTBOTUG/KG	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
34290	BROMOFORM DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34299	CARBON TETRACHLORIDE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34304	CHLOROBENZENE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34309	CHLORODIBROMOMETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34314	CHLOROETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34318	CHLOROFORM DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34330	DICHLOROBROMOMETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
34374	ETHYLBENZENE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34416	METHYL BROMIDE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34421	METHYL CHLORIDE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34426	METHYLENE CHLORIDE DRY WGTBOTUG/KG	05/07/81-05/07/81	2	241.85	241.85	292.	191.7	5030.045	70.923	**	**	**	**
34478	TETRACHLOROETHYLENE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34480	THALLIUM DRY WGTBOTMG/KG	06/02/81-06/02/81	1	26.3	26.3	26.3	26.3	0.	0.	**	**	**	**
34483	TOLUENE DRY WGTBOTUG/KG	05/07/81-06/02/81	3	8.8	7.417	9.6	3.85	9.701	3.115	**	**	**	**
34487	TRICHLOROETHYLENE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34491	TRICHLOROFLUOROMETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34495	VINYL CHLORIDE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34499	1,1-DICHLOROETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**

** - Less than 9 observations ## - 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: GRCA0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34504	1,1-DICHLOROETHYLENE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34509	1,1,1-TRICHLOROETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34514	1,1,2-TRICHLOROETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34519	1,1,2,2-TETRACHLOROETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34534	1,2-DICHLOROETHANE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34544	1,2-DICHLOROPROPANE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34549	TRANS-1,2-DICHLOROETHENE, IN SED. DRY WT. UG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34564	1,3-DICHLOROPROPENE DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34579	2-CHLOROETHYL VINYL ETHER DRY WGTBOTUG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
34702	CIS-1,3-DICHLOROPROPENE SEDIMENT DRY WEIGHT UG/KG	05/07/81-06/02/81	3 ##	3.7	3.683	3.85	3.5	0.031	0.176	**	**	**	**
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	06/02/81-06/02/81	1 ##	38.5	38.5	38.5	38.5	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/02/81-06/02/81	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

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

Station Inventory for Station: GRCA0008

NPS Station ID: GRCA0008
LAT/LON: 36.870004/-111.585004
Agency: 11TOX09
Date Created: 06/27/81
Location: COLORADO RIVER AT LEE'S FERRY
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 000095
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070006
Depth of Water: 999
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 14070006001
RF1 Mile Point: 1.030
Distance from RF1: 9.90
On/Off RF1: ON
RF3 Index: 15020016049500.00
RF3 Mile Point: 1.19
Distance from RF3: 0.60
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002	ARSENIC, TOTAL (UG/L AS AS)	08/29/80-08/29/80	1 ##	623.5	623.5	623.5	623.5	0.	0.	**	**	**	**
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	08/29/80-08/29/80	1 ##	98.58	98.58	98.58	98.58	0.	0.	**	**	**	**
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	08/29/80-08/29/80	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/29/80-08/29/80	1 ##	13.	13.	13.	13.	0.	0.	**	**	**	**
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	08/29/80-08/29/80	1 ##	2.35	2.35	2.35	2.35	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/29/80-08/29/80	1 ##	44.	44.	44.	44.	0.	0.	**	**	**	**
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/29/80-08/29/80	1 ##	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/29/80-08/29/80	1	126.18	126.18	126.18	126.18	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/29/80-08/29/80	1	175.	175.	175.	175.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/29/80-08/29/80	1 ##	26.5	26.5	26.5	26.5	0.	0.	**	**	**	**
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/29/80-08/29/80	1	36.28	36.28	36.28	36.28	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/29/80-08/29/80	1 ##	237.5	237.5	237.5	237.5	0.	0.	**	**	**	**
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/29/80-08/29/80	1 ##	39.435	39.435	39.435	39.435	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/29/80-08/29/80	1 ##	45.5	45.5	45.5	45.5	0.	0.	**	**	**	**
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/29/80-08/29/80	1	23.66	23.66	23.66	23.66	0.	0.	**	**	**	**
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	08/29/80-08/29/80	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/29/80-08/29/80	1 ##	21.5	21.5	21.5	21.5	0.	0.	**	**	**	**
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/29/80-08/29/80	1	206.62	206.62	206.62	206.62	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	08/29/80-08/29/80	1 ##	144.5	144.5	144.5	144.5	0.	0.	**	**	**	**
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	08/29/80-08/29/80	1	194.	194.	194.	194.	0.	0.	**	**	**	**
01099	ANTIMONY,TISSUE,WET WEIGHT,MG/KG	08/29/80-08/29/80	1	5.	5.	5.	5.	0.	0.	**	**	**	**
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	08/29/80-08/29/80	1 ##	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	08/29/80-08/29/80	1 ##	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
32103	1,2-DICHLOROETHANE,WHOLE WATER,UG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32104	BROMOFORM,WHOLE WATER,UG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32105	DIBROMOCHLOROMETHANE,WHOLE WATER,UG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
32106	CHLOROFORM,WHOLE WATER,UG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34200	ACENAPHTHYLENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34204	ACENAPHTHYLENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34205	ACENAPHTHENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34208	ACENAPHTHENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34209	ACENAPHTHENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34210	ACROLEIN TOTWUG/L	08/29/80-08/29/80	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
34213	ACROLEIN DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	39.43	39.43	39.43	39.43	0.	0.	**	**	**	**
34214	ACROLEIN WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: GRCA0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34215	ACRYLONITRILE TOTWUG/L	08/29/80-08/29/80	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
34218	ACRYLONITRILE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	39.43	39.43	39.43	39.43	0.	0.	**	**	**	**
34219	ACRYLONITRILE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34220	ANTHRACENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34223	ANTHRACENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34224	ANTHRACENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34234	BENZO(B)FLUORANTHENE,TISSUE,WET WGT,MG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34237	BENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34238	BENZENE WET WGTTISMG/KG	08/29/80-08/29/80	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34241	BENZIDINE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34247	BENZO-A-PYRENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34251	BENZO-A-PYRENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34252	BERYLLIUM WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
34257	B-BHC-BETA DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34258	B-BHC-BETA WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34290	BROMOFORM DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34291	BROMOFORM WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34296	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34299	CARBON TETRACHLORIDE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34300	CARBON TETRACHLORIDE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34301	CHLOROBENZENE TOTWUG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34304	CHLOROBENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34305	CHLOROBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34309	CHLORODIBROMOMETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34310	CHLORODIBROMOMETHANE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34311	CHLOROETHANE TOTWUG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34314	CHLOROETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34315	CHLOROETHANE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34318	CHLOROFORM DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34319	CHLOROFORM WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34320	CHRYSENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34323	CHRYSENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34324	CHRYSENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34330	DICHLOROBROMOMETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34331	DICHLOROBROMOMETHANE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34335	DICHLORODIFLUOROMETHANE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34336	DIETHYL PHTHALATE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34340	DIETHYL PHTHALATE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34341	DIMETHYL PHTHALATE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	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

Parameter Inventory for Station: GRCA0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34350	1,2-DIPHENYLHYDRAZINE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34351	ENDOSULFAN SULFATE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34356	ENDOSULFAN, BETA TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34360	ENDOSULFAN, BETA WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34361	ENDOSULFAN, ALPHA TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34366	ENDRIN ALDEHYDE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	625.	625.	625.	625.	0.	0.	**	**	**	**
34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34371	ETHYLBENZENE TOTWUG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34374	ETHYLBENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34375	ETHYLBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34376	FLUORANTHENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34379	FLUORANTHENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34380	FLUORANTHENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34381	FLUORENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34384	FLUORENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34385	FLUORENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34386	HEXACHLOROCYCLOPENTADIENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34389	HEXACHLOROCYCLOPENTADIENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34390	HEXACHLOROCYCLOPENTADIENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34391	HEXACHLOROBUTADIENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34396	HEXACHLOROETHANE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34399	HEXACHLOROETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34400	HEXACHLOROETHANE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34403	INDENO (1,2,3-CD) PYRENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34406	INDENO (1,2,3-CD) PYRENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34407	INDENO (1,2,3-CD) PYRENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34408	ISOPHORONE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34411	ISOPHORONE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34412	ISOPHORONE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34413	METHYL BROMIDE TOTWUG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34416	METHYL BROMIDE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34417	METHYL BROMIDE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34418	METHYL CHLORIDE TOTWUG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34421	METHYL CHLORIDE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34422	METHYL CHLORIDE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34423	METHYLENE CHLORIDE TOTWUG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34426	METHYLENE CHLORIDE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34428	N-NITROSODI-N-PROPYLAMINE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34431	N-NITROSODI-N-PROPYLAMINE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34432	N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34433	N-NITROSODIPHENYLAMINE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34436	N-NITROSODIPHENYLAMINE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34437	N-NITROSODIPHENYLAMINE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34438	N-NITROSODIMETHYLAMINE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34441	N-NITROSODIMETHYLAMINE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34442	N-NITROSODIMETHYLAMINE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34445	NAPHTHALENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34446	NAPHTHALENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34447	NITROBENZENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34450	NITROBENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34451	NITROBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34452	PARACHLOROMETA CRESOL TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34455	PARACHLOROMETA CRESOL DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34456	PARACHLOROMETA CRESOL WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34461	PHENANTHRENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	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

Parameter Inventory for Station: GRCA0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34464	PHENANTHRENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34465	PHENANTHRENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34468	PHENOL WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34469	PYRENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34472	PYRENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34473	PYRENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34475	TETRACHLOROETHYLENE TOTWUG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34478	TETRACHLOROETHYLENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34479	TETRACHLOROETHYLENE WET WGTTISMG/KG	08/29/80-08/29/80	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34483	TOLUENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34484	TOLUENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34487	TRICHLOROETHYLENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
34488	TRICHLOROFLUOROMETHANE TOTWUG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34491	TRICHLOROFLUOROMETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34492	TRICHLOROFLUOROMETHANE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34495	VINYL CHLORIDE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34496	1,1-DICHLOROETHANE TOTWUG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34499	1,1-DICHLOROETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34500	1,1-DICHLOROETHANE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34501	1,1-DICHLOROETHYLENE TOTWUG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34504	1,1-DICHLOROETHYLENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34505	1,1-DICHLOROETHYLENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34506	1,1,1-TRICHLOROETHANE TOTWUG/L	08/29/80-08/29/80	1 ##	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
34509	1,1,1-TRICHLOROETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34510	1,1,1-TRICHLOROETHANE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34511	1,1,2-TRICHLOROETHANE TOTWUG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34514	1,1,2-TRICHLOROETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34515	1,1,2-TRICHLOROETHANE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34516	1,1,2,2-TETRACHLOROETHANE TOTWUG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34519	1,1,2,2-TETRACHLOROETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34520	1,1,2,2-TETRACHLOROETHANE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34525	BENZO(GHI)PERYLENE1,12-BENZOPERYLENWET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34534	1,2-DICHLOROETHANE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34535	1,2-DICHLOROETHANE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34536	1,2-DICHLOROBENZENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34539	1,2-DICHLOROBENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34540	1,2-DICHLOROBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34541	1,2-DICHLOROPROPANE TOTWUG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34544	1,2-DICHLOROPROPANE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34545	1,2-DICHLOROPROPANE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER UG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34549	TRANS-1,2-DICHLOROETHENE, IN SED. DRY WT. UG/KG	08/29/80-08/29/80	1 ##	3.95	3.95	3.95	3.95	0.	0.	**	**	**	**
34550	TRANS-1,2-DICHLOROETHENE, IN TISSUE, WET WT. MG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34551	1,2,4-TRICHLOROBENZENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34554	1,2,4-TRICHLOROBENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34556	1,2,5,6-DIBENZANTHRACENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34559	1,2,5,6-DIBENZANTHRACENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34560	1,2,5,6-DIBENZANTHRACENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34561	1,3-DICHLOROPROPENE TOTWUG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34565	1,3-DICHLOROPROPENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34566	1,3-DICHLOROBENZENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34569	1,3-DICHLOROBENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34570	1,3-DICHLOROBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34571	1,4-DICHLOROBENZENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34574	1,4-DICHLOROBENZENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34575	1,4-DICHLOROBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34576	2-CHLOROETHYL VINYL ETHER TOTWUG/L	08/29/80-08/29/80	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

Parameter Inventory for Station: GRCA0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34579	2-CHLOROETHYL VINYL ETHER DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34580	2-CHLOROETHYL VINYL ETHER WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34581	2-CHLORONAPHTHALENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34584	2-CHLORONAPHTHALENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34585	2-CHLORONAPHTHALENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34586	2-CHLOROPHENOL TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34589	2-CHLOROPHENOL DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34590	2-CHLOROPHENOL WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34591	2-NITROPHENOL TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34594	2-NITROPHENOL DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34595	2-NITROPHENOL WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34596	DI-N-OCTYL PHTHALATE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34599	DI-N-OCTYL PHTHALATE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34600	DI-N-OCTYL PHTHALATE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34601	2,4-DICHLOROPHENOL TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34604	2,4-DICHLOROPHENOL DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34605	2,4-DICHLOROPHENOL WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34606	2,4-DIMETHYLPHENOL TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34609	2,4-DIMETHYLPHENOL DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34610	2,4-DIMETHYLPHENOL WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34611	2,4-DINITROTOLUENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34614	2,4-DINITROTOLUENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	625.	625.	625.	625.	0.	0.	**	**	**	**
34615	2,4-DINITROTOLUENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34616	2,4-DINITROPHENOL TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34619	2,4-DINITROPHENOL DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34620	2,4-DINITROPHENOL WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34621	2,4,6-TRICHLOROPHENOL TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34624	2,4,6-TRICHLOROPHENOL DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34625	2,4,6-TRICHLOROPHENOL WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34626	2,6-DINITROTOLUENE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34629	2,6-DINITROTOLUENE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34630	2,6-DINITROTOLUENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34631	3,3'-DICHLOROBENZIDINE TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34634	3,3'-DICHLOROBENZIDINE DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34635	3,3'-DICHLOROBENZIDINE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34636	4-BROMOPHENYL PHENYL ETHER TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34639	4-BROMOPHENYL PHENYL ETHER DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34640	4-BROMOPHENYL PHENYL ETHER WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34641	4-CHLOROPHENYL PHENYL ETHER TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34644	4-CHLOROPHENYL PHENYL ETHER DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34645	4-CHLOROPHENYL PHENYL ETHER WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34646	4-NITROPHENOL TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34649	4-NITROPHENOL DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34650	4-NITROPHENOL WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL) TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34660	DNOC (4,6-DINITRO-ORTHO-CRESOL) DRY WGTBOTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34661	DNOC (4,6-DINITRO-ORTHO-CRESOL) WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34664	PCB - 1221 WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34667	PCB - 1232 WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34669	PCB - 1248 WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34670	PCB - 1260 WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34671	PCB - 1016 TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34674	PCB - 1016 WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	08/29/80-08/29/80	1 ##	1.85	1.85	1.85	1.85	0.	0.	**	**	**	**
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34683	DI-N-BUTYL PHTHALATE,TISSUE,WET WGTWET WGT	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34687	HEPTACHLOR WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.85	0.85	0.85	0.85	0.	0.	**	**	**	**
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
34689	PCB - 1242 WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34690	PCB - 1254 WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
34691	TOXAPHENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: GRCA0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
34692	TRICHLOROETHYLENE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34693	VINYL CHLORIDE WET WGTTISMG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTWUG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
34695	PHENOL(C6H5OH)-SINGLE COMPOUND DRY WGTTUG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
34699	TRANS-1,3-DICHLOROPROPENETOTAL IN WATER UG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
34703	CIS-1,3-DICHLOROPROPENE FISH TISSUE WET WGT MG/KG	08/29/80-08/29/80	1 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34704	CIS-1,3-DICHLOROPROPENE TOTAL IN WATER UG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	08/29/80-08/29/80	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	08/29/80-08/29/80	1 ##	3.35	3.35	3.35	3.35	0.	0.	**	**	**	**
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39099	BIS(2-ETHYLHEXYL)PHTHALATE,TISSUE,WET WGT,MG/KG	08/29/80-08/29/80	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	08/29/80-08/29/80	1	7308.	7308.	7308.	7308.	0.	0.	**	**	**	**
39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	08/29/80-08/29/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	08/29/80-08/29/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/29/80-08/29/80	1 ##	625.	625.	625.	625.	0.	0.	**	**	**	**
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	08/29/80-08/29/80	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39705	HEXACHLOROBUTADIENE BOT. DEPOS.(UG/KG DRY WGT)	08/29/80-08/29/80	1 ##	986.	986.	986.	986.	0.	0.	**	**	**	**
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	08/29/80-08/29/80	1 ##	1.25	1.25	1.25	1.25	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/29/80-08/29/80	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/29/80-08/29/80	1 ##	789.	789.	789.	789.	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/29/80-08/29/80	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/29/80-08/29/80	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

Parameter Inventory for Station: GRCA0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/29/80-08/29/80	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/29/80-08/29/80	1	18.	18.	18.	18.	0.	0.	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/29/80-08/29/80	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71941	CADMIUM,TOTAL IN FISH-DRY WEIGHT BASIS	08/29/80-08/29/80	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: GRCA0008

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01002	ARSENIC, TOTAL	Fresh Acute	360.	0 &	0	0.00												
		Drinking Water	50.	0 &	0	0.00												
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	0 &	0	0.00												
01027	CADMIUM, TOTAL	Fresh Acute	3.9	0 &	0	0.00												
		Drinking Water	5.	0 &	0	0.00												
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	1	1.00							1	1	1.00			
01042	COPPER, TOTAL	Fresh Acute	18.	0 &	0	0.00												
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	0 &	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			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	0 &	0	0.00												
		Drinking Water	6.	0 &	0	0.00												
32101	BROMODICHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00							1	0	0.00			
32102	CARBON TETRACHLORIDE, WHOLE WATER	Fresh Acute	35200.	1	0	0.00							1	0	0.00			
		Drinking Water	5.	0 &	0	0.00												
32103	1,2-DICHLOROETHANE,WHOLE WATER	Fresh Acute	118000.	1	0	0.00							1	0	0.00			
		Drinking Water	5.	0 &	0	0.00												
32104	BROMOFORM, WHOLE WATER	Drinking Water	100.	1	0	0.00							1	0	0.00			
32105	DIBROMOCHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00							1	0	0.00			
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE E	Fresh Acute	17500.	1	0	0.00							1	0	0.00			
		Drinking Water	1000.	1	0	0.00							1	0	0.00			
34205	ACENAPHTHENE, TOTAL	Fresh Acute	1700.	1	0	0.00							1	0	0.00			
34210	ACROLEIN, TOTAL	Fresh Acute	68.	1	0	0.00							1	0	0.00			
34215	ACRYLONITRILE, TOTAL	Fresh Acute	7550.	1	0	0.00							1	0	0.00			
34301	CHLOROBENZENE, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
34346	1,2-DIPHENYLHYDRAZINE, TOTAL	Fresh Acute	270.	1	0	0.00							1	0	0.00			
34356	ENDOSULFAN, BETA, TOTAL	Fresh Acute	0.22	0 &	0	0.00												
34361	ENDOSULFAN, ALPHA, TOTAL	Fresh Acute	0.22	0 &	0	0.00												
34371	ETHYLBENZENE, TOTAL	Fresh Acute	32000.	1	0	0.00							1	0	0.00			
		Drinking Water	700.	1	0	0.00							1	0	0.00			
34376	FLUORANTHENE, TOTAL	Fresh Acute	3980.	1	0	0.00							1	0	0.00			
34386	HEXACHLOROCYCLOPENTADIENE	Fresh Acute	7.	0 &	0	0.00												
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL	Drinking Water	50.	1	0	0.00							1	0	0.00			
34391	HEXACHLOROBUTADIENE, TOTAL	Fresh Acute	90.	1	0	0.00							1	0	0.00			
34396	HEXACHLOROETHANE, TOTAL	Fresh Acute	980.	1	0	0.00							1	0	0.00			
34403	IDENO (1,2,3-CD) PYRENE	Drinking Water	0.4	0 &	0	0.00												
34408	ISOPHORONE, TOTAL	Fresh Acute	117000.	1	0	0.00							1	0	0.00			
34423	METHYLENE CHLORIDE, TOTAL	Drinking Water	5.	0 &	0	0.00												
34447	NITROBENZENE, TOTAL	Fresh Acute	27000.	1	0	0.00							1	0	0.00			
34452	PARACHLOROMETA CRESOL, TOTAL	Fresh Acute	30.	1	0	0.00							1	0	0.00			
34461	PHENANTHRENE, TOTAL	Fresh Acute	30.	1	0	0.00							1	0	0.00			
34475	TETRACHLOROETHYLENE, TOTAL	Fresh Acute	5280.	1	0	0.00							1	0	0.00			
		Drinking Water	5.	0 &	0	0.00												

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

EPA Water Quality Criteria Analysis for Station: GRCA0008

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
34501	1,1-DICHLOROETHYLENE, TOTAL	Drinking Water	7.	1	0	0.00							1	0	0.00			
34506	1,1,1-TRICHLOROETHANE, TOTAL	Drinking Water	200.	1	0	0.00							1	0	0.00			
34511	1,1,2-TRICHLOROETHANE, TOTAL	Drinking Water	5.	0 &	0	0.00												
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00							1	0	0.00			
34541	1,2-DICHLOROPROPANE, TOTAL	Drinking Water	5.	0 &	0	0.00												
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATE	Drinking Water	100.	1	0	0.00							1	0	0.00			
34551	1,2,4-TRICHLOROBENZENE, TOTAL	Drinking Water	70.	1	0	0.00							1	0	0.00			
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00							1	0	0.00			
34571	1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	1	0	0.00							1	0	0.00			
34586	2-CHLOROPHENOL, TOTAL	Fresh Acute	4380.	1	0	0.00							1	0	0.00			
34601	2,4-DICHLOROPHENOL, TOTAL	Fresh Acute	2020.	1	0	0.00							1	0	0.00			
34606	2,4-DIMETHYLPHENOL, TOTAL	Fresh Acute	2120.	1	0	0.00							1	0	0.00			
34611	2,4-DINITROTOLUENE, TOTAL	Fresh Acute	330.	1	0	0.00							1	0	0.00			
34694	PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	Fresh Acute	10200.	1	0	0.00							1	0	0.00			
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMP	Fresh Acute	20.	0 &	0	0.00												
		Drinking Water	1.	0 &	0	0.00												
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	1	0	0.00							1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE	Drinking Water	2.	0 &	0	0.00												
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE	Fresh Acute	45000.	1	0	0.00							1	0	0.00			
		Drinking Water	5.	0 &	0	0.00												
39300	P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	0 &	0	0.00												
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	0 &	0	0.00												
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	1	0	0.00							1	0	0.00			
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Drinking Water	1.	0 &	0	0.00												
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	Fresh Acute	6.	0 &	0	0.00												
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: GRCA0009

NPS Station ID: GRCA0009
LAT/LON: 36.864726/-111.587505
Agency: 21ARIZ
Date Created: / /
Location: COLORADO RIVER AT LEES FERRY
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 100000000111170/PM 010
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070006
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 14070006001
RF1 Mile Point: 0.590
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 15010004001900.00
RF3 Mile Point: 0.08
Distance from RF3: 0.08
On/Off RF3:
Description:
LAT 36 51'53", LONG 111 35'15", NE1/4 SE1/4, SEC 13, T40N, R7E, COCONINO CO, IN NAVAJO INDIAN RESERVATION, ON LEFT BANK AT HEAD OF MARBLE GORGE AT LEES FERRY, JUST UPSTREAM FROM PARIA RIVER, 25.7 KM (16 MI) DOWNSTREAM FROM GLEN CANYON DAM, 45 KM (28 MI) DOWNSTREAM FROM UTAH-ARIZONA STATE LINE, 99.0 KM (61.5 MI) UPSTREAM FROM LITTLE COLORADO

Parameter Inventory for Station: GRCA0009

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: GRCA0010

NPS Station ID: GRCA0010 LAT/LON: 36.864726/-111.587505 Agency: 1118C030 Date Created: / /
Location: COLORADO RIVER AT PAGE FIPS State/County: 04000 ARIZONA/
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 030000
RMI-Indexes: 1101001 Within Park Boundary: No
RMI-Miles: 0727.10
HUC: 14070006 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: MIDDLE COLORADO-SAN JUAN SUB BASIN ECO Region:
RF1 Index: 14070006001 RF1 Mile Point: 0.590 Distance from RF1: 0.00 On/Off RF1: ON
RF3 Index: 14070006000200.00 RF3 Mile Point: 0.00 Distance from RF3: 0.02 On/Off RF3:
Description:
CRBP NO. 3797.0,RMN-31, USGS-09-380000 NE1/4, SW1/4, SEC 24, T41N, R8E
SAMPLED AT PAGE MUNICIPAL WATER INTAKE UNTIL 09/22/69. NOW SAMPLED AT LEES FERRY, 09380000
TYPE DATA-RAD, BACT; 300CC COMP/WEEK

Parameter Inventory for Station: GRCA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01501	ALPHA, TOTAL	05/19/70-01/11/71	9	5.	5.111	6.	4.	0.361	0.601	4.	5.	5.5	6.
01502	ALPHA, TOTAL, COUNTING ERROR	05/19/70-01/11/71	9	1.	0.967	1.	0.9	0.002	0.05	0.9	0.9	1.	1.
01503	ALPHA, DISSOLVED	05/19/70-01/11/71	9	5.	4.367	5.	0.3	2.435	1.56	0.3	4.5	5.	5.
01504	ALPHA, DISSOLVED, COUNTING ERROR	05/19/70-01/11/71	9	1.	0.967	1.	0.9	0.002	0.05	0.9	0.9	1.	1.
01505	ALPHA, SUSPENDED	05/19/70-01/11/71	9	0.1	0.111	0.2	0.	0.006	0.078	0.	0.05	0.2	0.2
01506	ALPHA, SUSPENDED, COUNTING ERROR	05/19/70-01/11/71	9	0.1	0.078	0.1	0.	0.002	0.044	0.	0.05	0.1	0.1
03501	BETA, TOTAL	05/19/70-01/11/71	9	10.	9.889	15.	5.	8.861	2.977	5.	8.	12.	15.
03502	BETA, TOTAL, COUNTING ERROR	05/19/70-01/11/71	9	3.	3.	4.	2.	0.75	0.866	2.	2.	4.	4.
03503	BETA, DISSOLVED	05/19/70-01/11/71	9	9.	9.111	14.	5.	8.611	2.934	5.	7.	11.5	14.
03504	BETA, DISSOLVED, COUNTING ERROR	05/19/70-01/11/71	9	3.	3.	4.	2.	0.75	0.866	2.	2.	4.	4.
03505	BETA, SUSPENDED	05/19/70-01/11/71	9	0.7	0.744	2.	0.1	0.31	0.557	0.1	0.3	0.9	2.
03506	BETA, SUSPENDED, COUNTING ERROR	05/19/70-01/11/71	9	0.2	0.222	0.6	0.1	0.024	0.156	0.1	0.1	0.25	0.6
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	08/18/70-09/29/70	2	0.9	0.9	1.1	0.7	0.08	0.283	**	**	**	**
07001	TRITIUM,TOTAL,COUNTING ERROR (PICOCURIES/LITER)	08/18/70-09/29/70	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
07005	TRITIUM, DISSOLVED (PC/L)	10/19/70-10/19/70	1	950.	950.	950.	950.	0.	0.	**	**	**	**
07006	TRITIUM, DISSOLVED, COUNTING ERROR (PC/L)	10/19/70-10/19/70	1	260.	260.	260.	260.	0.	0.	**	**	**	**
09503	RADIUM 226, DISSOLVED	05/06/63-06/27/72	89	0.16	0.173	0.4	0.04	0.005	0.069	0.1	0.12	0.2	0.29
09504	RADIUM 226, DISSOLVED, COUNTING ERROR	09/01/67-06/25/71	34	0.02	0.019	0.03	0.01	0.	0.003	0.015	0.02	0.02	0.02
09505	RADIUM 226, SUSPENDED	01/01/69-01/01/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
09506	RADIUM 226, SUSPENDED, COUNTING ERROR	01/01/69-01/01/69	1	0.	0.	0.	0.	0.	0.	**	**	**	**
09507	RADIUM 226 IN SEDIMENT (PC/G OF DRY SOLIDS)	01/01/69-01/01/69	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
09508	RADIUM 226 IN SEDIMENT, COUNTING ERROR	01/01/69-01/01/69	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/06/63-05/12/72	89	6.4	6.476	16.	2.6	5.372	2.318	3.7	5.	7.65	9.2

** - 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: GRCA0010

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
07000	TRITIUM, TOTAL	Drinking Water	20000.	2	0	0.00							2	0	0.00			
07005	TRITIUM, DISSOLVED	Drinking Water	20000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	89	0	0.00	39	0	0.00	25	0	0.00	25	0	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 1963 - Station GRCA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
09503	RADIUM 226, DISSOLVED	05/06/63-06/27/72	8	0.25	0.246	0.36	0.16	0.005	0.067	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/06/63-05/12/72	8	8.6	9.1	13.	7.1	3.951	1.988	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
09503	RADIUM 226, DISSOLVED	05/06/63-06/27/72	12	0.25	0.24	0.34	0.08	0.005	0.072	0.101	0.2	0.29	0.328
22703	URANIUM, NATURAL, DISSOLVED	05/06/63-05/12/72	12	8.75	8.767	11.	6.5	2.322	1.524	6.62	7.575	10.	11.

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

Annual Analysis for 1965 - Station GRCA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
09503	RADIUM 226, DISSOLVED	05/06/63-06/27/72	12	0.18	0.169	0.25	0.05	0.004	0.06	0.065	0.123	0.218	0.241
22703	URANIUM, NATURAL, DISSOLVED	05/06/63-05/12/72	12	5.45	5.483	9.4	2.8	5.305	2.303	2.89	3.275	7.425	8.86

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
09503	RADIUM 226, DISSOLVED	05/06/63-06/27/72	9	0.14	0.151	0.19	0.12	0.001	0.028	0.12	0.125	0.185	0.19
22703	URANIUM, NATURAL, DISSOLVED	05/06/63-05/12/72	10	4.65	4.55	5.8	3.7	0.529	0.728	3.7	3.85	5.125	5.74

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

Annual Analysis for 1967 - Station GRCA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
09503	RADIUM 226, DISSOLVED	05/06/63-06/27/72	5	0.1	0.12	0.2	0.04	0.005	0.072	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/06/63-05/12/72	5	6.4	6.04	6.9	5.1	0.693	0.832	**	**	**	**

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

Annual Analysis for 1968 - Station GRCA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
09503	RADIUM 226, DISSOLVED	05/06/63-06/27/72	5	0.15	0.154	0.18	0.13	0.	0.018	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/06/63-05/12/72	5	6.5	6.44	7.2	5.6	0.383	0.619	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
09503	RADIUM 226, DISSOLVED	05/06/63-06/27/72	12	0.135	0.152	0.3	0.1	0.003	0.057	0.1	0.113	0.178	0.27
22703	URANIUM, NATURAL, DISSOLVED	05/06/63-05/12/72	12	6.25	6.408	8.3	5.	1.35	1.162	5.03	5.35	7.5	8.24

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

Annual Analysis for 1970 - Station GRCA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
09503	RADIUM 226, DISSOLVED	05/06/63-06/27/72	11	0.13	0.128	0.16	0.11	0.	0.015	0.11	0.12	0.14	0.156
22703	URANIUM, NATURAL, DISSOLVED	05/06/63-05/12/72	12	6.	6.175	8.9	3.6	2.082	1.443	3.84	5.5	7.275	8.57

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
09503	RADIUM 226, DISSOLVED	05/06/63-06/27/72	10	0.15	0.157	0.2	0.1	0.001	0.038	0.101	0.125	0.2	0.2
22703	URANIUM, NATURAL, DISSOLVED	05/06/63-05/12/72	9	4.5	4.533	7.5	2.6	2.098	1.448	2.6	3.4	5.15	7.5

** - 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 1972 - Station GRCA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
09503	RADIUM 226, DISSOLVED	05/06/63-06/27/72	5	0.2	0.2	0.4	0.1	0.015	0.122	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/06/63-05/12/72	4	6.15	8.225	16.	4.6	27.443	5.239	**	**	**	**

** - Less than 9 observations ## - Computed 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: 10/01 to 3/14 - Station GRCA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
09503	RADIUM 226, DISSOLVED	05/06/63-06/27/72	37	0.13	0.152	0.34	0.04	0.004	0.063	0.096	0.11	0.19	0.25
22703	URANIUM, NATURAL, DISSOLVED	05/06/63-05/12/72	39	6.1	6.067	10.	2.6	3.331	1.825	3.6	4.6	7.6	8.6

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

Seasonal Analysis for Season #2: 3/15 to 6/19 - Station GRCA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
09503	RADIUM 226, DISSOLVED	05/06/63-06/27/72	25	0.19	0.202	0.4	0.07	0.007	0.084	0.106	0.135	0.265	0.324
22703	URANIUM, NATURAL, DISSOLVED	05/06/63-05/12/72	25	7.	7.564	16.	3.7	7.781	2.789	4.98	5.85	8.7	11.8

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

Seasonal Analysis for Season #3: 6/20 to 9/30 - Station GRCA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
09503	RADIUM 226, DISSOLVED	05/06/63-06/27/72	27	0.16	0.176	0.29	0.1	0.003	0.051	0.118	0.14	0.2	0.258
22703	URANIUM, NATURAL, DISSOLVED	05/06/63-05/12/72	25	6.1	6.028	11.	2.8	4.929	2.22	3.02	3.9	7.15	9.52

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

Station Inventory for Station: GRCA0011

NPS Station ID: GRCA0011
LAT/LON: 36.864726/-111.587505
Agency: 112WRD
Date Created: / /
Location: COLORADO R AT LEES FERRY, AZ.
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 09380000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070006
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 14070006
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 14070007012300.00
RF3 Mile Point: 0.86
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	11/06/85-09/21/95	67	402.	385.716	430.	0.	7158.146	84.606	394.	400.	410.	413.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	421	9.5	10.751	27.2	0.	15.737	3.967	7.5	8.	11.5	17.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/69-09/21/95	119	18.	18.997	40.	1.5	90.204	9.498	7.	11.5	26.5	33.5
00025	BAROMETRIC PRESSURE (MM OF HG)	11/05/81-09/21/95	107	686.	679.542	701.	0.	4422.892	66.505	679.	682.	689.	692.2
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	436	12100.	12829.587	77500.	1000.	56392401.208	7509.487	4734.	8122.5	16400.	19700.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	344	13400.	20197.189	115000.	1680.	454559251.81	21320.395	6040.	9237.5	21875.	37000.
00065	STAGE, STREAM (FEET)	11/02/82-09/21/95	105	9.55	9.604	14.19	7.07	2.786	1.669	7.08	8.305	10.865	11.6
00070	TURBIDITY, (JACKSON CANDLE UNITS)	03/15/74-05/03/78	30	1.	5.267	100.	0.	349.03	18.682	0.	0.75	1.	4.7
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	132	0.65	2.663	200.	0.2	305.834	17.488	0.3	0.4	1.175	1.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	289	845.	872.651	2430.	587.	66749.867	258.36	663.	750.	915.	984.
00300p	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	165	8.5	8.457	12.8	0.	1.593	1.262	7.26	7.85	9.1	9.6
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	12/29/70-04/12/89	28	82.5	78.029	109.	0.	494.393	22.235	66.58	76.25	88.	94.1
00340	COD, .25N K2CR2O7 MG/L	01/04/85-09/21/95	66	11.5	14.924	86.	5.	244.44	15.635	5.	5.	17.25	27.3
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	260	8.	7.9	8.8	6.	0.189	0.435	7.41	7.8	8.15	8.218
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	260	8.	7.437	8.8	6.	0.405	0.636	7.41	7.8	8.15	8.218
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	260	0.01	0.037	1.	0.002	0.015	0.123	0.006	0.007	0.016	0.039
00403	PH, LAB, STANDARD UNITS SU	11/06/80-09/21/95	107	8.1	8.06	8.5	7.6	0.025	0.158	7.88	7.9	8.2	8.2
00403	CONVERTED PH, LAB, STANDARD UNITS	11/06/80-09/21/95	107	8.1	8.031	8.5	7.6	0.026	0.16	7.88	7.9	8.2	8.2
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/06/80-09/21/95	107	0.008	0.009	0.025	0.003	0.	0.004	0.006	0.006	0.013	0.013
00405	CARBON DIOXIDE (MG/L AS CO2)	07/31/55-05/03/78	68	2.7	3.794	19.	0.6	11.253	3.355	1.48	2.1	3.75	7.24
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	171	130.	128.105	340.	0.	1022.777	31.981	115.	124.	138.	143.
00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	01/09/87-01/09/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	10/24/86-09/23/87	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	01/11/26-09/23/87	116	162.	161.56	292.	0.	3025.153	55.001	130.9	154.	171.	218.9
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	87	0.	0.172	15.	0.	2.586	1.608	0.	0.	0.	0.
00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	12/02/86-12/02/86	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	10/24/86-12/02/86	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/24/86-09/21/95	73	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/24/86-09/21/95	73	164.	163.822	182.	131.	81.732	9.041	153.4	160.	170.	176.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/04/85-09/21/95	71	3.	3.796	36.	0.5	24.404	4.94	0.5	1.	5.	8.8
00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	12/30/74-06/04/80	11	0.315	0.674	3.8	0.079	1.146	1.071	0.083	0.1	0.79	3.213
00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	12/30/74-06/04/80	11	0.71	1.118	5.6	0.08	2.45	1.565	0.084	0.28	0.87	4.858
00600	NITROGEN, TOTAL (MG/L AS N)	03/15/74-09/02/81	57	0.91	0.984	1.9	0.49	0.087	0.295	0.688	0.785	1.1	1.42
00602	NITROGEN, DISSOLVED (MG/L AS N)	09/19/79-09/02/81	19	1.1	1.064	1.9	0.66	0.081	0.285	0.72	0.9	1.2	1.4
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/07/77-09/02/81	35	0.44	0.513	1.2	0.09	0.081	0.284	0.202	0.31	0.64	0.984
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	10/17/79-09/02/81	18	0.53	0.563	1.2	0.22	0.058	0.241	0.22	0.423	0.692	0.93
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/17/79-09/21/95	111	0.02	0.032	0.23	0.	0.001	0.038	0.005	0.01	0.04	0.088
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	121	0.01	0.02	0.2	0.	0.001	0.024	0.005	0.005	0.02	0.04

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

Parameter Inventory for Station: GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/10/73-09/21/95	85 ##	0.005	0.006	0.02	0.005	0.	0.002	0.005	0.005	0.005	0.01
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/15/74-09/07/94	35 ##	0.005	0.006	0.01	0.005	0.	0.002	0.005	0.005	0.005	0.01
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/11/26-05/30/75	31	0.52	0.639	3.4	0.11	0.359	0.599	0.148	0.47	0.59	0.962
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/15/74-05/28/74	3	0.54	0.57	0.63	0.54	0.003	0.052	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/07/77-07/09/91	36	0.38	0.432	1.2	0.01	0.06	0.244	0.207	0.25	0.545	0.768
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	02/02/78-09/02/81	32	0.05	0.1	0.58	0.	0.019	0.14	0.	0.	0.17	0.341
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	164	0.3	0.373	1.2	0.1	0.065	0.254	0.1	0.2	0.49	0.77
00630p	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	144	0.4	0.422	0.77	0.04	0.015	0.122	0.3	0.36	0.498	0.58
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	164	0.4	0.446	1.1	0.1	0.022	0.147	0.3	0.4	0.5	0.6
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/18/79-06/20/79	3	0.06	0.05	0.06	0.03	0.	0.017	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/09/70-03/02/83	61	0.03	0.103	2.5	0.	0.117	0.342	0.	0.	0.06	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	168	0.01	0.016	0.23	0.	0.	0.022	0.005	0.005	0.02	0.031
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/07/77-09/21/95	130	0.01	0.014	0.09	0.	0.	0.014	0.005	0.005	0.02	0.03
00671p	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/23/71-09/21/95	140 ##	0.005	0.016	0.8	0.	0.005	0.072	0.005	0.005	0.01	0.02
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/28/74-10/10/89	38	3.2	3.629	8.	1.	1.646	1.283	2.7	2.875	4.025	5.15
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	05/03/78-09/21/95	11	4.1	5.455	12.	2.9	8.781	2.963	2.92	3.6	8.4	11.38
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	05/03/78-09/21/95	10	0.2	0.19	0.4	0.1	0.01	0.099	0.1	0.1	0.225	0.39
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	148	290.	325.905	960.	156.	18923.202	137.562	250.	270.	310.	463.7
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	135	160.	192.289	766.	42.	14678.864	121.156	130.	145.	178.	298.8
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	239	70.	77.259	298.	46.	1244.243	35.274	60.	64.	75.	86.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	239	25.	26.402	64.	10.	49.166	7.012	22.	23.	27.	30.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	233	74.	78.232	236.	43.	757.515	27.523	57.4	66.	81.	90.
00931p	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	144	2.	2.103	3.5	1.3	0.125	0.353	1.8	1.9	2.2	2.45
00932p	SODIUM, PERCENT	01/11/26-03/02/83	136	37.	37.118	49.	26.	9.245	3.041	35.	36.	38.	39.3
00933	SODIUM,PLUS POTASSIUM (MG/L)	02/25/26-02/14/80	14	83.	87.929	150.	25.	789.148	28.092	51.5	78.75	93.5	141.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	221	3.6	3.667	8.5	2.1	0.598	0.773	2.9	3.2	3.9	4.2
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	229	50.	51.004	187.	12.	293.11	17.12	33.	43.	57.	65.
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	229	230.	233.891	621.	76.	2877.431	53.642	180.	205.	250.	270.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	192	0.3	0.315	1.9	0.05	0.029	0.17	0.2	0.3	0.3	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	187	8.1	8.682	34.	5.9	8.397	2.898	7.28	7.6	8.7	9.22
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/28/74-09/21/95	102	1.	1.564	19.	0.5	3.409	1.846	1.	1.	2.	2.
01001	ARSENIC, SUSPENDED (UG/L AS AS)	05/28/74-09/01/82	18	0.5	0.5	2.	0.	0.294	0.542	0.	0.	1.	1.1
01002	ARSENIC, TOTAL (UG/L AS AS)	05/28/74-09/21/95	98	1.	1.495	6.	0.5	0.6	0.775	1.	1.	2.	2.
01005	BARIUM, DISSOLVED (UG/L AS BA)	02/02/78-09/21/95	99	90.	91.121	200.	50.	385.965	19.646	76.	82.	100.	110.
01006	BARIUM, SUSPENDED (UG/L AS BA)	02/02/78-09/01/82	17	10.	46.059	200.	0.	5946.559	77.114	0.	0.	60.	200.
01007	BARIUM, TOTAL (UG/L AS BA)	02/02/78-09/01/82	17	100.	132.353	300.	50.	8419.118	91.756	50.	50.	200.	300.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/02/82-09/21/95	37 ##	0.25	0.568	5.	0.25	1.211	1.1	0.25	0.25	0.25	1.1
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/12/88-09/21/95	12 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	117	90.	94.274	670.	0.	4452.107	66.724	60.	80.	100.	110.
01022	BORON, TOTAL (UG/L AS B)	10/12/47-09/21/95	9	80.	115.556	340.	70.	7452.778	86.329	70.	75.	120.	340.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/28/74-09/21/95	100 ##	0.5	2.355	53.	0.	38.875	6.235	0.5	0.5	2.	4.
01026	CADMIUM, SUSPENDED (UG/L AS CD)	05/28/74-09/01/82	20	1.	5.075	68.	0.	224.244	14.975	0.	0.	3.375	7.7
01027	CADMIUM, TOTAL (UG/L AS CD)	05/28/74-09/21/95	94 ##	0.5	3.356	100.	0.	118.482	10.885	0.5	0.5	2.	10.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/28/74-09/21/95	101 ##	0.5	1.396	20.	0.	6.647	2.578	0.	0.5	1.	3.8
01031	CHROMIUM, SUSPEND (UG/L AS CR)	05/28/74-08/03/81	19	0.	3.158	30.	0.	56.14	7.493	0.	0.	0.	10.
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/28/74-09/21/95	98	2.	4.531	46.	0.	55.88	7.475	0.	0.5	5.25	10.
01035	COBALT, DISSOLVED (UG/L AS CO)	05/28/74-09/21/95	74 ##	1.5	1.304	1.5	0.	0.211	0.459	0.25	1.5	1.5	1.5
01036	COBALT, SUSPENDED (UG/L AS CO)	05/28/74-03/02/82	15	0.	10.	25.	0.	153.929	12.407	0.	0.	24.5	25.
01037	COBALT, TOTAL (UG/L AS CO)	05/28/74-09/01/82	23 ##	2.	13.739	50.	0.	485.906	22.043	0.	0.	50.	50.
01040	COPPER, DISSOLVED (UG/L AS CU)	05/28/74-09/21/95	100	4.	4.7	27.	0.	17.727	4.21	1.	2.	6.	8.
01041	COPPER, SUSPENDED (UG/L AS CU)	05/28/74-09/01/82	22	3.	3.5	10.	0.	10.738	3.277	0.	0.75	6.25	9.
01042	COPPER, TOTAL (UG/L AS CU)	05/28/74-09/21/95	97	7.	12.247	110.	0.5	263.803	16.242	1.	2.	15.5	28.
01044	IRON, SUSPENDED (UG/L AS FE)	11/01/78-07/01/82	7	30.	42.857	90.	0.	1323.81	36.384	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/12/47-09/21/95	91	50.	101.484	1800.	5.	50288.608	224.251	10.	20.	90.	148.
01046p	IRON, DISSOLVED (UG/L AS FE)	01/11/26-09/21/95	141	5.	27.901	1000.	0.	10052.668	100.263	1.5	3.5	10.	38.
01049	LEAD, DISSOLVED (UG/L AS PB)	05/28/74-09/21/95	101 ##	2.5	3.396	51.	0.	36.272	6.023	0.5	0.5	4.	5.
01050	LEAD, SUSPENDED (UG/L AS PB)	05/28/74-09/01/82	21	4.	14.595	49.	0.	371.515	19.275	0.	1.5	32.75	47.9
01051	LEAD, TOTAL (UG/L AS PB)	05/28/74-09/21/95	99 ##	2.5	10.49	100.	0.	570.633	23.888	0.5	0.5	7.	24.
01054	MANGANESE, SUSPENDED (UG/L AS MN)	05/28/74-09/01/82	21	8.	15.381	120.	0.	687.448	26.219	0.	0.	20.	30.
01055	MANGANESE, TOTAL (UG/L AS MN)	05/28/74-09/21/95	98 ##	5.	11.582	120.	5.	312.163	17.668	5.	5.	10.	21.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/28/74-09/21/95	104 ##	1.	2.029	8.	0.5	3.65	1.91	0.5	0.5	3.	5.
01059	THALLIUM, TOTAL (UG/L AS TL)	10/12/88-12/06/89	5 ##	2.5	9.5	20.	2.5	91.875	9.585	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/02/82-09/21/95	52 ##	5.	5.865	20.	5.	6.589	2.567	5.	5.	5.	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

Parameter Inventory for Station: GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/15/79-09/21/95	63	2.	1.952	9.	0.	2.401	1.549	0.5	1.	3.	4.
01066	NICKEL, SUSPENDED (UG/L AS NI)	11/15/79-09/01/82	11	1.	1.364	8.	0.	5.455	2.335	0.	0.	2.	6.8
01067	NICKEL, TOTAL (UG/L AS NI)	11/15/79-09/21/95	23	4.	15.348	50.	0.	447.237	21.148	0.4	2.	50.	50.
01075	SILVER, DISSOLVED (UG/L AS AG)	02/02/78-09/21/95	98 ##	0.5	0.49	2.	0.	0.062	0.248	0.	0.5	0.5	0.5
01076	SILVER, SUSPENDED (UG/L AS AG)	02/02/78-08/03/81	13	0.	0.385	2.	0.	0.423	0.65	0.	0.	1.	1.6
01077	SILVER, TOTAL (UG/L AS AG)	02/02/78-09/01/82	17 ##	0.5	0.471	2.	0.	0.296	0.544	0.	0.	0.75	1.2
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/02/82-09/21/95	51	780.	787.059	1000.	620.	11225.176	105.949	632.	700.	870.	946.
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/02/82-09/21/95	52 ##	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/28/74-09/21/95	102	9.	13.333	200.	1.5	468.432	21.643	1.5	5.	14.	24.1
01091	ZINC, SUSPENDED (UG/L ZN)	05/28/74-09/01/82	20	15.	34.85	310.	0.	4876.134	69.829	0.	0.	40.	103.
01092	ZINC, TOTAL (UG/L AS ZN)	05/28/74-09/21/95	98	10.	23.214	310.	5.	1583.634	39.795	5.	5.	20.	51.
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	09/21/95-09/21/95	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	10/12/88-09/21/95	12 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/02/82-09/21/95	52 ##	5.	9.423	30.	5.	48.68	6.977	5.	5.	10.	20.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/02/82-09/21/95	52	31.	31.269	42.	22.	27.377	5.232	25.	27.	34.	39.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/28/74-09/21/95	105	3.	2.548	5.	0.5	0.647	0.804	2.	2.	3.	3.
01146	SELENIUM, SUSPENDED (UG/L AS SE)	05/28/74-09/01/82	23	0.	0.522	4.	0.	0.988	0.994	0.	0.	1.	2.
01147	SELENIUM, TOTAL (UG/L AS SE)	05/28/74-09/21/95	99	3.	2.611	6.	0.5	0.819	0.905	2.	2.	3.	4.
29804	BICARBONATE,WTR,DISS.,FIX ENDPT,FIELD,AS HCO3,MG/L	01/16/92-03/19/92	2	169.	169.	177.	161.	128.	11.314	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	03/19/74-08/27/74	6	820.	1891.667	7400.	290.	7548736.667	2747.496	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	03/19/74-08/27/74	6	2.861	2.98	3.869	2.462	0.272	0.521	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			955.591								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/19/74-09/20/76	21	1.	1.81	8.	0.5	4.837	2.199	0.5	0.5	2.5	6.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/19/74-09/20/76	21	0.	0.034	0.903	-0.301	0.173	0.416	-0.301	-0.301	0.389	0.778
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.08								
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	125 ##	0.5	1.74	36.	0.	24.724	4.972	0.5	0.5	1.	2.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	125 ##	-0.301	-0.073	1.556	-0.301	0.133	0.365	-0.301	-0.301	0.	0.301
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.846								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	02/03/77-09/21/95	118	1.25	19.364	1000.	0.5	10239.725	101.192	0.5	0.5	4.	16.3
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	02/03/77-09/21/95	118	0.088	0.316	3.	-0.301	0.441	0.664	-0.301	-0.301	0.602	1.212
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			2.071								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	03/19/74-09/20/76	21	1.	4.524	56.	0.5	144.687	12.029	0.5	0.5	2.5	9.8
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	03/19/74-09/20/76	21	0.	0.183	1.748	-0.301	0.264	0.514	-0.301	-0.301	0.389	0.973
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			1.524								
32226	CHLOROPHYLL B, PERIPHYTON, SPECTRO, MG/M2	12/30/74-07/26/76	5	0.1	0.086	0.2	0.	0.007	0.086	**	**	**	**
32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	12/30/74-07/26/76	5	0.79	3.338	14.	0.1	35.881	5.99	**	**	**	**
39025	SIMAZINE,COULSON CONDUCTIVITY,WATER SAMPLE(UG/L)	09/03/76-05/03/78	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	03/02/82-03/02/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	10/12/88-09/21/95	49	135.	136.122	149.	123.	33.985	5.83	130.	132.	140.	144.
39046	SIMAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	05/03/77-05/03/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/24/86-09/21/95	73	134.	134.274	149.	107.	55.507	7.45	125.4	131.	139.	144.
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	03/02/82-03/02/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/05/81-11/05/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/05/81	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	05/24/76-03/02/82	15 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	05/24/76-11/05/81	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	05/24/76-03/02/82	15 ##	0.	0.003	0.05	0.	0.	0.013	0.	0.	0.	0.02
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	05/24/76-11/05/81	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/05/81	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/05/81	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/05/81	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	05/24/76-11/05/81	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	03/02/82-03/02/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/05/81-11/05/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/05/81	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/24/76-11/16/78	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

Parameter Inventory for Station: GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.033	0.5	0.	0.017	0.129	0.	0.	0.	0.2
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	05/24/76-11/05/81	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/05/81	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	05/24/76-11/05/81	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.005	0.	0.	0.001	0.	0.	0.	0.002
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	05/24/76-11/05/81	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	02/02/78-03/02/82	11 ##	0.	0.005	0.05	0.	0.	0.015	0.	0.	0.	0.04
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/03/78-11/05/81	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/16/78	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/16/78	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	05/24/76-11/16/78	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	05/24/76-11/16/78	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	05/24/76-05/03/78	5 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39631	ATRAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	05/03/77-05/03/77	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	8 ##	0.	0.001	0.01	0.	0.	0.004	**	**	**	**
39731	2,4-D IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/03/77-05/03/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	8 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39741	2,4,5-T IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/03/77-05/03/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39755	MIREX, TOTAL (UG/L)	03/02/82-03/02/82	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	11/05/81-11/05/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	8 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39761	SILVEX IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/03/77-05/03/78	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	05/24/76-11/16/78	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	05/24/76-03/02/82	15 ##	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	05/24/76-11/16/78	4 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
60050	ALGAE, TOTAL (CELLS/ML)	08/30/75-08/03/81	26	315.	664.077	4300.	35.	783221.914	884.998	65.6	165.	1050.	1530.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	220	565.5	607.15	1940.	368.	53882.475	232.126	467.1	513.25	616.25	667.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	110	555.	569.464	1110.	238.	11775.59	108.515	490.	522.5	591.25	631.2
70302p	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	148	23950.	24050.421	112801.	2240.	179194478.999	13386.354	8223.	14275.	31660.025	36880.1
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	149	0.8	0.9	2.64	0.32	0.138	0.371	0.7	0.75	0.88	1.31
70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	10/02/51-01/01/63	12	4.	5.167	17.	1.	18.879	4.345	1.	3.	6.5	14.6
70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	10/02/51-01/01/63	15	6.	7.4	21.	2.	21.686	4.657	2.6	4.	10.	15.
70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	10/02/51-01/01/63	13	17.	20.077	36.	8.	76.077	8.722	8.8	14.	26.5	35.2
70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	10/31/51-01/01/63	14	47.5	46.071	71.	23.	231.918	15.229	23.	34.25	59.	68.5
70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	10/02/51-01/01/63	12	76.	70.	93.	34.	379.455	19.48	35.8	53.25	86.	91.2
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	215	68.	65.577	100.	1.	571.834	23.913	32.6	49.	86.	96.
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/02/51-08/12/65	121	89.	84.917	100.	53.	148.293	12.178	69.	74.	95.	98.
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/02/51-08/12/65	116	98.	96.216	100.	63.	24.675	4.967	91.7	94.	99.	100.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/02/51-01/01/63	90	100.	99.867	100.	96.	0.252	0.502	99.1	100.	100.	100.
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	05/27/61-05/27/61	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	10/02/51-04/10/65	43	20.	22.023	62.	1.	277.214	16.65	2.	6.	38.	46.4
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/51-04/10/65	121	34.	35.727	88.	2.	423.283	20.574	8.2	19.	52.	62.8
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	10/02/51-01/01/63	14	33.	40.429	71.	13.	385.341	19.63	17.	23.75	61.75	68.5
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/51-04/10/65	121	51.	50.083	93.	2.	682.843	26.131	12.8	29.	72.	84.8
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	10/02/51-01/01/63	14	46.	58.071	92.	23.	595.918	24.411	29.	38.75	84.75	90.5
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/07/59-04/10/65	23	65.	60.217	100.	10.	816.632	28.577	21.4	34.	96.	96.6
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/07/59-04/10/65	22	96.	92.682	100.	71.	83.465	9.136	71.3	91.	98.	99.7
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/07/59-04/10/65	20	100.	98.25	100.	88.	14.724	3.837	90.1	100.	100.	100.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	04/17/60-01/01/63	4	100.	100.	100.	100.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/30/75-09/07/94	35 ##	0.005	0.009	0.04	0.	0.	0.009	0.005	0.005	0.01	0.014
70950	BIOMASS-CHLOROPHYLL RATIO, PERIPHYTON (UNITS)	08/16/79-06/04/80	3	368.	1963.333	5238.	284.	8044345.333	2836.256	**	**	**	**
70957	CHLOROPHYLL-A,PERIPHYTON UG/L,CHROMO-FLUORO	06/06/78-06/04/80	6	0.185	0.355	0.9	0.02	0.158	0.398	**	**	**	**
70958	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-FLUORO	06/06/78-06/04/80	6	0.	0.028	0.09	0.	0.002	0.044	**	**	**	**
71830	HYDROXIDE ION (MG/L AS OH)	03/05/87-03/05/87	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/18/79-01/06/81	20	0.015	0.026	0.1	0.	0.001	0.029	0.	0.01	0.043	0.079
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/17/79-03/02/83	28	0.06	0.076	0.3	0.	0.005	0.073	0.009	0.01	0.115	0.158

** - Less than 9 observations ## - 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: GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/01/47-08/30/75	6	3.4	3.733	7.1	0.3	7.287	2.699	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	01/11/26-05/30/75	31	2.3	2.832	15.	0.5	6.979	2.642	0.64	2.1	2.6	4.24
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	01/10/73-08/30/75	30	0.	0.007	0.03	0.	0.	0.013	0.	0.	0.008	0.03
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/18/79-04/03/84	41	0.06	0.07	0.25	0.	0.003	0.053	0.03	0.03	0.105	0.15
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/15/74-09/02/81	57	4.	4.346	8.2	2.2	1.629	1.276	3.08	3.5	4.85	6.26
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/28/74-09/21/95	65 ##	0.05	0.096	1.	0.	0.02	0.14	0.05	0.05	0.05	0.25
71895	MERCURY, SUSPENDED (UG/L AS HG)	05/28/74-08/03/81	18	0.	0.106	1.1	0.	0.065	0.255	0.	0.	0.1	0.29
71900	MERCURY, TOTAL (UG/L AS HG)	05/28/74-09/21/95	87 ##	0.05	0.087	1.1	0.	0.018	0.134	0.05	0.05	0.05	0.2
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	615	16.	1350.596	38700.	0.	16310530.384	4038.63	3.	6.	228.	3818.
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	537	708.	9965.748	1800000.	17.	6835695380.733	82678.264	71.8	222.5	3335.	6220.
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	04/13/63-08/12/65	5	0.	3.2	15.	0.	43.7	6.611	**	**	**	**
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	04/13/63-08/12/65	20	65.5	58.2	86.	2.	399.011	19.975	25.3	49.25	70.	80.
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	04/13/63-08/12/65	20	95.5	89.3	100.	6.	426.116	20.643	74.8	90.5	98.	99.
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	04/13/63-08/12/65	19	100.	99.526	100.	91.	4.263	2.065	100.	100.	100.	100.
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	08/12/65-08/12/65	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	09/26/67-09/26/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	09/26/67-09/26/67	1	4.	4.	4.	4.	0.	0.	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	09/26/67-09/26/67	1	77.	77.	77.	77.	0.	0.	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	09/26/67-09/26/67	1	99.	99.	99.	99.	0.	0.	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	09/26/67-09/26/67	1	100.	100.	100.	100.	0.	0.	**	**	**	**
81204	POTASSIUM, (TONS PER DAY AS K)	08/30/75-08/30/75	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	11/05/81-11/05/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	01/06/81-06/02/81	4	2.35	2.2	2.8	1.3	0.407	0.638	**	**	**	**
82183	2,4-DP (DICHLORPROP) TOTAL UG/L	03/02/82-03/02/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0011

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	30	1	0.03	10	1	0.10	10	0	0.00	10	0	0.00			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	132	1	0.01	66	0	0.00	33	1	0.03	33	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	165	1	0.01	87	0	0.00	39	1	0.03	39	0	0.00			
00400	PH	Other-Hi Lim.	9.	260	0	0.00	127	0	0.00	62	0	0.00	71	0	0.00			
		Other-Lo Lim.	6.5	260	12	0.05	127	6	0.05	62	3	0.05	71	3	0.04			
00403	PH, LAB	Other-Hi Lim.	9.	107	0	0.00	55	0	0.00	25	0	0.00	27	0	0.00			
		Other-Lo Lim.	6.5	107	0	0.00	55	0	0.00	25	0	0.00	27	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	85	0	0.00	37	0	0.00	25	0	0.00	23	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	35	0	0.00	22	0	0.00	7	0	0.00	6	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	31	0	0.00	13	0	0.00	12	0	0.00	6	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	3	0	0.00				3	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	144	0	0.00	70	0	0.00	37	0	0.00	37	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	164	0	0.00	83	0	0.00	42	0	0.00	39	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	229	0	0.00	103	0	0.00	63	0	0.00	63	0	0.00			
		Drinking Water	250.	229	0	0.00	103	0	0.00	63	0	0.00	63	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	229	73	0.32	103	21	0.20	62	36	0.58	64	16	0.25			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	192	0	0.00	91	0	0.00	50	0	0.00	51	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	102	0	0.00	49	0	0.00	25	0	0.00	28	0	0.00			
		Drinking Water	50.	102	0	0.00	49	0	0.00	25	0	0.00	28	0	0.00			
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	18	0	0.00	9	0	0.00	3	0	0.00	6	0	0.00			
		Drinking Water	50.	18	0	0.00	9	0	0.00	3	0	0.00	6	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	98	0	0.00	47	0	0.00	22	0	0.00	29	0	0.00			
		Drinking Water	50.	98	0	0.00	47	0	0.00	22	0	0.00	29	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	99	0	0.00	49	0	0.00	23	0	0.00	27	0	0.00			
01006	BARIUM, SUSPENDED	Drinking Water	2000.	17	0	0.00	9	0	0.00	3	0	0.00	5	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	17	0	0.00	9	0	0.00	3	0	0.00	5	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	37	0	0.00	17	0	0.00	9	0	0.00	11	0	0.00			
		Drinking Water	4.	35 &	0	0.00	16	0	0.00	9	0	0.00	10	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	12	0	0.00	7	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	4.	0 &	0	0.00												

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

EPA Water Quality Criteria Analysis for Station: GRCA0011

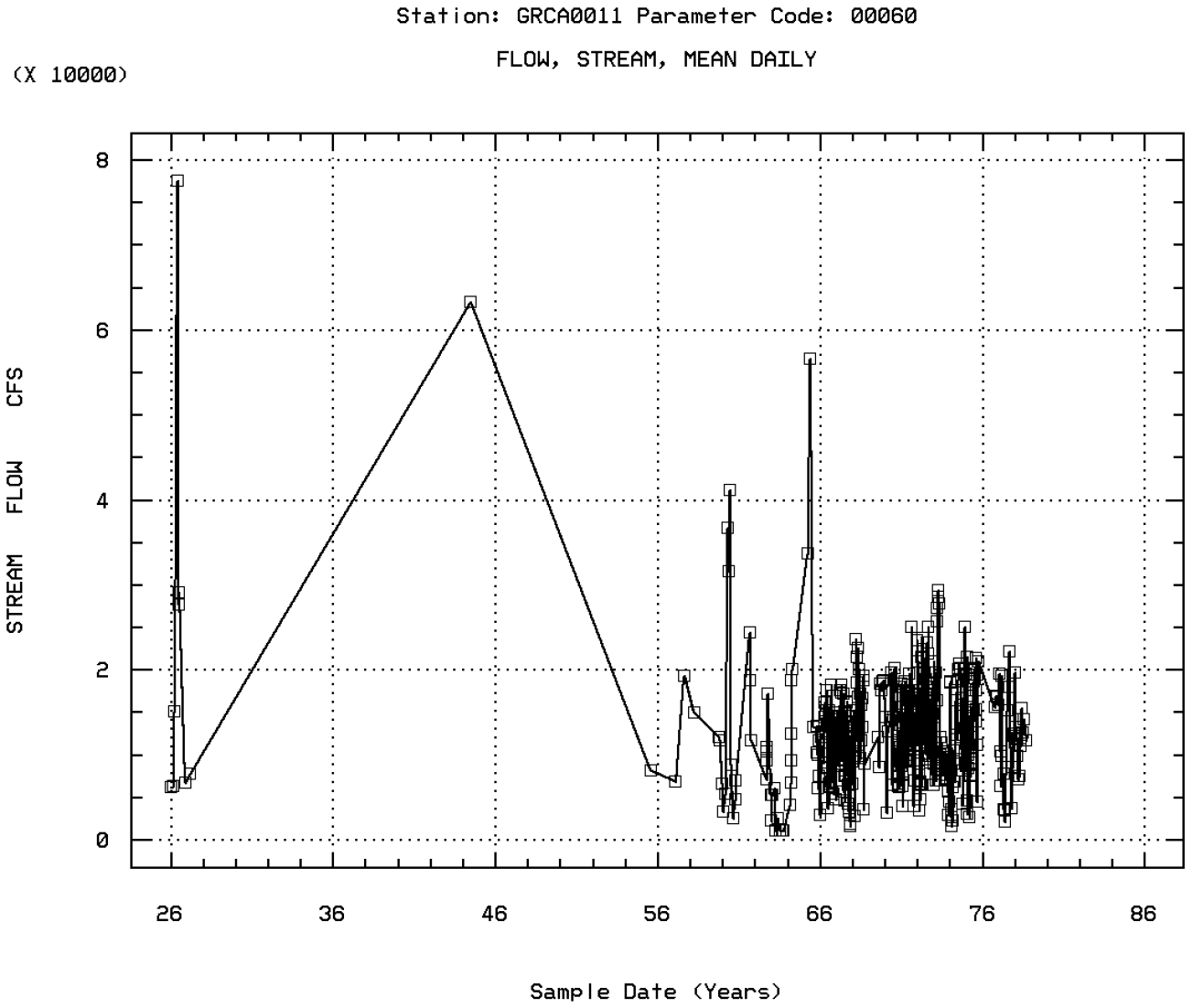
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	100	11	0.11	48	5	0.10	24	3	0.13	28	3	0.11			
		Drinking Water	5.	100	8	0.08	48	4	0.08	24	1	0.04	28	3	0.11			
01026	CADMIUM, SUSPENDED	Fresh Acute	3.9	18 &	2	0.11	10	1	0.10	4	1	0.25	4	0	0.00			
		Drinking Water	5.	19 &	2	0.11	10	1	0.10	4	1	0.25	5	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	88 &	10	0.11	42	6	0.14	20	3	0.15	26	1	0.04			
		Drinking Water	5.	88 &	8	0.09	42	4	0.10	20	3	0.15	26	1	0.04			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	101	0	0.00	48	0	0.00	25	0	0.00	28	0	0.00			
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	19	0	0.00	9	0	0.00	5	0	0.00	5	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	98	0	0.00	46	0	0.00	23	0	0.00	29	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	100	3	0.03	48	0	0.00	25	2	0.08	27	1	0.04			
		Drinking Water	1300.	100	0	0.00	48	0	0.00	25	0	0.00	27	0	0.00			
01041	COPPER, SUSPENDED	Fresh Acute	18.	22	0	0.00	11	0	0.00	5	0	0.00	6	0	0.00			
		Drinking Water	1300.	22	0	0.00	11	0	0.00	5	0	0.00	6	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	97	19	0.20	45	7	0.16	23	5	0.22	29	7	0.24			
		Drinking Water	1300.	97	0	0.00	45	0	0.00	23	0	0.00	29	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	101	0	0.00	48	0	0.00	25	0	0.00	28	0	0.00			
		Drinking Water	15.	101	3	0.03	48	2	0.04	25	1	0.04	28	0	0.00			
01050	LEAD, SUSPENDED	Fresh Acute	82.	21	0	0.00	10	0	0.00	5	0	0.00	6	0	0.00			
		Drinking Water	15.	15 &	1	0.07	8	0	0.00	3	1	0.33	4	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	93 &	0	0.00	45	0	0.00	21	0	0.00	27	0	0.00			
		Drinking Water	15.	93 &	7	0.08	45	5	0.11	21	1	0.05	27	1	0.04			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	5	0	0.00	4	0	0.00				1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	63	0	0.00	30	0	0.00	14	0	0.00	19	0	0.00			
		Drinking Water	100.	63	0	0.00	30	0	0.00	14	0	0.00	19	0	0.00			
01066	NICKEL, SUSPENDED	Fresh Acute	1400.	11	0	0.00	6	0	0.00	1	0	0.00	4	0	0.00			
		Drinking Water	100.	11	0	0.00	6	0	0.00	1	0	0.00	4	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	23	0	0.00	13	0	0.00	4	0	0.00	6	0	0.00			
		Drinking Water	100.	23	0	0.00	13	0	0.00	4	0	0.00	6	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	98	0	0.00	48	0	0.00	23	0	0.00	27	0	0.00			
		Drinking Water	100.	98	0	0.00	48	0	0.00	23	0	0.00	27	0	0.00			
01076	SILVER, SUSPENDED	Fresh Acute	4.1	13	0	0.00	7	0	0.00	3	0	0.00	3	0	0.00			
		Drinking Water	100.	13	0	0.00	7	0	0.00	3	0	0.00	3	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	17	0	0.00	9	0	0.00	3	0	0.00	5	0	0.00			
		Drinking Water	100.	17	0	0.00	9	0	0.00	3	0	0.00	5	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	102	1	0.01	49	1	0.02	25	0	0.00	28	0	0.00			
		Drinking Water	5000.	102	0	0.00	49	0	0.00	25	0	0.00	28	0	0.00			
01091	ZINC, SUSPENDED	Fresh Acute	120.	20	1	0.05	9	1	0.11	4	0	0.00	7	0	0.00			
		Drinking Water	5000.	20	0	0.00	9	0	0.00	4	0	0.00	7	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	98	4	0.04	46	2	0.04	23	0	0.00	29	2	0.07			
		Drinking Water	5000.	98	0	0.00	46	0	0.00	23	0	0.00	29	0	0.00			
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	1	0	0.00							1	0	0.00			
		Drinking Water	6.	1	0	0.00							1	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	12	0	0.00	7	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	6.	12	0	0.00	7	0	0.00	3	0	0.00	2	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	105	0	0.00	51	0	0.00	25	0	0.00	29	0	0.00			
		Drinking Water	50.	105	0	0.00	51	0	0.00	25	0	0.00	29	0	0.00			
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	23	0	0.00	11	0	0.00	5	0	0.00	7	0	0.00			
		Drinking Water	50.	23	0	0.00	11	0	0.00	5	0	0.00	7	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	99	0	0.00	47	0	0.00	23	0	0.00	29	0	0.00			
		Drinking Water	50.	99	0	0.00	47	0	0.00	23	0	0.00	29	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	6	3	0.50				3	1	0.33	3	2	0.67			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	21	0	0.00	5	0	0.00	6	0	0.00	10	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	125	0	0.00	59	0	0.00	34	0	0.00	32	0	0.00			
39025	SIMAZINE, COULSON CONDUCTIVITY WATER SAM	Drinking Water	4.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
		Drinking Water	0.2	15	0	0.00	7	0	0.00	5	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

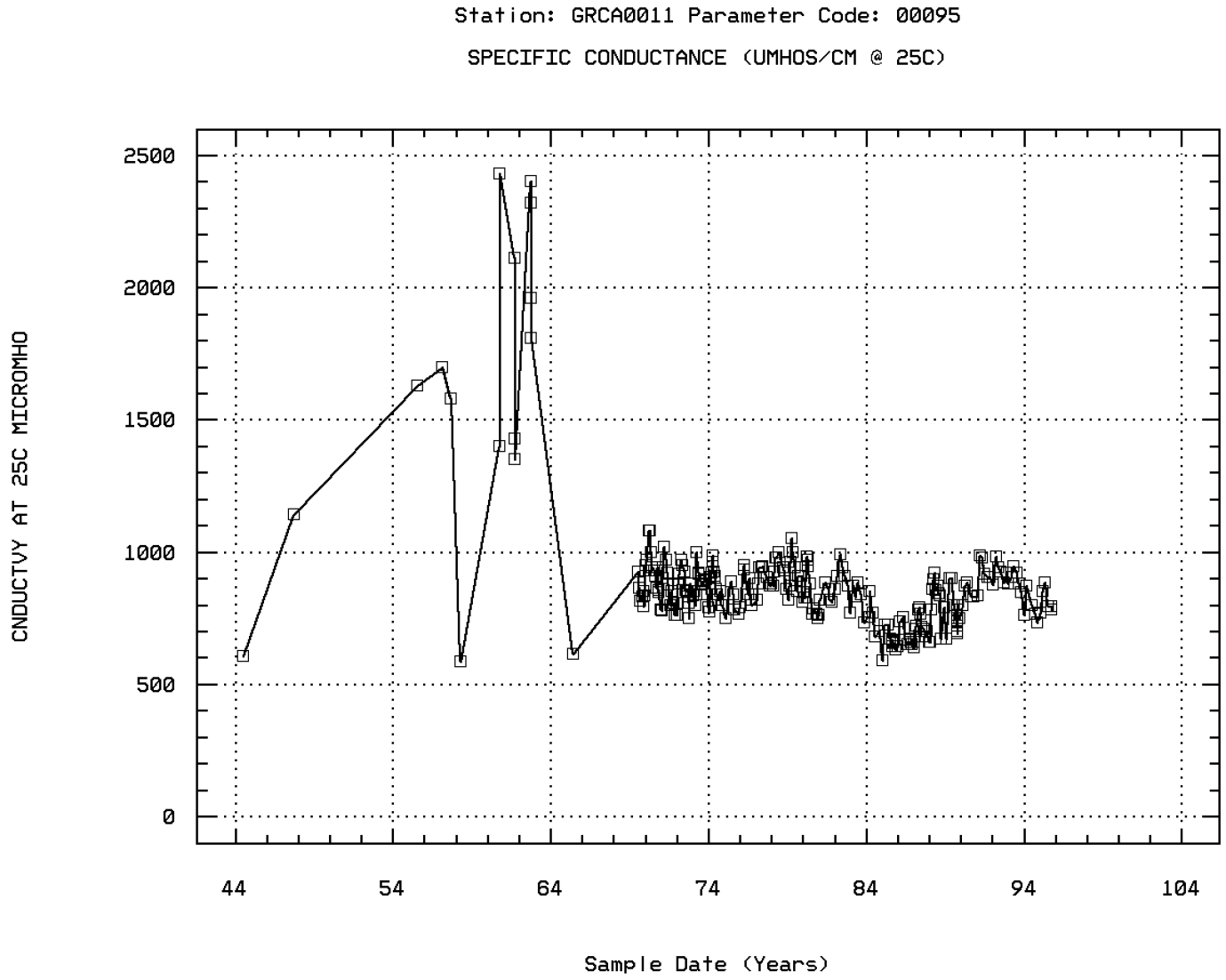
EPA Water Quality Criteria Analysis for Station: GRCA0011

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
		Drinking Water	2.	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	1	0	0.00	1	0	0.00									
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
		Drinking Water	2.	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
		Drinking Water	3.	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
		Drinking Water	0.4	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
		Drinking Water	0.2	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	Drinking Water	3.	5	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00			
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	8	0	0.00	4	0	0.00	3	0	0.00	1	0	0.00			
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	8	0	0.00	4	0	0.00	3	0	0.00	1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	6	0	0.00	2	0	0.00				4	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	31	0	0.00	13	0	0.00	12	0	0.00	6	0	0.00			
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	30	0	0.00	11	0	0.00	10	0	0.00	9	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	65	0	0.00	30	0	0.00	17	0	0.00	18	0	0.00			
		Drinking Water	2.	65	0	0.00	30	0	0.00	17	0	0.00	18	0	0.00			
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	18	0	0.00	9	0	0.00	4	0	0.00	5	0	0.00			
		Drinking Water	2.	18	0	0.00	9	0	0.00	4	0	0.00	5	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	87	0	0.00	42	0	0.00	19	0	0.00	26	0	0.00			
		Drinking Water	2.	87	0	0.00	42	0	0.00	19	0	0.00	26	0	0.00			

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



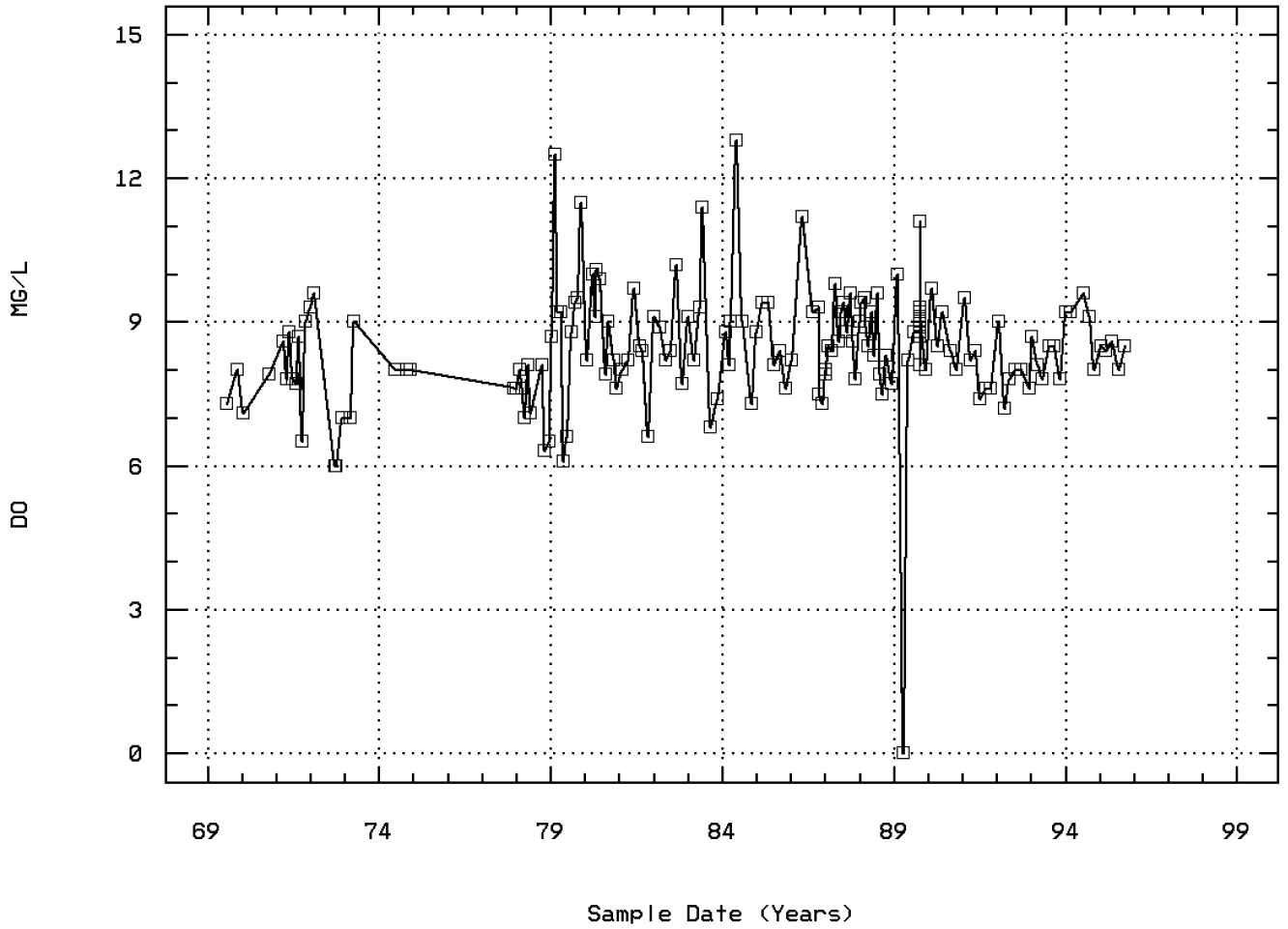
COLORADO R AT LEES FERRY, AZ.



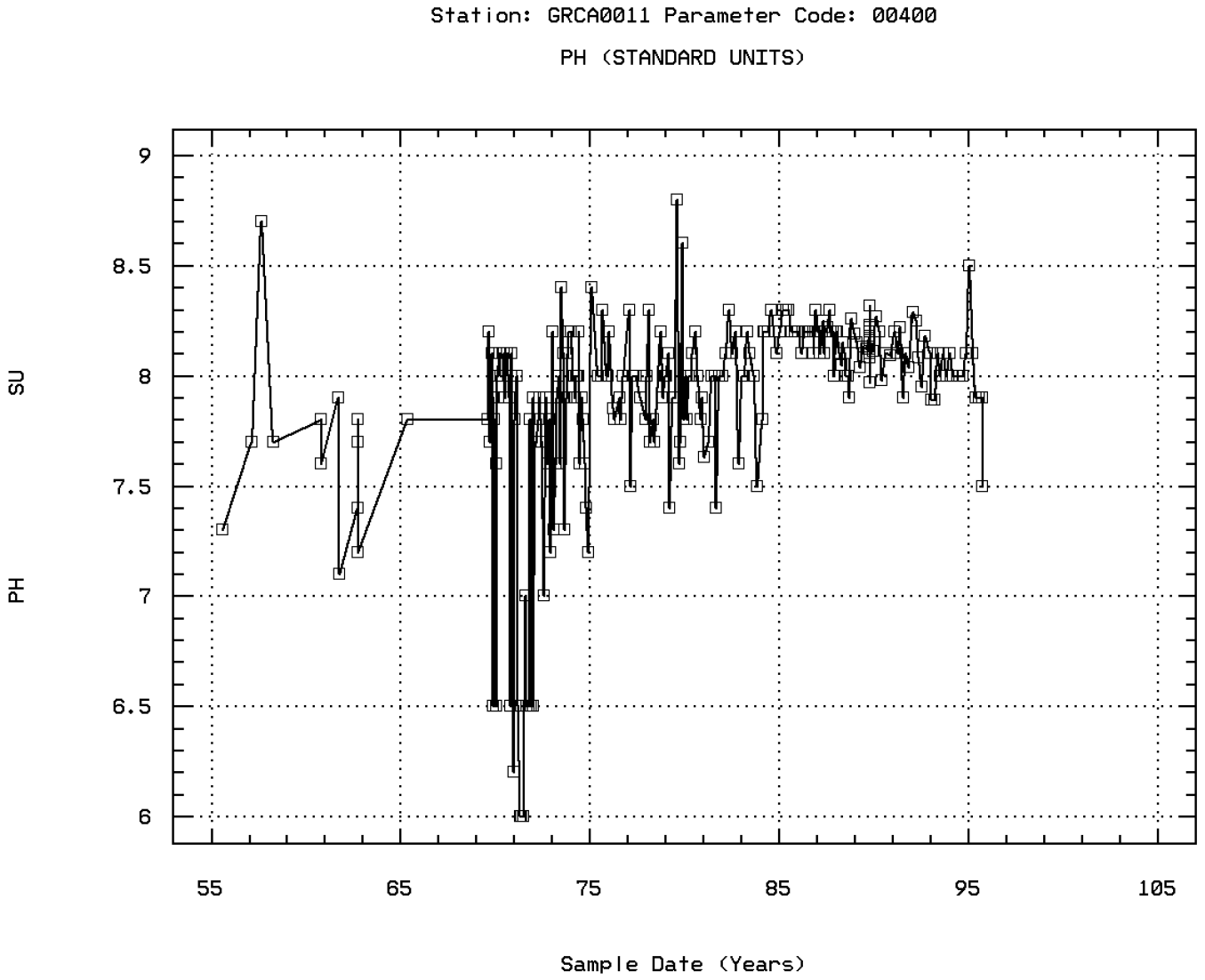
COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00300

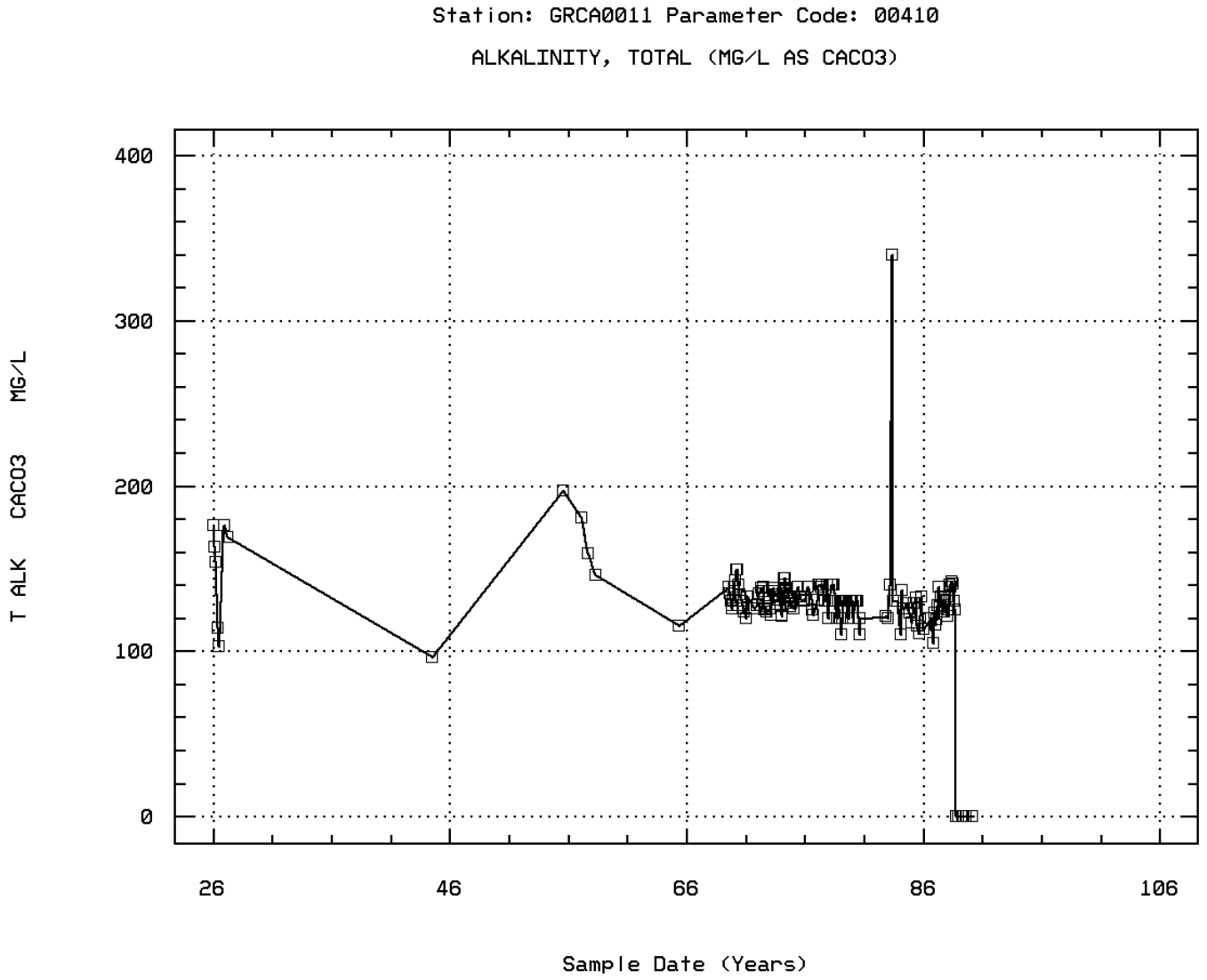
OXYGEN, DISSOLVED



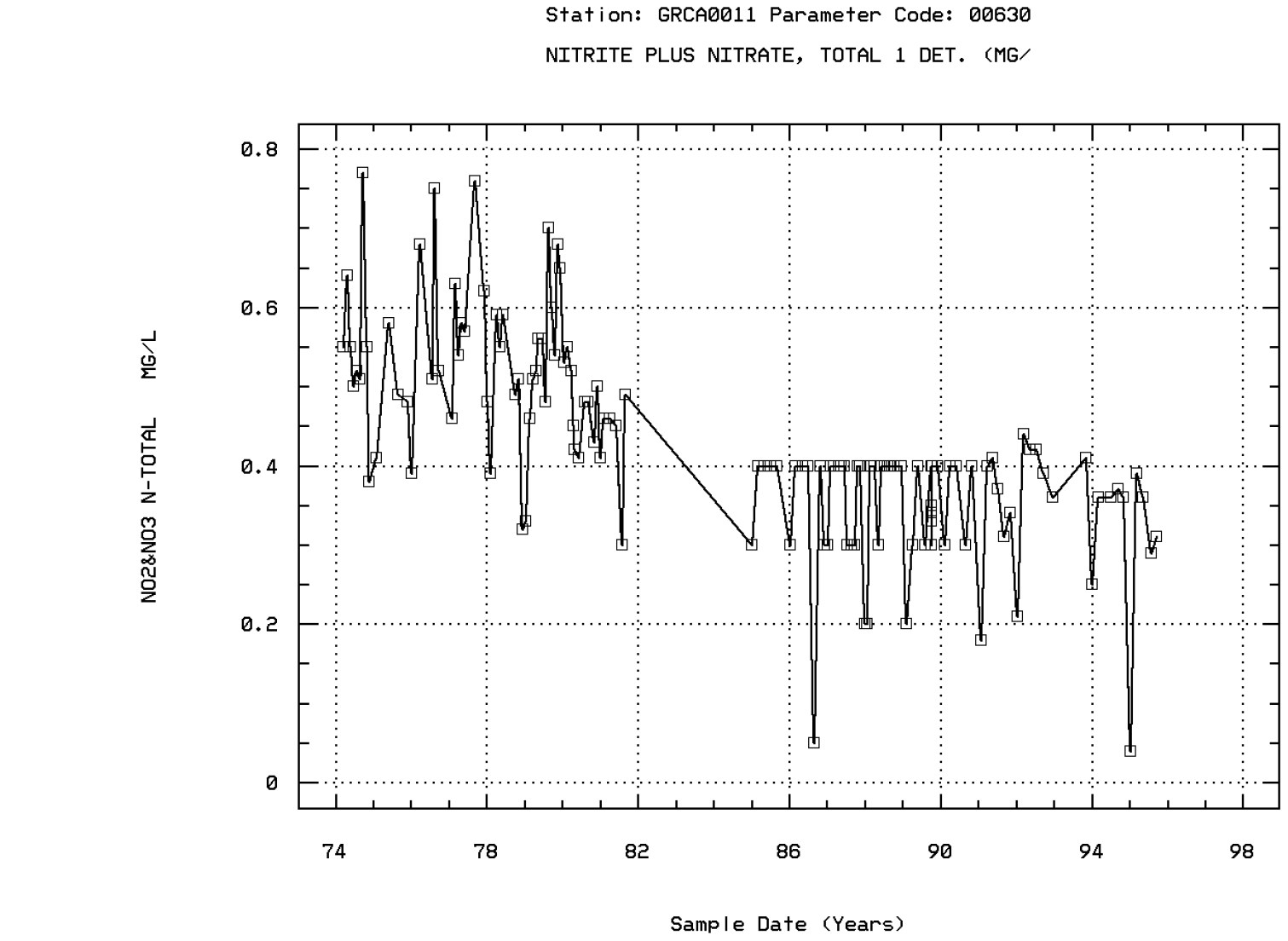
COLORADO R AT LEES FERRY, AZ.



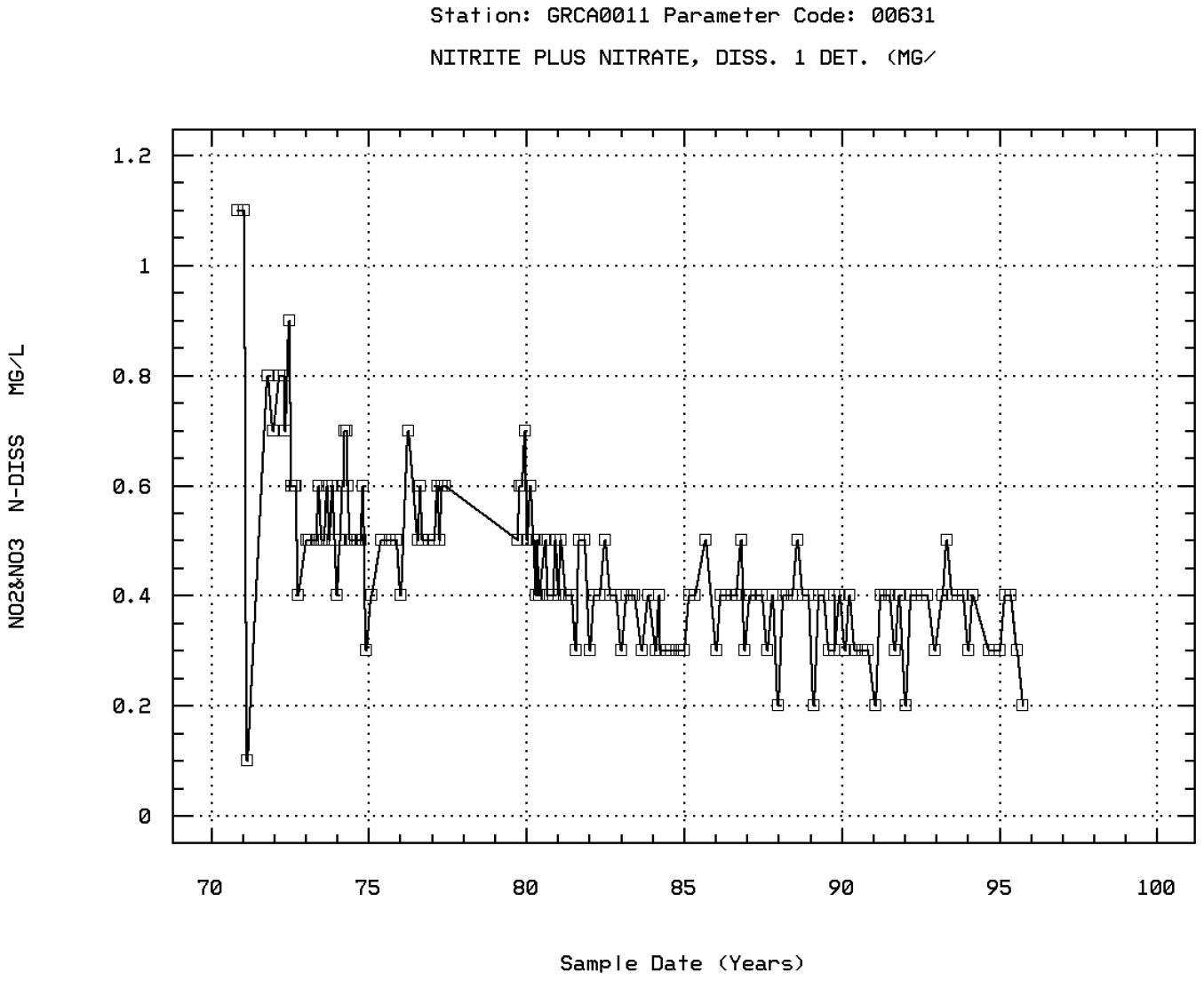
COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.



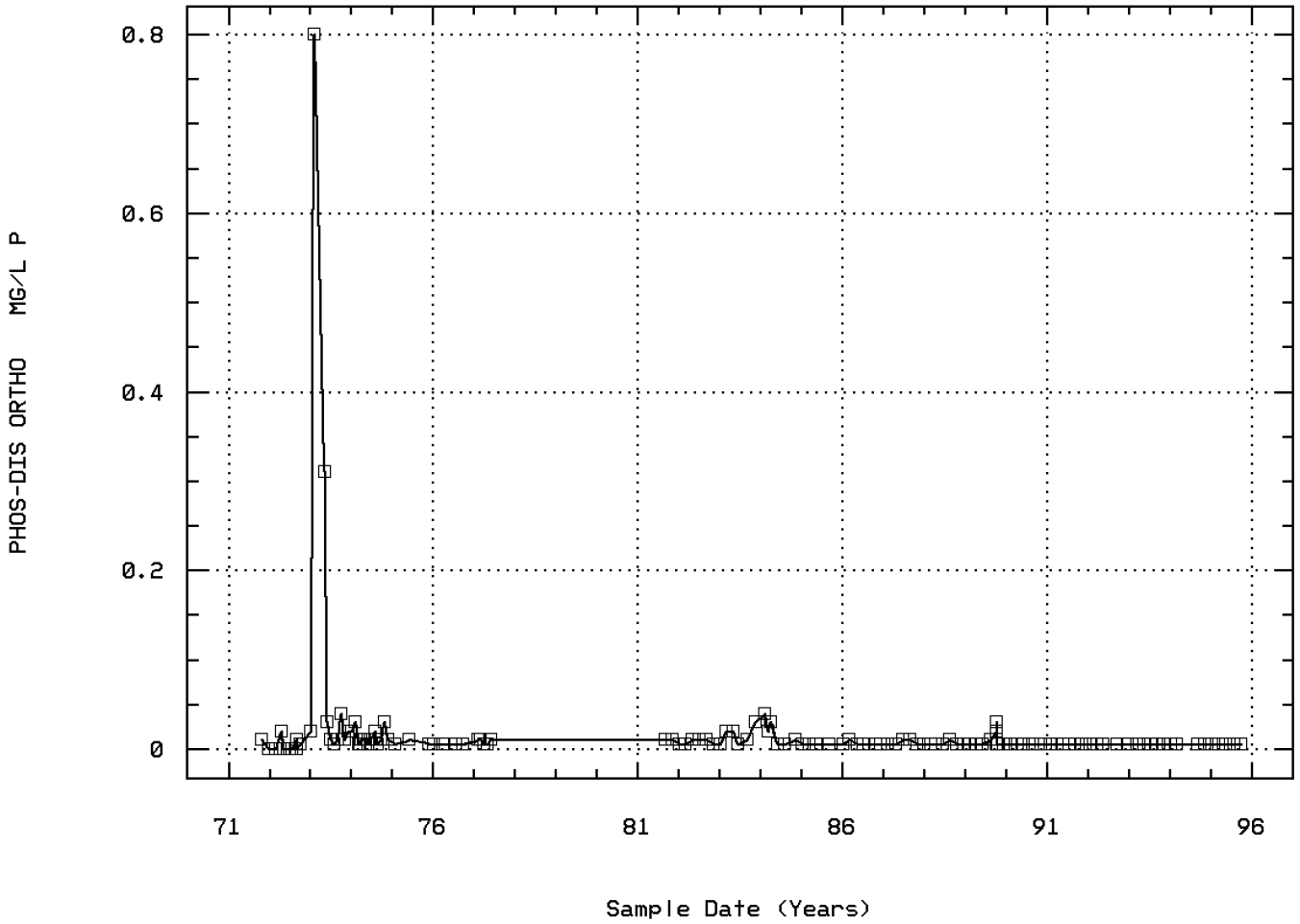
COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00671

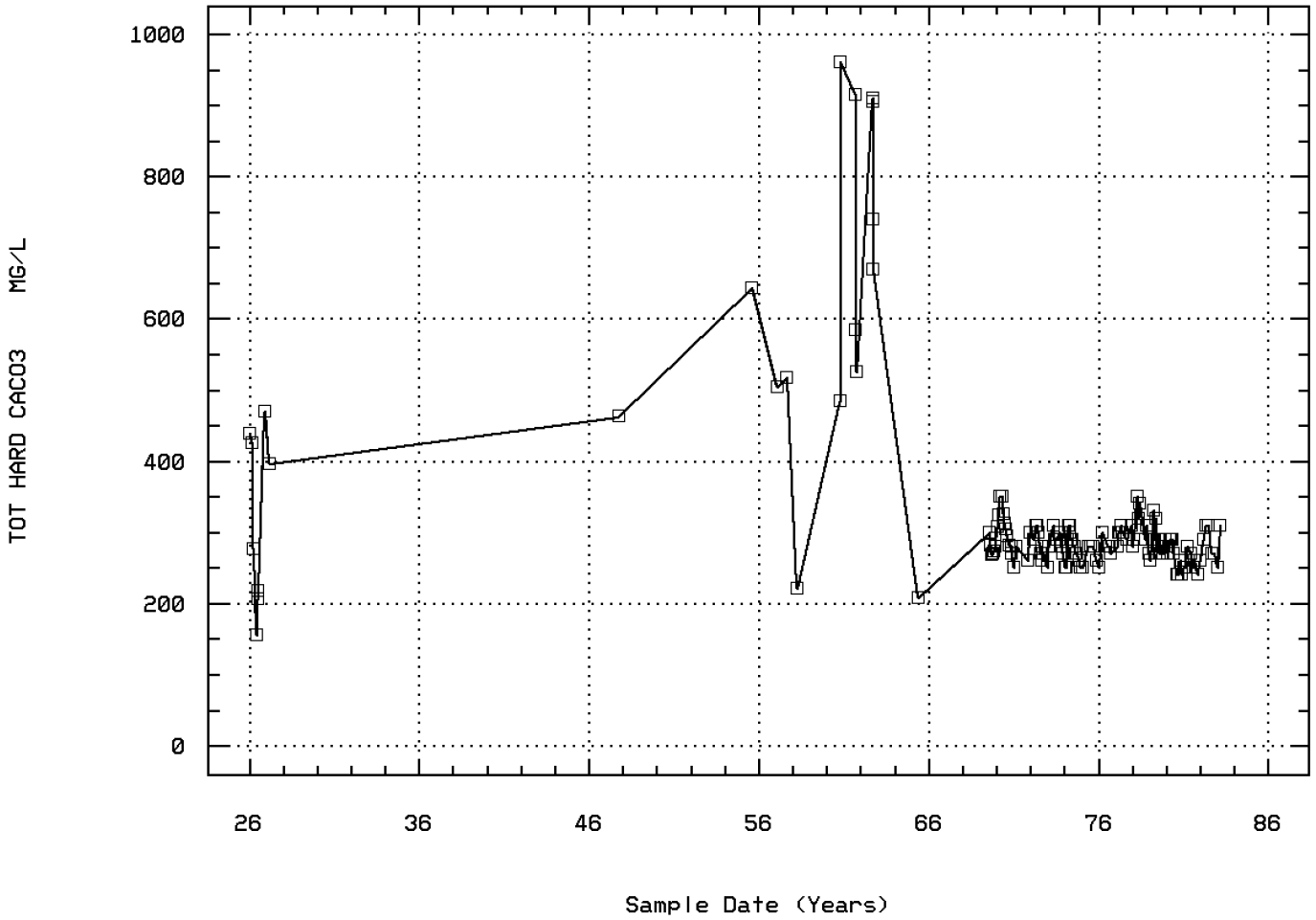
PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (M



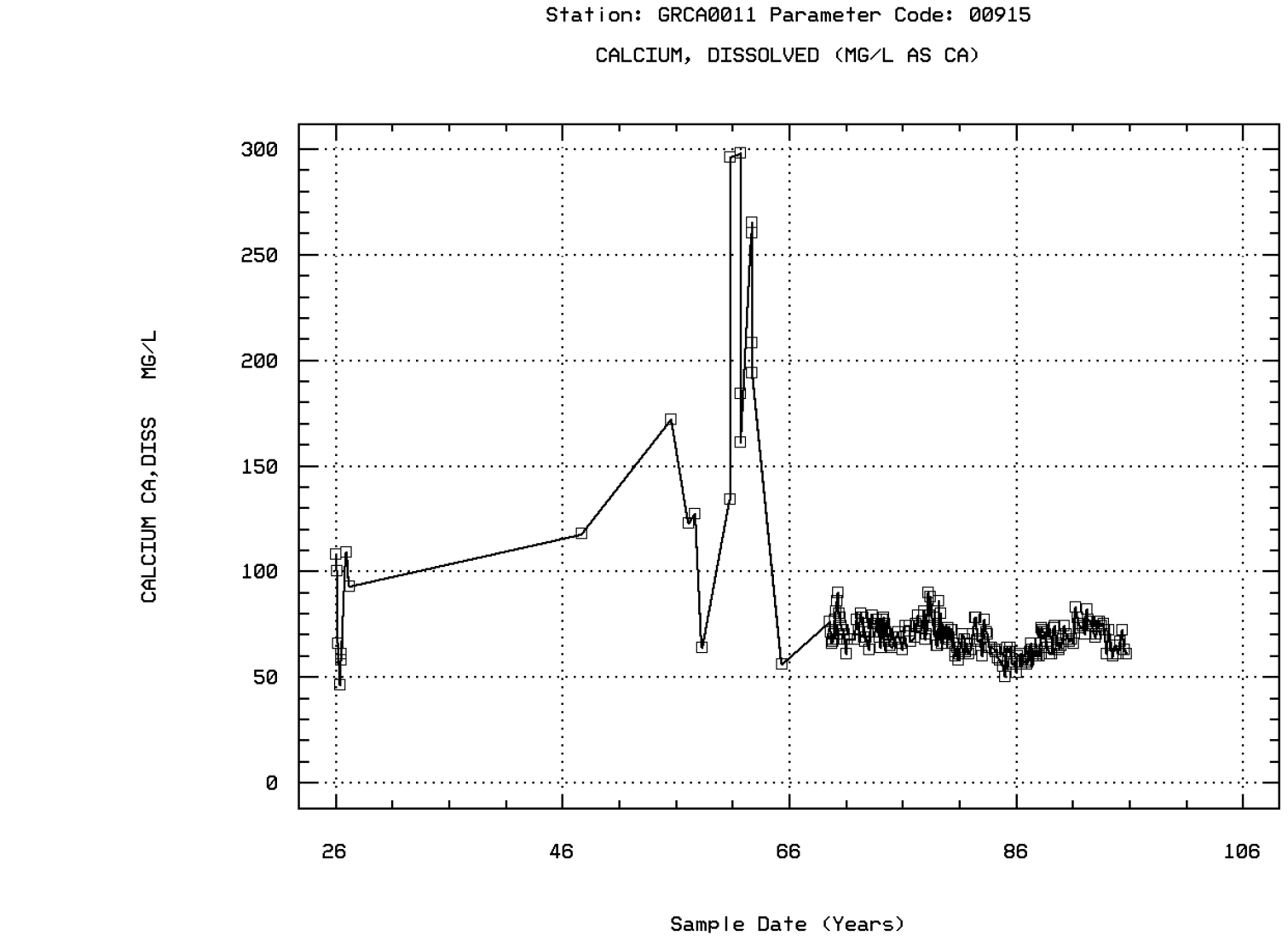
COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00900

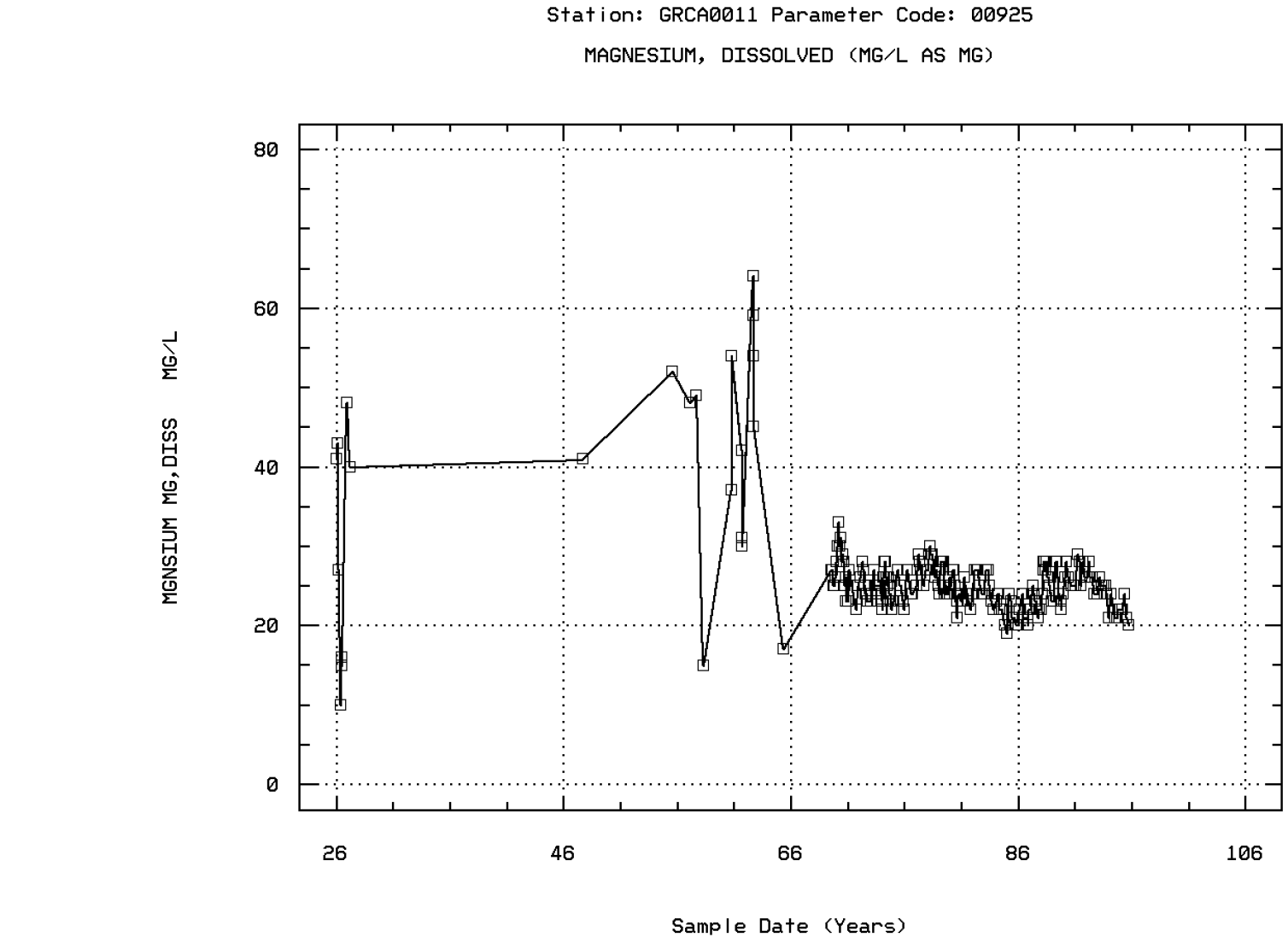
HARDNESS, TOTAL (MG/L AS CACO3)



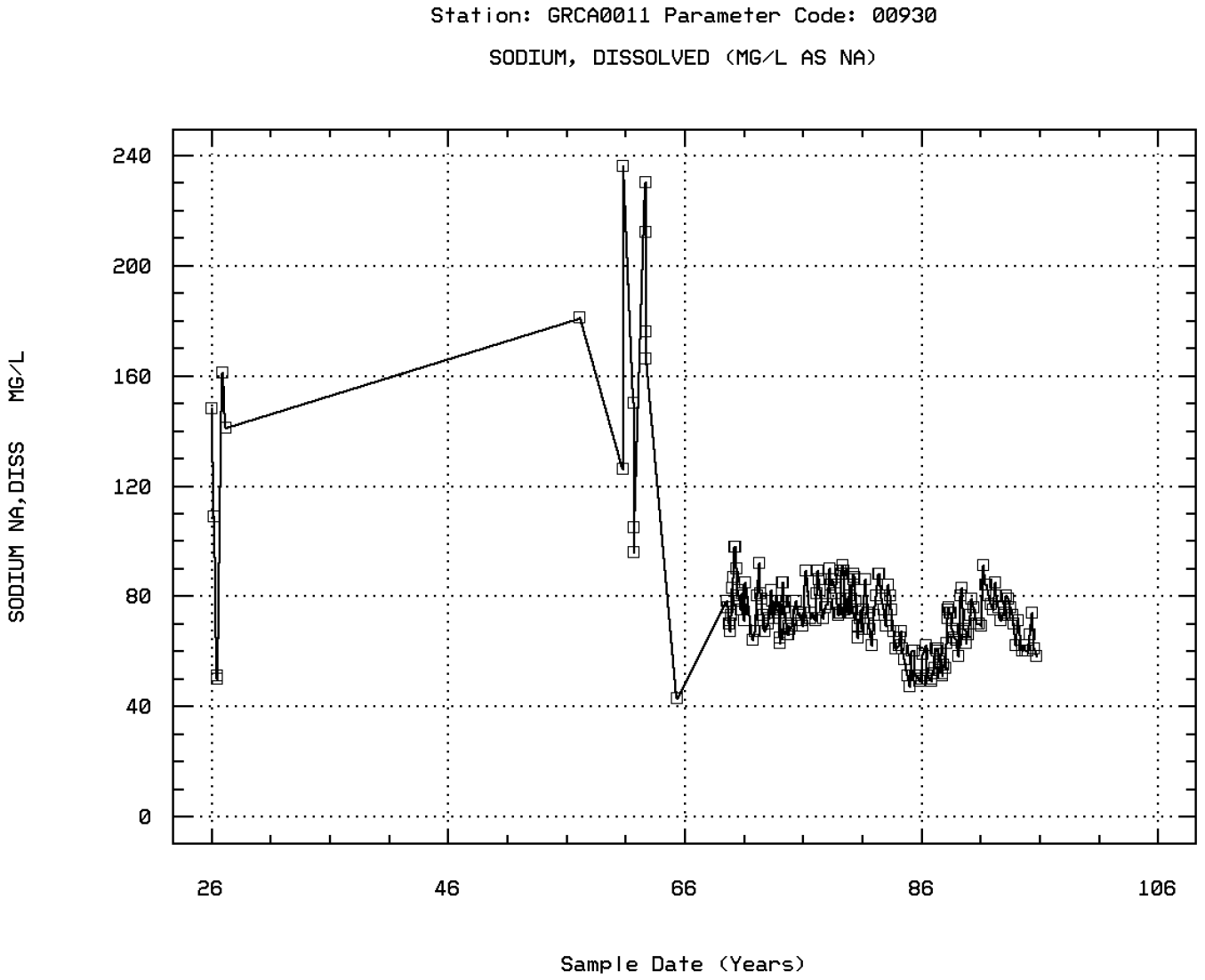
COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.



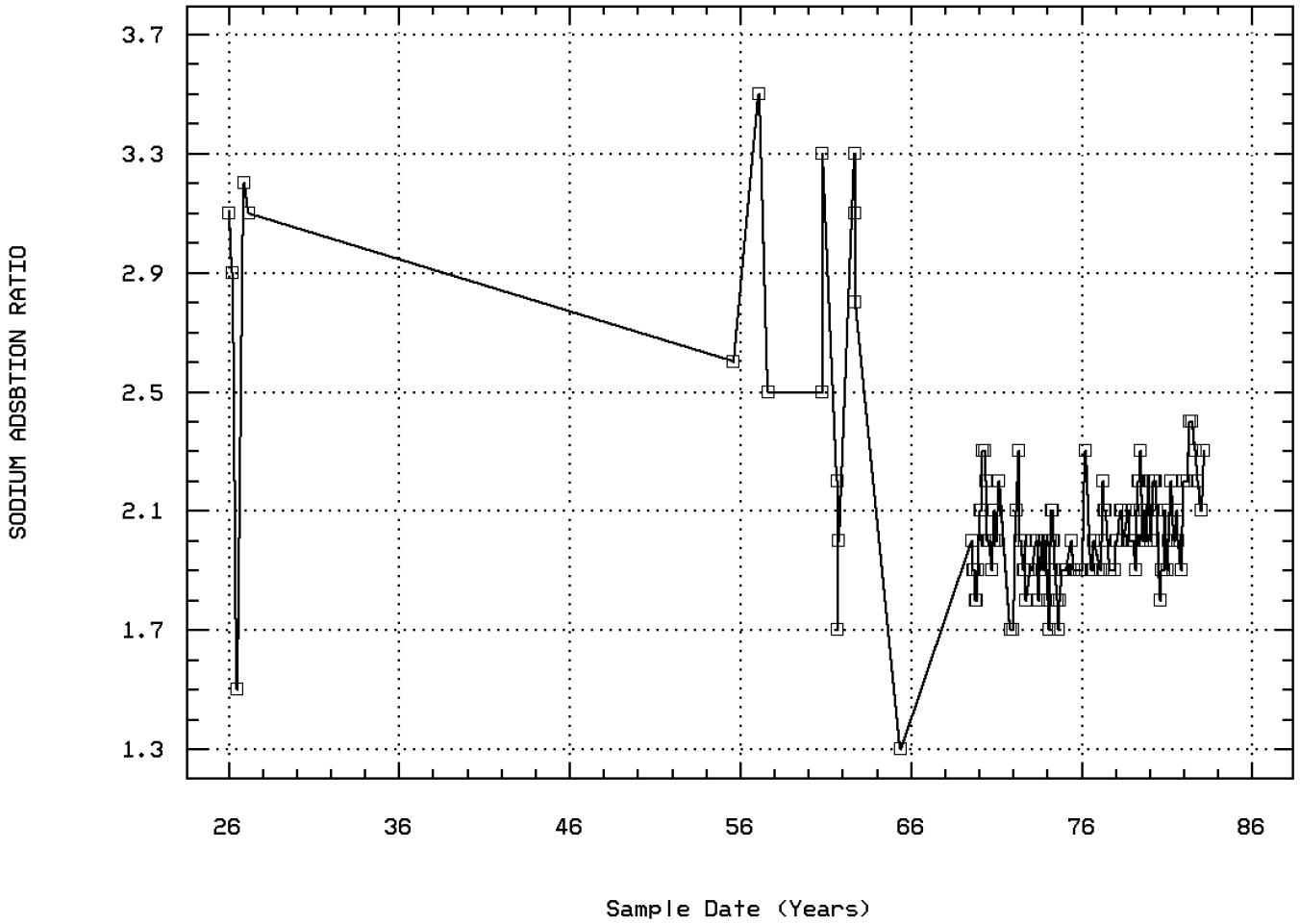
COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00931

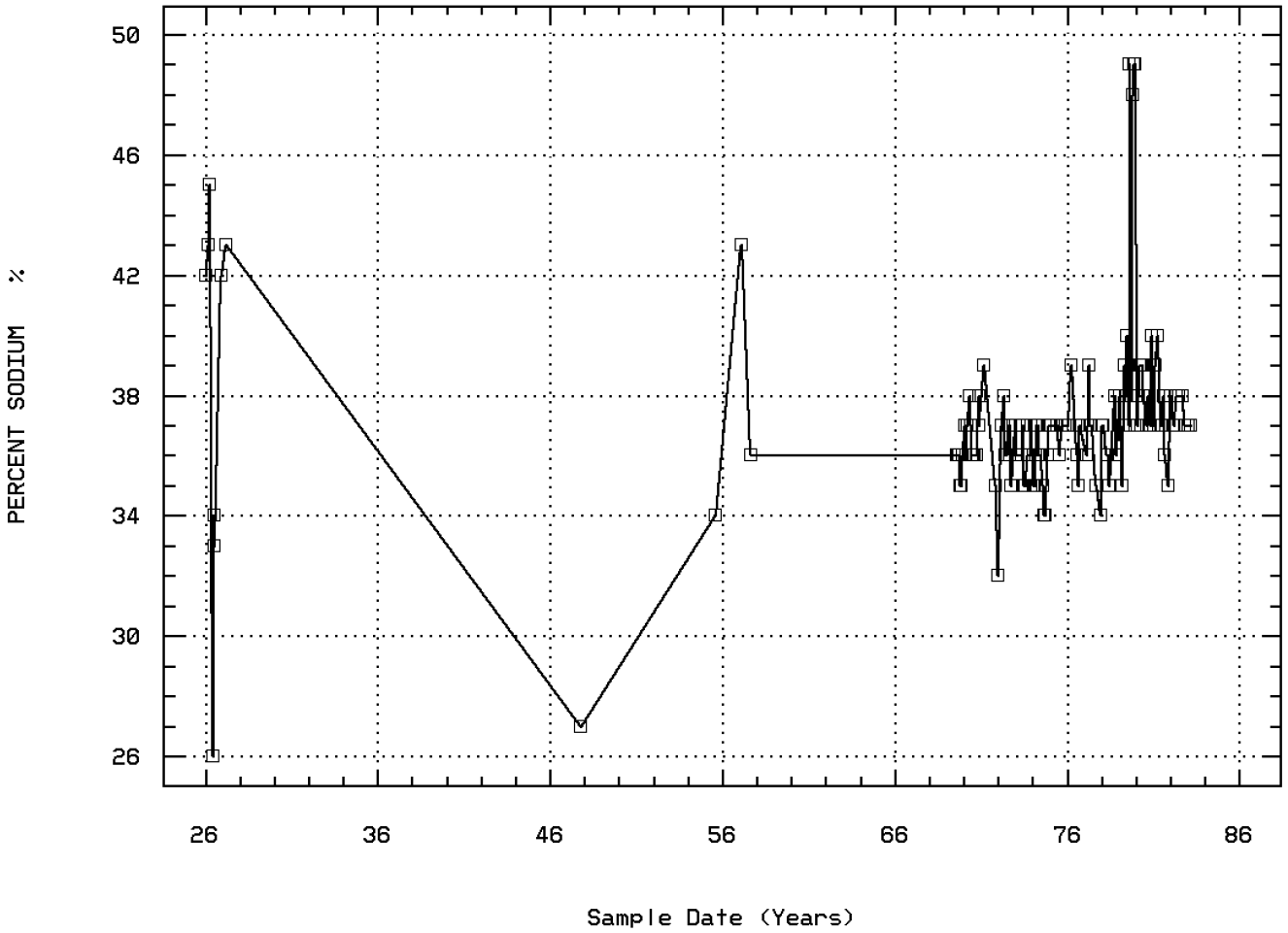
SODIUM ADSORPTION RATIO



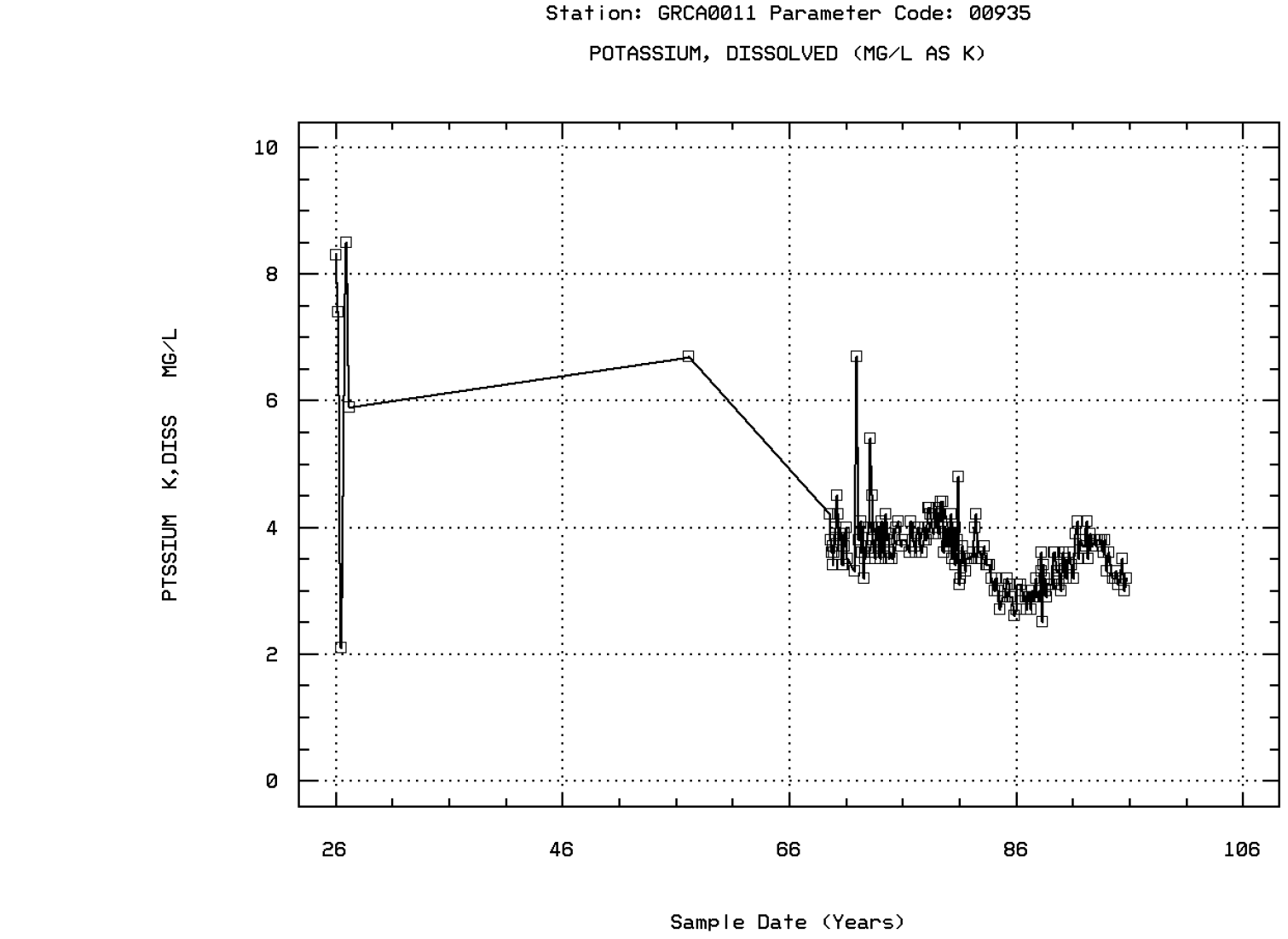
COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00932

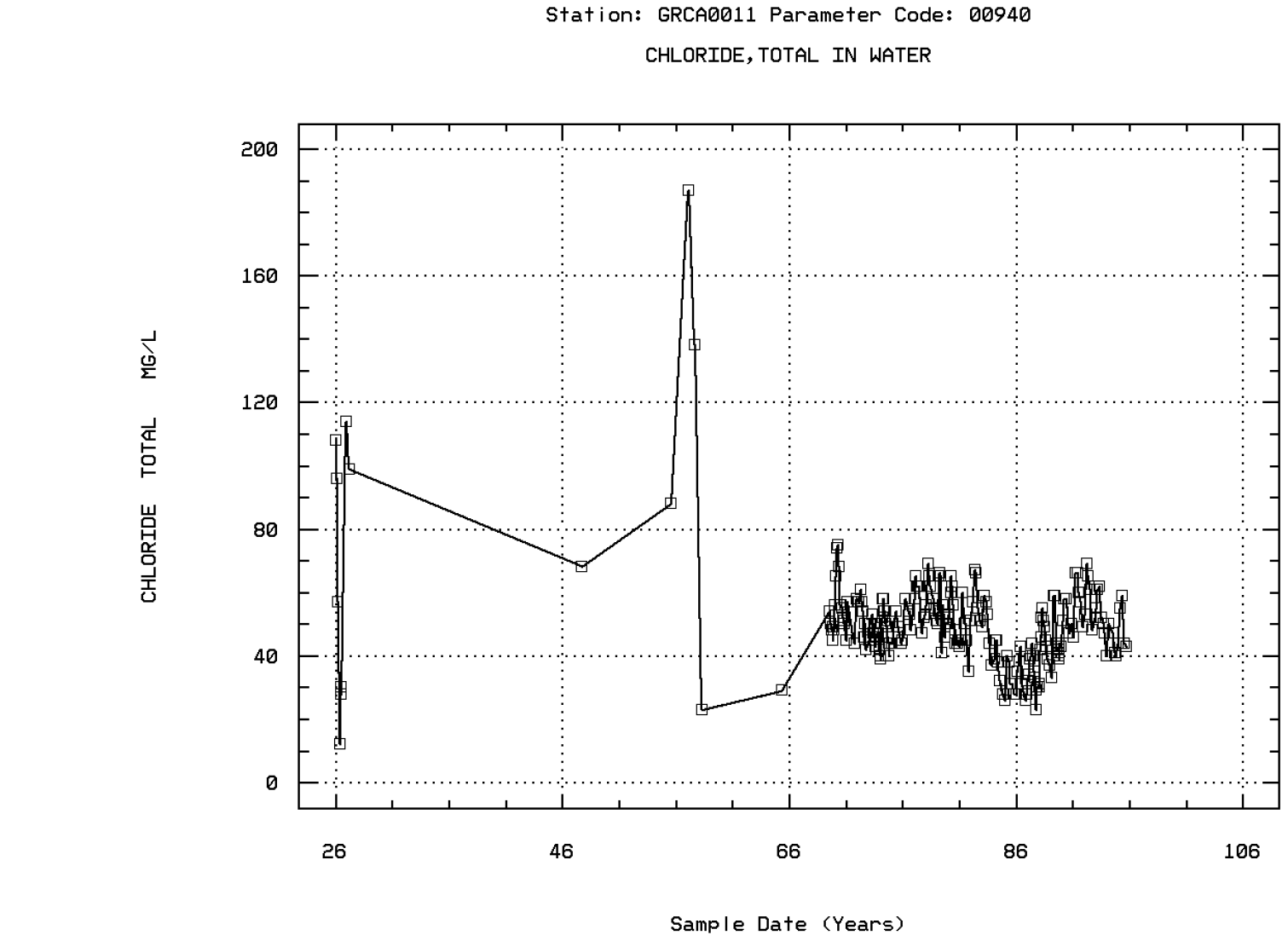
SODIUM, PERCENT



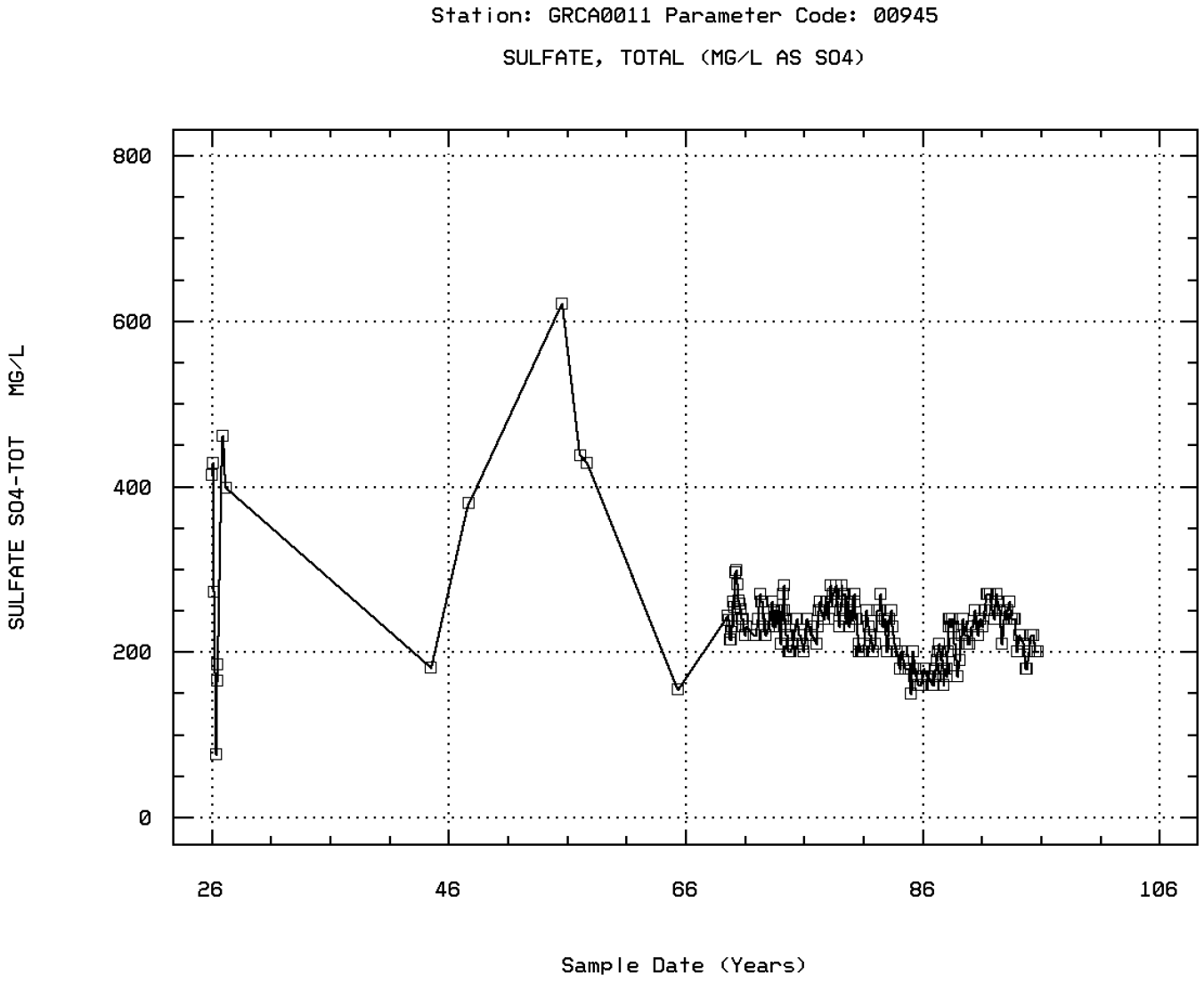
COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.



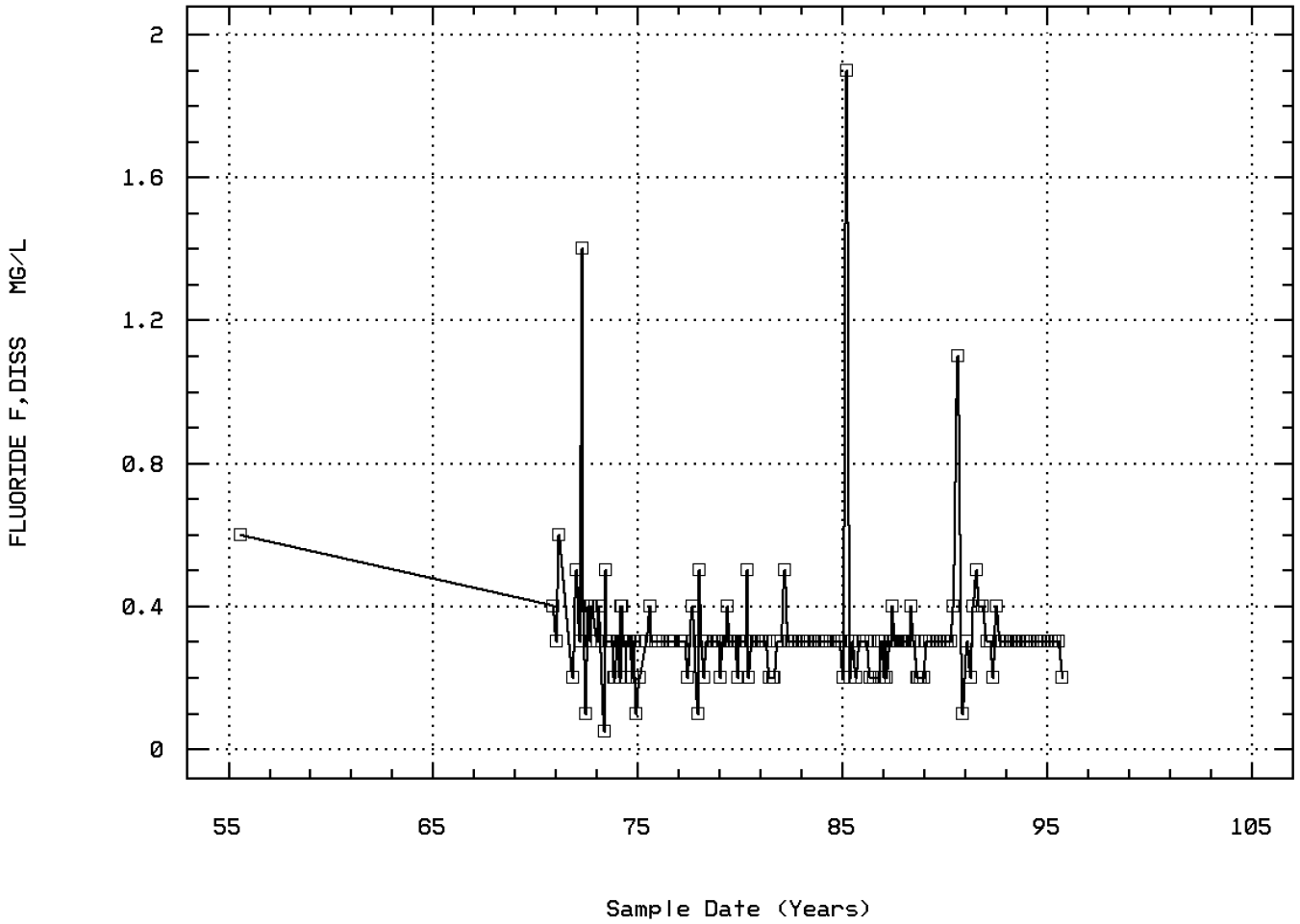
COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00950

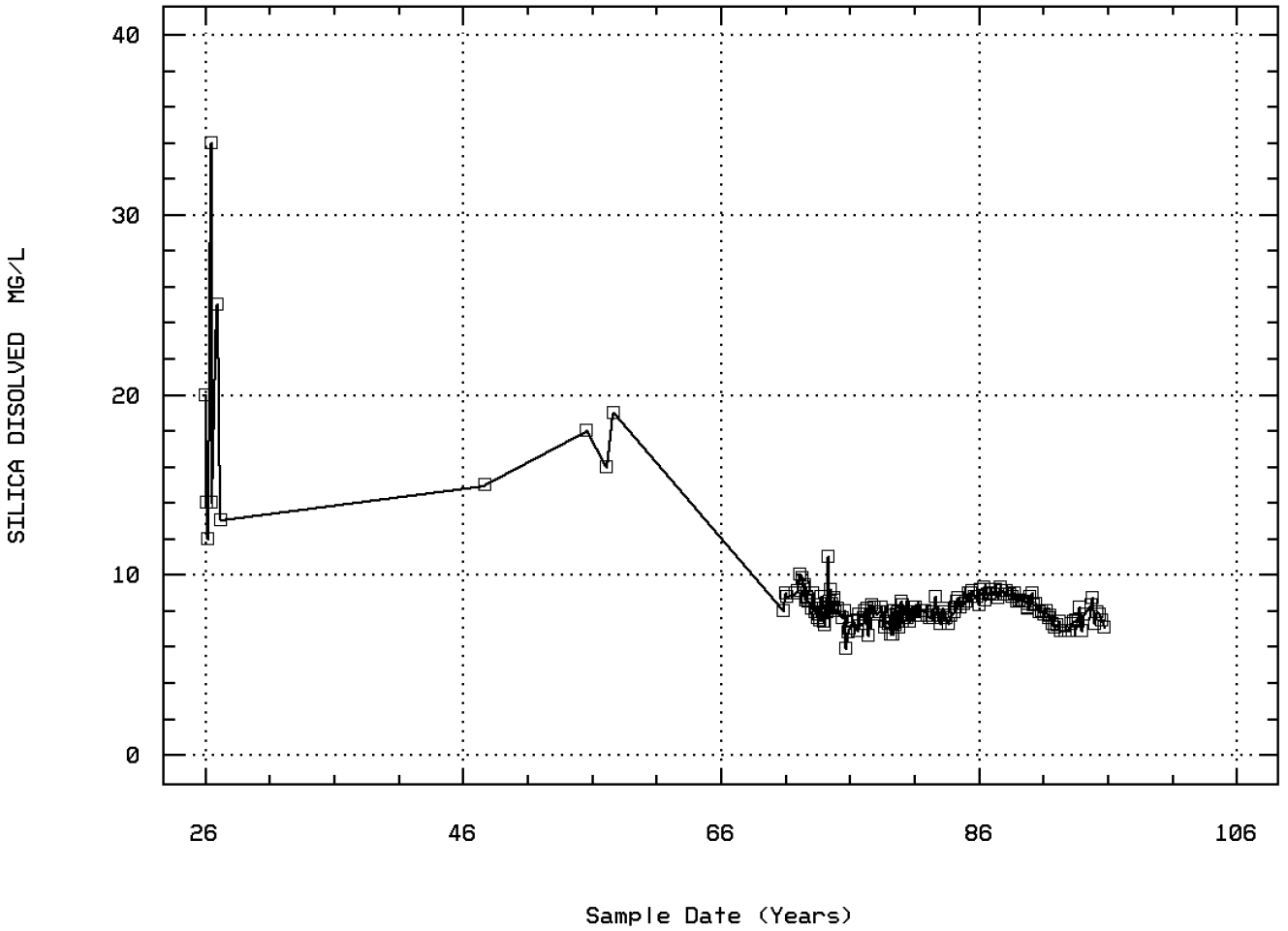
FLUORIDE, DISSOLVED (MG/L AS F)



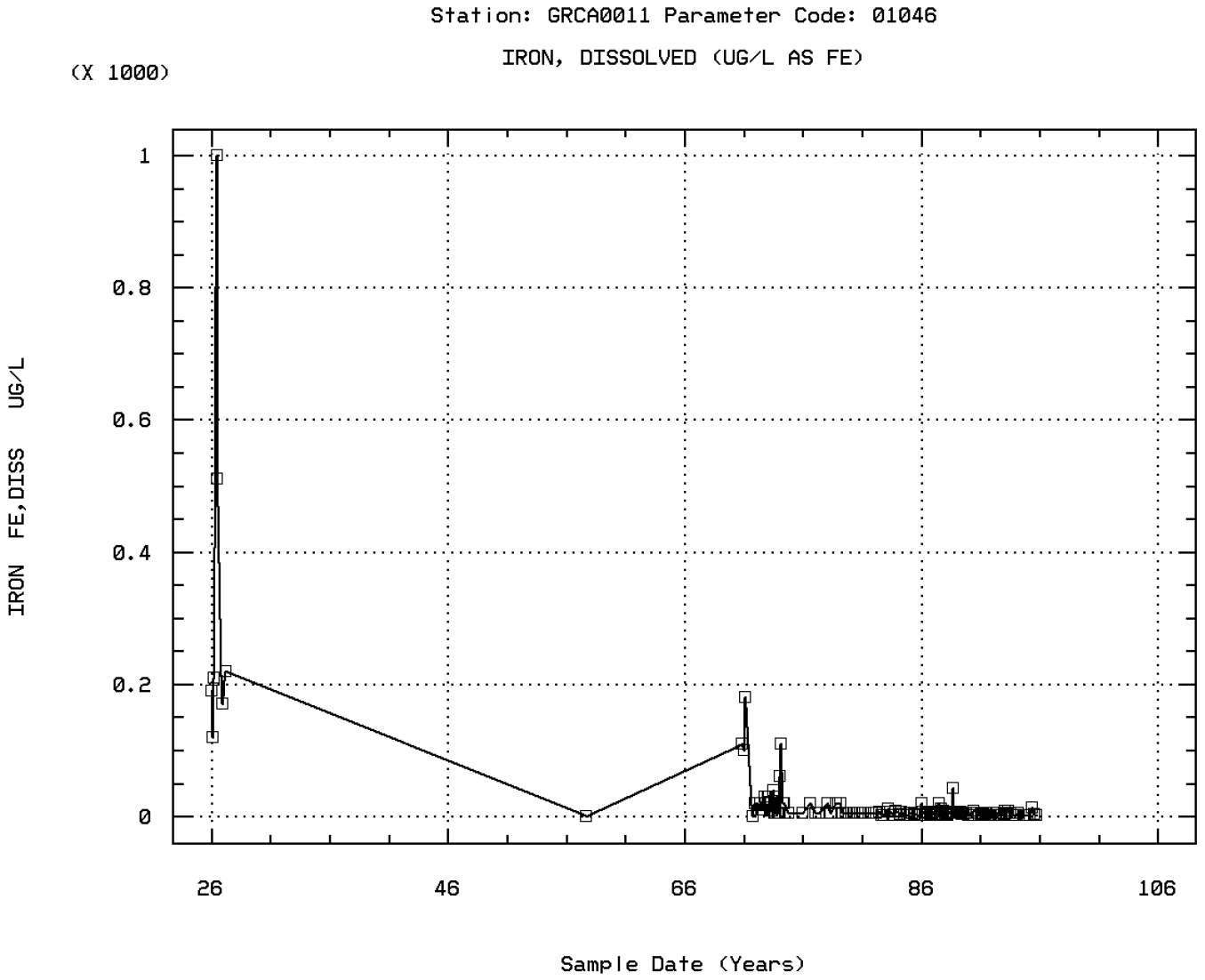
COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00955

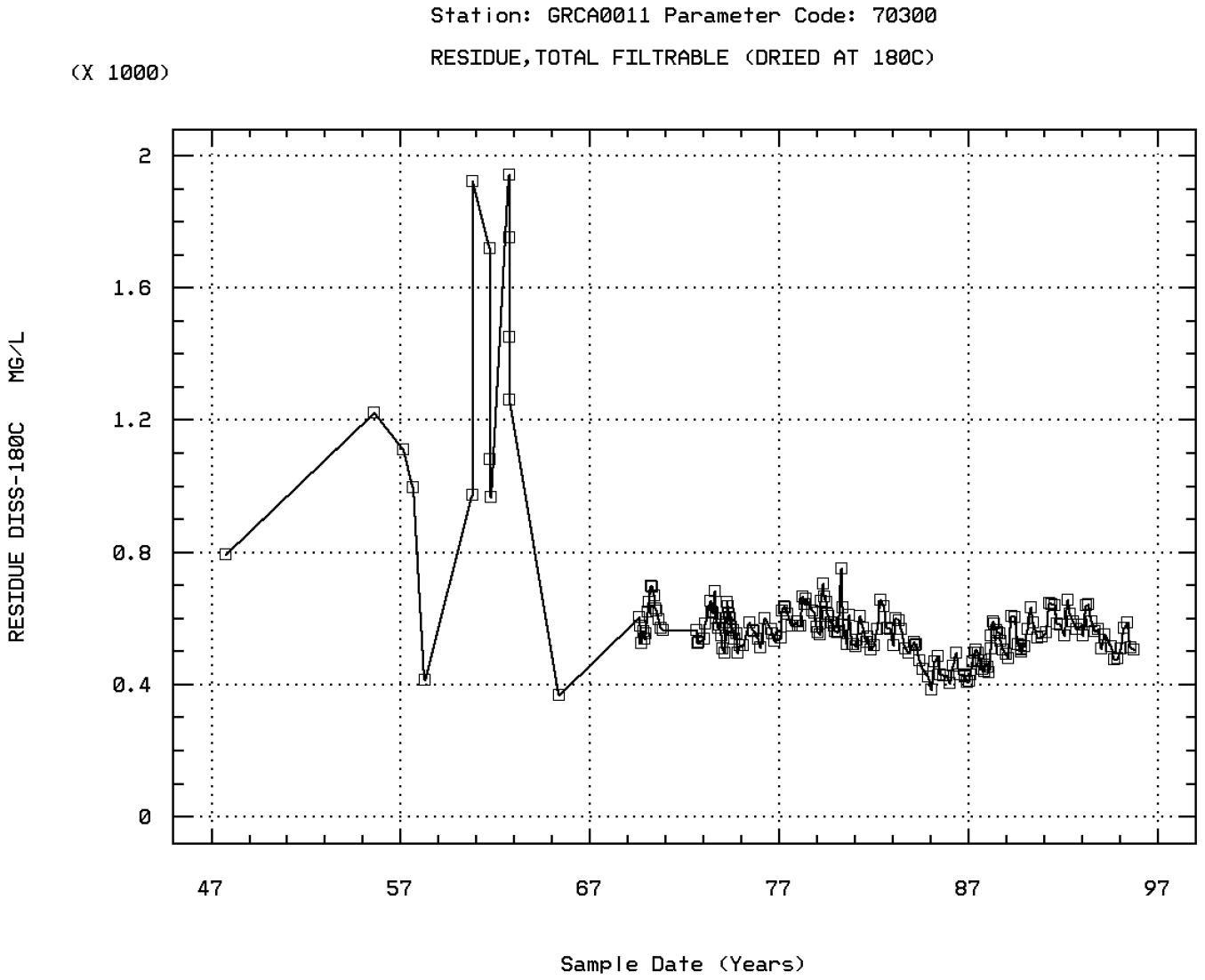
SILICA, DISSOLVED (MG/L AS SI02)



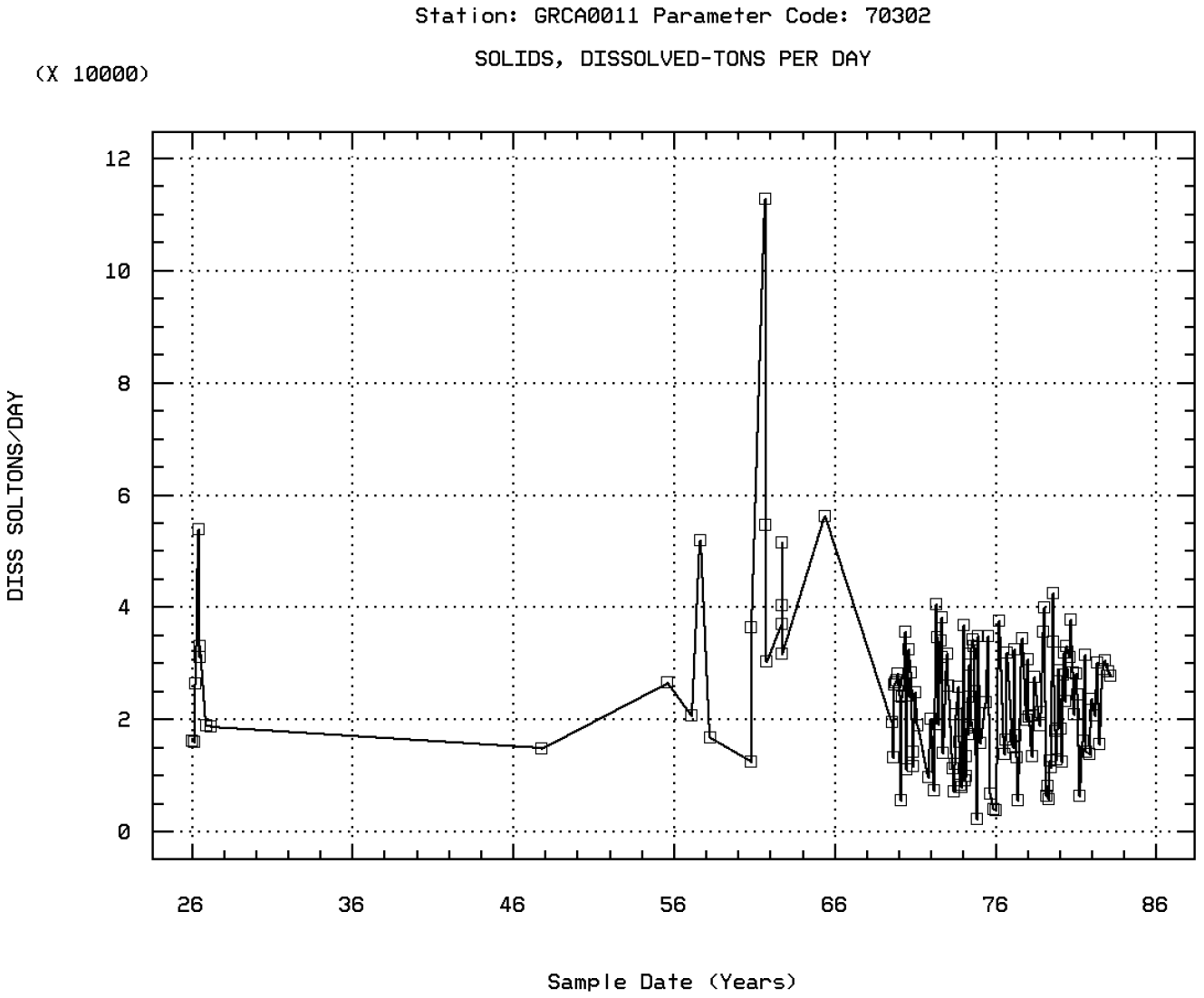
COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.



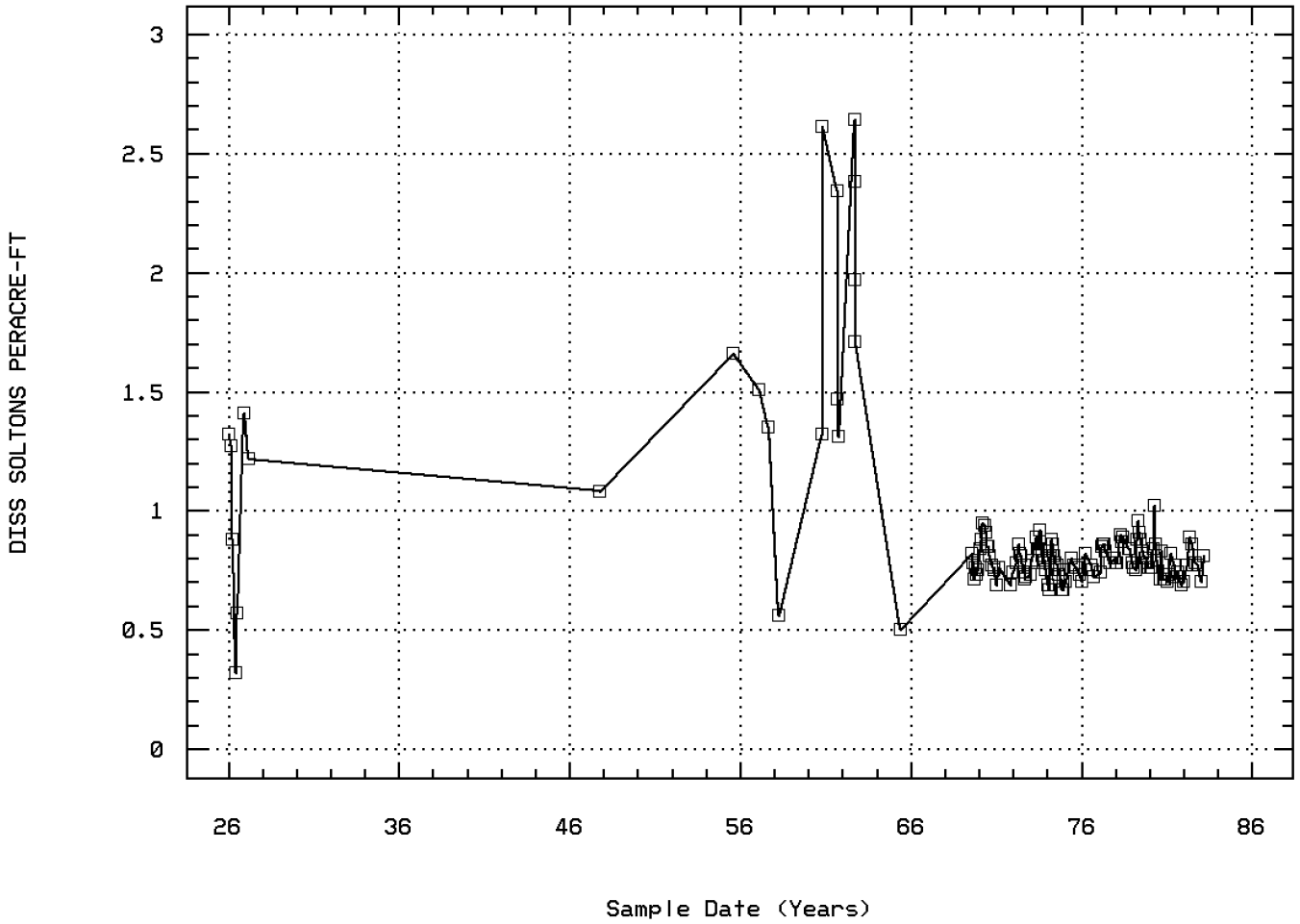
COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 70303

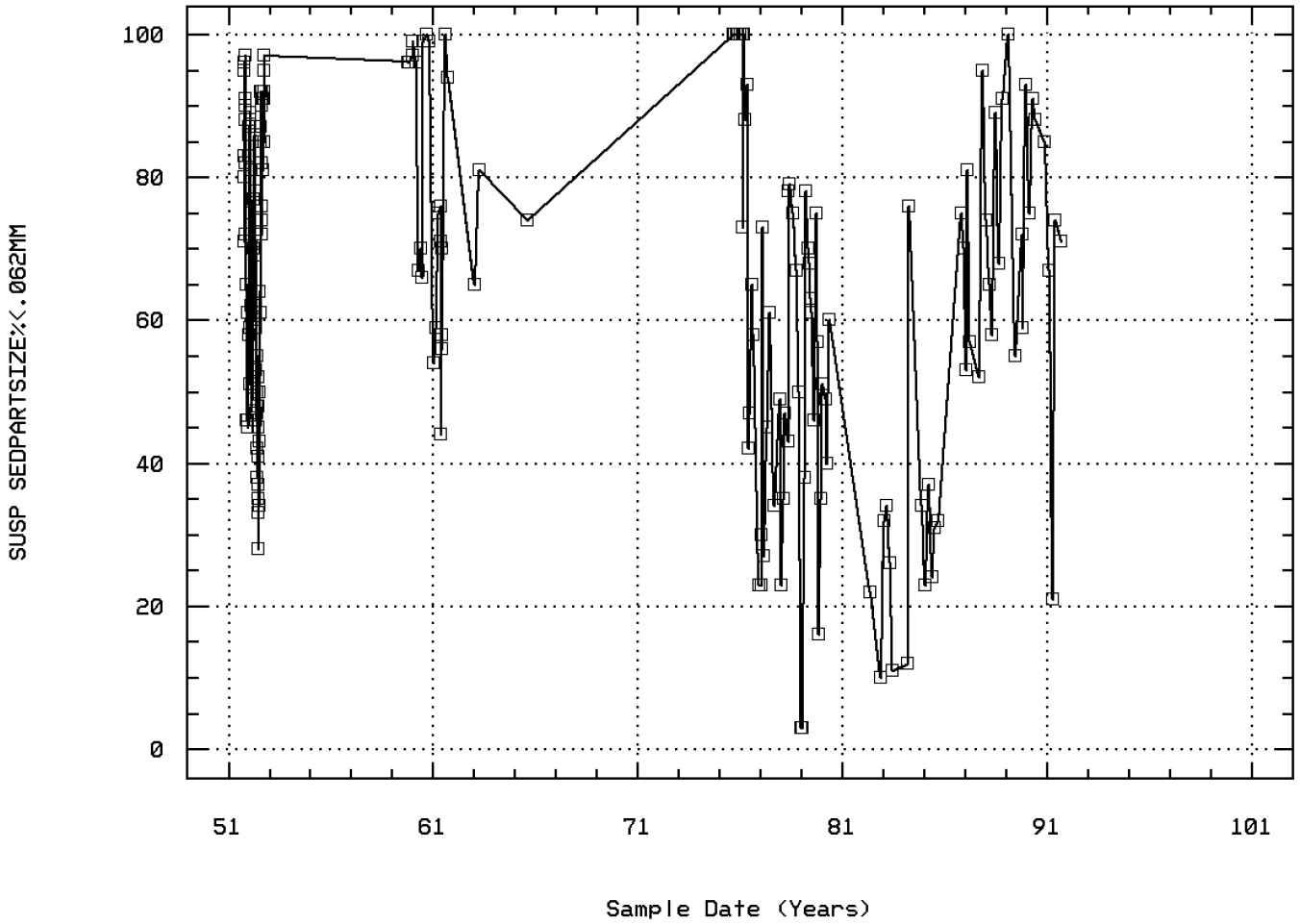
SOLIDS, DISSOLVED-TONS PER ACRE-FT



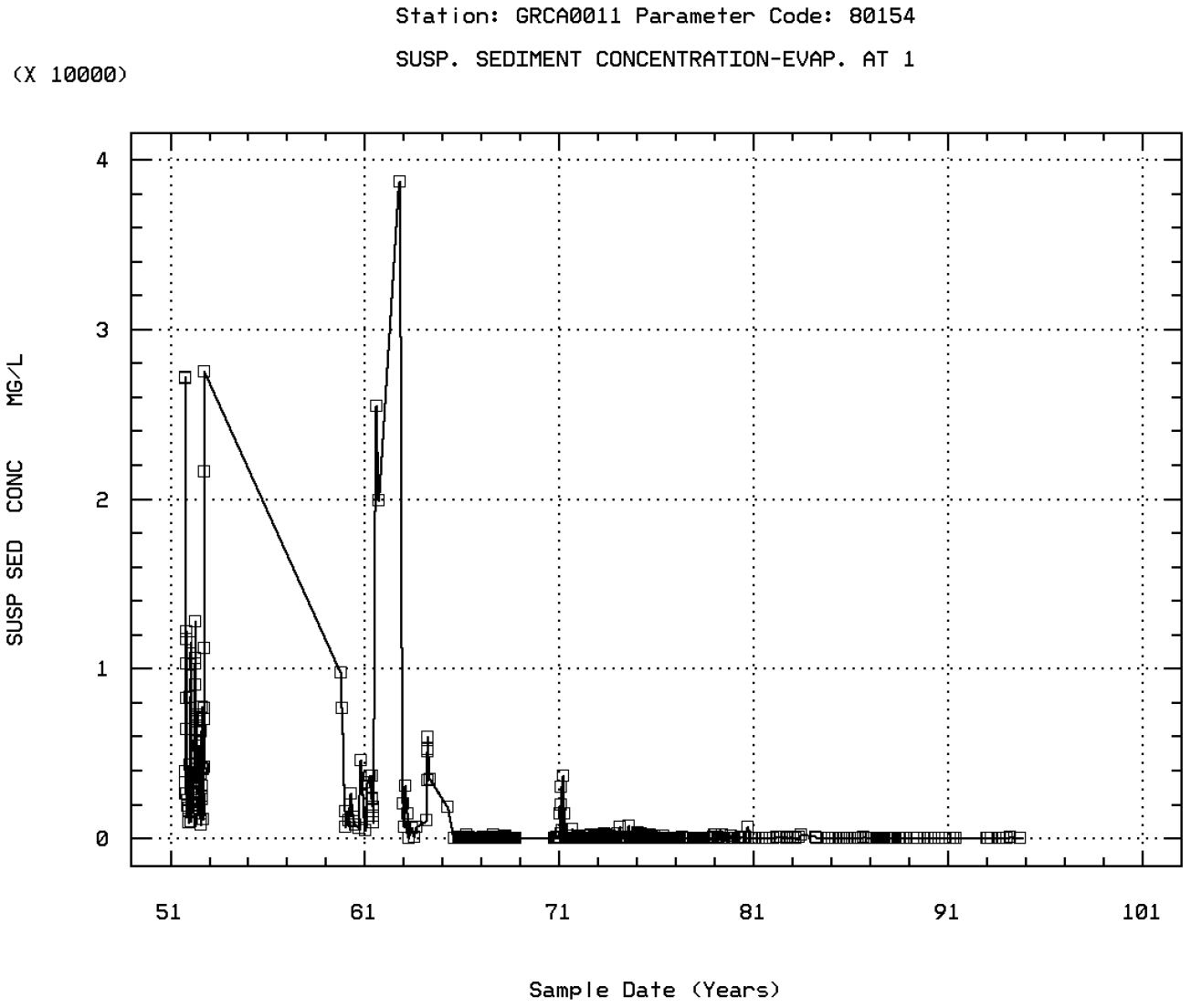
COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 70331

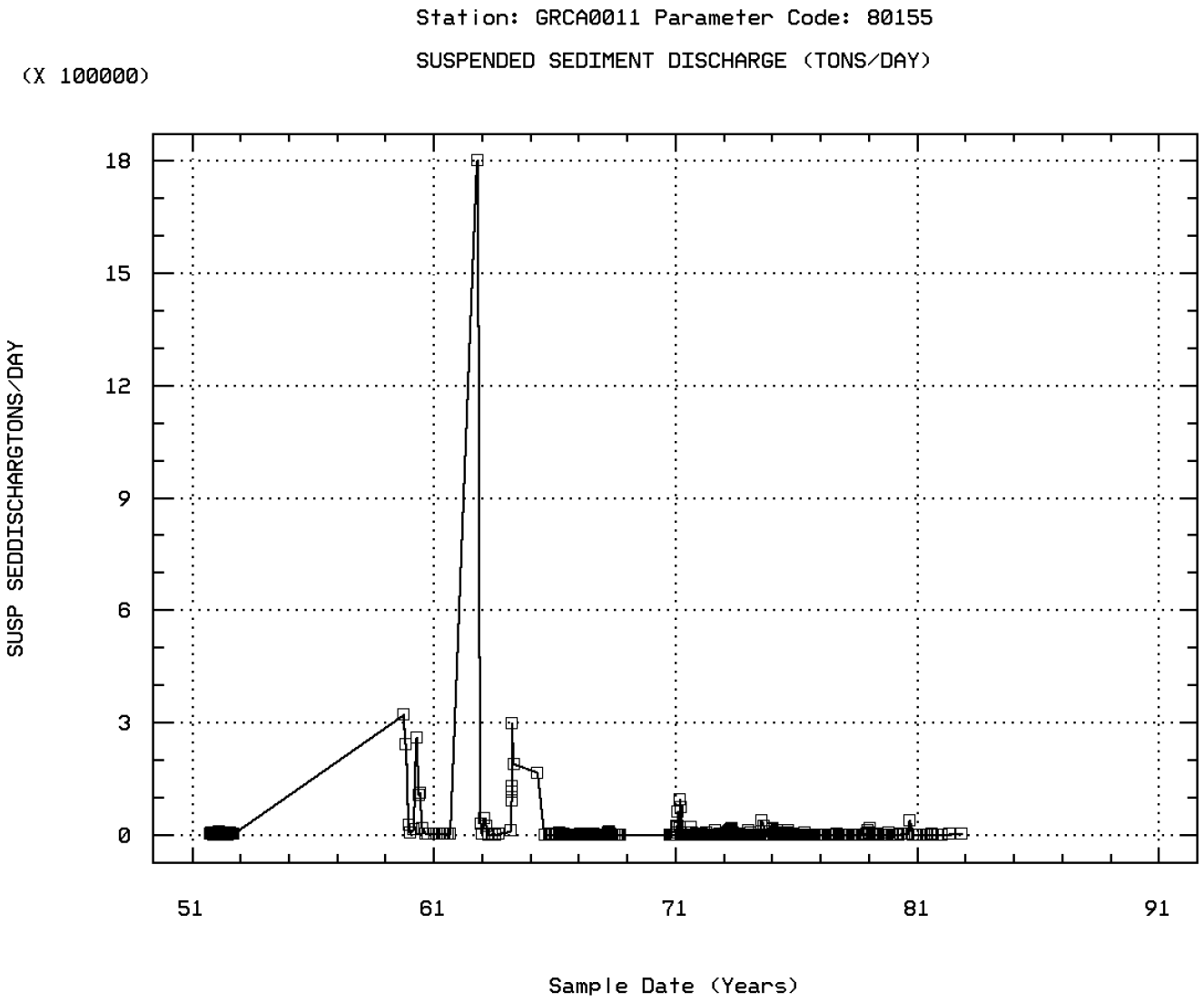
SUSPENDED SED SIEVE DIAMETER,% FINER TH



COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.

Annual Analysis for 1926 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	7	15100.	24077.143	77500.	6170.	651407023.81	25522.677	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	7	154.	141.286	176.	103.	1119.905	33.465	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	7	276.	312.857	470.	156.	16589.143	128.799	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	7	122.	171.429	294.	42.	9851.619	99.255	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	7	66.	78.286	109.	46.	700.238	26.462	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	7	27.	28.571	48.	10.	238.286	15.437	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	5	109.	103.8	161.	50.	2733.7	52.285	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	5	2.9	2.44	3.2	1.5	0.748	0.865	**	**	**	**
00932	SODIUM, PERCENT	01/11/26-03/02/83	7	42.	37.857	45.	26.	48.476	6.962	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	5	7.4	5.68	8.5	2.1	10.852	3.294	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	7	57.	63.571	114.	12.	1777.286	42.158	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	7	273.	286.	461.	76.	22714.	150.712	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	6	17.	19.833	34.	12.	71.367	8.448	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	7	645.	666.571	1040.	238.	101693.952	318.895	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	7	26300.	27885.714	53800.	16000.	178578095.238	13363.312	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	7	0.88	0.906	1.41	0.32	0.188	0.434	**	**	**	**

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

Annual Analysis for 1927 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	1	7710.	7710.	7710.	7710.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	1	169.	169.	169.	169.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	1	396.	396.	396.	396.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	1	228.	228.	228.	228.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	1	93.	93.	93.	93.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	1	141.	141.	141.	141.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	01/11/26-03/02/83	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	1	99.	99.	99.	99.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	1	398.	398.	398.	398.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	1	13.	13.	13.	13.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	1	895.	895.	895.	895.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	1	18600.	18600.	18600.	18600.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	1	1.22	1.22	1.22	1.22	0.	0.	**	**	**	**

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

Annual Analysis for 1944 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	1	63200.	63200.	63200.	63200.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	1	607.	607.	607.	607.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	1	96.	96.	96.	96.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	1	181.	181.	181.	181.	0.	0.	**	**	**	**

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

Annual Analysis for 1947 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	1	6933.	6933.	6933.	6933.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	1	1140.	1140.	1140.	1140.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	1	463.	463.	463.	463.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	1	321.	321.	321.	321.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	1	118.	118.	118.	118.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	1	41.	41.	41.	41.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	01/11/26-03/02/83	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	1	68.	68.	68.	68.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	1	380.	380.	380.	380.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	1	15.	15.	15.	15.	0.	0.	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	1	791.	791.	791.	791.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	1	14800.	14800.	14800.	14800.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	1	1.08	1.08	1.08	1.08	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 box-and-whisker plot

Annual Analysis for 1951 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	22	9370.	9263.182	13100.	4560.	7618937.013	2760.242	5888.	6750.	12325.	12900.
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	21	88.	79.667	97.	45.	310.433	17.619	46.	68.	95.	95.8
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	21	8260.	10955.857	27200.	953.	101363064.429	10067.923	1672.	2410.	19650.	27200.
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	22	2930.	2910.	5150.	1250.	887590.476	942.12	1617.	2035.	3375.	4221.

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	77	16800.	39790.519	115000.	4320.	1330418718.148	36474.905	7852.	10000.	71350.	100240.
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	77	69.	67.325	97.	28.	351.485	18.748	41.8	51.	85.	91.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	72	4055.	5542.639	27500.	766.	19954447.192	4467.04	1659.	2700.	7247.5	10510.
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	74	3810.	3755.405	8320.	1330.	1630912.847	1277.072	2165.	2857.5	4475.	5475.

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	1	8060.	8060.	8060.	8060.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	1	1630.	1630.	1630.	1630.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	1	197.	197.	197.	197.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	1	643.	643.	643.	643.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	1	446.	446.	446.	446.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	1	172.	172.	172.	172.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	01/11/26-03/02/83	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	1	88.	88.	88.	88.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	1	621.	621.	621.	621.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	1	18.	18.	18.	18.	0.	0.	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	1	1220.	1220.	1220.	1220.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	1	26550.	26550.	26550.	26550.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	1	1.66	1.66	1.66	1.66	0.	0.	**	**	**	**

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

Annual Analysis for 1957 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	2	13085.	13085.	19300.	6870.	77252450.	8789.337	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	2	1640.	1640.	1700.	1580.	7200.	84.853	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	2	8.2	8.2	8.7	7.7	0.5	0.707	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	2	7.96	7.96	8.7	7.7	0.616	0.785	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	2	0.011	0.011	0.02	0.002	0.	0.013	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	2	170.	170.	181.	159.	242.	15.556	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	2	511.	511.	518.	504.	98.	9.899	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	2	342.	342.	360.	324.	648.	25.456	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	2	125.	125.	127.	123.	8.	2.828	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	2	48.5	48.5	49.	48.	0.5	0.707	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	1	181.	181.	181.	181.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	2	3.	3.	3.5	2.5	0.5	0.707	**	**	**	**
00932	SODIUM, PERCENT	01/11/26-03/02/83	2	39.5	39.5	43.	36.	24.5	4.95	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	2	162.5	162.5	187.	138.	1200.5	34.648	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	2	432.5	432.5	437.	428.	40.5	6.364	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	2	17.5	17.5	19.	16.	4.5	2.121	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	2	1052.5	1052.5	1110.	995.	6612.5	81.317	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	1	1110.	1110.	1110.	1110.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	2	36220.	36220.	51850.	20590.	488593800.	22104.158	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	2	1.43	1.43	1.51	1.35	0.013	0.113	**	**	**	**

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

Annual Analysis for 1958 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	1	15000.	15000.	15000.	15000.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	1	587.	587.	587.	587.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	1	146.	146.	146.	146.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	1	221.	221.	221.	221.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	1	75.	75.	75.	75.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	1	64.	64.	64.	64.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	1	23.	23.	23.	23.	0.	0.	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	1	413.	413.	413.	413.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	1	16730.	16730.	16730.	16730.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	1	0.56	0.56	0.56	0.56	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	3	8.9	8.533	13.9	2.8	30.903	5.559	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	3	11700.	10123.333	12100.	6570.	9509633.333	3083.769	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	3	11700.	10123.333	12100.	6570.	9509633.333	3083.769	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	3	96.	96.333	97.	96.	0.333	0.577	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	3	7660.	6330.	9780.	1550.	18259900.	4273.16	**	**	**	**
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	3	242000.	196500.	320000.	27500.	22941750000.	151465.343	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	8	15.3	14.388	27.2	0.	111.741	10.571	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	9	7010.	15655.556	41100.	2460.	251335302.778	15853.558	2460.	3980.	34050.	41100.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	9	5440.	15221.111	41100.	2460.	261433211.111	16168.896	2460.	3240.	34050.	41100.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	2	1915.	1915.	2430.	1400.	530450.	728.32	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	2	7.7	7.7	7.8	7.6	0.02	0.141	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	2	7.689	7.689	7.8	7.6	0.02	0.142	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	2	0.02	0.02	0.025	0.016	0.	0.007	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	2	722.5	722.5	960.	485.	112812.5	335.876	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	2	536.	536.	766.	306.	105800.	325.269	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	2	215.	215.	296.	134.	13122.	114.551	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	2	45.5	45.5	54.	37.	144.5	12.021	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	2	181.	181.	236.	126.	6050.	77.782	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	2	2.9	2.9	3.3	2.5	0.32	0.566	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	2	1446.	1446.	1920.	972.	449352.	670.337	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	2	24365.1	24365.1	36340.1	12390.1	286801250.	16935.207	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	2	1.965	1.965	2.61	1.32	0.832	0.912	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	9	99.	88.333	100.	66.	242.5	15.572	66.	68.5	99.	100.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	9	1010.	1457.333	4590.	580.	1777556.	1333.25	580.	632.	1935.	4590.
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	8	16750.	65513.75	260000.	3230.	8237999255.357	90763.425	**	**	**	**

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

Annual Analysis for 1961 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	3	18700.	18200.	24300.	11600.	40510000.	6364.747	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	12	20600.	20747.5	34400.	3850.	126867784.091	11263.56	4888.	9357.5	32425.	34400.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	3	1430.	1630.	2110.	1350.	174400.	417.612	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	3	7.9	7.633	7.9	7.1	0.213	0.462	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	3	7.9	7.458	7.9	7.1	0.26	0.51	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	3	0.013	0.035	0.079	0.013	0.001	0.039	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	3	585.	675.333	915.	526.	43950.333	209.643	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	3	346.	442.333	690.	291.	46760.333	216.241	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	3	184.	214.333	298.	161.	5382.333	73.364	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	3	31.	34.333	42.	30.	44.333	6.658	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	3	105.	117.	150.	96.	837.	28.931	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	3	2.	1.967	2.2	1.7	0.063	0.252	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	3	1080.	1255.333	1720.	966.	165185.333	406.43	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	3	54530.1	65863.733	112801.	30260.1	1799588476.603	42421.557	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	3	1.47	1.707	2.34	1.31	0.307	0.554	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	12	64.5	67.75	100.	44.	278.75	16.696	47.	56.	75.75	98.2
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	12	2345.	5585.417	25500.	443.	66349016.447	8145.491	586.7	1455.	3677.5	23820.
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	12	3305.	3323.333	4120.	2230.	350224.242	591.797	2353.	2990.	3942.5	4102.

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	2	9.7	9.7	14.4	5.	44.18	6.647	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	7	9270.	9564.286	17200.	5200.	15417861.905	3926.559	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	5	2320.	2178.	2400.	1810.	75420.	274.627	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	5	7.4	7.5	7.8	7.2	0.06	0.245	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	5	7.4	7.447	7.8	7.2	0.063	0.252	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	5	0.04	0.036	0.063	0.016	0.	0.019	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	5	905.	827.	910.	670.	13020.	114.105	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	5	692.	612.8	714.	430.	17483.2	132.224	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	5	260.	237.4	265.	194.	1132.8	33.657	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	5	59.	57.2	64.	45.	63.7	7.981	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	5	212.	202.8	230.	166.	909.2	30.153	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	5	3.1	3.06	3.3	2.8	0.063	0.251	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	5	1750.	1668.	1940.	1260.	92170.	303.595	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	5	36880.1	39424.1	51500.1	31540.1	55433480.	7445.366	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	5	2.38	2.268	2.64	1.71	0.172	0.415	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	2	20365.	20365.	38700.	2030.	672344450.	25929.606	**	**	**	**
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	2	914250.	914250.	1800000.	28500.	**********	1252639.663	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	11	14.4	13.218	20.	0.6	48.898	6.993	0.92	7.2	19.4	20.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	11	1020.	2099.091	5970.	1000.	3354529.091	1831.537	1002.	1010.	2500.	5832.
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	2	73.	73.	81.	65.	128.	11.314	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	7	651.	932.429	3050.	36.	1099432.952	1048.538	**	**	**	**
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	7	3990.	11033.286	43500.	98.	271554445.571	16478.909	**	**	**	**

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

Annual Analysis for 1964 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	6	8.05	7.95	8.3	7.2	0.195	0.442	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	6	10890.	11886.667	20100.	4030.	41915266.667	6474.2	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	6	4310.	4046.667	5930.	1080.	3125666.667	1767.956	**	**	**	**
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	6	123000.	139933.333	299000.	11800.	9430010666.667	97108.242	**	**	**	**

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

Annual Analysis for 1965 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	9	17.2	16.789	20.6	9.4	11.986	3.462	9.4	15.3	20.	20.6
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	10	12450.	17539.	56600.	6000.	246380543.333	15696.514	6149.	9372.5	18450.	54300.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	1	614.	614.	614.	614.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	1	115.	115.	115.	115.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	1	208.	208.	208.	208.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	1	93.	93.	93.	93.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	1	154.	154.	154.	154.	0.	0.	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	1	368.	368.	368.	368.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	1	56240.	56240.	56240.	56240.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	1	74.	74.	74.	74.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	8	10.5	241.375	1810.	4.	402125.696	634.134	**	**	**	**
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	8	248.	20922.125	164000.	65.	3342553924.696	57814.824	**	**	**	**

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

Annual Analysis for 1966 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	33	14.4	14.412	20.6	8.9	11.781	3.432	10.6	11.1	17.8	19.2
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	35	12100.	11302.	18200.	2860.	16330310.588	4041.078	5112.	8380.	14400.	16100.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	35	7.	19.743	190.	1.	1938.726	44.031	1.	3.	12.	44.6
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	35	174.	612.629	6210.	33.	1693611.711	1301.388	35.2	62.	350.	1770.

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Annual Analysis for 1967 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	46	11.1	12.687	21.1	5.6	29.395	5.422	6.7	7.65	18.9	20.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	47	11400.	10934.468	18200.	1630.	18262773.08	4273.497	4092.	8700.	14400.	16460.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	46	7.	18.304	177.	1.	998.128	31.593	1.7	3.	13.	56.8
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	46	194.	577.804	3870.	23.	847922.383	920.827	29.1	57.	522.	2145.

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

Annual Analysis for 1968 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	28	13.	13.393	23.	7.	29.21	5.405	7.	8.	19.	21.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	28	14450.	13942.5	23600.	2790.	28744597.222	5361.399	6239.	9675.	18175.	21600.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	28	6.	17.5	145.	1.	979.444	31.296	2.	3.	20.	44.
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	28	156.5	879.929	8420.	19.	3473365.847	1863.697	43.1	71.25	786.75	2430.

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Annual Analysis for 1969 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	4	16.5	16.55	18.	15.2	1.477	1.215	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	6	18000.	15631.667	18700.	8490.	18791216.667	4334.884	**	**	**	**

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Annual Analysis for 1969 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	3	18600.	18300.	18700.	17600.	370000.	608.276	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	8	835.	843.25	923.	795.	1448.5	38.059	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	2	7.65	7.65	8.	7.3	0.245	0.495	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	9	7.8	7.767	8.2	6.5	0.255	0.505	6.5	7.75	8.1	8.2
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	9	7.8	7.333	8.2	6.5	0.467	0.683	6.5	7.75	8.1	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	9	0.016	0.047	0.316	0.006	0.01	0.101	0.006	0.008	0.018	0.316
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	6	130.5	131.5	139.	126.	22.7	4.764	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	6	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	6	276.5	278.833	300.	268.	137.767	11.737	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	6	146.5	147.5	161.	138.	58.7	7.662	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	6	69.	69.667	76.	66.	13.067	3.615	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	6	25.5	25.833	27.	25.	0.967	0.983	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	6	71.5	72.333	78.	67.	17.067	4.131	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	6	1.9	1.883	2.	1.8	0.006	0.075	**	**	**	**
00932	SODIUM, PERCENT	01/11/26-03/02/83	6	36.	35.667	36.	35.	0.267	0.516	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	6	3.65	3.717	4.2	3.4	0.074	0.271	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	6	48.5	49.	54.	45.	8.8	2.966	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	6	227.	227.667	244.	215.	142.667	11.944	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	6	556.5	558.667	603.	525.	780.267	27.933	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	2	556.5	556.5	566.	547.	180.5	13.435	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	6	26350.	23383.383	28000.	13200.1	34037244.67	5834.145	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	6	0.755	0.758	0.82	0.71	0.001	0.039	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	4	11.9	11.775	15.3	8.	11.843	3.441	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	27	10000.	11082.222	20200.	3210.	19452502.564	4410.499	6282.	7860.	14000.	18660.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	7	14400.	13585.714	20200.	3210.	43960461.905	6630.269	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	22	940.	947.727	1080.	780.	6731.827	82.048	848.4	898.75	1000.	1080.
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	2	7.5	7.5	7.9	7.1	0.32	0.566	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	22	8.	7.777	8.1	6.2	0.329	0.574	6.5	7.9	8.1	8.1
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	22	8.	7.177	8.1	6.2	0.707	0.841	6.5	7.9	8.1	8.1
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	22	0.01	0.067	0.631	0.008	0.024	0.155	0.008	0.008	0.013	0.316
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	19	134.	136.789	149.	124.	71.509	8.456	126.	130.	143.	149.
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	19	312.	312.737	350.	270.	656.982	25.632	280.	294.	326.	350.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	20	175.	175.35	201.	140.	307.713	17.542	154.	164.	186.	201.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	19	78.	77.947	90.	68.	43.497	6.595	70.	72.	81.	90.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	19	29.	28.684	33.	23.	6.895	2.626	25.	28.	30.	33.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	19	82.	85.	98.	75.	67.778	8.233	75.	78.	90.	98.
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	19	2.1	2.095	2.3	1.9	0.018	0.135	1.9	2.	2.2	2.3
00932	SODIUM, PERCENT	01/11/26-03/02/83	19	36.	36.632	38.	36.	0.579	0.761	36.	36.	37.	38.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	19	3.9	3.868	4.5	3.4	0.11	0.332	3.4	3.7	4.	4.5
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	19	56.	61.	75.	50.	80.	8.944	51.	55.	68.	75.
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	19	258.	263.895	298.	230.	470.877	21.7	240.	252.	282.	298.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	18	627.	634.5	698.	562.	2067.324	45.468	568.3	595.	673.75	698.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	1	550.	550.	550.	550.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	19	24200.	22332.637	35500.	5610.	92590684.55	9622.405	5610.	11700.	28300.	35500.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	19	0.85	0.856	0.95	0.75	0.004	0.066	0.76	0.81	0.91	0.95
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	14	22.5	24.571	47.	5.	164.264	12.817	8.5	13.75	35.5	44.5

** - 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 1970 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	14	575.	591.214	1240.	135.	104964.643	323.982	218.	330.	751.25	1220.

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	12	10.	9.967	13.	7.6	3.584	1.893	7.72	8.05	11.825	12.7
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	54	14150.	13392.222	25000.	3900.	17308613.836	4160.362	7355.	10750.	16450.	17600.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	12	829.	857.5	1020.	760.	6608.636	81.294	765.7	800.	915.5	1005.
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	8	8.2	8.112	9.	6.5	0.687	0.829	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	12	6.5	6.875	8.	6.	0.628	0.792	6.	6.125	7.8	7.97
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	12	6.5	6.434	8.	6.	0.84	0.916	6.	6.125	7.8	7.97
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	12	0.316	0.368	1.	0.01	0.162	0.403	0.011	0.016	0.829	1.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	4	127.	126.75	133.	120.	28.917	5.377	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	4	0.75	0.675	1.1	0.1	0.176	0.419	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	4	270.	272.5	300.	250.	491.667	22.174	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	4	138.5	144.25	170.	130.	358.917	18.945	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	4	68.	68.5	77.	61.	43.	6.557	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	4	24.	24.25	27.	22.	4.917	2.217	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	4	69.	71.75	85.	64.	86.25	9.287	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	4	1.85	1.9	2.2	1.7	0.06	0.245	**	**	**	**
00932	SODIUM, PERCENT	01/11/26-03/02/83	4	36.5	36.	39.	32.	10.	3.162	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	4	3.75	4.375	6.7	3.3	2.489	1.578	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	4	51.	51.	58.	44.	56.667	7.528	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	4	220.	222.5	230.	220.	25.	5.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	4	0.4	0.4	0.6	0.2	0.033	0.183	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	4	9.	8.975	9.1	8.8	0.016	0.126	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	4	95.	180.	450.	80.	32466.667	180.185	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	4	526.5	531.	562.	509.	676.667	26.013	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	4	19450.	18330.	24800.	9620.	40359600.	6352.921	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	4	0.715	0.72	0.76	0.69	0.001	0.036	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	42	13.5	322.619	3640.	3.	649151.9	805.7	5.	8.	117.	1464.
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	42	506.	8345.357	93400.	91.	417121387.991	20423.55	185.5	256.75	5175.	23400.

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Annual Analysis for 1972 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	14	10.	9.986	12.	7.	1.841	1.357	7.9	9.	11.	12.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	50	14650.	14217.8	25000.	3350.	30998915.469	5567.667	6463.	9755.	17925.	21860.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	4	11425.	11835.	22000.	2490.	65317900.	8081.949	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	14	853.	862.	968.	750.	4089.692	63.951	755.	824.5	917.	958.
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	5	7.	7.58	9.6	6.	3.092	1.758	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	13	7.7	7.562	7.9	6.5	0.171	0.413	6.7	7.4	7.8	7.9
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	13	7.7	7.296	7.9	6.5	0.247	0.497	6.7	7.4	7.8	7.9
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	13	0.02	0.051	0.316	0.013	0.007	0.084	0.013	0.016	0.044	0.23
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	8	131.	131.25	139.	124.	39.929	6.319	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	8	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	8	0.65	0.675	0.9	0.4	0.025	0.158	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	8	285.	286.25	310.	260.	369.643	19.226	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	8	150.	155.	180.	140.	200.	14.142	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	8	71.5	73.	80.	67.	24.571	4.957	**	**	**	**

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Annual Analysis for 1972 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	8	24.5	25.	28.	23.	3.429	1.852	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	8	76.	77.	92.	67.	60.286	7.764	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	8	2.	2.	2.3	1.8	0.023	0.151	**	**	**	**
00932	SODIUM, PERCENT	01/11/26-03/02/83	8	36.5	36.5	38.	35.	0.857	0.926	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	8	3.65	3.688	4.1	3.2	0.081	0.285	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	8	52.	51.625	61.	42.	44.268	6.653	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	8	240.	245.	270.	220.	285.714	16.903	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	8	0.4	0.463	1.4	0.1	0.154	0.393	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	8	9.05	9.138	10.	8.5	0.326	0.571	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	8	90.	85.	120.	0.	1285.714	35.857	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	3	528.	538.667	564.	524.	485.333	22.03	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	8	558.5	566.75	633.	510.	1705.643	41.299	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	8	32500.	27316.25	40500.	7330.	149618398.214	12231.86	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	8	0.775	0.776	0.86	0.71	0.003	0.052	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	40	12.5	29.3	232.	1.	2088.985	45.705	4.	5.25	33.5	99.7
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	40	403.5	1166.15	10600.	31.	4205670.079	2050.773	102.7	176.	1272.5	3444.

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Annual Analysis for 1973 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	12	8.	8.458	10.5	7.	1.43	1.196	7.15	7.5	9.5	10.35
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	30	9840.	13105.333	29300.	2910.	61290977.471	7828.855	5747.	7530.	18350.	27650.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	12	8780.	11412.5	30000.	2450.	68394002.273	8270.067	2975.	5282.5	16300.	27570.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	12	883.	882.75	1000.	800.	2628.568	51.27	810.2	841.	910.75	976.6
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	2	8.	8.	9.	7.	2.	1.414	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	12	7.95	7.883	8.4	7.3	0.129	0.359	7.3	7.6	8.175	8.34
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	12	7.947	7.74	8.4	7.3	0.151	0.389	7.3	7.6	8.175	8.34
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	12	0.011	0.018	0.05	0.004	0.	0.016	0.005	0.007	0.025	0.05
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	10	133.	131.4	138.	122.	24.489	4.949	122.4	126.75	134.5	137.8
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	10	0.	1.5	15.	0.	22.5	4.743	0.	0.	0.	13.5
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	10	0.5	0.53	0.6	0.5	0.002	0.048	0.5	0.5	0.6	0.6
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	10	290.	285.	310.	250.	272.222	16.499	252.	277.5	292.5	309.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	10	155.	153.	170.	130.	134.444	11.595	131.	147.5	160.	169.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	10	75.	73.	79.	63.	21.333	4.619	63.6	70.5	75.5	78.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	10	25.	24.8	27.	23.	1.067	1.033	23.1	24.	25.	26.8
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	10	74.5	75.	82.	70.	12.444	3.528	70.2	72.	78.	81.6
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	10	1.95	1.94	2.	1.8	0.005	0.07	1.81	1.9	2.	2.
00932	SODIUM, PERCENT	01/11/26-03/02/83	10	36.	36.1	37.	35.	0.544	0.738	35.	35.75	37.	37.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	10	3.9	4.03	5.4	3.5	0.309	0.556	3.51	3.675	4.125	5.31
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	10	47.	47.	53.	42.	11.111	3.333	42.1	44.5	50.	52.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	10	240.	241.	260.	230.	121.111	11.005	230.	230.	250.	259.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	10	0.3	0.285	0.5	0.05	0.014	0.12	0.065	0.2	0.325	0.49
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	10	7.9	8.01	9.	7.4	0.277	0.526	7.41	7.575	8.275	8.98
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	10	90.	98.	170.	60.	884.444	29.74	62.	80.	105.	165.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	10	591.	598.1	680.	536.	1997.656	44.695	537.2	564.5	626.25	677.1
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	10	553.5	555.7	602.	523.	511.567	22.618	523.6	538.	567.75	598.8
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	10	13950.	16662.	31700.	7010.	78466906.667	8858.155	7096.	8147.5	25825.	31120.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	10	0.8	0.814	0.92	0.73	0.004	0.059	0.732	0.773	0.853	0.917
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	30	44.	73.567	244.	1.	5702.323	75.514	6.2	11.	140.5	195.3
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	30	823.	3530.899	18200.	26.	26545344.296	5152.217	161.2	247.25	5754.99	12930.

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Annual Analysis for 1974 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	17	8.	8.235	9.	7.	0.441	0.664	7.4	7.75	9.	9.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	28	11300.	12025.714	25000.	1610.	43349803.175	6584.057	2551.	6820.	18575.	20250.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	17	12900.	14381.765	26800.	1680.	53401202.941	7307.613	5168.	8700.	21500.	25360.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	15	860.	869.067	985.	772.	4347.781	65.938	781.6	800.	920.	971.2
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	3	8.	8.	8.	8.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	15	7.9	7.847	8.2	7.2	0.08	0.283	7.32	7.6	8.	8.2
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	15	7.9	7.746	8.2	7.2	0.091	0.301	7.32	7.6	8.	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	15	0.013	0.018	0.063	0.006	0.	0.015	0.006	0.01	0.025	0.049
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	15	135.	133.533	144.	121.	47.981	6.927	121.6	129.	138.	144.
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	9	0.31	0.308	0.52	0.18	0.01	0.099	0.18	0.23	0.35	0.52
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	9	0.55	0.552	0.77	0.38	0.011	0.106	0.38	0.505	0.595	0.77
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	15	0.5	0.533	0.7	0.3	0.011	0.105	0.36	0.5	0.6	0.7
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	9	0.01	0.015	0.03	0.005	0.	0.009	0.005	0.01	0.025	0.03
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	15	280.	279.333	310.	250.	420.952	20.517	250.	260.	290.	310.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	15	150.	146.667	170.	120.	209.524	14.475	126.	130.	160.	164.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	15	71.	70.867	78.	64.	20.838	4.565	64.	67.	75.	77.4
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	15	26.	25.133	28.	22.	4.267	2.066	22.	23.	26.	28.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	15	74.	73.133	85.	63.	49.552	7.039	64.2	66.	78.	85.
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	15	1.9	1.907	2.1	1.7	0.016	0.128	1.7	1.8	2.	2.1
00932	SODIUM, PERCENT	01/11/26-03/02/83	15	36.	35.8	37.	34.	1.029	1.014	34.	35.	37.	37.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	15	3.7	3.76	4.2	3.5	0.053	0.229	3.5	3.6	3.9	4.14
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	15	50.	48.6	58.	39.	38.971	6.243	39.6	44.	54.	58.
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	15	220.	228.	280.	200.	688.571	26.241	200.	200.	250.	274.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	15	0.3	0.273	0.4	0.1	0.006	0.08	0.16	0.2	0.3	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	15	8.2	8.42	11.	7.2	0.712	0.844	7.62	8.	8.6	9.92
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	15	90.	128.	670.	10.	23117.143	152.043	46.	90.	110.	340.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	15	573.	566.267	648.	493.	2396.352	48.953	493.6	516.	599.	640.2
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	15	537.	540.867	633.	484.	2431.41	49.309	487.	492.	575.	625.2
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	15	24000.	22534.667	36800.	2240.	117430183.81	10836.521	6302.	13300.	33100.	35600.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	16	0.775	0.763	0.88	0.67	0.005	0.069	0.67	0.692	0.81	0.866
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	25	10.	78.2	706.	2.	35236.417	187.714	3.	4.5	32.5	408.2
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	25	350.	3574.52	39500.	17.	80754171.564	8986.332	26.4	108.	1080.	16280.

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	6	9.5	9.25	10.	8.	0.675	0.822	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	35	14600.	13710.571	21500.	2680.	30378452.605	5511.665	4490.	9600.	19000.	20480.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	14	10950.	11894.286	23600.	2730.	48442857.143	6960.09	3580.	6725.	16600.	23250.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	5	780.	805.	890.	750.	3425.	58.523	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	6	8.	8.117	8.4	8.	0.034	0.183	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	6	8.	8.088	8.4	8.	0.035	0.186	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	6	0.01	0.008	0.01	0.004	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	5	131.	131.8	139.	126.	22.7	4.764	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	4	0.245	0.24	0.28	0.19	0.002	0.039	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	4	0.485	0.49	0.58	0.41	0.005	0.07	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	4	0.5	0.475	0.5	0.4	0.002	0.05	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	4 ##	0.008	0.013	0.03	0.005	0.	0.012	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	5	280.	270.	280.	250.	200.	14.142	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	5	140.	138.	150.	130.	70.	8.367	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	5	69.	67.8	71.	64.	7.7	2.775	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	5	25.	24.6	27.	23.	2.8	1.673	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	5	73.	73.	78.	69.	11.5	3.391	**	**	**	**

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Annual Analysis for 1975 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	5	1.9	1.92	2.	1.9	0.002	0.045	**	**	**	**
00932	SODIUM, PERCENT	01/11/26-03/02/83	5	37.	36.8	37.	36.	0.2	0.447	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	4	3.85	3.825	4.1	3.5	0.076	0.275	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	5	47.	47.6	54.	44.	17.3	4.159	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	5	220.	220.	240.	210.	150.	12.247	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	5	0.3	0.3	0.4	0.2	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	5	7.6	7.28	8.1	5.9	0.857	0.926	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	4	80.	77.5	90.	60.	158.333	12.583	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	5	559.	552.8	587.	518.	693.2	26.329	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	5	526.	525.8	566.	500.	688.2	26.234	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	5	15800.	16850.	34800.	3960.	157626300.	12554.931	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	5	0.76	0.752	0.8	0.7	0.001	0.038	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	4	100.	100.	100.	100.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	44	24.5	81.591	303.	2.	9108.247	95.437	7.	16.	148.75	251.
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	40	1170.	3212.899	17600.	38.	18825685.876	4338.858	198.8	498.5	5017.493	10872.999

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	12	9.75	9.583	12.	8.	1.402	1.184	8.	8.625	10.	11.7
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	3	16800.	16433.333	16900.	15600.	523333.333	723.418	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	29	12200.	12452.759	23200.	2730.	18604013.547	4313.237	7300.	10050.	14800.	17300.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	8	830.	856.875	950.	790.	3906.696	62.504	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	7	7.9	7.921	8.2	7.8	0.02	0.141	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	7	7.9	7.904	8.2	7.8	0.02	0.142	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	7	0.013	0.012	0.016	0.006	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	5	130.	129.4	139.	122.	42.3	6.504	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	4	0.38	0.355	0.42	0.24	0.007	0.083	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	5	0.52	0.57	0.75	0.39	0.021	0.144	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	5	0.5	0.54	0.7	0.4	0.013	0.114	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	5	0.01	0.012	0.02	0.005	0.	0.008	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	5	280.	276.	300.	250.	330.	18.166	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	5	150.	146.	160.	120.	280.	16.733	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	5	74.	70.4	74.	63.	26.3	5.128	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	5	24.	24.2	27.	22.	3.2	1.789	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	5	74.	75.6	89.	69.	60.3	7.765	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	5	1.9	2.	2.3	1.9	0.03	0.173	**	**	**	**
00932	SODIUM, PERCENT	01/11/26-03/02/83	5	37.	36.8	39.	35.	2.2	1.483	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	5	3.8	3.78	4.1	3.6	0.042	0.205	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	5	53.	51.6	58.	45.	26.3	5.128	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	5	220.	222.	240.	200.	220.	14.832	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	5	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	5	7.4	7.32	7.8	6.9	0.137	0.37	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	5	90.	94.	110.	80.	130.	11.402	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	5	554.	552.4	600.	512.	1146.8	33.864	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	5	537.	535.4	586.	490.	1222.3	34.961	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	5	16300.	20636.	37600.	3780.	190861480.	13815.263	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	5	0.75	0.752	0.82	0.7	0.002	0.047	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	11	73.	71.727	100.	23.	722.018	26.87	26.8	47.	100.	100.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	36	10.	15.111	128.	1.	455.416	21.34	2.7	5.	18.	30.6
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	26	349.	670.654	5460.	23.	1108049.995	1052.64	133.	181.5	759.25	1367.

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Annual Analysis for 1977 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	15	10.	10.1	15.	8.	3.436	1.854	8.	9.	11.	13.2
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	18	10045.	10967.222	22100.	2060.	38544044.771	6208.385	3221.	5617.5	16325.	19760.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	7	14900.	12860.	22500.	2580.	49826800.	7058.81	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	7	905.	900.	945.	820.	2158.333	46.458	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	7	8.	7.929	8.3	7.5	0.059	0.243	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	7	8.	7.867	8.3	7.5	0.063	0.252	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	7	0.01	0.014	0.032	0.005	0.	0.009	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	7	140.	137.143	140.	130.	20.81	4.562	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	2	0.04	0.04	0.07	0.01	0.002	0.042	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	6	0.405	0.545	1.	0.25	0.114	0.338	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	7	0.58	0.594	0.76	0.46	0.009	0.092	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	5	0.6	0.56	0.6	0.5	0.003	0.055	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	7 ##	0.005	0.013	0.04	0.005	0.	0.013	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	7	300.	298.571	310.	280.	114.286	10.69	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	7	160.	158.571	170.	140.	114.286	10.69	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	7	74.	75.	81.	69.	15.667	3.958	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	7	27.	26.857	29.	25.	2.143	1.464	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	7	81.	79.571	89.	71.	46.952	6.852	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	7	2.	2.014	2.2	1.9	0.015	0.121	**	**	**	**
00932	SODIUM, PERCENT	01/11/26-03/02/83	7	37.	36.429	39.	34.	2.619	1.618	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	7	3.8	3.8	4.	3.6	0.03	0.173	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	7	62.	58.286	65.	47.	42.238	6.499	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	7	250.	242.857	260.	210.	323.81	17.995	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	7	0.3	0.271	0.4	0.1	0.009	0.095	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	7	8.	7.729	8.3	6.6	0.372	0.61	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	2	90.	90.	90.	90.	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	6 ##	0.5	1.417	6.	0.5	5.042	2.245	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	6 ##	-0.301	-0.121	0.778	-0.301	0.194	0.441	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.757								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	7	613.	601.429	635.	541.	1200.619	34.65	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	7	592.	578.429	614.	526.	979.286	31.294	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	7	17100.	19635.714	34300.	5550.	108050595.238	10394.739	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	7	0.83	0.817	0.86	0.74	0.002	0.046	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	8	39.5	42.75	73.	23.	309.929	17.605	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	18	10.	12.444	46.	2.	128.967	11.356	2.	4.75	16.75	31.6
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	17	167.	439.353	1790.	20.	258401.993	508.333	26.4	62.	868.5	1158.

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Annual Analysis for 1978 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	10	9.75	10.2	12.5	8.	2.178	1.476	8.1	9.	11.625	12.45
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	13	11900.	12229.231	19700.	7060.	10810491.026	3287.931	7216.	10385.	13650.	18020.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	12	16900.	16687.5	24000.	7950.	34918238.636	5909.166	8295.	11450.	22700.	23820.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	4	0.35	6.725	26.	0.2	165.129	12.85	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	9	930.	929.444	1000.	860.	2627.778	51.262	860.	875.	980.	1000.
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	9	7.6	7.367	8.1	6.3	0.46	0.678	6.3	6.75	8.05	8.1
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	8	7.95	7.95	8.3	7.7	0.049	0.22	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	8	7.947	7.905	8.3	7.7	0.051	0.226	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	8	0.011	0.012	0.02	0.005	0.	0.006	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	8	130.	130.	140.	120.	85.714	9.258	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	8	0.01	0.012	0.04	0.005	0.	0.012	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	7	0.32	0.304	0.45	0.1	0.012	0.108	**	**	**	**

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Annual Analysis for 1978 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	8	0.5	0.49	0.59	0.32	0.009	0.095	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	8	0.01	0.018	0.07	0.005	0.	0.022	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	8	300.	306.25	350.	270.	826.786	28.754	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	8	175.	175.	210.	150.	485.714	22.039	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	8	76.	76.5	90.	65.	82.286	9.071	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	8	27.	27.5	30.	25.	2.857	1.69	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	8	82.	81.375	90.	73.	30.554	5.528	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	8	2.	2.038	2.1	2.	0.003	0.052	**	**	**	**
00932	SODIUM, PERCENT	01/11/26-03/02/83	8	36.5	36.5	38.	35.	0.857	0.926	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	8	4.1	4.1	4.3	3.8	0.04	0.2	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	8	57.	58.625	69.	51.	38.554	6.209	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	8	260.	260.	280.	230.	314.286	17.728	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	8	0.3	0.313	0.5	0.2	0.007	0.083	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	8	7.85	7.688	8.2	7.1	0.141	0.376	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	3	100.	103.333	110.	100.	33.333	5.774	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	8	1.	0.938	2.	0.5	0.246	0.496	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	8	0.	-0.075	0.301	-0.301	0.045	0.213	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.841								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	8	617.5	615.25	665.	573.	1427.643	37.784	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	8	597.5	594.5	655.	528.	1663.714	40.789	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	8	20900.	23525.	35600.	13400.	51373571.429	7167.536	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	8	0.84	0.835	0.9	0.78	0.003	0.05	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	10	48.5	50.	79.	3.	640.	25.298	5.	32.	75.75	78.9
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	17	13.	24.	176.	1.	1737.25	41.68	1.8	6.	18.	86.4
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	17	448.	1251.353	10900.	32.	7025900.868	2650.642	45.6	211.	746.	5412.

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Annual Analysis for 1979 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	16	8.75	8.625	10.	6.	1.25	1.118	6.7	8.	9.5	10.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	20	11950.	13496.	26400.	2960.	62888941.053	7930.255	4201.	6212.5	20525.	25440.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	12	0.6	0.808	2.6	0.3	0.423	0.65	0.3	0.4	1.1	2.21
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	10	909.	911.8	1050.	810.	6003.289	77.481	811.	842.5	969.25	1044.7
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	10	9.2	9.15	12.5	6.1	3.674	1.917	6.15	8.175	10.	12.4
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	10	7.9	7.98	8.8	7.4	0.186	0.432	7.42	7.675	8.225	8.78
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	10	7.9	7.83	8.8	7.4	0.211	0.46	7.42	7.675	8.225	8.78
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	10	0.013	0.015	0.04	0.002	0.	0.011	0.002	0.007	0.021	0.038
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	12	130.	125.833	130.	110.	44.697	6.686	113.	120.	130.	130.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	12	0.01	0.015	0.03	0.005	0.	0.007	0.007	0.01	0.02	0.027
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	12	0.325	0.407	1.2	0.19	0.076	0.275	0.193	0.235	0.495	0.996
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	12	0.55	0.549	0.7	0.33	0.011	0.103	0.369	0.488	0.638	0.694
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	4	0.6	0.6	0.7	0.5	0.007	0.082	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	12	0.01	0.014	0.03	0.	0.	0.009	0.003	0.01	0.02	0.03
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	12	280.	286.667	330.	260.	406.061	20.151	263.	272.5	290.	327.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	12	160.	160.833	200.	140.	335.606	18.32	140.	150.	167.5	197.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	12	71.	72.	86.	65.	33.273	5.768	65.3	69.25	72.75	84.2
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	12	25.5	25.917	28.	24.	3.174	1.782	24.	24.	28.	28.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	12	79.5	81.333	91.	74.	43.333	6.583	74.	74.25	88.75	90.4
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	12	2.1	2.1	2.3	1.9	0.013	0.113	1.93	2.	2.2	2.27
00932	SODIUM, PERCENT	01/11/26-03/02/83	12	38.5	41.417	49.	35.	30.811	5.551	35.6	37.25	48.75	49.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	12	4.	4.033	4.4	3.6	0.061	0.246	3.63	3.9	4.2	4.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	12	51.5	53.833	66.	41.	62.515	7.907	42.5	50.	62.75	65.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	12	260.	256.667	280.	230.	224.242	14.975	233.	242.5	270.	277.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	12	0.3	0.292	0.4	0.2	0.003	0.051	0.2	0.3	0.3	0.37
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	12	7.55	7.508	8.5	6.7	0.292	0.54	6.7	7.125	7.875	8.35

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Annual Analysis for 1979 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	3	100.	106.667	130.	90.	433.333	20.817	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	12 ##	0.75	6.333	36.	0.5	167.924	12.959	0.5	0.5	1.75	34.8
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	12 ##	-0.151	0.13	1.556	-0.301	0.465	0.682	-0.301	-0.301	0.226	1.541
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			1.348								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	12	596.	608.417	704.	551.	2364.447	48.626	553.1	563.75	649.25	692.6
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	12	569.5	578.25	637.	539.	974.205	31.212	539.6	558.	606.	633.1
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	12	15250.	19776.667	42400.	5630.	171459242.424	13094.245	5807.	8902.5	32500.	41620.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	12	0.81	0.828	0.96	0.75	0.004	0.067	0.753	0.765	0.88	0.945
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	12	59.	50.833	78.	3.	564.879	23.767	6.9	35.75	69.5	77.1
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	17	10.	49.059	235.	2.	6012.059	77.537	2.8	5.5	76.5	235.
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	17	379.	2258.059	16800.	32.	19115872.059	4372.17	54.4	140.	2583.5	9024.

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Annual Analysis for 1980 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	11	9.	8.945	10.	7.	0.823	0.907	7.2	8.5	9.5	10.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	12	15300.	15178.333	23000.	3110.	35727578.788	5977.255	4646.	11525.	20875.	22730.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	10	0.75	0.84	1.5	0.2	0.183	0.427	0.22	0.55	1.25	1.49
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	10	836.5	851.7	984.	750.	7950.678	89.167	751.5	765.	951.25	982.6
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	9	9.	8.889	10.1	7.6	0.921	0.96	7.6	8.05	9.95	10.1
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	9	8.	7.978	8.2	7.8	0.017	0.13	7.8	7.85	8.05	8.2
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	9	8.	7.961	8.2	7.8	0.017	0.131	7.8	7.85	8.05	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	9	0.01	0.011	0.016	0.006	0.	0.003	0.006	0.009	0.014	0.016
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	8	125.	123.75	130.	110.	55.357	7.44	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	10	0.03	0.034	0.09	0.	0.001	0.032	0.	0.	0.063	0.088
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	10	0.685	0.702	1.2	0.39	0.059	0.243	0.394	0.513	0.865	1.171
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	10	0.48	0.477	0.55	0.41	0.002	0.049	0.411	0.428	0.523	0.548
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	10	0.5	0.47	0.6	0.4	0.005	0.067	0.4	0.4	0.5	0.59
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	10	0.015	0.024	0.05	0.01	0.	0.017	0.01	0.01	0.043	0.05
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	10	270.	267.	290.	240.	445.556	21.108	240.	240.	290.	290.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	8	155.	147.5	160.	120.	250.	15.811	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	10	67.	66.3	72.	58.	26.678	5.165	58.2	61.5	72.	72.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	10	25.	24.8	27.	21.	3.733	1.932	21.2	23.75	27.	27.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	10	76.5	77.3	88.	65.	61.344	7.832	65.4	71.25	86.25	87.9
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	10	2.1	2.05	2.2	1.8	0.021	0.143	1.81	1.9	2.2	2.2
00932	SODIUM, PERCENT	01/11/26-03/02/83	10	38.	38.2	40.	37.	1.067	1.033	37.	37.	39.	39.9
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	10	3.9	3.92	4.8	3.4	0.153	0.391	3.41	3.65	4.05	4.74
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	10	52.5	52.9	65.	44.	59.433	7.709	44.	44.75	60.5	64.7
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	10	240.	230.	270.	200.	666.667	25.82	200.	200.	245.	269.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	10	0.3	0.31	0.5	0.2	0.005	0.074	0.21	0.3	0.3	0.48
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	10	7.8	7.83	8.3	7.4	0.105	0.323	7.4	7.55	8.2	8.29
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	9 ##	0.5	0.944	4.	0.5	1.34	1.158	0.5	0.5	0.75	4.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	9 ##	-0.301	-0.167	0.602	-0.301	0.093	0.305	-0.301	-0.301	-0.151	0.602
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.68								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	9	560.	582.778	749.	519.	5535.194	74.399	519.	519.	621.	749.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	10	549.	540.1	615.	472.	2437.656	49.373	473.8	494.5	584.25	613.2
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	10	28100.	26460.	37800.	12400.	59304888.889	7700.967	12990.	20250.	32125.	37330.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	10	0.775	0.799	1.02	0.71	0.009	0.096	0.71	0.71	0.845	1.004
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	5	49.	40.2	60.	1.	530.7	23.037	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	8	27.	104.375	634.	8.	46175.982	214.886	**	**	**	**
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	8	969.5	5967.875	39400.	227.	183648105.554	13551.683	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	7	10.	9.714	10.5	8.5	0.405	0.636	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	7	10450.	13342.857	22070.	3890.	43150790.476	6568.926	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	7	1.	1.129	2.3	0.6	0.292	0.541	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	6	820.	825.833	885.	760.	1864.167	43.176	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	6	8.3	8.233	9.7	6.6	0.995	0.997	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	6	7.85	7.788	8.	7.4	0.064	0.252	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	6	7.825	7.724	8.	7.4	0.069	0.262	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	6	0.015	0.019	0.04	0.01	0.	0.012	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	6	0.07	0.075	0.2	0.	0.005	0.07	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	6	0.745	0.752	1.	0.52	0.027	0.164	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	6	0.455	0.428	0.49	0.3	0.005	0.068	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	7	0.4	0.429	0.5	0.3	0.006	0.076	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	7	0.02	0.026	0.05	0.01	0.	0.015	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	7	250.	257.143	280.	240.	190.476	13.801	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	7	64.	64.571	70.	61.	12.619	3.552	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	7	23.	23.571	26.	22.	1.619	1.272	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	7	72.	72.143	86.	62.	56.81	7.537	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	7	2.	2.014	2.2	1.9	0.011	0.107	**	**	**	**
00932	SODIUM, PERCENT	01/11/26-03/02/83	7	37.	37.429	40.	35.	2.952	1.718	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	7	3.5	3.4	3.7	3.1	0.043	0.208	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	7	45.	46.857	60.	35.	59.143	7.69	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	7	220.	218.571	250.	200.	314.286	17.728	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	7	0.3	0.257	0.3	0.2	0.003	0.053	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	7	8.	7.929	8.2	7.7	0.032	0.18	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	6 ##	0.5	1.167	4.	0.5	1.967	1.402	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	6 ##	-0.301	-0.1	0.602	-0.301	0.133	0.365	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.794								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	7	534.	542.429	605.	504.	1213.286	34.832	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	7	513.	512.571	584.	464.	1598.619	39.983	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	7	16100.	19164.286	31400.	6350.	81012261.905	9000.681	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	7	0.73	0.739	0.82	0.69	0.002	0.045	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	7	13.	13.571	33.	6.	84.952	9.217	**	**	**	**
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	7	329.	532.286	1970.	137.	409190.571	639.68	**	**	**	**

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Annual Analysis for 1982 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	6	9.45	9.15	10.	8.	0.935	0.967	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	6	17100.	15876.667	19900.	8960.	16144066.667	4017.968	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	6	1.45	2.767	10.	0.7	12.799	3.578	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	6	910.	913.333	990.	860.	2266.667	47.61	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	6	8.65	8.75	10.2	7.7	0.755	0.869	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	6	8.1	8.05	8.3	7.6	0.059	0.243	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	6	8.1	7.983	8.3	7.6	0.064	0.254	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	6	0.008	0.01	0.025	0.005	0.	0.007	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	1	121.	121.	121.	121.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	6	0.65	0.613	0.8	0.38	0.027	0.165	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	6	0.4	0.4	0.5	0.3	0.004	0.063	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	6	0.03	0.036	0.08	0.005	0.001	0.03	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	6	280.	285.	310.	260.	470.	21.679	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	2	150.	150.	150.	150.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	6	69.	70.667	78.	63.	37.467	6.121	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	6	26.	25.667	27.	24.	2.267	1.506	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	6	79.5	80.5	88.	73.	40.3	6.348	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	6	2.25	2.283	2.4	2.2	0.01	0.098	**	**	**	**

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Annual Analysis for 1982 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00932	SODIUM, PERCENT	01/11/26-03/02/83	6	38.	37.667	38.	37.	0.267	0.516	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	6	3.6	3.75	4.2	3.5	0.079	0.281	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	6	56.	57.833	67.	51.	50.567	7.111	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	6	245.	241.667	270.	210.	416.667	20.412	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	6	0.3	0.333	0.5	0.3	0.007	0.082	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	6	7.7	7.883	8.8	7.6	0.214	0.462	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	5 ##	0.5	1.	3.	0.5	1.25	1.118	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	5 ##	-0.301	-0.145	0.477	-0.301	0.121	0.348	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.715								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	6	569.5	585.	654.	517.	2554.	50.537	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	5	580.	573.6	623.	511.	2026.3	45.014	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	6	26200.	24816.667	30400.	15500.	35993666.667	5999.472	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	6	0.775	0.795	0.89	0.7	0.005	0.069	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	2	16.	16.	22.	10.	72.	8.485	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	5	39.	36.6	65.	7.	440.3	20.983	**	**	**	**
80155p	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	3	2260.	1853.	2980.	319.	1894467.	1376.396	**	**	**	**

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Annual Analysis for 1983 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	7	9.5	9.857	11.5	8.	1.81	1.345	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	7	23500.	26357.143	50000.	17200.	120636190.476	10983.451	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	6	1.25	1.717	4.5	0.5	2.062	1.436	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	7	830.	808.571	885.	734.	3915.286	62.572	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	7	8.2	8.514	11.4	6.8	2.468	1.571	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	7	8.	7.9	8.2	7.5	0.08	0.283	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	7	8.	7.814	8.2	7.5	0.089	0.298	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	7	0.01	0.015	0.032	0.006	0.	0.011	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	7	130.	160.	340.	120.	6333.333	79.582	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	7	0.6	0.714	1.	0.4	0.061	0.248	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	7	0.4	0.371	0.4	0.3	0.002	0.049	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	7	0.01	0.021	0.04	0.01	0.	0.015	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	2	280.	280.	310.	250.	1800.	42.426	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	1	170.	170.	170.	170.	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	6	67.	67.667	77.	60.	37.867	6.154	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	6	24.5	24.667	27.	22.	4.267	2.066	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	6	72.	72.667	84.	61.	73.867	8.595	**	**	**	**
00931	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	2	2.2	2.2	2.3	2.1	0.02	0.141	**	**	**	**
00932	SODIUM, PERCENT	01/11/26-03/02/83	2	37.	37.	37.	37.	0.	0.	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	6	3.4	3.433	3.7	3.2	0.027	0.163	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	6	51.	49.833	59.	37.	68.967	8.305	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	6	220.	221.667	250.	200.	456.667	21.37	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	6	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	6	7.65	7.65	8.1	7.3	0.103	0.321	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	4 ##	0.5	0.375	0.5	0.	0.063	0.25	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	4 ##	-0.301	-0.226	0.	-0.301	0.023	0.151	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.595								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	6	542.	546.167	599.	494.	2051.367	45.292	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	2	536.	536.	584.	488.	4608.	67.882	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	2	28150.	28150.	28500.	27800.	245000.	494.975	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	2	0.755	0.755	0.81	0.7	0.006	0.078	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	4	29.	25.75	34.	11.	108.25	10.404	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	4	37.	76.75	220.	13.	9542.25	97.684	**	**	**	**

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Annual Analysis for 1984 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	6	10.	10.083	12.5	8.	3.342	1.828	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	6	24800.	27733.333	42100.	24200.	49858666.667	7061.067	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	6	1.05	1.083	1.8	0.4	0.298	0.546	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	6	755.	751.667	850.	680.	3566.667	59.722	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	6	8.9	9.167	12.8	7.3	3.603	1.898	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	6	8.2	8.133	8.3	7.8	0.031	0.175	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	6	8.2	8.099	8.3	7.8	0.032	0.179	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	6	0.006	0.008	0.016	0.005	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	6	126.	125.167	137.	110.	78.167	8.841	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	6	0.25	0.267	0.4	0.1	0.015	0.121	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	6	0.3	0.317	0.4	0.3	0.002	0.041	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	6	0.01	0.015	0.03	0.01	0.	0.008	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	6	60.5	60.	63.	55.	10.4	3.225	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	6	22.5	22.5	24.	20.	2.3	1.517	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	6	61.5	60.5	67.	51.	33.5	5.788	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	6	3.	3.	3.2	2.7	0.036	0.19	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	6	38.5	37.833	45.	28.	46.967	6.853	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	6	185.	188.333	200.	180.	96.667	9.832	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	6	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	6	8.3	8.317	8.7	7.9	0.078	0.279	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	5 ##	0.5	0.6	1.	0.5	0.05	0.224	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	5 ##	-0.301	-0.241	0.	-0.301	0.018	0.135	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.574								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	6	493.5	484.	526.	423.	1931.6	43.95	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	3	34.	40.667	76.	12.	1057.333	32.517	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	3	16.	31.333	66.	12.	905.333	30.089	**	**	**	**

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Annual Analysis for 1985 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	30	10.4	10.207	10.5	8.	0.317	0.563	9.58	10.3	10.4	10.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	6	25550.	24633.333	30000.	14700.	27026666.667	5198.718	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	6	1.45	2.767	9.5	1.	11.083	3.329	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	30	662.5	662.8	725.	590.	507.131	22.52	643.4	661.5	665.	669.6
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	6	8.6	8.617	9.4	7.6	0.522	0.722	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	6	8.25	8.25	8.3	8.2	0.003	0.055	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	6	8.247	8.247	8.3	8.2	0.003	0.055	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	6	0.006	0.006	0.006	0.005	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	6	123.	122.833	133.	111.	92.167	9.6	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	5	0.04	0.04	0.05	0.02	0.	0.012	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	4	0.35	0.35	0.4	0.3	0.003	0.058	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	5	0.4	0.38	0.4	0.3	0.002	0.045	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	4	0.4	0.4	0.5	0.3	0.007	0.082	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	4	0.01	0.011	0.02	0.005	0.	0.006	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	6	59.5	58.833	64.	50.	30.567	5.529	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	6	21.	21.333	24.	19.	3.467	1.862	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	6	51.	53.	60.	47.	31.6	5.621	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	6	2.9	2.933	3.2	2.6	0.043	0.207	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	6	31.	32.333	40.	26.	30.667	5.538	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	6	165.	170.	200.	150.	320.	17.889	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	6	0.25	0.517	1.9	0.2	0.462	0.679	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	6	8.9	8.867	9.1	8.5	0.047	0.216	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	5	70.	72.	90.	60.	170.	13.038	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	6 ##	0.75	1.25	3.	0.5	1.075	1.037	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	6 ##	-0.151	-0.021	0.477	-0.301	0.118	0.343	**	**	**	**

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Annual Analysis for 1985 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.953								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	6	427.5	436.	484.	383.	1276.4	35.727	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	5	31.	29.4	37.	23.	34.3	5.857	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	6	9.5	12.5	36.	3.	145.9	12.079	**	**	**	**

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Annual Analysis for 1986 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	8	11.5	10.688	12.	7.5	2.853	1.689	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	6	21800.	22000.	32300.	14300.	44592000.	6677.724	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	7	1.	29.357	200.	0.3	5662.25	75.248	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	8	662.	678.5	755.	642.	1842.571	42.925	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	6	8.7	8.783	11.2	7.3	2.094	1.447	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	8	8.2	8.188	8.3	8.1	0.004	0.064	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	8	8.2	8.183	8.3	8.1	0.004	0.064	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	8	0.006	0.007	0.008	0.005	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	4	116.5	115.25	123.	105.	64.25	8.016	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	8 ##	0.008	0.016	0.05	0.005	0.	0.016	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	8	0.4	0.413	0.6	0.3	0.01	0.099	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	8	0.4	0.331	0.4	0.05	0.015	0.122	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	7	0.4	0.386	0.5	0.3	0.005	0.069	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	8	0.02	0.018	0.03	0.005	0.	0.008	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	7	57.	57.143	61.	52.	8.81	2.968	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	7	21.	21.429	24.	20.	1.952	1.397	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	7	51.	53.286	62.	49.	25.905	5.09	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	7	2.9	2.914	3.1	2.7	0.028	0.168	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	7	28.	31.286	43.	26.	35.238	5.936	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	7	170.	168.571	180.	160.	47.619	6.901	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	7	0.3	0.257	0.3	0.2	0.003	0.053	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	6	9.1	8.933	9.3	8.3	0.159	0.398	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	4	65.	67.5	80.	60.	91.667	9.574	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	8 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	8 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.5								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	7	426.	433.429	493.	404.	963.952	31.048	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	2	72.5	72.5	75.	70.	12.5	3.536	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	6	11.5	23.333	96.	3.	1284.267	35.837	**	**	**	**

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Annual Analysis for 1987 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	13	9.	9.308	10.5	8.5	0.356	0.596	8.5	9.	9.75	10.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	2	26850.	26850.	29200.	24500.	11045000.	3323.402	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	12	0.7	0.825	1.6	0.4	0.171	0.414	0.43	0.5	1.075	1.57
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	13	710.	710.	790.	640.	2120.833	46.053	648.	670.	742.5	786.
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	13	8.6	8.738	9.8	7.8	0.411	0.641	7.84	8.2	9.3	9.72
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	12	8.2	8.181	8.3	8.	0.006	0.079	8.03	8.125	8.215	8.285
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	12	8.2	8.174	8.3	8.	0.006	0.079	8.03	8.125	8.215	8.285
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	12	0.006	0.007	0.01	0.005	0.	0.001	0.005	0.006	0.008	0.009
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	11	128.	126.909	139.	116.	43.691	6.61	116.6	121.	131.	137.8
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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Annual Analysis for 1987 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	12	0.015	0.015	0.04	0.005	0.	0.01	0.005	0.006	0.02	0.034
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	12	0.4	0.392	1.	0.1	0.074	0.271	0.1	0.125	0.55	0.91
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	12	0.4	0.35	0.4	0.2	0.005	0.067	0.23	0.3	0.4	0.4
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	6	0.4	0.35	0.4	0.2	0.007	0.084	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	12	0.02	0.044	0.23	0.005	0.004	0.064	0.007	0.01	0.048	0.191
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	12	60.5	60.917	66.	57.	5.538	2.353	57.3	60.	62.	65.1
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	12	22.	22.583	25.	21.	1.538	1.24	21.	22.	23.75	24.7
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	12	55.5	56.	61.	51.	12.909	3.593	51.3	52.5	59.75	61.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	12	2.9	2.925	3.2	2.7	0.013	0.114	2.76	2.9	2.975	3.14
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	12	33.5	34.167	44.	23.	33.97	5.828	24.8	30.25	39.75	42.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	12	185.	185.	210.	160.	209.091	14.46	163.	172.5	197.5	207.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	12	0.3	0.292	0.4	0.2	0.003	0.051	0.2	0.3	0.3	0.37
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	6	9.	9.017	9.3	8.7	0.05	0.223	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	12	70.	71.667	80.	60.	69.697	8.348	60.	62.5	80.	80.
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	11	1.	1.318	4.	0.5	1.064	1.031	0.5	0.5	2.	3.6
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	11	0.	0.027	0.602	-0.301	0.081	0.284	-0.301	-0.301	0.301	0.542
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			1.065								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	12	463.5	461.	504.	409.	783.091	27.984	415.	440.75	487.25	500.7
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	6	65.5	68.667	95.	52.	306.667	17.512	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	12	4.	5.5	14.	0.	14.273	3.778	0.9	3.25	8.25	12.8

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Annual Analysis for 1988 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	11	9.	8.818	9.5	8.	0.214	0.462	8.1	8.5	9.	9.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	3	14800.	14453.333	15200.	13360.	936533.333	967.747	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	11	0.6	0.764	1.6	0.4	0.163	0.403	0.4	0.4	1.1	1.52
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	11	845.	816.545	920.	660.	7237.073	85.071	662.	780.	870.	915.
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	11	8.5	8.618	9.6	7.5	0.56	0.748	7.54	7.9	9.4	9.58
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	11	8.1	8.095	8.26	7.9	0.011	0.104	7.92	8.	8.19	8.248
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	11	8.1	8.084	8.26	7.9	0.011	0.105	7.92	8.	8.19	8.248
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	11	0.008	0.008	0.013	0.005	0.	0.002	0.006	0.006	0.01	0.012
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	11	130.	109.091	142.	0.	2952.091	54.333	0.	125.	140.	141.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	11	0.02	0.016	0.03	0.005	0.	0.009	0.005	0.005	0.02	0.03
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	11	0.3	0.345	0.7	0.2	0.021	0.144	0.2	0.3	0.4	0.66
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	11	0.4	0.373	0.4	0.2	0.004	0.065	0.22	0.4	0.4	0.4
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	6	0.4	0.417	0.5	0.4	0.002	0.041	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	11	0.01	0.01	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.02
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	11	70.	68.	73.	60.	22.2	4.712	60.2	64.	72.	73.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	11	26.	25.818	28.	22.	4.364	2.089	22.2	24.	28.	28.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	11	68.	68.364	76.	54.	44.655	6.682	55.8	64.	74.	75.8
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	11	3.1	3.1	3.6	2.5	0.082	0.286	2.58	3.	3.3	3.56
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	11	45.	44.455	55.	30.	53.673	7.326	31.4	39.	51.	54.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	11	230.	216.364	240.	170.	605.455	24.606	172.	200.	240.	240.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	11	0.3	0.273	0.4	0.2	0.004	0.065	0.2	0.2	0.3	0.38
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	6	8.9	8.867	9.1	8.5	0.043	0.207	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	11	80.	82.727	100.	70.	101.818	10.09	70.	70.	90.	98.
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	11 ##	0.5	0.909	2.	0.5	0.341	0.584	0.5	0.5	1.	2.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	11 ##	-0.301	-0.109	0.301	-0.301	0.059	0.244	-0.301	-0.301	0.	0.301
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.777								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	11	548.	532.818	588.	435.	2038.364	45.148	446.4	504.	562.	587.2
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	5	68.	74.2	91.	58.	221.7	14.89	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	9	3.	2.889	5.	1.	1.611	1.269	1.	2.	4.	5.

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

Annual Analysis for 1989 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	20	7.5	7.6	9.	6.5	0.305	0.553	7.	7.5	8.	8.45
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	6	9550.	10025.	19400.	4920.	27744750.	5267.329	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	12	0.3	0.383	0.7	0.2	0.025	0.159	0.2	0.3	0.5	0.67
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	19	750.	757.105	900.	670.	3642.544	60.353	690.	720.	780.	900.
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	20	8.9	8.55	11.1	0.	4.49	2.119	8.01	8.725	9.175	9.93
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	19	8.15	8.147	8.32	7.97	0.006	0.075	8.04	8.11	8.18	8.23
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	19	8.15	8.141	8.32	7.97	0.006	0.075	8.04	8.11	8.18	8.23
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	19	0.007	0.007	0.011	0.005	0.	0.001	0.006	0.007	0.008	0.009
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	19	0.01	0.014	0.03	0.005	0.	0.008	0.005	0.01	0.02	0.03
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	19	0.3	0.332	0.8	0.1	0.056	0.236	0.1	0.1	0.4	0.8
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	19	0.34	0.35	0.4	0.2	0.003	0.054	0.3	0.33	0.4	0.4
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	19	0.4	0.368	0.4	0.2	0.003	0.058	0.3	0.3	0.4	0.4
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	19 ##	0.005	0.007	0.02	0.005	0.	0.005	0.005	0.005	0.005	0.02
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	12	65.	65.917	74.	61.	14.447	3.801	61.6	64.	66.	73.7
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	12	23.	23.917	28.	22.	3.902	1.975	22.3	23.	24.	28.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	12	66.5	68.083	83.	58.	46.629	6.829	59.5	66.	67.75	82.1
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	12	3.25	3.275	3.6	3.	0.035	0.186	3.03	3.125	3.375	3.6
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	12	42.	43.917	59.	33.	57.72	7.597	34.8	40.25	43.75	59.
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	12	220.	216.667	240.	190.	133.333	11.547	196.	210.	220.	234.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	12	0.3	0.3	0.3	0.3	0.	0.	0.3	0.3	0.3	0.3
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	12	8.5	8.408	8.8	8.1	0.046	0.215	8.1	8.2	8.5	8.74
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	6	90.	90.	110.	70.	240.	15.492	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	5	1.	0.9	1.	0.5	0.05	0.224	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	5	0.	-0.06	0.	-0.301	0.018	0.135	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.871								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	12	511.	522.333	606.	477.	1602.788	40.035	483.6	500.	519.25	605.1
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	5	72.	75.8	100.	55.	402.7	20.067	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	5	4.	3.6	6.	1.	3.3	1.817	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	5	9.	8.5	9.5	7.5	0.875	0.935	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	5	11900.	12100.	20400.	4920.	31604200.	5621.761	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	5	0.5	0.64	1.3	0.4	0.138	0.371	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	5	830.	843.	885.	800.	1170.	34.205	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	5	8.5	8.76	9.7	8.	0.463	0.68	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	5	8.1	8.128	8.27	7.98	0.012	0.111	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	5	8.1	8.117	8.27	7.98	0.013	0.112	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	5	0.008	0.008	0.01	0.005	0.	0.002	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	5 ##	0.005	0.006	0.01	0.005	0.	0.002	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	5 ##	0.1	0.12	0.2	0.1	0.002	0.045	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	5	0.4	0.36	0.4	0.3	0.003	0.055	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	5	0.3	0.32	0.4	0.3	0.002	0.045	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	5	0.01	0.013	0.02	0.005	0.	0.007	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	5	68.	69.4	74.	67.	7.8	2.793	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	5	26.	26.	28.	25.	1.5	1.225	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	5	73.	73.6	79.	70.	15.3	3.912	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	5	3.5	3.46	3.6	3.2	0.028	0.167	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	5	51.	52.8	58.	47.	24.7	4.97	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	5	230.	234.	250.	220.	130.	11.402	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	5	0.3	0.44	1.1	0.1	0.148	0.385	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	5	8.3	8.32	9.	7.9	0.187	0.432	**	**	**	**

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Annual Analysis for 1990 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	5	90.	90.	100.	80.	50.	7.071	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	5	2.	1.5	2.	0.5	0.5	0.707	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	5	0.301	0.12	0.301	-0.301	0.072	0.269	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			1.32								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	5	565.	573.4	631.	541.	1365.3	36.95	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	4	86.5	84.75	91.	75.	48.25	6.946	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	4	2.	2.375	4.5	1.	2.229	1.493	**	**	**	**

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

Annual Analysis for 1991 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	6	9.	8.65	10.	6.9	1.435	1.198	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	7	11900.	11774.286	18400.	5110.	18422928.571	4292.194	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	6	1.1	1.033	1.7	0.4	0.227	0.476	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	6	910.5	920.833	985.	835.	3104.567	55.719	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	6	7.9	8.117	9.5	7.4	0.61	0.781	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	6	8.1	8.093	8.22	7.9	0.014	0.116	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	6	8.1	8.08	8.22	7.9	0.014	0.117	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	6	0.008	0.008	0.013	0.006	0.	0.002	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	6 ##	0.005	0.008	0.02	0.005	0.	0.006	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	6	0.2	0.2	0.3	0.1	0.008	0.089	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	6	0.355	0.335	0.41	0.18	0.007	0.085	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	6	0.4	0.35	0.4	0.2	0.007	0.084	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	6 ##	0.005	0.007	0.01	0.005	0.	0.003	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	6	74.5	74.833	83.	66.	31.767	5.636	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	6	27.	26.833	29.	25.	2.967	1.722	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	6	82.	80.833	91.	69.	55.767	7.468	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	6	3.75	3.7	4.1	3.2	0.1	0.316	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	6	58.5	57.333	66.	46.	71.067	8.43	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	6	260.	256.667	270.	230.	266.667	16.33	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	6	0.4	0.367	0.5	0.2	0.011	0.103	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	6	7.65	7.583	8.	7.1	0.11	0.331	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	6	90.	91.667	100.	90.	16.667	4.082	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	6 ##	0.75	5.583	30.	0.5	143.142	11.964	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	6 ##	-0.151	0.096	1.477	-0.301	0.48	0.693	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			1.246								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	6	610.5	607.333	646.	556.	1487.067	38.563	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	4	69.	58.25	74.	21.	624.917	24.998	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	4	4.	4.	7.	1.	8.667	2.944	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	6	8.5	8.5	9.5	7.	1.	1.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	6	12400.	12298.333	17100.	7390.	11479616.667	3388.158	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	6	0.7	0.7	1.	0.4	0.052	0.228	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	6	922.5	920.833	981.	874.	1496.567	38.685	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	6	7.9	7.933	9.	7.2	0.363	0.602	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	6	8.14	8.142	8.29	7.95	0.015	0.124	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	6	8.138	8.126	8.29	7.95	0.016	0.126	**	**	**	**

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Annual Analysis for 1992 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	6	0.007	0.007	0.011	0.005	0.	0.002	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	6	0.01	0.012	0.02	0.005	0.	0.007	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	6 ##	0.1	0.117	0.2	0.1	0.002	0.041	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	6	0.405	0.373	0.44	0.21	0.007	0.085	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	5	0.4	0.34	0.4	0.2	0.008	0.089	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	6	75.	74.667	82.	69.	23.067	4.803	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	6	26.	25.667	28.	24.	2.267	1.506	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	6	75.5	76.833	85.	71.	24.567	4.956	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	6	3.75	3.783	4.1	3.5	0.042	0.204	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	6	57.	58.	69.	48.	68.	8.246	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	6	250.	246.667	270.	210.	426.667	20.656	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	6	0.3	0.3	0.4	0.2	0.004	0.063	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	5	6.9	7.06	7.4	6.9	0.053	0.23	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	6	90.	93.333	100.	90.	26.667	5.164	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	5	1.	0.8	1.	0.5	0.075	0.274	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	5	0.	-0.12	0.	-0.301	0.027	0.165	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.758								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	6	586.	592.167	656.	546.	1471.767	38.364	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	1	2.	2.	2.	2.	0.	0.	**	**	**	**

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Annual Analysis for 1993 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	6	9.5	9.333	11.5	7.	3.367	1.835	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	6	13350.	12951.667	16900.	8210.	7760016.667	2785.681	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	6	0.4	0.55	1.6	0.2	0.283	0.532	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	6	892.	896.5	946.	849.	1205.5	34.72	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	6	8.3	8.233	8.7	7.8	0.151	0.388	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	6	8.	7.997	8.1	7.89	0.009	0.094	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	6	8.	7.988	8.1	7.89	0.009	0.094	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	6	0.01	0.01	0.013	0.008	0.	0.002	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	6 ##	0.1	0.133	0.3	0.1	0.007	0.082	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	1	0.41	0.41	0.41	0.41	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	5	0.4	0.42	0.5	0.4	0.002	0.045	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	6 ##	0.005	0.01	0.02	0.005	0.	0.008	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	6	74.5	73.833	76.	70.	5.767	2.401	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	6	25.	25.	26.	24.	0.4	0.632	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	6	74.5	75.167	80.	70.	14.967	3.869	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	6	3.8	3.75	3.8	3.6	0.007	0.084	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	6	53.5	54.5	62.	47.	36.3	6.025	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	6	240.	245.	260.	240.	70.	8.367	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	6	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	5	7.4	7.56	8.2	7.3	0.133	0.365	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	5	90.	92.	110.	80.	170.	13.038	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	6 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	6 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.5								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	6	577.5	590.667	642.	548.	1691.867	41.132	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	5	19.	16.4	28.	1.	112.8	10.621	**	**	**	**

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Annual Analysis for 1994 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	5	8.5	8.7	9.5	8.	0.325	0.57	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	5	12000.	12122.	15600.	8790.	8425520.	2902.675	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	5	0.3	0.38	0.6	0.2	0.027	0.164	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	5	767.	785.8	870.	733.	2730.7	52.256	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	5	9.2	9.02	9.6	8.	0.362	0.602	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	5	8.	8.04	8.1	8.	0.003	0.055	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	5	8.	8.037	8.1	8.	0.003	0.055	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	5	0.01	0.009	0.01	0.008	0.	0.001	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	5	0.02	0.017	0.02	0.005	0.	0.007	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	5 ##	0.1	0.12	0.2	0.1	0.002	0.045	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	5	0.36	0.34	0.37	0.25	0.003	0.05	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	4	0.3	0.325	0.4	0.3	0.003	0.05	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	5 ##	0.005	0.006	0.01	0.005	0.	0.002	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	5	65.	64.6	72.	60.	22.3	4.722	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	5	21.	21.8	24.	21.	1.7	1.304	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	5	62.	63.	71.	60.	21.	4.583	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	5	3.3	3.32	3.6	3.2	0.027	0.164	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	5	41.	43.6	50.	40.	21.3	4.615	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	5	200.	198.	220.	180.	320.	17.889	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	5	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	4	8.05	7.925	8.7	6.9	0.602	0.776	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	1	80.	80.	80.	80.	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	4	2.	2.375	5.	0.5	3.563	1.887	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	4	0.301	0.25	0.699	-0.301	0.17	0.412	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			1.778								
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	5	508.	505.2	549.	476.	885.7	29.761	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	4	2.	18.75	70.	1.	1167.583	34.17	**	**	**	**

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Annual Analysis for 1995 - Station GRCA0011

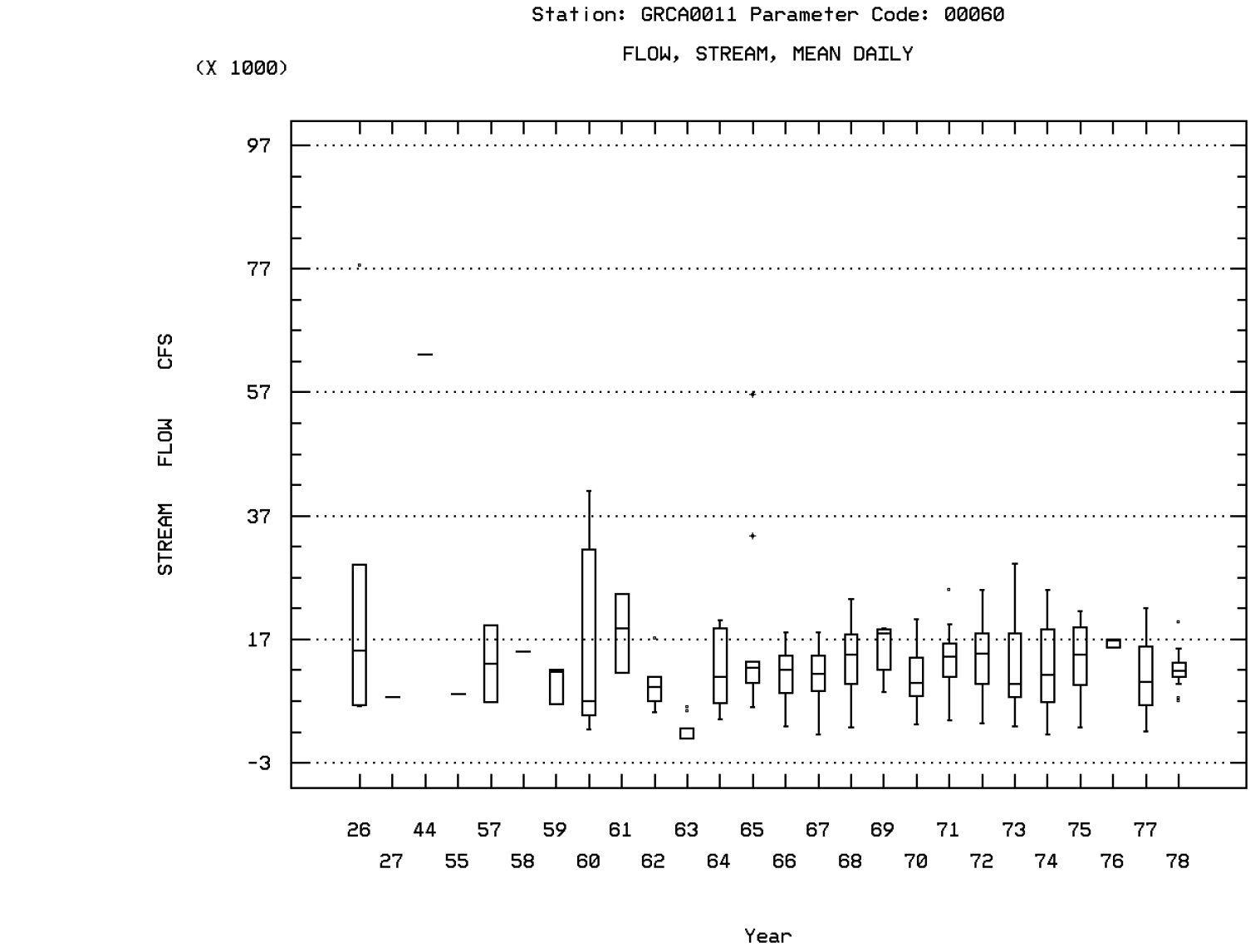
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	6	9.25	9.033	10.7	7.	2.027	1.424	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	5	15500.	15310.	20300.	9350.	20310500.	4506.717	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	5	0.3	0.28	0.3	0.2	0.002	0.045	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	6	793.5	813.	886.	770.	2100.	45.826	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	5	8.5	8.4	8.6	8.	0.055	0.235	**	**	**	**
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	6	7.9	7.967	8.5	7.5	0.107	0.327	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	6	7.9	7.872	8.5	7.5	0.117	0.343	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	6	0.013	0.013	0.032	0.003	0.	0.01	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	5	0.01	0.011	0.02	0.005	0.	0.005	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	5 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	5	0.31	0.278	0.39	0.04	0.019	0.139	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	5	0.3	0.32	0.4	0.2	0.007	0.084	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	5 ##	0.005	0.006	0.01	0.005	0.	0.002	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	5	63.	64.8	72.	61.	22.2	4.712	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	5	22.	21.8	24.	20.	2.2	1.483	**	**	**	**
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	5	61.	63.8	74.	58.	41.2	6.419	**	**	**	**
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	5	3.2	3.2	3.5	3.	0.035	0.187	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	5	44.	49.	59.	43.	55.5	7.45	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	5	200.	208.	220.	200.	120.	10.954	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	5	0.3	0.28	0.3	0.2	0.002	0.045	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	5	7.5	7.52	7.9	7.1	0.112	0.335	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	3 ##	0.5	0.833	1.5	0.5	0.333	0.577	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	3 ##	-0.301	-0.142	0.176	-0.301	0.076	0.275	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.721								

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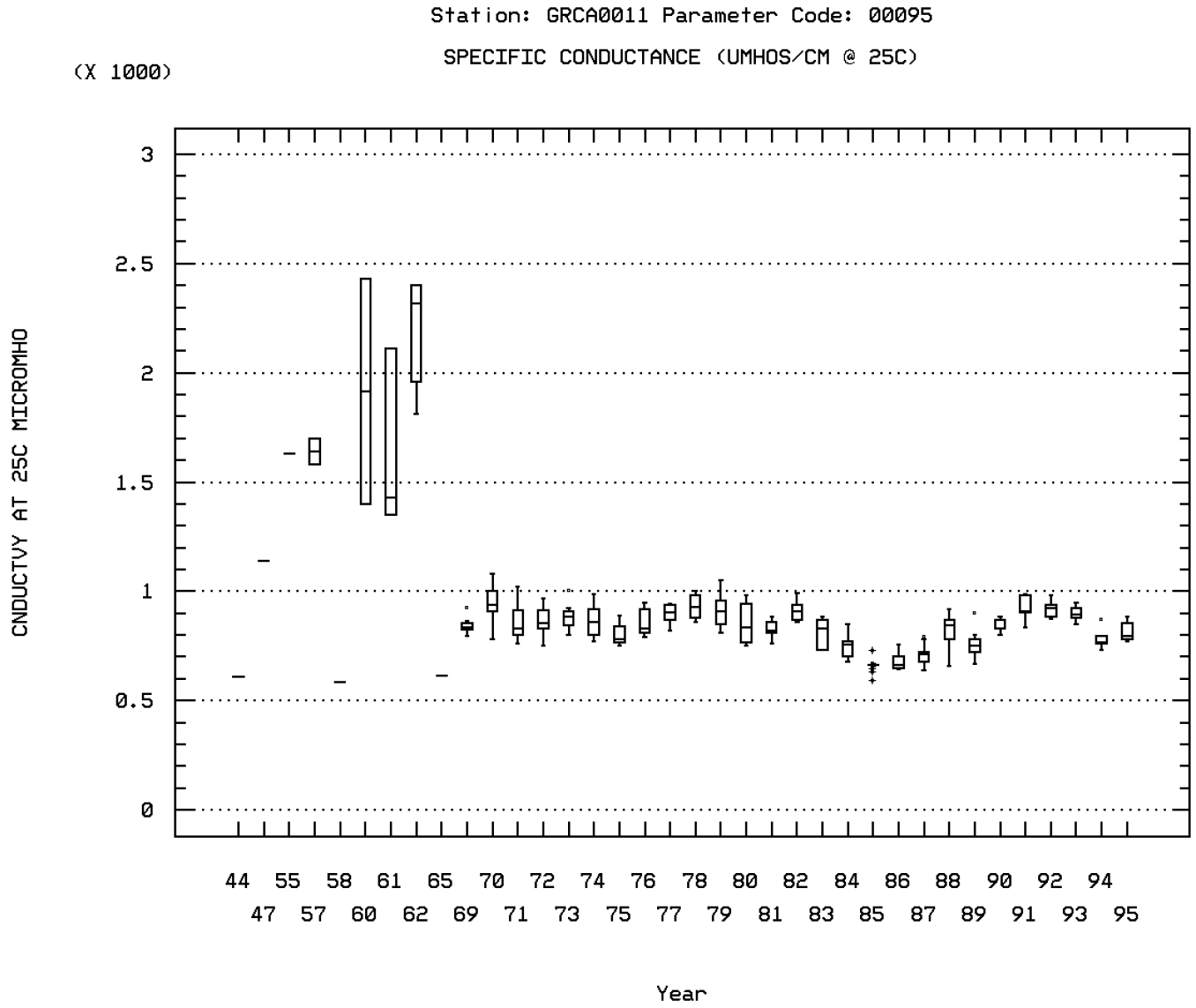
Annual Analysis for 1995 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	5	510.	535.4	586.	504.	1580.8	39.759	**	**	**	**

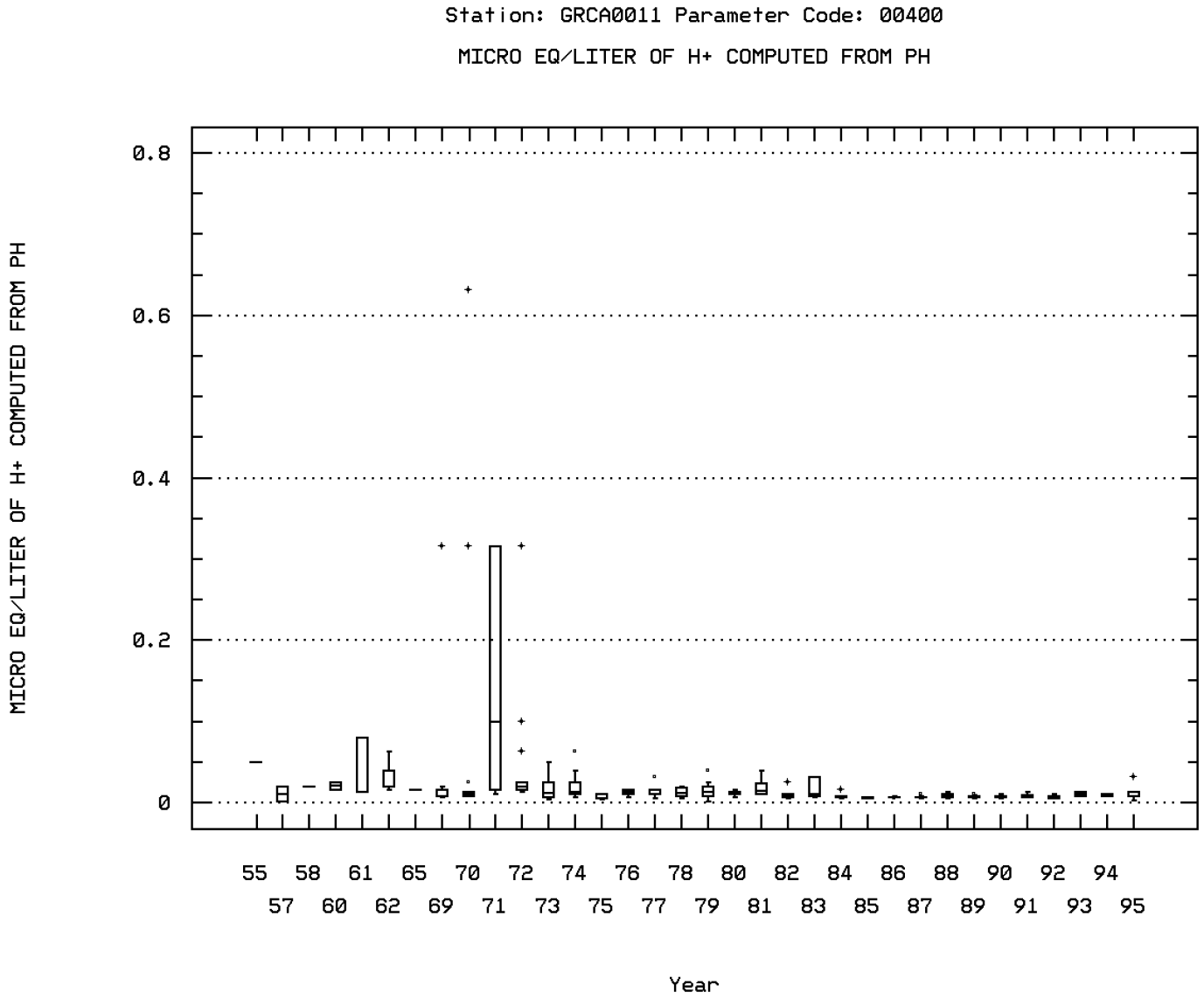
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



COLORADO R AT LEES FERRY, AZ.



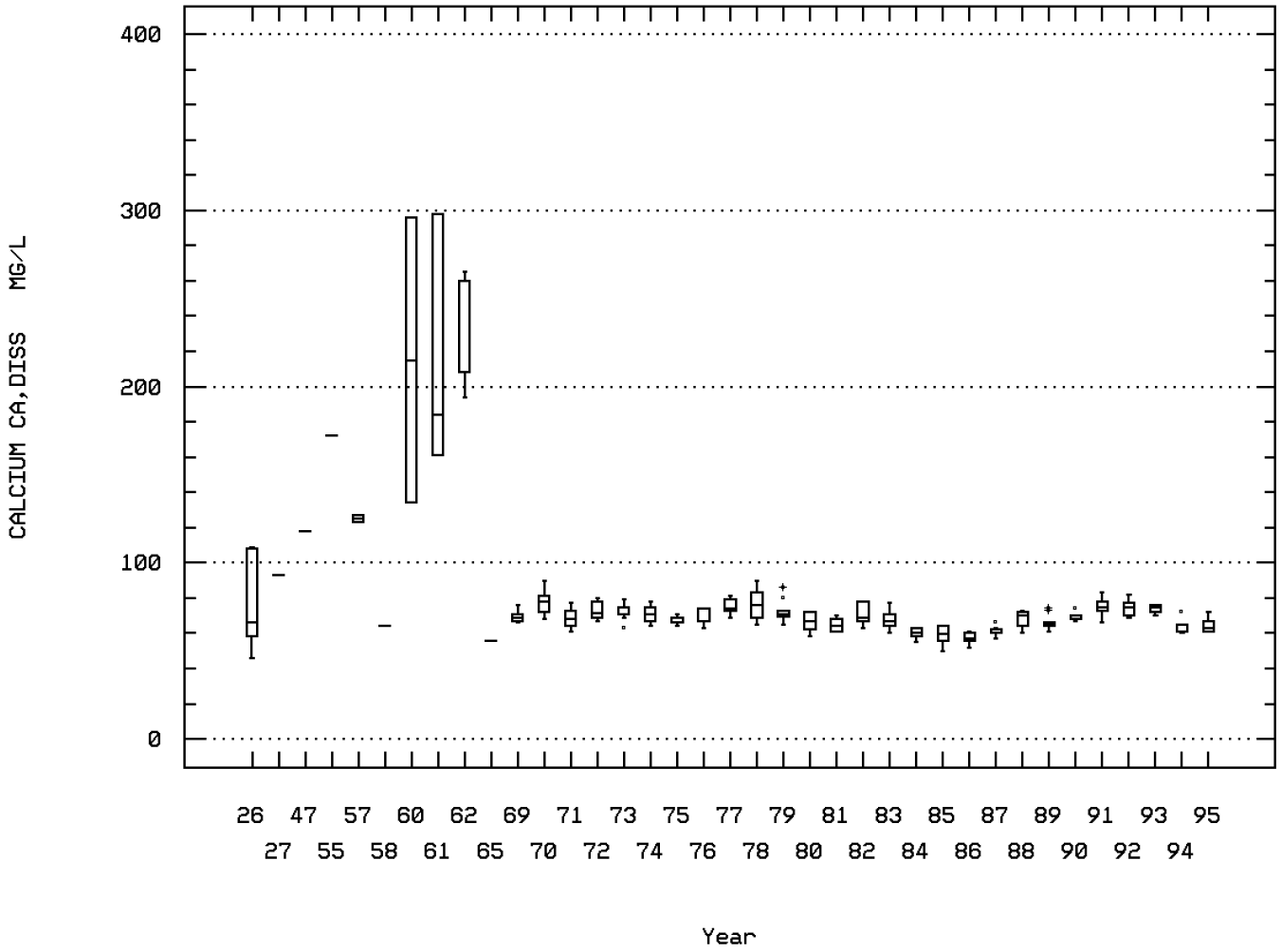
COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00915

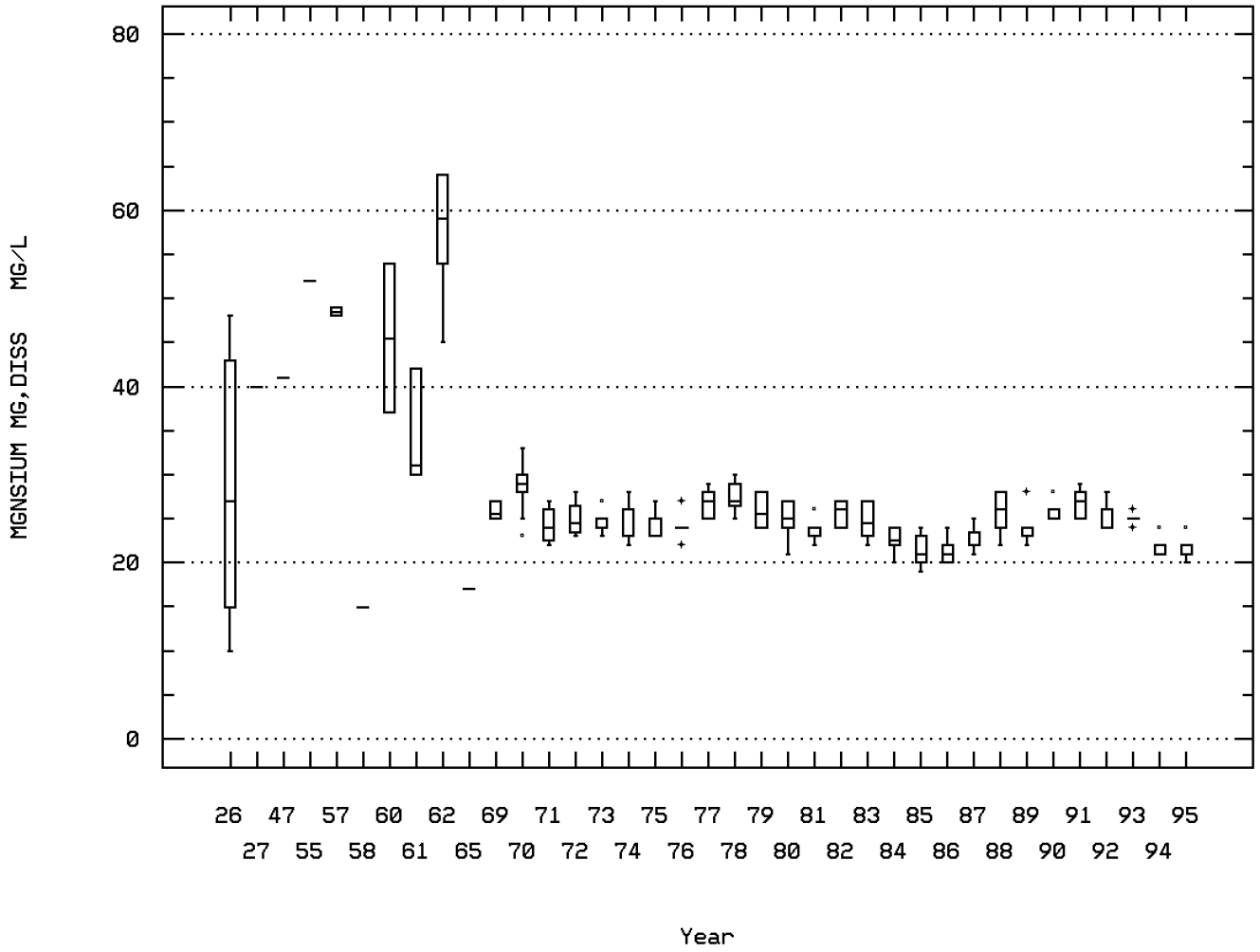
CALCIUM, DISSOLVED (MG/L AS CA)



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00925

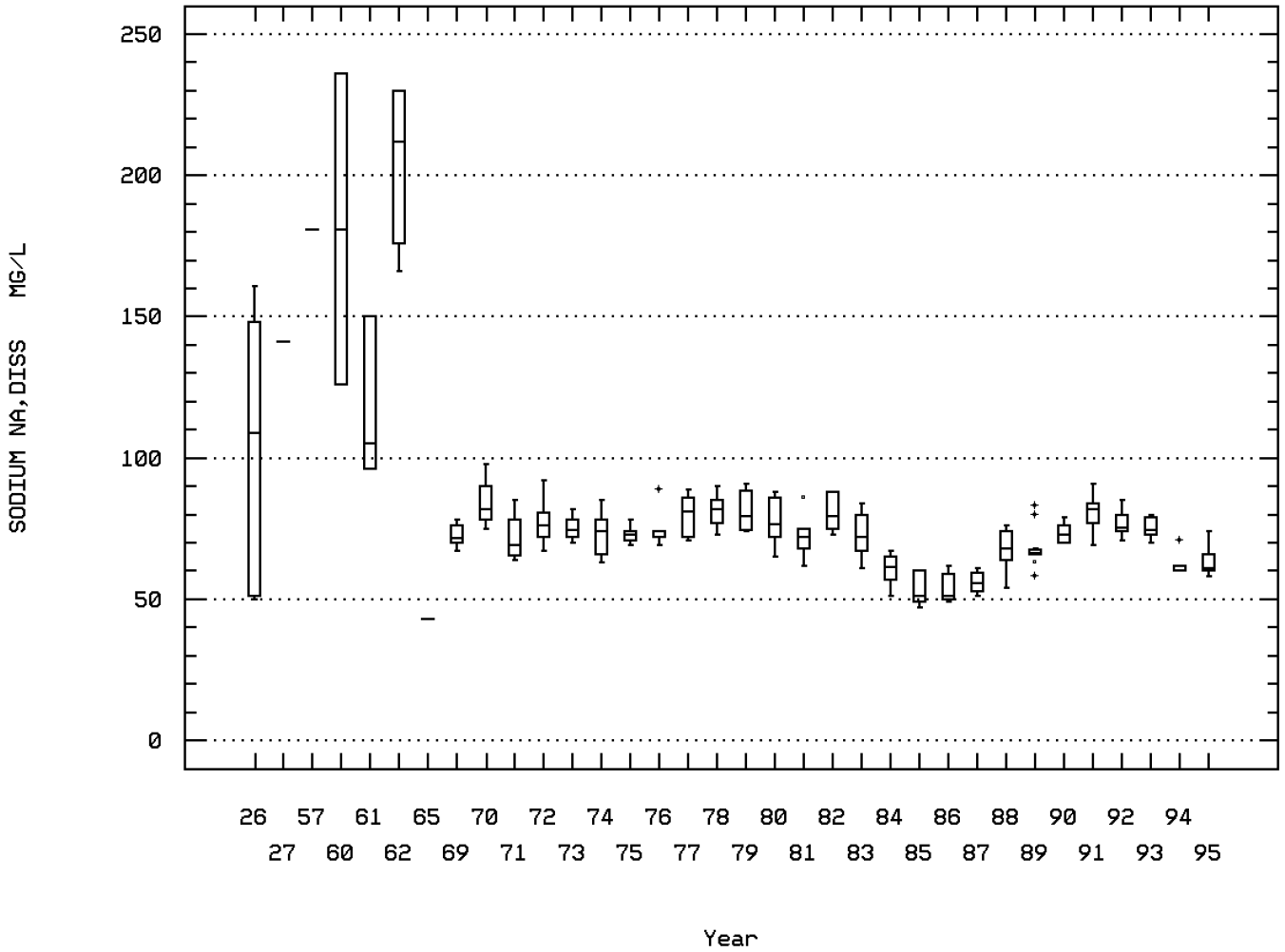
MAGNESIUM, DISSOLVED (MG/L AS MG)



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00930

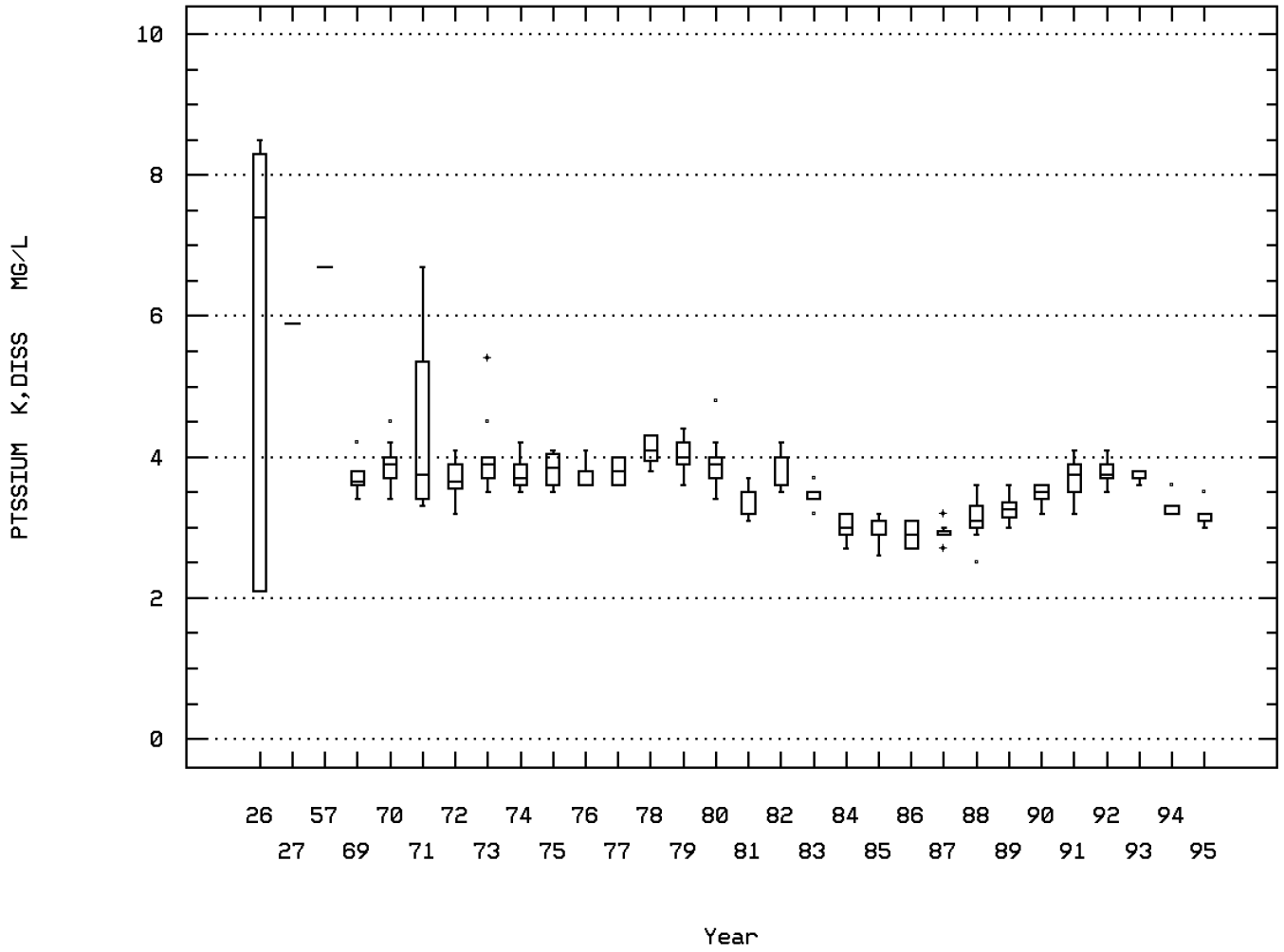
SODIUM, DISSOLVED (MG/L AS NA)



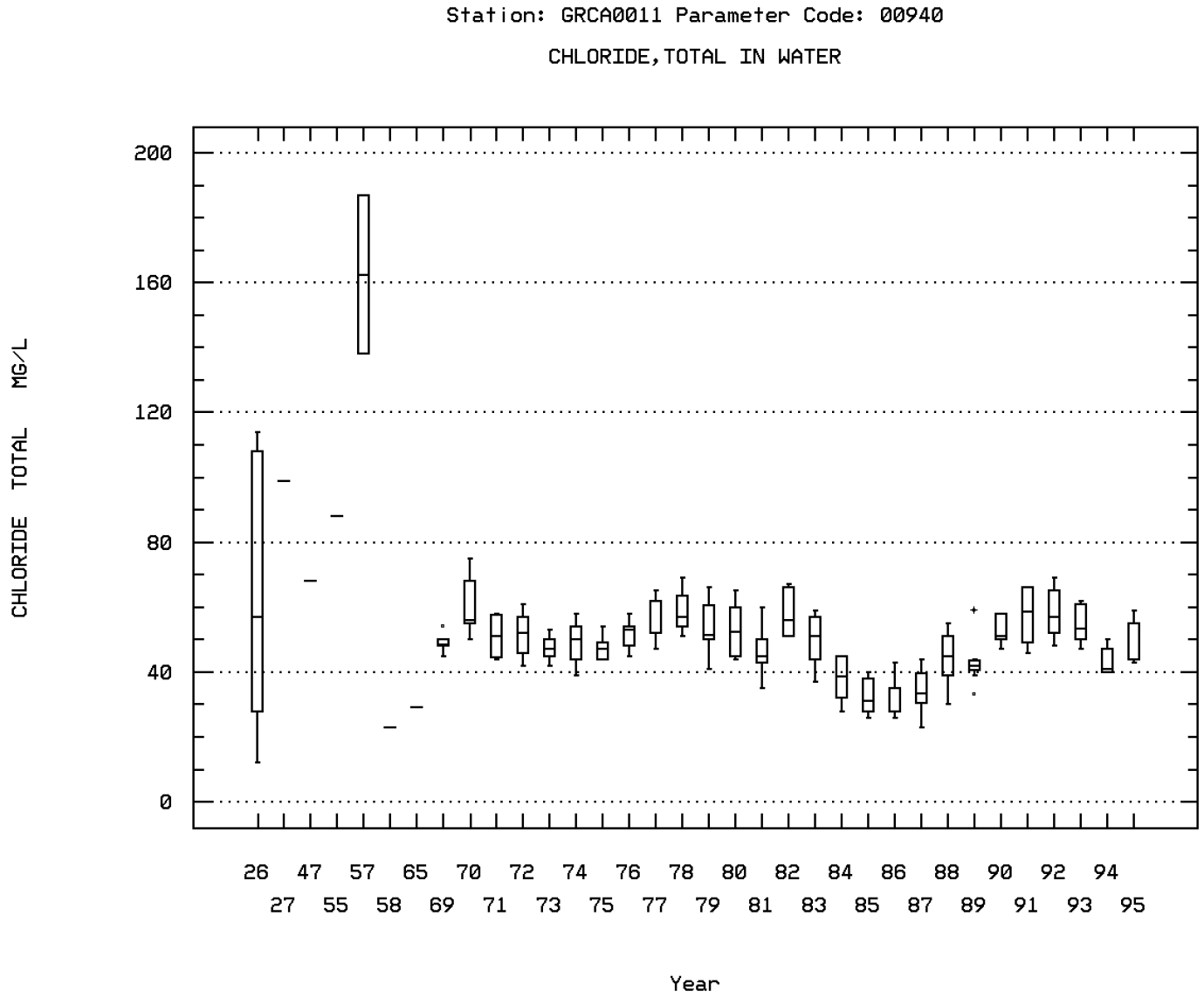
COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00935

POTASSIUM, DISSOLVED (MG/L AS K)



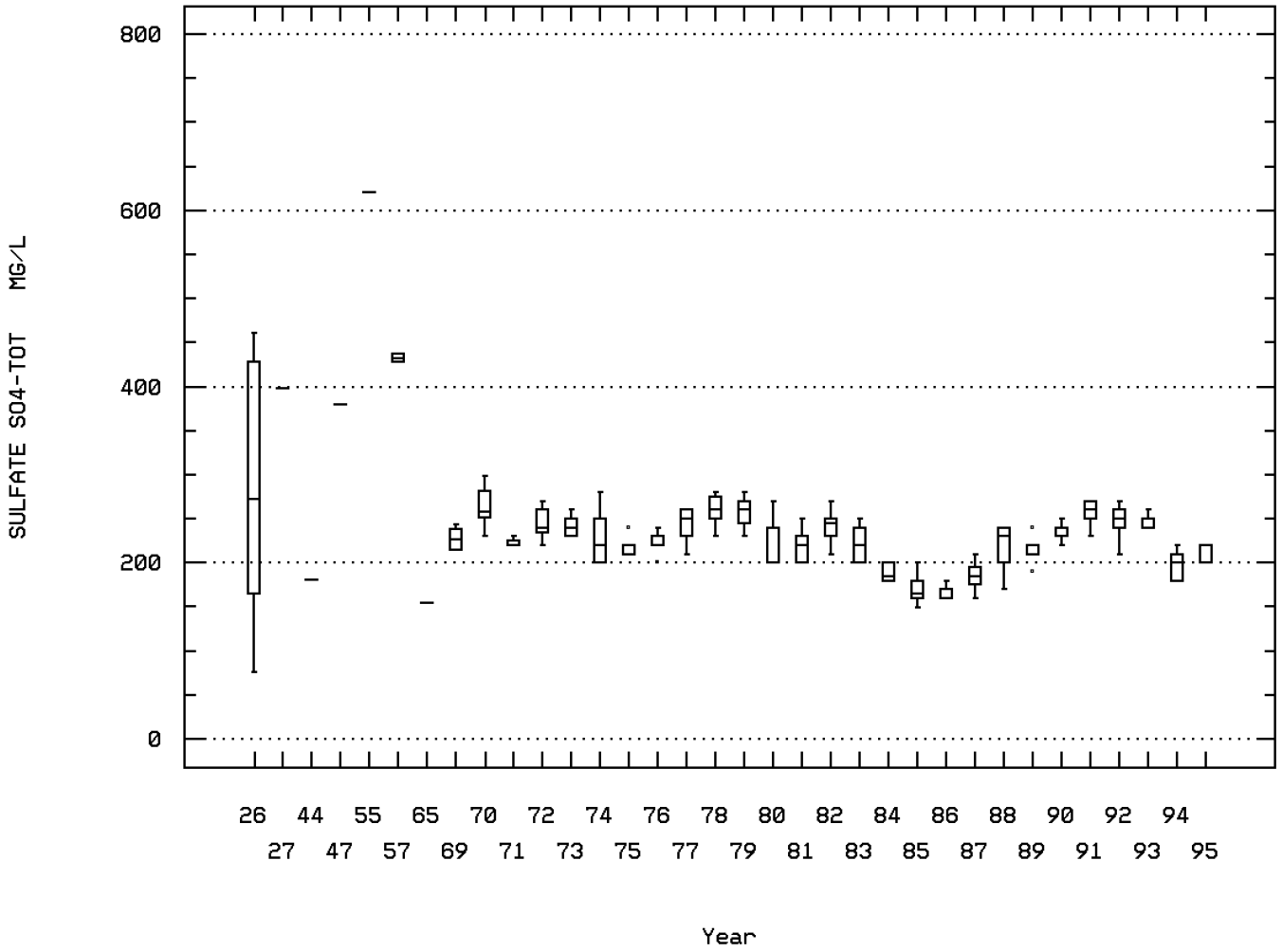
COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00945

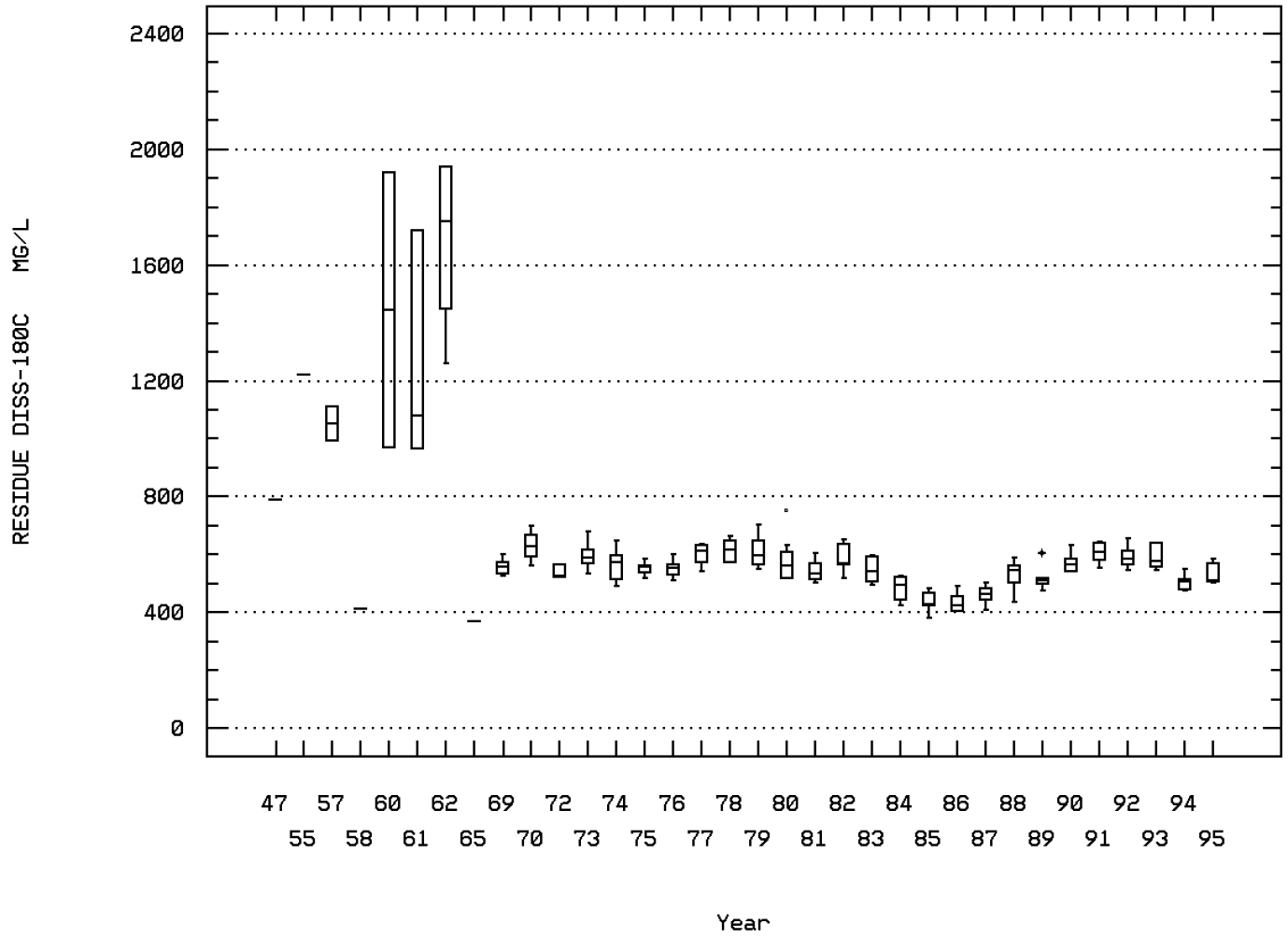
SULFATE, TOTAL (MG/L AS SO4)



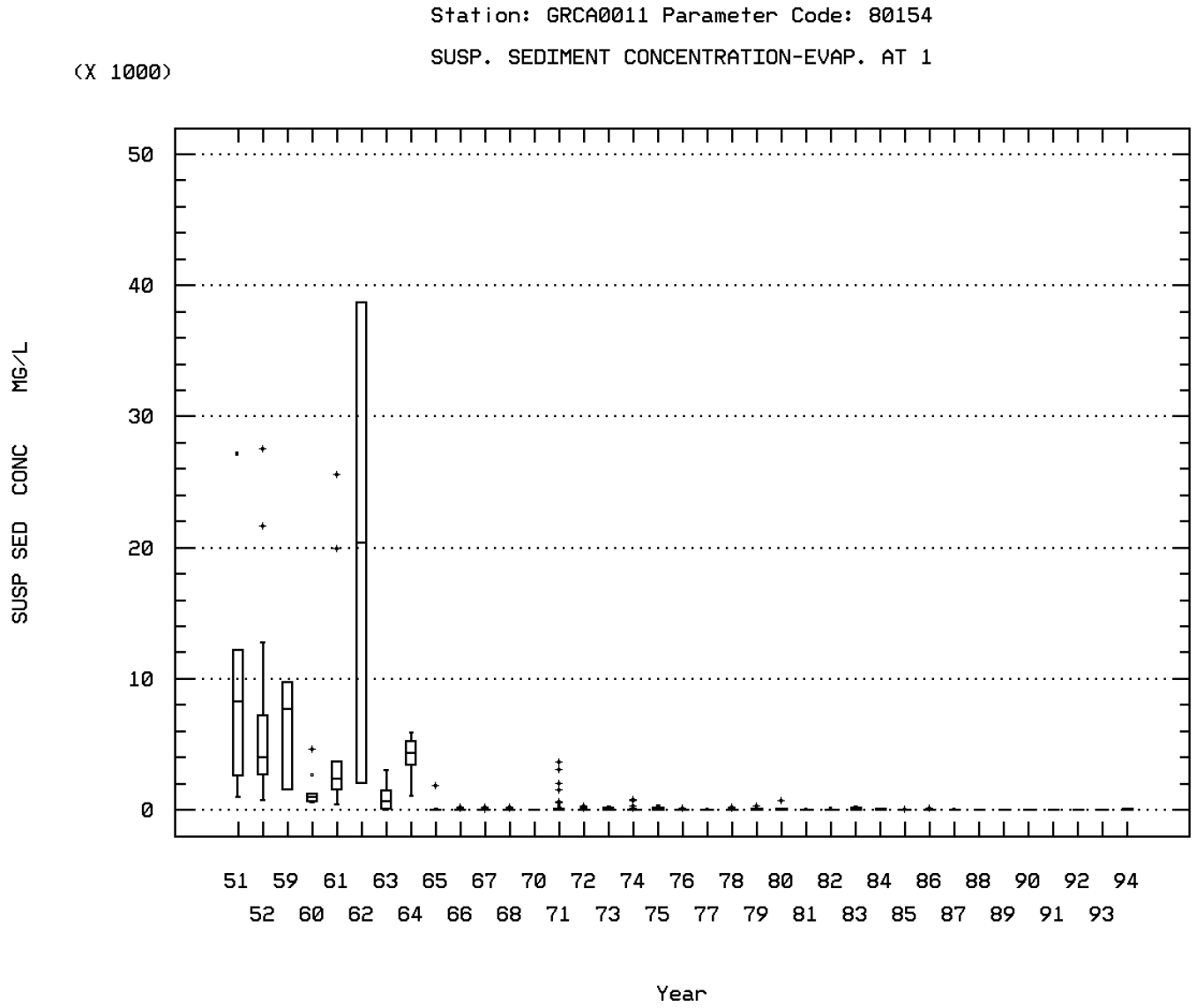
COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 70300

RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



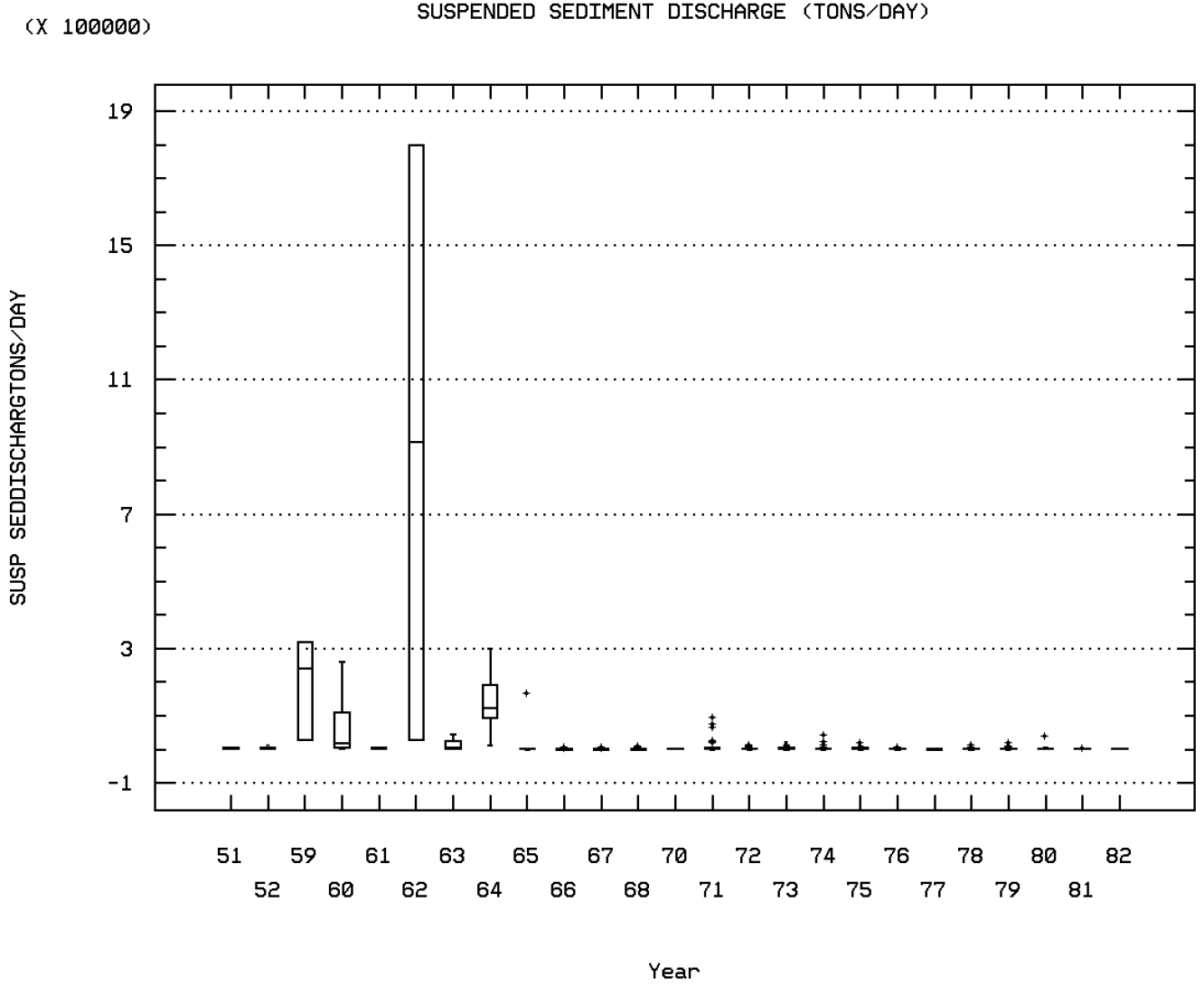
COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 80155

SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)



COLORADO R AT LEES FERRY, AZ.

Seasonal Analysis for Season #1: 10/01 to 3/14 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	11/06/85-09/21/95	40	402.	383.4	430.	0.	8005.426	89.473	394.	394.	407.5	412.7
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	180	8.9	9.377	19.4	0.	10.205	3.195	7.	7.5	10.375	14.36
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/69-09/21/95	64	12.25	12.73	26.	1.5	35.544	5.962	5.25	7.625	17.	21.
00025	BAROMETRIC PRESSURE (MM OF HG)	11/05/81-09/21/95	60	688.	687.65	701.	673.	28.062	5.297	680.	685.	691.	694.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	191	10300.	10629.895	25000.	1610.	23571024.2	4855.	4062.	6870.	13700.	17600.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	152	11800.	12518.507	29200.	1680.	40502026.689	6364.12	4724.	7920.	16200.	23280.
00065	STAGE, STREAM (FEET)	11/02/82-09/21/95	59	9.41	9.289	11.94	7.07	2.714	1.647	7.07	7.82	10.75	11.53
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	66	0.8	1.2	26.	0.2	9.83	3.135	0.3	0.4	1.2	1.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	127	808.	859.811	2430.	590.	73747.916	271.566	678.	750.	874.	940.
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	87	8.4	8.446	12.5	6.	1.073	1.036	7.3	7.8	9.	9.5
00340	COD, .25N K2CR2O7 MG/L	01/04/85-09/21/95	29	12.	19.034	86.	5.	456.249	21.36	5.	5.	19.5	61.
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	127	8.	7.907	8.6	6.2	0.179	0.423	7.48	7.8	8.18	8.222
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	127	8.	7.52	8.6	6.2	0.329	0.574	7.48	7.8	8.18	8.222
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	127	0.01	0.03	0.631	0.003	0.007	0.081	0.006	0.007	0.016	0.033
00403	PH, LAB, STANDARD UNITS SU	11/06/80-09/21/95	55	8.1	8.064	8.5	7.6	0.026	0.16	7.9	8.	8.2	8.24
00403	CONVERTED PH, LAB, STANDARD UNITS	11/06/80-09/21/95	55	8.1	8.033	8.5	7.6	0.027	0.163	7.9	8.	8.2	8.24
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/06/80-09/21/95	55	0.008	0.009	0.025	0.003	0.	0.004	0.006	0.006	0.01	0.013
00405	CARBON DIOXIDE (MG/L AS CO2)	07/31/55-05/03/78	23	2.5	4.113	16.	1.	15.533	3.941	1.3	1.6	4.3	11.2
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	72	128.	124.083	181.	0.	854.275	29.228	113.9	120.25	131.	140.
00440p	BICARBONATE ION (MG/L AS HCO3)	01/11/26-09/23/87	46	160.	166.326	292.	0.	3426.18	58.534	147.4	153.	174.	243.2
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	34	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/24/86-09/21/95	39	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/24/86-09/21/95	39	162.	160.359	178.	131.	78.026	8.833	148.	156.	166.	170.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/04/85-09/21/95	34	3.	2.971	11.	0.5	6.348	2.519	0.5	1.	4.25	5.
00600	NITROGEN, TOTAL (MG/L AS N)	03/15/74-09/02/81	22	0.835	0.96	1.9	0.49	0.128	0.358	0.598	0.69	1.225	1.47
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/17/79-09/21/95	61	0.02	0.029	0.12	0.	0.001	0.029	0.005	0.01	0.03	0.08
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	63	0.01	0.016	0.09	0.	0.	0.016	0.005	0.005	0.02	0.03
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/10/73-09/21/95	37 ##	0.005	0.006	0.02	0.005	0.	0.003	0.005	0.005	0.005	0.01
00618p	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/11/26-05/30/75	13	0.54	0.878	3.4	0.41	0.734	0.857	0.414	0.48	0.815	2.8
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/07/77-07/09/91	16	0.38	0.481	1.2	0.09	0.083	0.288	0.174	0.278	0.655	0.997
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	81	0.3	0.367	1.2	0.1	0.069	0.262	0.1	0.1	0.515	0.75
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	70	0.4	0.39	0.68	0.04	0.012	0.11	0.255	0.33	0.415	0.539
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	83	0.4	0.431	1.1	0.1	0.027	0.164	0.3	0.3	0.5	0.6
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/09/70-03/02/83	23	0.03	0.139	2.5	0.	0.266	0.516	0.	0.	0.06	0.108
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	83	0.01	0.013	0.05	0.	0.	0.01	0.005	0.005	0.02	0.03
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/07/77-09/21/95	69	0.01	0.014	0.09	0.	0.	0.014	0.005	0.005	0.02	0.03
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/23/71-09/21/95	71 ##	0.005	0.021	0.8	0.	0.009	0.094	0.005	0.005	0.01	0.03
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/28/74-10/10/89	23	3.	3.274	4.7	2.7	0.36	0.6	2.7	2.8	3.6	4.4
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	63	280.	331.524	960.	240.	21652.737	147.149	250.	260.	310.	496.4
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	56	153.	200.429	766.	120.	16425.995	128.164	130.	140.	177.5	321.9
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	109	67.	76.321	296.	50.	1347.72	36.711	60.	63.	72.	100.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	109	24.	26.138	59.	19.	52.768	7.264	22.	23.	26.	30.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	107	71.	77.037	236.	47.	969.904	31.143	54.	64.	77.	87.
00931p	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	61	2.	2.121	3.5	1.7	0.157	0.396	1.8	1.9	2.1	2.8
00932p	SODIUM, PERCENT	01/11/26-03/02/83	57	37.	37.456	49.	27.	12.824	3.581	35.	36.	38.	42.2
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	101	3.6	3.662	8.5	2.6	0.855	0.925	2.9	3.2	3.8	4.
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	103	45.	48.592	187.	26.	382.009	19.545	30.4	40.	52.	58.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	103	220.	226.67	461.	150.	2808.243	52.993	174.	200.	240.	260.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	91	0.3	0.312	1.9	0.1	0.034	0.184	0.2	0.3	0.3	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	89	8.2	8.685	25.	6.8	6.574	2.564	7.2	7.7	8.8	9.1
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/28/74-09/21/95	49	1.	1.418	3.	0.5	0.337	0.58	1.	1.	2.	2.
01002	ARSENIC, TOTAL (UG/L AS AS)	05/28/74-09/21/95	47	1.	1.468	3.	0.5	0.417	0.646	1.	1.	2.	2.
01005	BARIUM, DISSOLVED (UG/L AS BA)	02/02/78-09/21/95	49	89.	88.653	120.	50.	244.773	15.645	76.	82.	100.	110.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/02/82-09/21/95	17 ##	0.25	0.529	5.	0.25	1.327	1.152	0.25	0.25	0.25	1.2
01020p	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	53	90.	91.321	450.	10.	2946.299	54.28	60.	70.	90.	100.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/28/74-09/21/95	48 ##	0.5	2.198	32.	0.5	22.923	4.788	0.5	0.5	2.	4.1
01027	CADMIUM, TOTAL (UG/L AS CD)	05/28/74-09/21/95	44 ##	0.5	4.591	100.	0.	239.375	15.472	0.5	0.5	2.	10.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/28/74-09/21/95	48 ##	0.5	1.177	5.	0.	2.058	1.435	0.	0.5	1.75	4.1
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/28/74-09/21/95	46	1.5	4.457	46.	0.	58.865	7.672	0.	0.5	5.25	10.9

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

Seasonal Analysis for Season #1: 10/01 to 3/14 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01035	COBALT, DISSOLVED (UG/L AS CO)	05/28/74-09/21/95	34 ##	1.5	1.324	1.5	0.	0.195	0.442	0.5	1.5	1.5	1.5
01040	COPPER, DISSOLVED (UG/L AS CU)	05/28/74-09/21/95	48	4.	3.865	10.	0.	5.019	2.24	0.95	2.	5.	7.
01042	COPPER, TOTAL (UG/L AS CU)	05/28/74-09/21/95	45	6.	11.4	110.	0.5	316.052	17.778	1.	3.	13.5	24.
01045p	IRON, TOTAL (UG/L AS FE)	10/12/47-09/21/95	43	50.	93.14	850.	5.	21032.171	145.025	20.	30.	100.	224.
01046p	IRON, DISSOLVED (UG/L AS FE)	01/11/26-09/21/95	69	5.	21.63	190.	0.	1830.417	42.783	1.5	4.	20.	100.
01049	LEAD, DISSOLVED (UG/L AS PB)	05/28/74-09/21/95	48 ##	2.5	4.042	51.	0.	67.424	8.211	0.5	0.5	3.75	6.2
01051	LEAD, TOTAL (UG/L AS PB)	05/28/74-09/21/95	47	2.5	9.915	100.	0.	453.101	21.286	0.5	0.5	6.	27.6
01055	MANGANESE, TOTAL (UG/L AS MN)	05/28/74-09/21/95	46 ##	5.	11.848	120.	5.	322.621	17.962	5.	5.	10.	30.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/28/74-09/21/95	50 ##	1.	2.03	8.	0.5	3.994	1.998	0.5	0.5	3.5	5.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/02/82-09/21/95	24 ##	5.	5.625	10.	5.	2.853	1.689	5.	5.	5.	10.
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/15/79-09/21/95	30	2.	2.083	9.	0.	2.674	1.635	0.5	1.	3.	3.
01075	SILVER, DISSOLVED (UG/L AS AG)	02/02/78-09/21/95	48 ##	0.5	0.49	2.	0.	0.08	0.282	0.	0.5	0.5	0.5
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/02/82-09/21/95	23	750.	762.174	930.	630.	9017.787	94.962	630.	680.	840.	910.
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/02/82-09/21/95	24 ##	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/28/74-09/21/95	49	7.	13.827	200.	1.5	811.141	28.481	1.5	4.	14.5	22.
01092	ZINC, TOTAL (UG/L AS ZN)	05/28/74-09/21/95	46 ##	7.5	25.761	310.	5.	2594.408	50.935	5.	5.	30.	50.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/02/82-09/21/95	24 ##	5.	9.375	20.	5.	35.462	5.955	5.	5.	10.	20.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/02/82-09/21/95	24	29.	30.	39.	24.	19.652	4.433	25.	27.	33.75	38.5
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/28/74-09/21/95	51	2.	2.461	5.	0.5	0.688	0.83	2.	2.	3.	3.
01147	SELENIUM, TOTAL (UG/L AS SE)	05/28/74-09/21/95	47	3.	2.489	6.	0.5	1.016	1.008	0.9	2.	3.	3.2
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	59 ##	0.5	0.763	2.	0.	0.21	0.458	0.5	0.5	1.	1.5
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	59 ##	-0.301	-0.16	0.301	-0.301	0.04	0.2	-0.301	-0.301	0.	0.176
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.691								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	02/03/77-09/21/95	56 ##	1.	3.214	60.	0.5	70.426	8.392	0.5	0.5	3.	6.6
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	02/03/77-09/21/95	56 ##	0.	0.089	1.778	-0.301	0.249	0.499	-0.301	-0.301	0.477	0.816
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			1.228								
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	10/12/88-09/21/95	27	135.	133.963	144.	123.	21.037	4.587	129.	131.	137.	140.2
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/24/86-09/21/95	39	133.	131.385	146.	107.	52.98	7.279	121.	128.	136.	139.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	100	536.5	586.51	1920.	383.	56343.485	237.368	435.4	503.25	575.	646.3
70301p	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	48	544.5	574.625	1110.	464.	19555.771	139.842	488.9	503.5	572.5	637.3
70302p	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	63	20100.	20769.854	51500.1	2240.	110074815.109	10491.655	6664.	12700.	28300.	35280.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	64	0.76	0.904	2.61	0.67	0.151	0.388	0.69	0.722	0.84	1.365
70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	10/02/51-01/01/63	10	4.	5.5	17.	1.	22.278	4.72	1.	2.5	7.5	16.2
70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	10/02/51-01/01/63	10	7.	8.1	21.	2.	27.878	5.28	2.2	4.75	10.25	20.
70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	10/02/51-01/01/63	11	17.	19.455	36.	8.	82.473	9.081	8.4	12.	24.	35.6
70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	10/31/51-01/01/63	9	49.	51.889	71.	23.	199.361	14.12	23.	46.	62.5	71.
70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	10/02/51-01/01/63	10	80.5	75.	93.	34.	291.556	17.075	36.9	66.75	87.	92.4
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	98	72.5	67.347	100.	3.	693.569	26.336	26.6	49.	90.	97.2
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/02/51-08/12/65	48	93.	89.354	100.	66.	91.383	9.559	72.8	82.	97.	99.
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/02/51-08/12/65	45	99.	98.156	100.	94.	2.907	1.705	95.6	97.5	99.	100.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/02/51-01/01/63	37	100.	99.919	100.	99.	0.077	0.277	99.8	100.	100.	100.
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	10/02/51-04/10/65	18	24.5	24.667	51.	2.	298.235	17.269	2.	6.5	40.5	48.3
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/51-04/10/65	46	47.	42.239	88.	2.	414.364	20.356	8.	28.	56.75	68.6
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	10/02/51-01/01/63	11	46.	45.182	71.	21.	368.164	19.188	21.4	24.	64.	70.
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/51-04/10/65	46	64.5	56.848	93.	2.	650.132	25.498	12.	38.5	77.25	86.2
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	10/02/51-01/01/63	11	76.	64.	92.	35.	562.6	23.719	35.8	39.	87.	91.4
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	01/11/26-05/30/75	13	2.4	3.885	15.	1.8	14.258	3.776	1.84	2.15	3.6	12.36
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/15/74-09/02/81	22	3.7	4.232	8.2	2.2	2.367	1.539	2.66	3.1	5.425	6.41
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/28/74-09/21/95	30 ##	0.05	0.075	0.3	0.	0.005	0.073	0.05	0.05	0.05	0.245
71900	MERCURY, TOTAL (UG/L AS HG)	05/28/74-09/21/95	42 ##	0.05	0.085	1.1	0.05	0.027	0.164	0.05	0.05	0.05	0.1
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	277	13.	1460.377	38700.	1.	23012017.271	4797.084	3.	6.	127.	3254.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	241	555.	12852.655	1800000.	17.14090563897.978		118703.681	62.	192.5	2870.	6199.99

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

Seasonal Analysis for Season #2: 3/15 to 6/19 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	11/06/85-09/21/95	15	400.	401.533	423.	368.	127.981	11.313	387.2	400.	407.	415.2
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	108	9.	9.944	21.7	7.	5.669	2.381	7.5	8.3	11.1	13.36
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/69-09/21/95	25	21.5	21.84	35.	10.	42.307	6.504	13.2	15.75	27.	30.7
00025	BAROMETRIC PRESSURE (MM OF HG)	11/05/81-09/21/95	23	684.	654.217	691.	0.	20350.542	142.655	678.4	680.	685.	690.
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	118	14200.	15190.847	77500.	1010.	97338611.241	9866.033	6800.	9742.5	17650.	23900.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	102	17200.	33195.686	115000.	2580.	1084650553.485	32934.033	6205.	10325.	43875.	97000.
00065	STAGE, STREAM (FEET)	11/02/82-09/21/95	22	9.08	9.71	14.19	7.07	4.208	2.051	7.311	8.175	11.095	13.558
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	33	0.6	6.903	200.	0.2	1202.025	34.67	0.3	0.45	1.4	2.22
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	64	940.	921.547	1080.	587.	9379.299	96.847	775.	885.25	980.75	1010.
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	39	8.6	8.633	12.8	0.	3.532	1.879	7.1	8.2	9.3	10.1
00340	COD, .25N K2CR2O7 MG/L	01/04/85-09/21/95	18	11.	12.056	26.	5.	41.938	6.476	5.	5.	17.25	21.5
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	62	8.	7.923	8.3	6.	0.192	0.438	7.7	7.9	8.1	8.2
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	62	8.	7.323	8.3	6.	0.557	0.746	7.7	7.9	8.1	8.2
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	62	0.01	0.048	1.	0.005	0.032	0.18	0.006	0.008	0.013	0.02
00403	PH, LAB, STANDARD UNITS SU	11/06/80-09/21/95	25	8.1	8.068	8.3	7.8	0.021	0.144	7.86	7.95	8.2	8.24
00403	CONVERTED PH, LAB, STANDARD UNITS	11/06/80-09/21/95	25	8.1	8.045	8.3	7.8	0.021	0.145	7.86	7.95	8.2	8.24
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/06/80-09/21/95	25	0.008	0.009	0.016	0.005	0.	0.003	0.006	0.006	0.011	0.014
00405	CARBON DIOXIDE (MG/L AS CO2)	07/31/55-05/03/78	24	2.7	3.096	6.7	1.7	1.259	1.122	2.1	2.7	3.45	5.
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	51	138.	135.882	340.	0.	1653.786	40.667	126.	130.	140.	149.
00440p	BICARBONATE ION (MG/L AS HCO3)	01/11/26-09/23/87	33	170.	155.364	206.	0.	2624.489	51.23	55.6	166.	175.5	182.
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	28	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/24/86-09/21/95	16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/24/86-09/21/95	16	173.5	172.125	182.	157.	47.717	6.908	160.5	168.5	177.75	179.9
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/04/85-09/21/95	17	3.	3.676	10.	0.5	11.717	3.423	0.5	0.5	7.	9.2
00600	NITROGEN, TOTAL (MG/L AS N)	03/15/74-09/02/81	19	0.93	0.962	1.5	0.78	0.031	0.175	0.79	0.82	1.	1.2
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/17/79-09/21/95	27	0.02	0.03	0.12	0.005	0.001	0.036	0.005	0.005	0.03	0.102
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	29	0.02	0.023	0.09	0.	0.	0.021	0.005	0.005	0.03	0.06
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/10/73-09/21/95	25 ##	0.005	0.006	0.01	0.005	0.	0.002	0.005	0.005	0.005	0.01
00618p	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/11/26-05/30/75	12	0.53	0.509	0.81	0.11	0.038	0.194	0.131	0.493	0.625	0.774
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/07/77-07/09/91	11	0.4	0.424	0.81	0.24	0.036	0.19	0.242	0.25	0.51	0.782
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	42	0.31	0.38	1.	0.1	0.054	0.233	0.1	0.23	0.47	0.728
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	37	0.44	0.469	0.68	0.3	0.009	0.093	0.392	0.4	0.55	0.59
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	42	0.4	0.474	0.8	0.3	0.015	0.121	0.4	0.4	0.525	0.7
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/09/70-03/02/83	18	0.03	0.106	0.95	0.	0.053	0.23	0.	0.	0.068	0.365
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	43	0.01	0.022	0.23	0.005	0.001	0.036	0.005	0.005	0.02	0.046
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/07/77-09/21/95	33	0.01	0.015	0.08	0.005	0.	0.016	0.005	0.005	0.02	0.036
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/23/71-09/21/95	36 ##	0.005	0.017	0.31	0.	0.003	0.051	0.005	0.005	0.01	0.023
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/28/74-10/10/89	9	3.7	4.156	8.	1.	3.993	1.998	1.	3.	5.35	8.
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	41	310.	302.024	396.	156.	1665.124	40.806	270.	290.	323.	350.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	38	165.	164.789	228.	42.	1309.684	36.19	119.1	157.5	187.	201.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	63	74.	74.079	93.	46.	77.107	8.781	62.4	70.	79.	86.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	63	27.	26.746	40.	10.	15.967	3.996	23.4	25.	28.	30.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	61	82.	81.918	141.	43.	188.077	13.714	61.2	76.	88.5	96.8
00931p	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	39	2.1	2.154	3.1	1.3	0.072	0.268	2.	2.	2.2	2.3
00932p	SODIUM, PERCENT	01/11/26-03/02/83	39	37.	37.333	45.	26.	7.07	2.659	36.	36.	38.	39.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	60	3.8	3.837	7.4	2.5	0.496	0.704	3.1	3.5	4.1	4.39
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	63	58.	57.111	99.	12.	169.262	13.01	40.	52.	65.	69.
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	62	250.	247.21	398.	76.	1775.709	42.139	200.	230.	270.	282.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	50	0.3	0.319	1.4	0.05	0.031	0.175	0.2	0.3	0.3	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	50	7.95	8.274	13.	6.6	1.409	1.187	7.3	7.6	8.55	9.3
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/28/74-09/21/95	25	1.	1.86	19.	0.5	12.969	3.601	0.5	1.	1.5	2.
01002	ARSENIC, TOTAL (UG/L AS AS)	05/28/74-09/21/95	22	1.	1.341	6.	0.5	1.295	1.138	0.5	1.	1.25	2.
01005	BARIUM, DISSOLVED (UG/L AS BA)	02/02/78-09/21/95	23	92.	95.043	200.	50.	851.498	29.18	59.6	82.	110.	120.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/02/82-09/21/95	9 ##	0.25	0.333	1.	0.25	0.063	0.25	0.25	0.25	0.25	1.
01020p	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	31	90.	93.226	130.	0.	442.581	21.038	80.	90.	100.	110.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/28/74-09/21/95	24 ##	0.5	3.313	53.	0.	113.257	10.642	0.5	0.5	2.	4.
01027	CADMIUM, TOTAL (UG/L AS CD)	05/28/74-09/21/95	22 ##	0.5	2.295	10.	0.	9.706	3.115	0.15	0.5	3.5	9.1
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/28/74-09/21/95	25 ##	0.5	1.12	10.	0.	4.027	2.007	0.	0.5	1.	2.7
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/28/74-09/21/95	23	2.	3.326	16.	0.	15.946	3.993	0.	0.5	6.	8.8

** - 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: 3/15 to 6/19 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01035	COBALT, DISSOLVED (UG/L AS CO)	05/28/74-09/21/95	18 ##	1.5	1.222	1.5	0.	0.33	0.575	0.	1.375	1.5	1.5
01040	COPPER, DISSOLVED (UG/L AS CU)	05/28/74-09/21/95	25	5.	5.76	27.	0.5	39.669	6.298	0.8	1.5	7.	14.8
01042	COPPER, TOTAL (UG/L AS CU)	05/28/74-09/21/95	23	10.	12.109	40.	0.5	141.454	11.893	1.	2.	16.	36.8
01045p	IRON, TOTAL (UG/L AS FE)	10/12/47-09/21/95	23	50.	52.391	150.	5.	1811.067	42.557	5.	20.	80.	130.
01046p	IRON, DISSOLVED (UG/L AS FE)	01/11/26-09/21/95	33	6.	20.258	220.	1.5	2559.814	50.595	1.5	4.	11.5	20.
01049	LEAD, DISSOLVED (UG/L AS PB)	05/28/74-09/21/95	25 ##	2.5	2.76	18.	0.	12.482	3.533	0.5	0.75	2.75	5.
01051	LEAD, TOTAL (UG/L AS PB)	05/28/74-09/21/95	23	3.	12.13	100.	0.5	782.482	27.973	0.5	2.	7.	66.8
01055	MANGANESE, TOTAL (UG/L AS MN)	05/28/74-09/21/95	23 ##	5.	8.261	30.	5.	42.292	6.503	5.	5.	10.	20.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/28/74-09/21/95	25 ##	1.	2.1	5.	0.5	4.063	2.016	0.5	0.5	5.	5.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/02/82-09/21/95	13 ##	5.	6.154	20.	5.	17.308	4.16	5.	5.	5.	14.
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/15/79-09/21/95	14	1.5	1.786	5.	0.	1.835	1.355	0.25	0.875	3.	4.
01075	SILVER, DISSOLVED (UG/L AS AG)	02/02/78-09/21/95	23 ##	0.5	0.478	1.	0.	0.056	0.237	0.	0.5	0.5	0.8
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/02/82-09/21/95	13	870.	866.154	1000.	700.	8508.974	92.244	704.	820.	955.	988.
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/02/82-09/21/95	13 ##	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/28/74-09/21/95	25	10.	10.08	30.	1.5	56.139	7.493	2.4	5.	15.5	20.
01092	ZINC, TOTAL (UG/L AS ZN)	05/28/74-09/21/95	23	10.	17.826	60.	5.	281.423	16.776	5.	5.	20.	52.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/02/82-09/21/95	13 ##	5.	8.846	20.	5.	42.308	6.504	5.	5.	15.	20.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/02/82-09/21/95	13	34.	36.077	42.	31.	14.077	3.752	31.8	33.	39.	42.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/28/74-09/21/95	25	3.	2.76	4.	0.5	0.753	0.867	1.4	2.5	3.	4.
01147	SELENIUM, TOTAL (UG/L AS SE)	05/28/74-09/21/95	23	3.	3.	5.	2.	0.545	0.739	2.	3.	3.	4.
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	34 ##	0.5	1.721	36.	0.5	36.836	6.069	0.5	0.5	1.	1.5
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	34 ##	-0.301	-0.158	1.556	-0.301	0.122	0.349	-0.301	-0.301	0.	0.151
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.695								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	02/03/77-09/21/95	34	2.	28.015	340.	0.5	6300.098	79.373	0.5	1.	8.25	84.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	02/03/77-09/21/95	34	0.301	0.514	2.531	-0.301	0.624	0.79	-0.301	0.	0.916	1.916
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			3.268								
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	10/12/88-09/21/95	10	144.	143.1	149.	130.	31.211	5.587	131.	140.75	147.25	148.9
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/24/86-09/21/95	16	142.5	141.188	149.	129.	31.229	5.588	131.8	138.25	145.75	147.6
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	57	613.	604.93	749.	368.	5222.245	72.265	493.	582.5	650.5	694.
70301p	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	31	602.	596.774	895.	238.	8134.914	90.194	554.2	566.	624.	643.4
70302p	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	41	23000.	22740.976	56240.	5550.	144055164.024	12002.298	7222.	13250.	29800.	37180.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	41	0.86	0.847	1.22	0.32	0.019	0.137	0.772	0.82	0.905	0.95
70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	10/02/51-01/01/63	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	10/02/51-01/01/63	5	6.	6.	10.	3.	9.5	3.082	**	**	**	**
70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	10/02/51-01/01/63	2	23.5	23.5	29.	18.	60.5	7.778	**	**	**	**
70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	10/31/51-01/01/63	5	37.	35.6	53.	23.	141.8	11.908	**	**	**	**
70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	10/02/51-01/01/63	2	45.	45.	50.	40.	50.	7.071	**	**	**	**
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	69	60.	59.188	93.	11.	335.626	18.32	35.	47.	73.	81.
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/02/51-08/12/65	42	75.	76.214	99.	53.	129.636	11.386	60.	70.75	86.25	92.4
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/02/51-08/12/65	42	93.	92.548	100.	63.	40.644	6.375	85.3	91.	97.	98.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/02/51-01/01/63	40	100.	99.8	100.	96.	0.472	0.687	99.	100.	100.	100.
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	10/02/51-04/10/65	18	18.	15.	38.	1.	131.059	11.448	1.9	2.	23.25	29.
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/51-04/10/65	44	21.	21.568	49.	2.	136.018	11.663	3.	14.	30.	37.5
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	10/02/51-01/01/63	2	28.	28.	31.	25.	18.	4.243	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/51-04/10/65	44	34.	33.364	74.	2.	320.423	17.9	4.	22.	45.75	56.
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	10/02/51-01/01/63	2	43.	43.	48.	38.	50.	7.071	**	**	**	**
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	01/11/26-05/30/75	12	2.35	2.258	3.6	0.5	0.746	0.864	0.59	2.2	2.775	3.45
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/15/74-09/02/81	19	4.1	4.268	6.7	3.5	0.646	0.804	3.5	3.6	4.6	5.4
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/28/74-09/21/95	17 ##	0.05	0.138	1.	0.	0.055	0.234	0.04	0.05	0.15	0.4
71900	MERCURY, TOTAL (UG/L AS HG)	05/28/74-09/21/95	19 ##	0.05	0.089	0.25	0.05	0.005	0.074	0.05	0.05	0.1	0.25
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	178	24.5	1282.219	12800.	1.	6343107.596	2518.553	4.	8.75	1365.	4481.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	158	1275.	11988.285	299000.	28.	1705237477.989	41294.521	131.3	285.5	4145.	9721.991

** - Less than 9 observations ## - Computed 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: 6/20 to 9/30 - Station GRCA0011

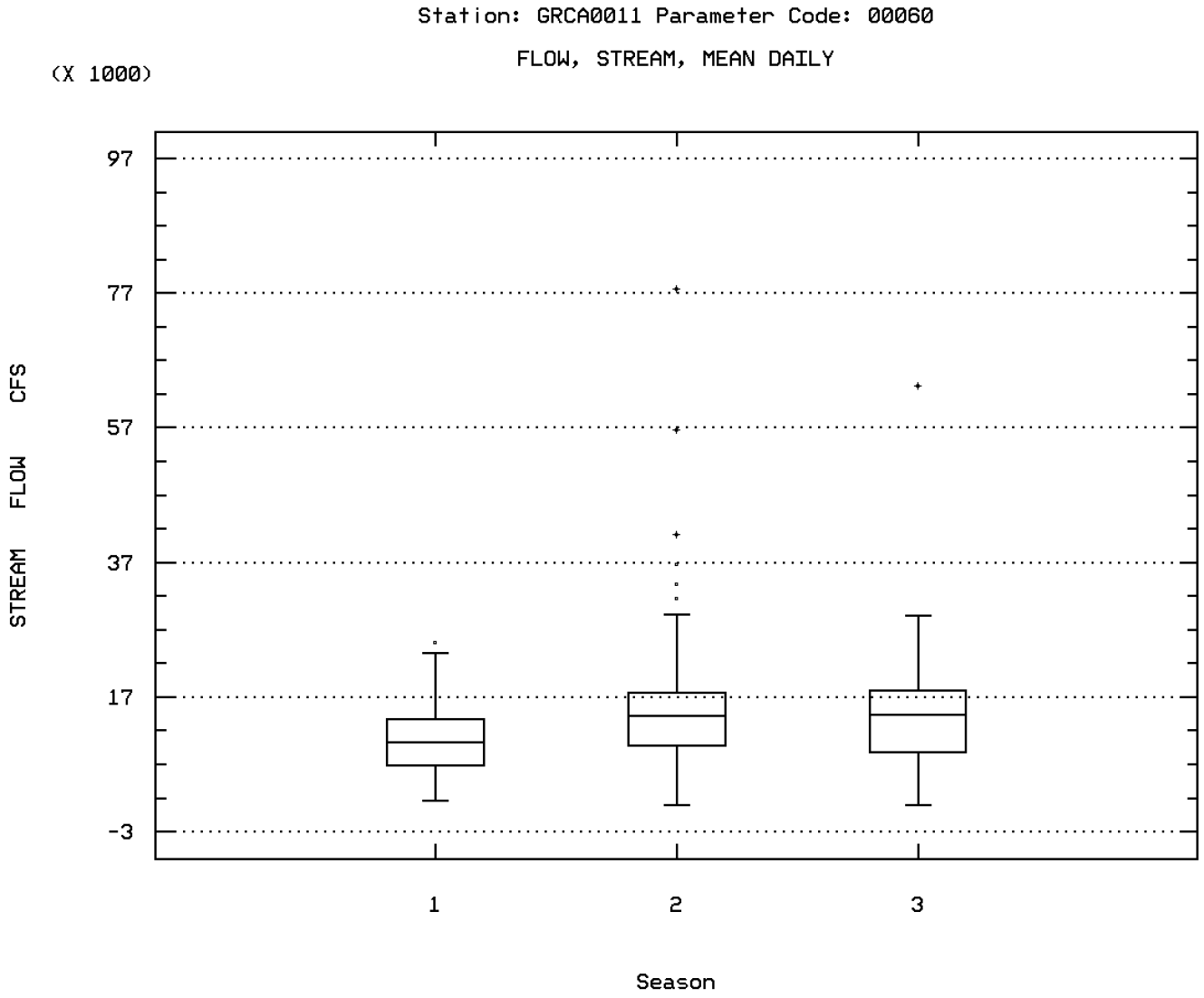
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	11/06/85-09/21/95	12	407.5	373.667	420.	0.	13884.061	117.831	120.	400.	410.	418.2
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/59-09/22/95	133	10.4	13.267	27.2	7.5	22.152	4.707	9.	10.	18.15	20.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/20/69-09/21/95	30	31.	30.	40.	16.5	35.914	5.993	21.05	25.875	34.	37.85
00025	BAROMETRIC PRESSURE (MM OF HG)	11/05/81-09/21/95	24	685.	683.542	690.	675.	16.52	4.064	678.	680.	686.75	688.5
00060p	FLOW, STREAM, MEAN DAILY CFS	01/11/26-09/18/78	127	14400.	13943.858	63200.	1000.	54950819.123	7412.882	5390.	8830.	17900.	20300.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-09/21/95	90	16000.	18434.	77500.	2460.	154744408.539	12439.631	7937.	11200.	22125.	26890.
00065	STAGE, STREAM (FEET)	11/02/82-09/21/95	24	10.225	10.282	12.12	8.25	1.168	1.081	8.735	9.535	11.27	11.81
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/06/78-09/21/95	33	0.6	1.348	10.	0.2	5.279	2.298	0.2	0.4	1.1	3.3
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/01/42-09/22/95	98	820.	857.357	2400.	607.	94267.593	307.03	662.	665.	879.75	930.
00300	OXYGEN, DISSOLVED MG/L	07/30/69-09/21/95	39	8.4	8.305	10.2	6.	0.857	0.926	6.8	7.8	9.	9.6
00340	COD, .25N K2CR2O7 MG/L	01/04/85-09/21/95	19 ##	5.	11.368	37.	5.	84.579	9.197	5.	5.	16.	28.
00400p	PH (STANDARD UNITS)	10/12/47-09/22/95	71	7.9	7.87	8.8	6.	0.21	0.458	7.32	7.8	8.1	8.284
00400p	CONVERTED PH (STANDARD UNITS)	10/12/47-09/22/95	71	7.9	7.416	8.8	6.	0.419	0.647	7.32	7.8	8.1	8.284
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/12/47-09/22/95	71	0.013	0.038	1.	0.002	0.016	0.127	0.005	0.008	0.016	0.048
00403	PH, LAB, STANDARD UNITS SU	11/06/80-09/21/95	27	8.1	8.044	8.5	7.8	0.029	0.169	7.8	7.9	8.2	8.2
00403	CONVERTED PH, LAB, STANDARD UNITS	11/06/80-09/21/95	27	8.1	8.014	8.5	7.8	0.03	0.172	7.8	7.9	8.2	8.2
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/06/80-09/21/95	27	0.008	0.01	0.016	0.003	0.	0.004	0.006	0.006	0.013	0.016
00405	CARBON DIOXIDE (MG/L AS CO2)	07/31/55-05/03/78	21	3.2	4.243	19.	0.6	18.252	4.272	1.06	2.05	4.	11.72
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	01/11/26-02/07/90	48	130.	125.875	197.	0.	554.069	23.539	109.3	122.5	132.75	139.
00440p	BICARBONATE ION (MG/L AS HCO3)	01/11/26-09/23/87	37	160.	161.162	292.	0.	2983.695	54.623	124.2	153.	164.	240.
00445	CARBONATE ION (MG/L AS CO3)	06/01/64-07/09/91	25	0.	0.6	15.	0.	9.	3.	0.	0.	0.	0.
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/24/86-09/21/95	18	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/24/86-09/21/95	18	164.5	163.944	176.	154.	37.232	6.102	154.9	159.75	168.	172.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/04/85-09/21/95	20	3.	5.3	36.	0.5	65.405	8.087	0.5	0.5	6.	12.9
00600	NITROGEN, TOTAL (MG/L AS N)	03/15/74-09/02/81	16	0.955	1.043	1.8	0.68	0.103	0.32	0.687	0.867	1.1	1.73
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/17/79-09/21/95	23	0.03	0.044	0.23	0.005	0.003	0.056	0.005	0.008	0.05	0.144
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/07/77-09/21/95	29	0.01	0.026	0.2	0.	0.001	0.038	0.005	0.01	0.025	0.05
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/10/73-09/21/95	23 ##	0.005	0.005	0.01	0.005	0.	0.001	0.005	0.005	0.005	0.008
00618p	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/11/26-05/30/75	6	0.49	0.383	0.55	0.11	0.041	0.202	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	12/07/77-07/09/91	9	0.36	0.354	0.73	0.01	0.048	0.219	0.01	0.21	0.51	0.73
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/15/74-09/21/95	41	0.31	0.378	1.2	0.1	0.069	0.263	0.1	0.19	0.44	0.8
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/70-09/21/95	37	0.4	0.438	0.77	0.05	0.022	0.15	0.3	0.31	0.51	0.71
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-09/21/95	39	0.5	0.449	0.9	0.2	0.017	0.13	0.3	0.3	0.5	0.6
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/09/70-03/02/83	20	0.03	0.06	0.3	0.	0.011	0.105	0.	0.	0.03	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/15/74-09/21/95	42	0.01	0.017	0.1	0.005	0.	0.021	0.005	0.005	0.02	0.047
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/07/77-09/21/95	28	0.01	0.014	0.05	0.005	0.	0.012	0.005	0.005	0.02	0.032
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/23/71-09/21/95	33 ##	0.005	0.007	0.02	0.	0.	0.004	0.002	0.005	0.01	0.01
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/28/74-10/10/89	6	3.5	4.2	7.2	2.7	2.74	1.655	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	01/11/26-03/02/83	44	280.	340.114	915.	206.	31125.173	176.423	245.	270.	300.	614.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/11/26-03/02/83	41	150.	206.659	714.	102.	24354.18	156.058	131.6	140.	162.5	428.8
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	01/11/26-09/21/95	67	71.	81.776	298.	56.	2177.207	46.661	60.	65.	74.	87.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/11/26-09/21/95	67	25.	26.507	64.	15.	75.708	8.701	21.	23.	26.	29.4
00930p	SODIUM, DISSOLVED (MG/L AS NA)	01/11/26-09/21/95	65	73.	76.738	230.	50.	945.665	30.752	55.	66.5	78.	85.6
00931p	SODIUM ADSORPTION RATIO	01/11/26-03/02/83	44	1.95	2.032	3.3	1.5	0.124	0.352	1.75	1.9	2.075	2.45
00932p	SODIUM, PERCENT	01/11/26-03/02/83	40	36.	36.425	49.	33.	5.994	2.448	34.	35.25	37.	38.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	01/11/26-09/21/95	60	3.6	3.505	4.4	2.1	0.228	0.477	2.9	3.2	3.9	4.1
00940p	CHLORIDE,TOTAL IN WATER MG/L	01/11/26-09/21/95	63	48.	48.841	138.	23.	227.845	15.095	31.4	44.	53.	56.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	01/11/26-09/21/95	64	225.	232.609	621.	160.	3886.051	62.338	180.	202.5	248.5	265.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	11/01/42-09/21/95	51	0.3	0.318	1.1	0.1	0.019	0.137	0.2	0.3	0.3	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	01/11/26-09/21/95	48	8.	9.1	34.	5.9	19.099	4.37	7.19	7.5	8.775	9.86
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/28/74-09/21/95	28	1.5	1.554	4.	0.5	0.506	0.712	1.	1.	2.	2.
01002	ARSENIC, TOTAL (UG/L AS AS)	05/28/74-09/21/95	29	2.	1.655	3.	1.	0.377	0.614	1.	1.	2.	2.
01005	BARIUM, DISSOLVED (UG/L AS BA)	02/02/78-09/21/95	27	90.	92.259	130.	50.	255.969	15.999	77.6	84.	100.	120.
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/02/82-09/21/95	11 ##	0.25	0.818	5.	0.25	2.064	1.437	0.25	0.25	0.5	4.3
01020p	BORON, DISSOLVED (UG/L AS B)	08/01/28-07/06/94	33	80.	100.003	670.	0.1	10886.875	104.34	60.	80.	90.	112.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/28/74-09/21/95	28 ##	1.	1.804	10.	0.	4.988	2.233	0.5	0.5	2.75	6.
01027	CADMIUM, TOTAL (UG/L AS CD)	05/28/74-09/21/95	28 ##	0.5	2.25	17.	0.	14.657	3.828	0.45	0.5	2.	10.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/28/74-09/21/95	28 ##	0.5	2.018	20.	0.	16.898	4.111	0.	0.5	1.	5.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/28/74-09/21/95	29	3.	5.603	40.	0.	84.06	9.168	0.5	0.5	5.5	25.

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

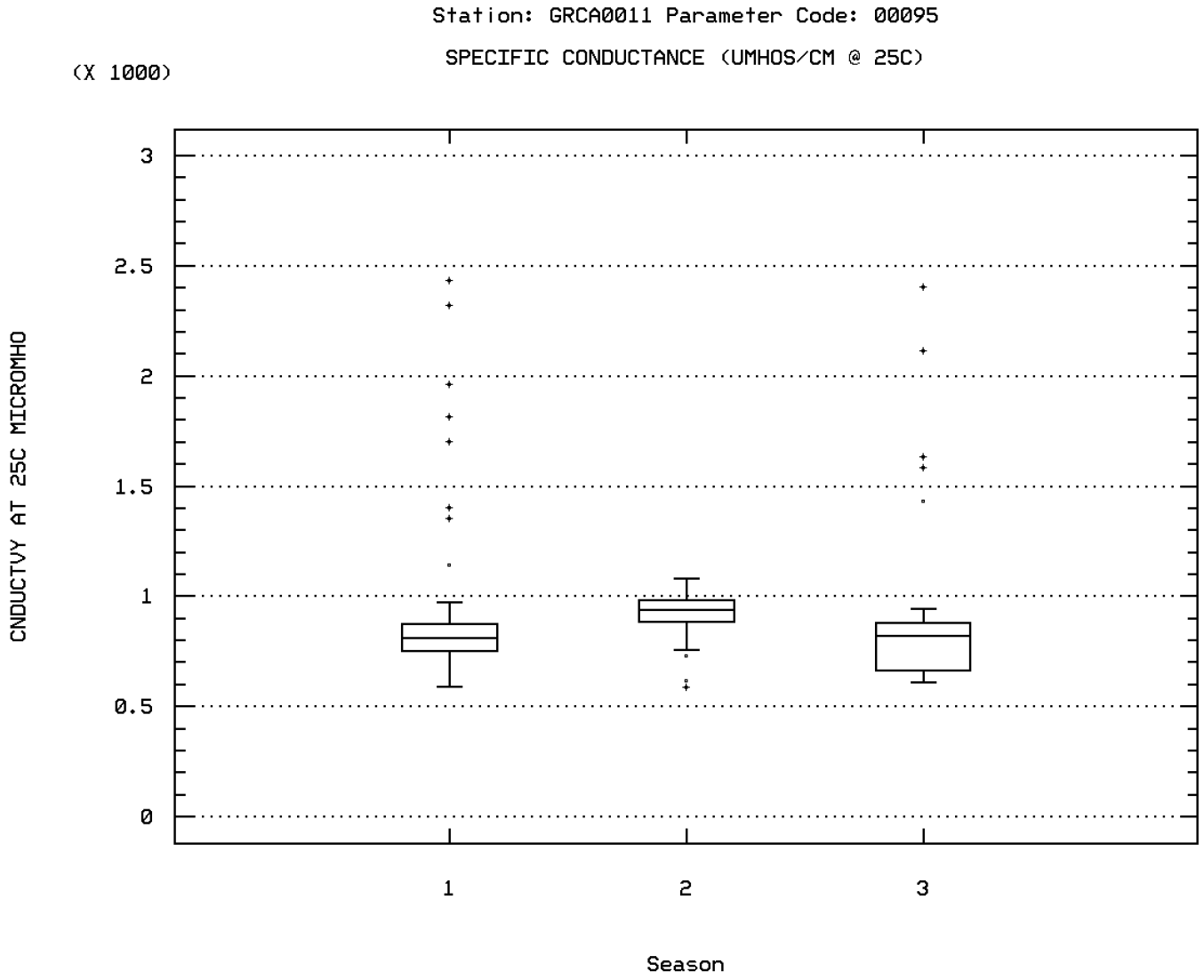
Seasonal Analysis for Season #3: 6/20 to 9/30 - Station GRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01035	COBALT, DISSOLVED (UG/L AS CO)	05/28/74-09/21/95	22 ##	1.5	1.341	1.5	0.	0.152	0.39	0.65	1.5	1.5	1.5
01040	COPPER, DISSOLVED (UG/L AS CU)	05/28/74-09/21/95	27	5.	5.204	21.	0.5	19.178	4.379	0.5	2.	7.	9.
01042	COPPER, TOTAL (UG/L AS CU)	05/28/74-09/21/95	29	7.	13.672	75.	0.5	293.398	17.129	1.	1.5	18.	42.
01045p	IRON, TOTAL (UG/L AS FE)	10/12/47-09/21/95	25	60.	161.	1800.	5.	143991.667	379.462	10.	20.	80.	594.
01046p	IRON, DISSOLVED (UG/L AS FE)	01/11/26-09/21/95	39	5.	45.464	1000.	0.1	31166.319	176.54	1.5	1.5	10.	40.
01049	LEAD, DISSOLVED (UG/L AS PB)	05/28/74-09/21/95	28 ##	2.5	2.857	9.	0.	4.46	2.112	0.5	0.625	4.75	5.1
01051	LEAD, TOTAL (UG/L AS PB)	05/28/74-09/21/95	29 ##	2.5	10.121	100.	0.5	635.119	25.202	0.5	0.5	7.	17.
01055	MANGANESE, TOTAL (UG/L AS MN)	05/28/74-09/21/95	29 ##	5.	13.793	120.	5.	515.456	22.704	5.	5.	10.	30.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/28/74-09/21/95	29	1.	1.966	6.	0.5	2.945	1.716	0.5	0.5	3.	5.
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/02/82-09/21/95	15 ##	5.	6.	10.	5.	4.286	2.07	5.	5.	5.	10.
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/15/79-09/21/95	19	1.	1.868	5.	0.	2.579	1.606	0.5	1.	3.	5.
01075	SILVER, DISSOLVED (UG/L AS AG)	02/02/78-09/21/95	27 ##	0.5	0.5	1.	0.	0.038	0.196	0.4	0.5	0.5	0.6
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/02/82-09/21/95	15	740.	756.667	970.	620.	10809.524	103.969	626.	670.	830.	928.
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/02/82-09/21/95	15 ##	3.	3.	3.	3.	0.	0.	3.	3.	3.	3.
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/28/74-09/21/95	28	9.5	15.375	54.	1.5	245.789	15.678	4.9	5.25	13.5	51.2
01092	ZINC, TOTAL (UG/L AS ZN)	05/28/74-09/21/95	29 ##	10.	23.448	130.	5.	1060.899	32.571	5.	5.	20.	60.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/02/82-09/21/95	15 ##	5.	10.	30.	5.	82.143	9.063	5.	5.	10.	30.
01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/02/82-09/21/95	15	27.	29.133	42.	22.	26.267	5.125	23.8	26.	31.	39.
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/28/74-09/21/95	29	2.	2.517	4.	1.	0.473	0.688	2.	2.	3.	3.
01147	SELENIUM, TOTAL (UG/L AS SE)	05/28/74-09/21/95	29	3.	2.5	4.	0.5	0.607	0.779	2.	2.	3.	3.
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	32	1.	3.563	32.	0.5	54.044	7.351	0.5	0.5	3.	5.7
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	02/03/77-09/21/95	32	0.	0.179	1.505	-0.301	0.239	0.489	-0.301	-0.301	0.477	0.754
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			1.509								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	02/03/77-09/21/95	28	2.	41.161	1000.	0.5	35400.686	188.151	1.	1.25	4.	34.2
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	02/03/77-09/21/95	28	0.301	0.53	3.	-0.301	0.437	0.661	0.	0.075	0.602	1.534
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			3.386								
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	10/12/88-09/21/95	12	135.	135.167	143.	130.	16.333	4.041	130.	132.	137.75	142.1
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/24/86-09/21/95	18	134.5	134.389	144.	126.	24.958	4.996	126.9	131.	138.	141.3
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-09/21/95	63	566.	641.921	1940.	427.	93721.977	306.14	470.	525.	605.	869.
70301p	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/26-03/02/83	31	541.	534.161	623.	418.	1911.206	43.717	476.4	514.	566.	582.4
70302p	SOLIDS, DISSOLVED-TONS PER DAY	01/11/26-03/02/83	44	31000.	29967.761	112801.	6690.	266645880.664	16329.295	13450.05	19850.075	34150.	40250.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/11/26-03/02/83	44	0.78	0.945	2.64	0.57	0.231	0.48	0.71	0.75	0.847	1.565
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/02/51-09/06/91	48	75.	71.146	100.	1.	588.553	24.26	33.9	53.5	91.75	99.1
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	10/02/51-08/12/65	31	94.	89.839	100.	62.	110.273	10.501	71.	85.	97.	99.
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	10/02/51-08/12/65	29	100.	98.517	100.	92.	5.544	2.355	94.	98.	100.	100.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/02/51-01/01/63	13	100.	99.923	100.	99.	0.077	0.277	99.4	100.	100.	100.
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	10/02/51-04/10/65	7	35.	33.286	62.	8.	407.238	20.18	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/01/51-04/10/65	31	49.	46.161	76.	9.	405.073	20.126	10.	34.	60.	70.2
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	10/02/51-01/01/63	1	13.	13.	13.	13.	0.	0.	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	10/01/51-04/10/65	31	70.	63.774	92.	16.	623.047	24.961	18.	57.	84.	88.6
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	10/02/51-01/01/63	1	23.	23.	23.	23.	0.	0.	**	**	**	**
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	01/11/26-05/30/75	6	2.2	1.7	2.4	0.5	0.804	0.897	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	03/15/74-09/02/81	16	4.25	4.594	7.8	3.	1.899	1.378	3.07	3.825	4.8	7.52
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/28/74-09/21/95	18 ##	0.05	0.092	0.4	0.	0.01	0.102	0.045	0.05	0.063	0.265
71900	MERCURY, TOTAL (UG/L AS HG)	05/28/74-09/21/95	26 ##	0.05	0.088	0.6	0.	0.014	0.119	0.05	0.05	0.05	0.25
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/01/51-09/07/94	160	15.5	1236.606	27500.	0.	15939429.272	3992.421	2.	5.	151.25	3667.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/01/51-11/02/82	138	654.5	2608.464	39500.	19.	31754314.586	5635.097	70.8	179.	3067.5	4931.

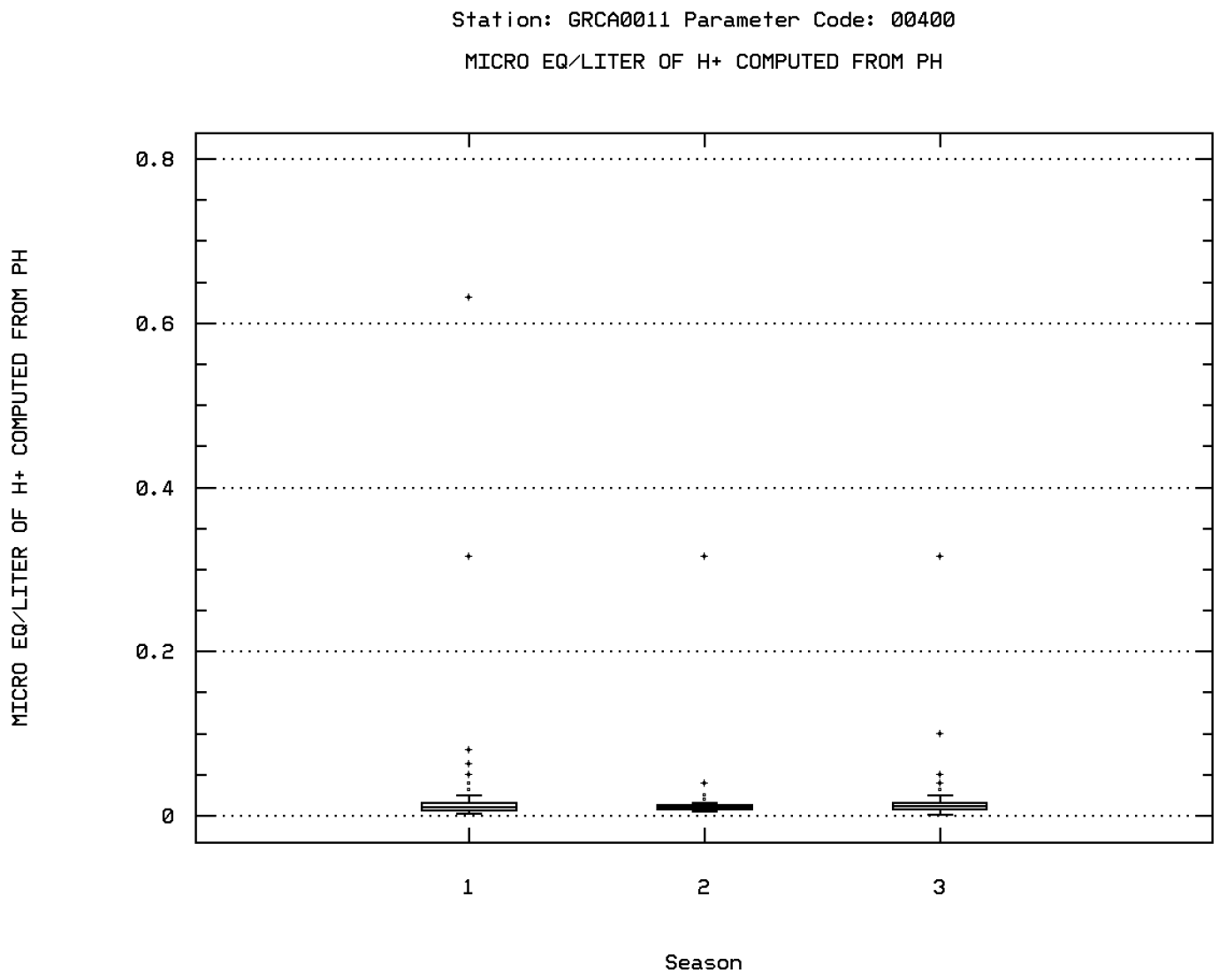
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



COLORADO R AT LEES FERRY, AZ.



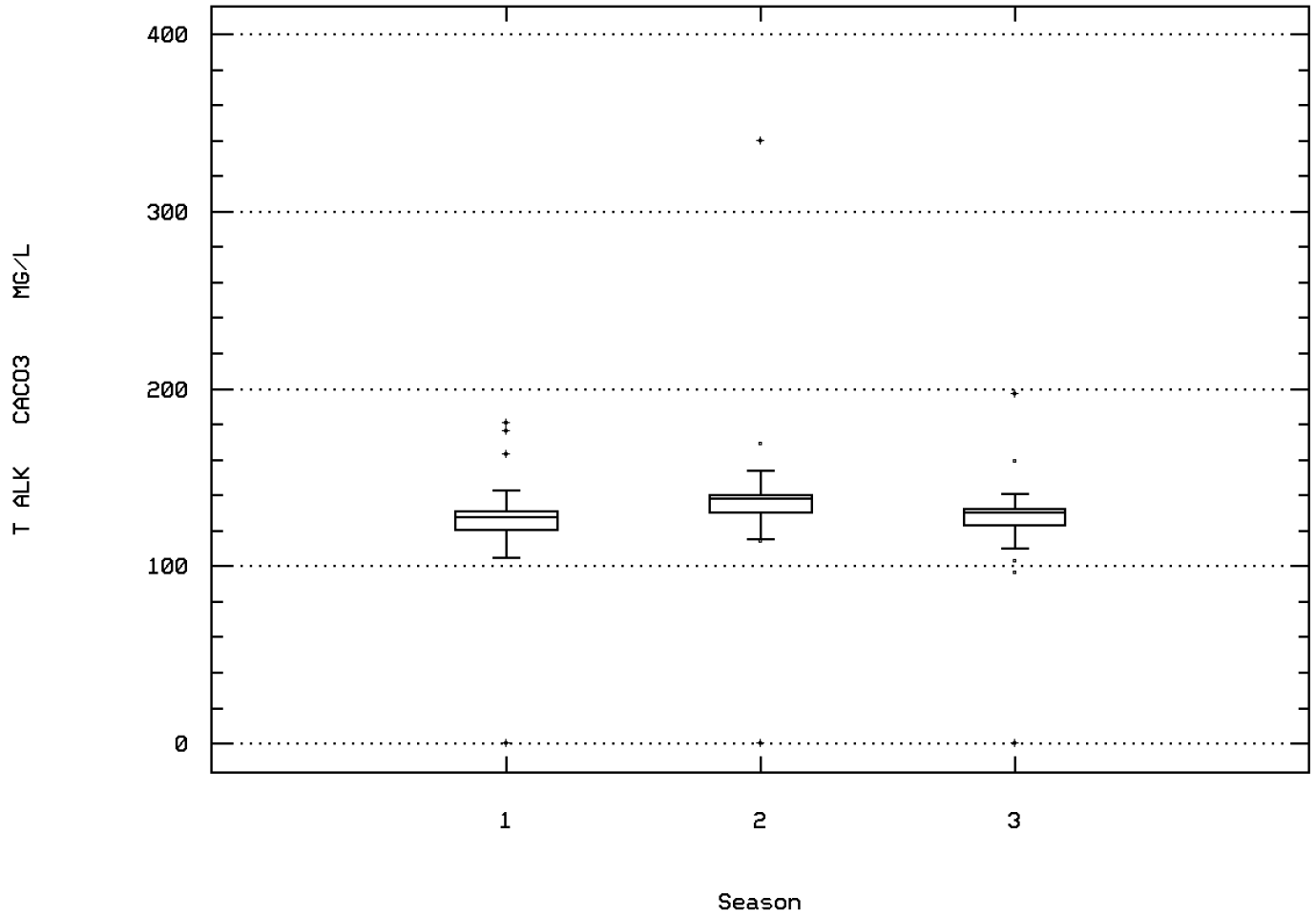
COLORADO R AT LEES FERRY, AZ.



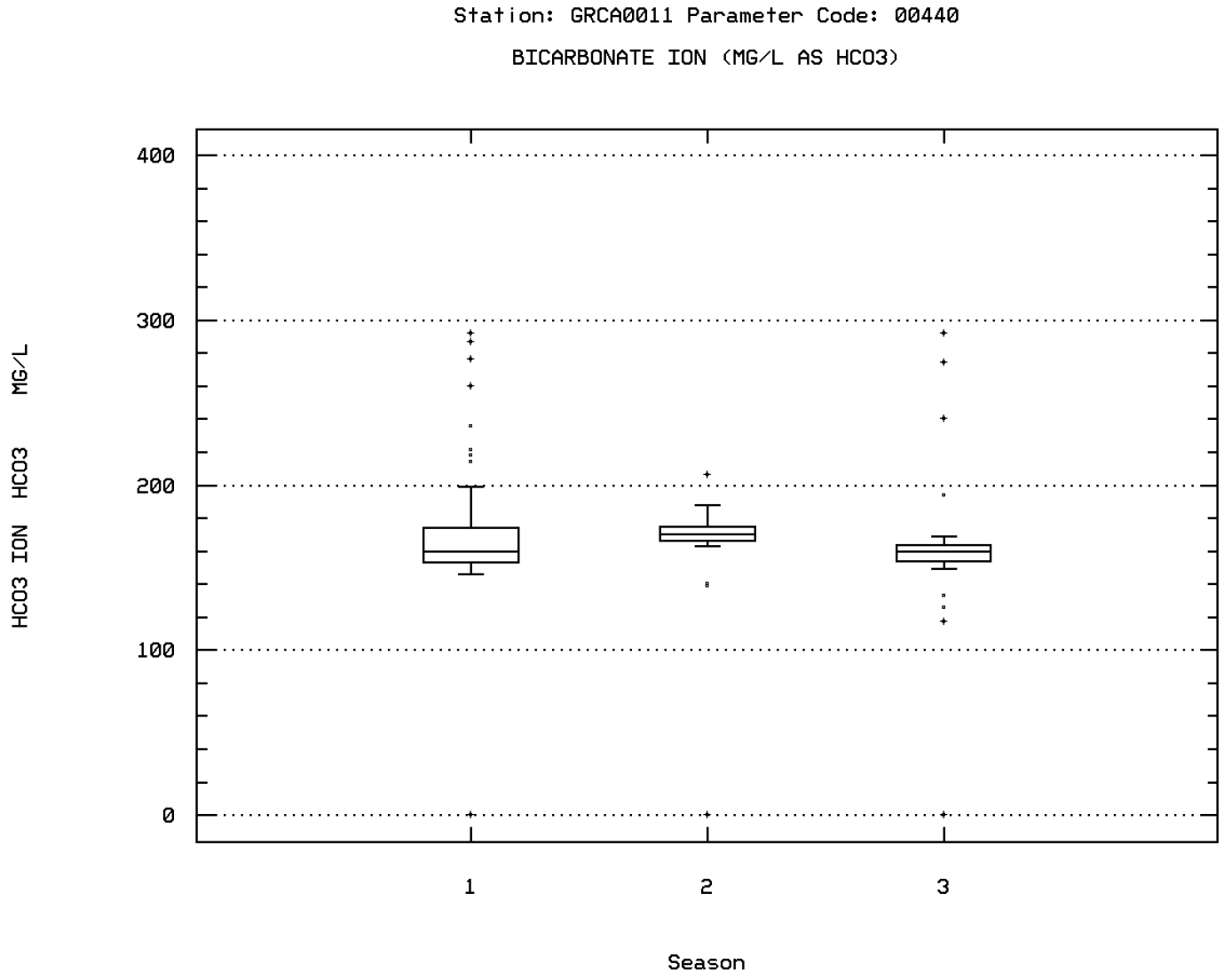
COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00410

ALKALINITY, TOTAL (MG/L AS CACO3)



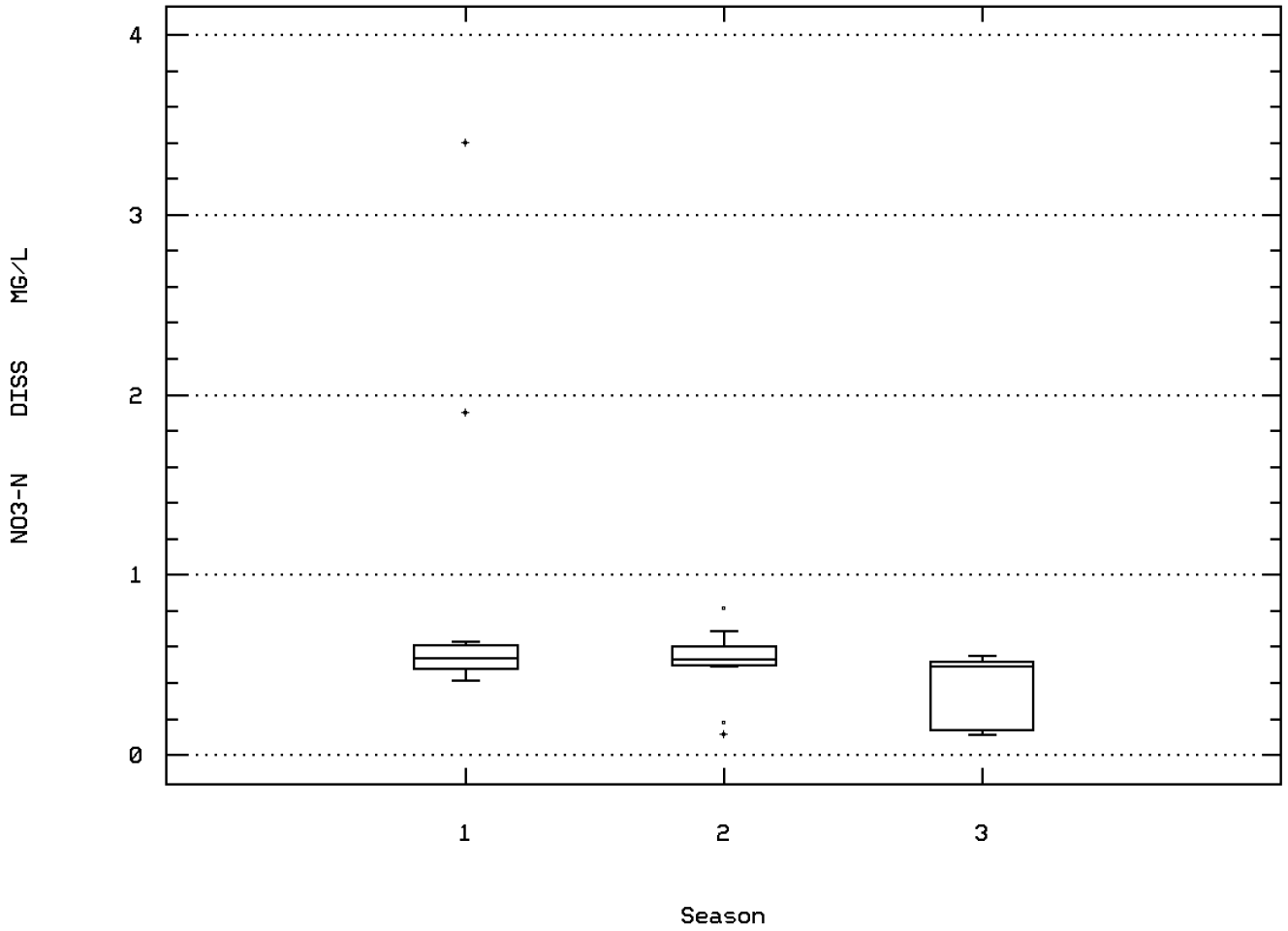
COLORADO R AT LEES FERRY, AZ.



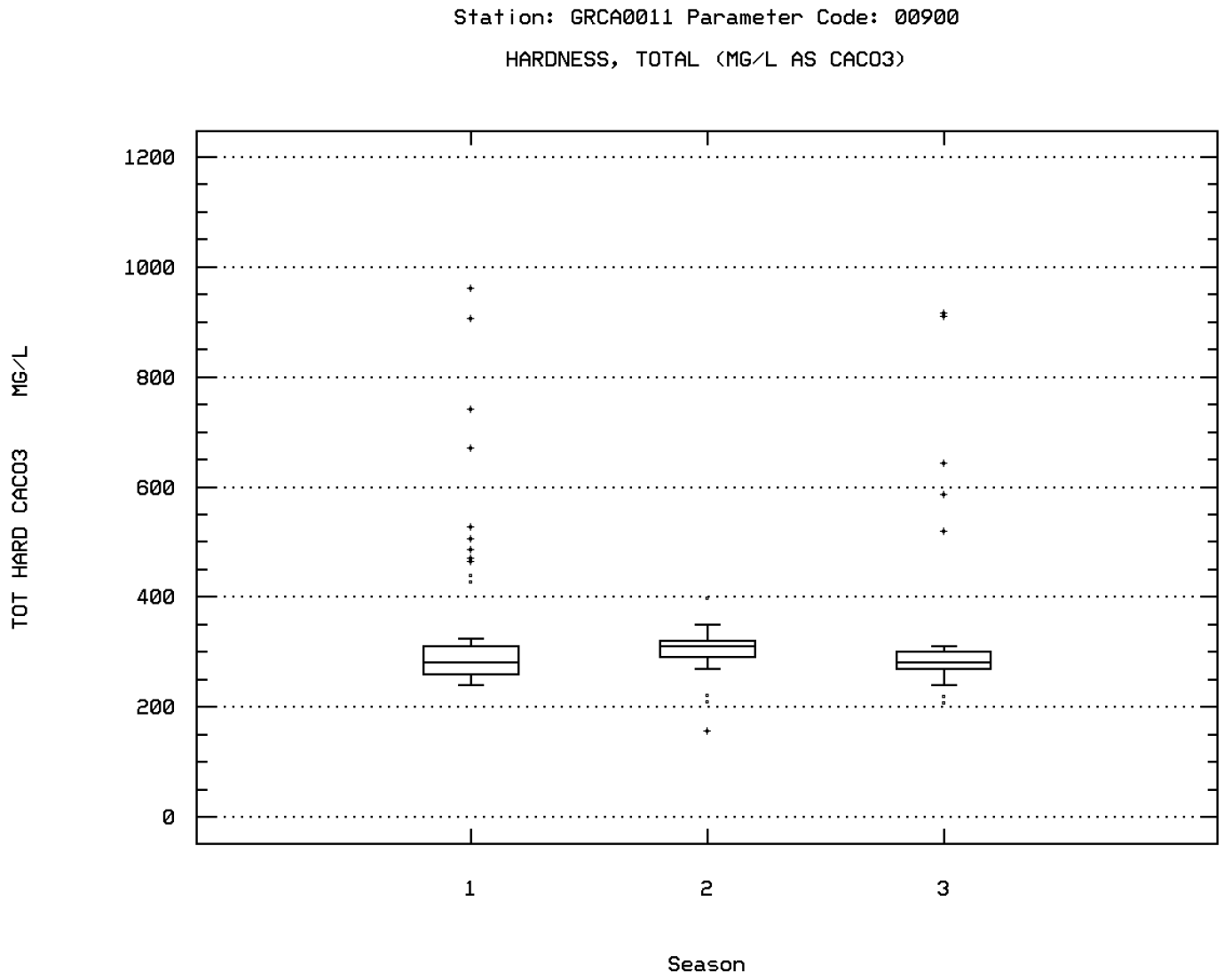
COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00618

NITRATE NITROGEN, DISSOLVED (MG/L AS N)



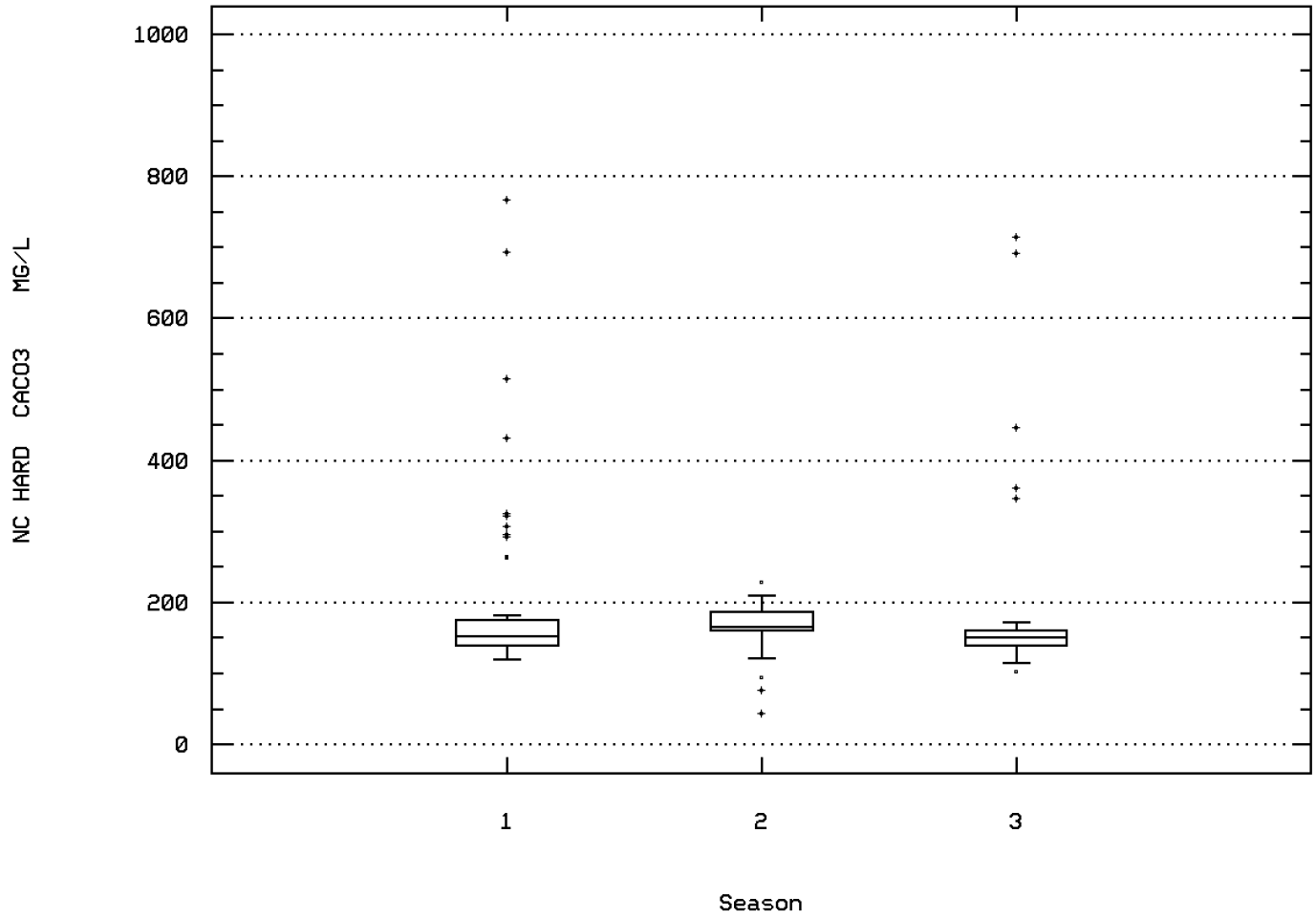
COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00902

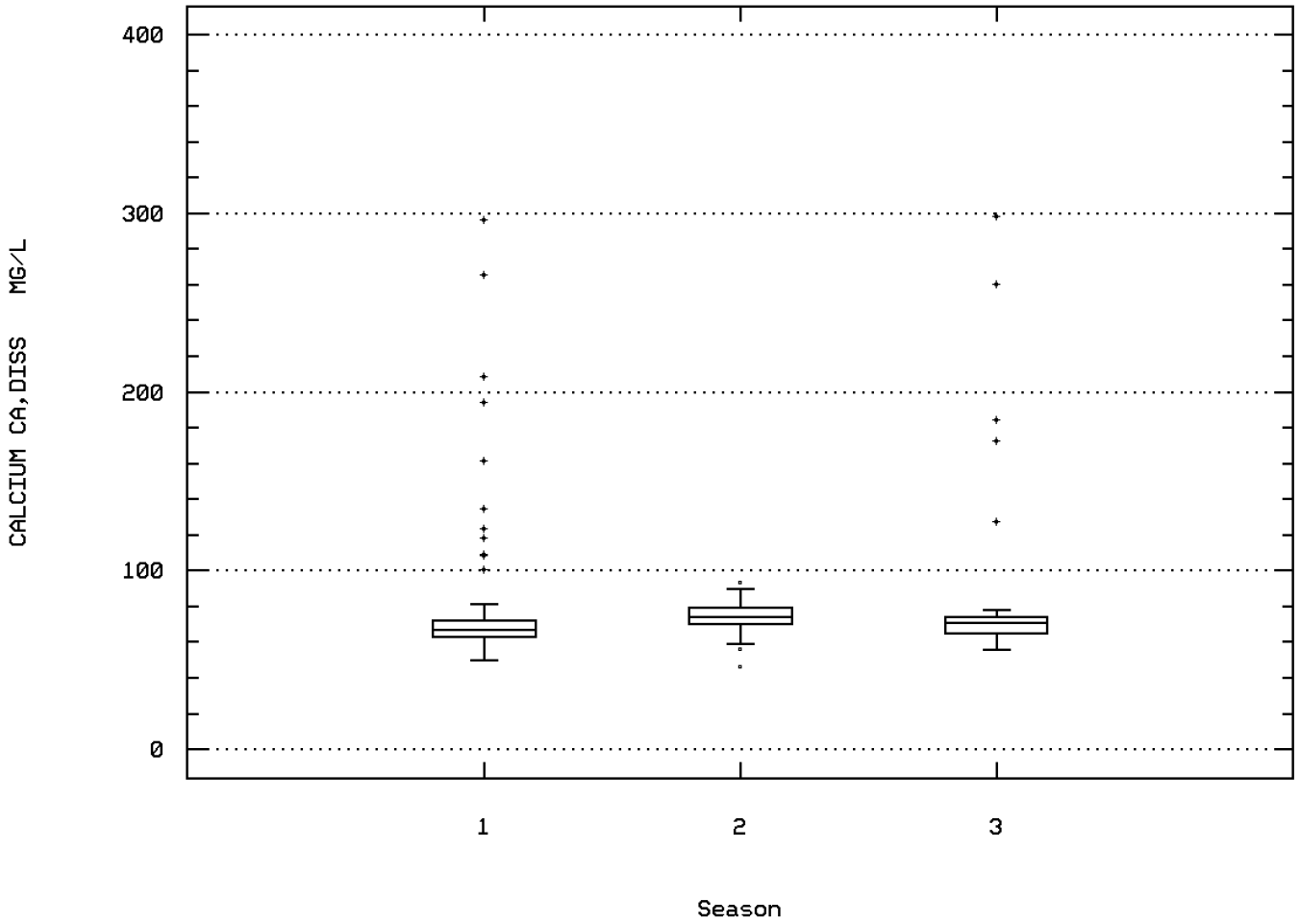
HARDNESS, NON-CARBONATE (MG/L AS CACO3)



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00915

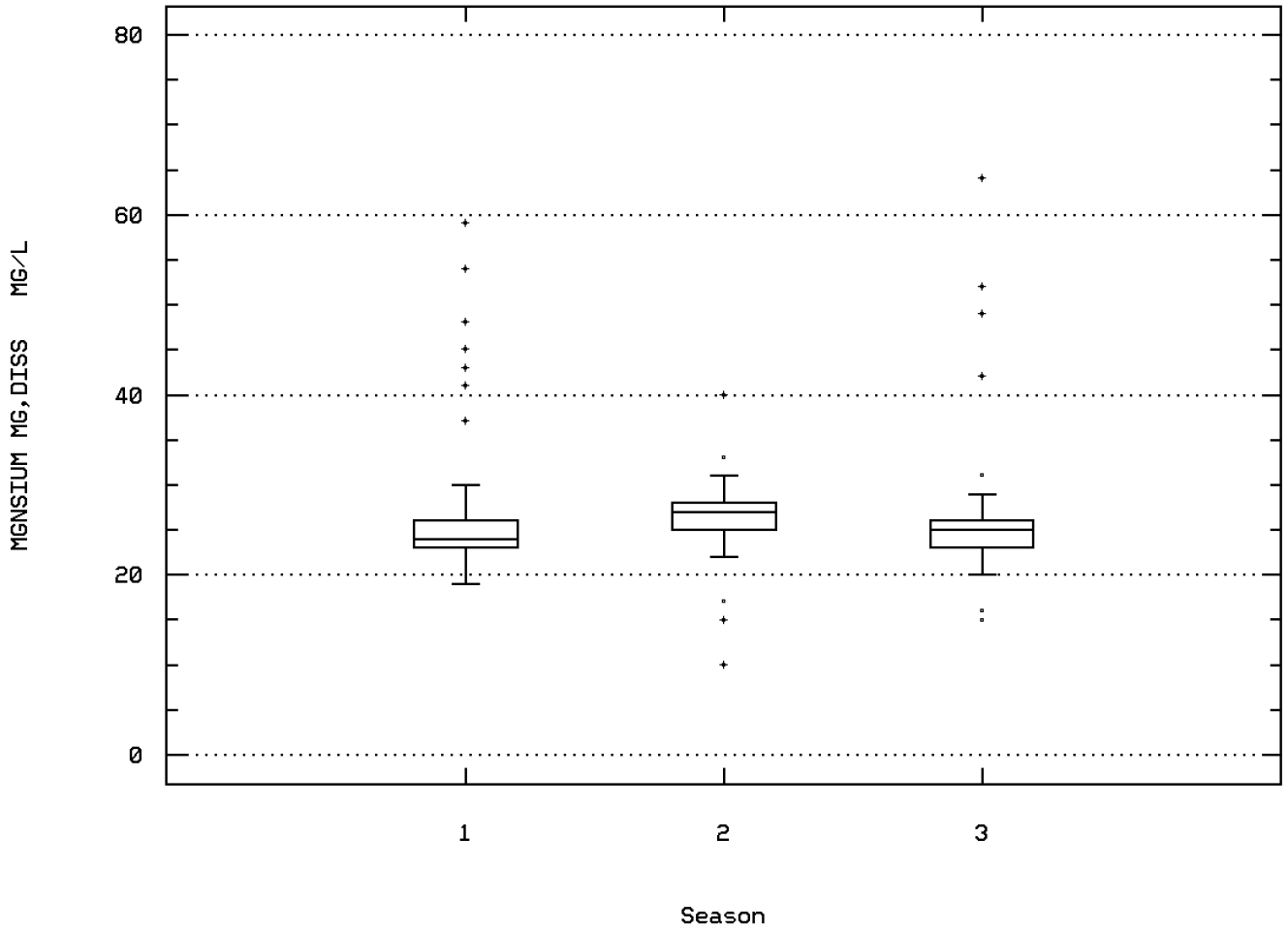
CALCIUM, DISSOLVED (MG/L AS CA)



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00925

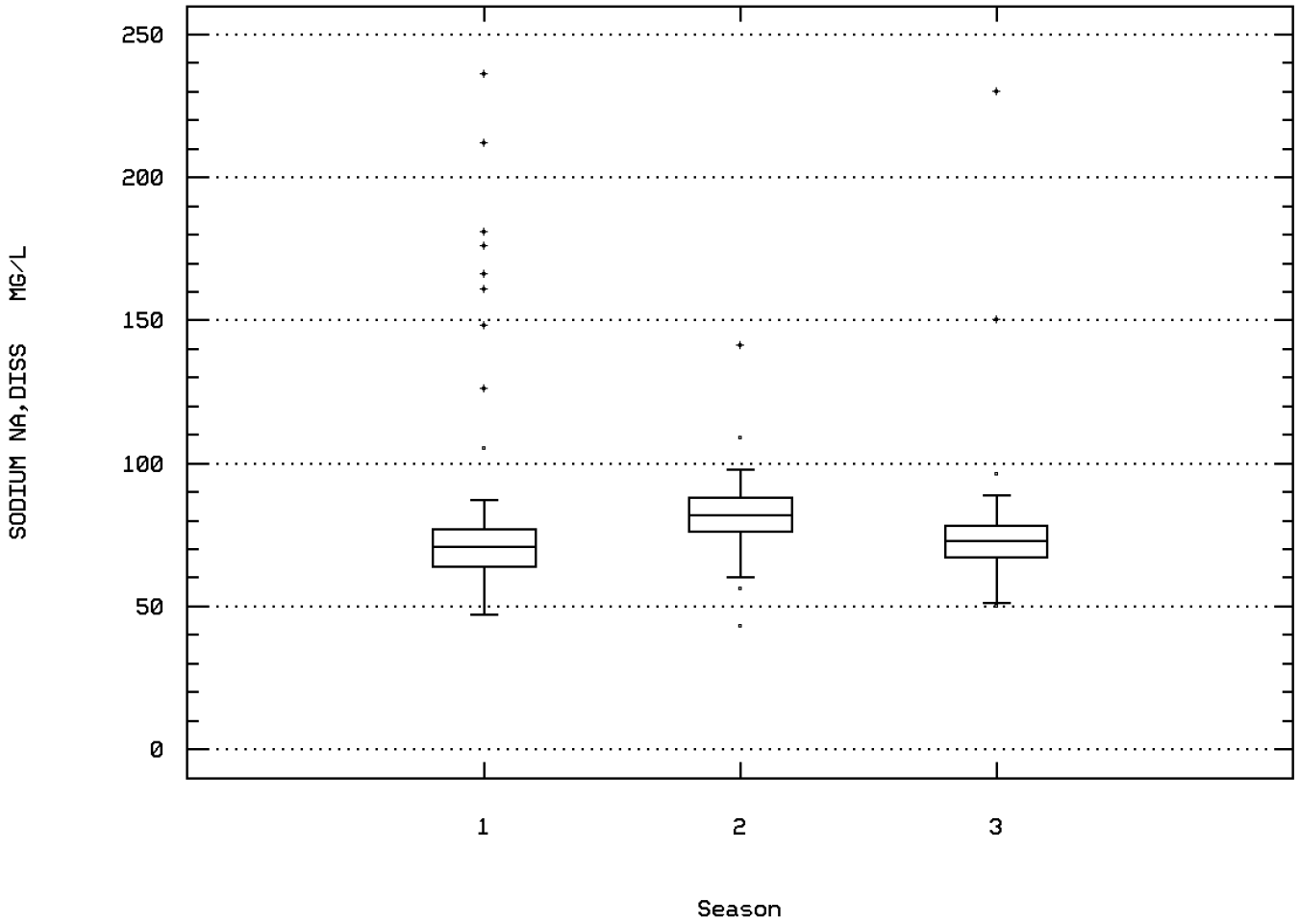
MAGNESIUM, DISSOLVED (MG/L AS MG)



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00930

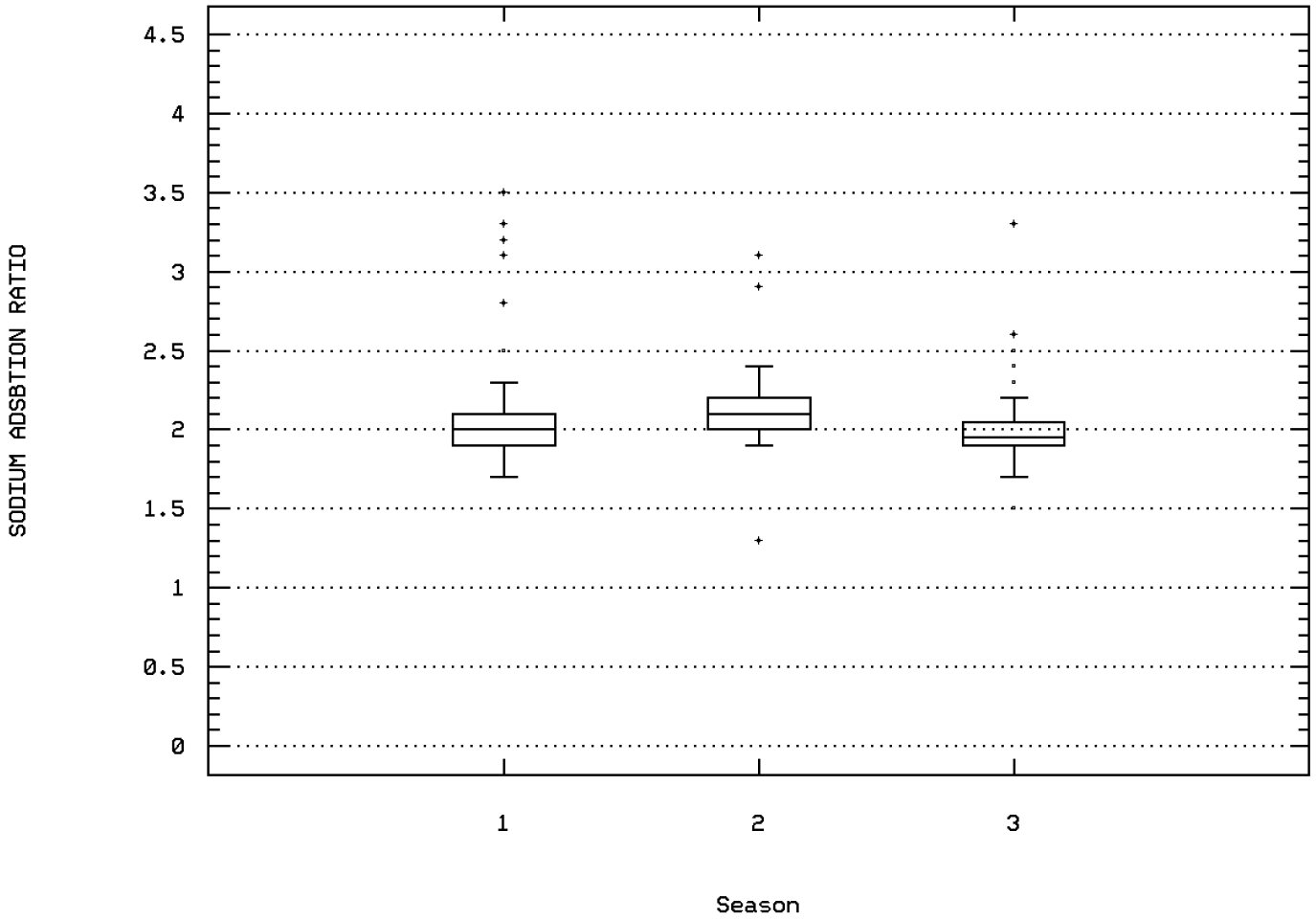
SODIUM, DISSOLVED (MG/L AS NA)



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00931

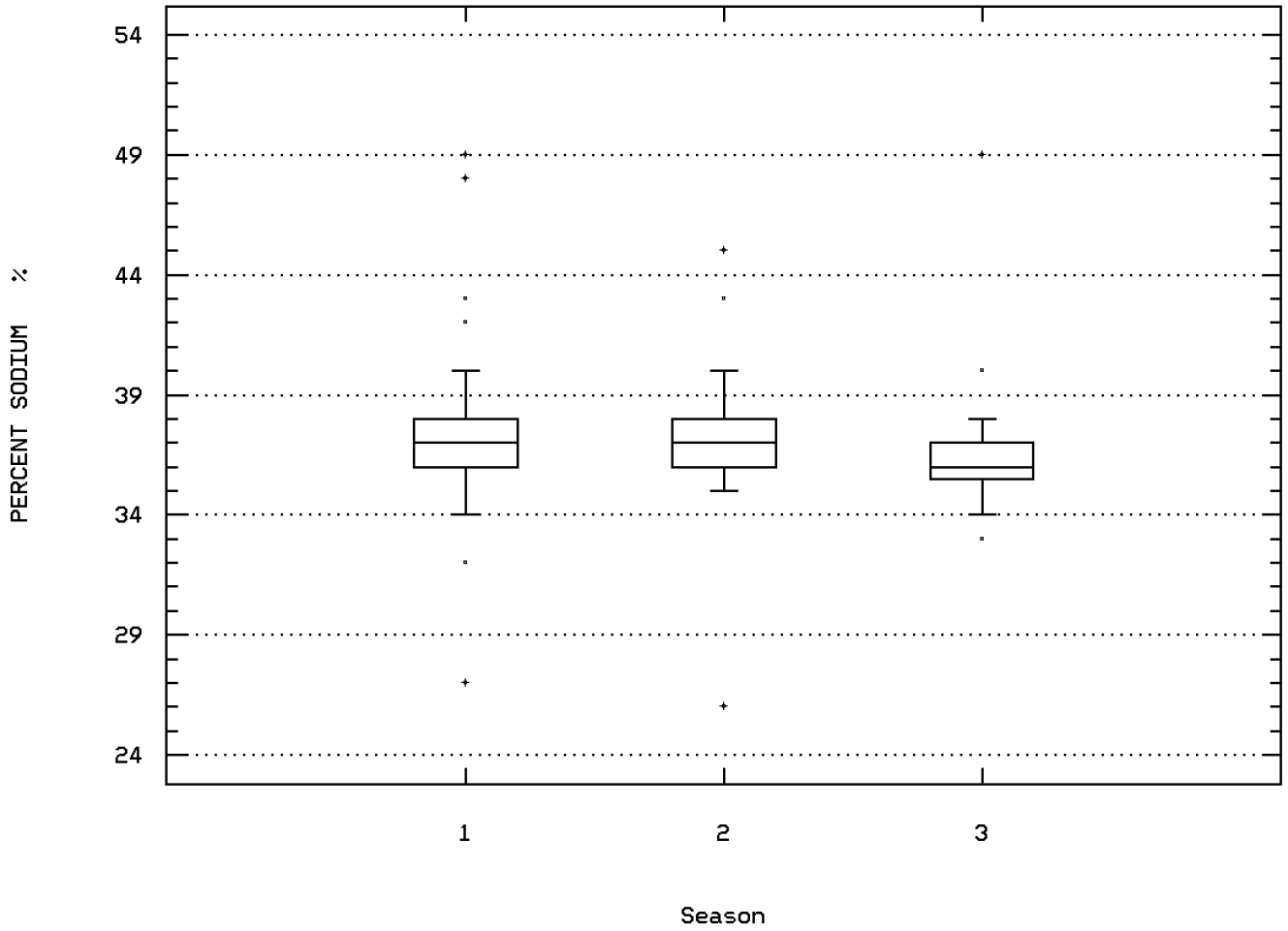
SODIUM ADSORPTION RATIO



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00932

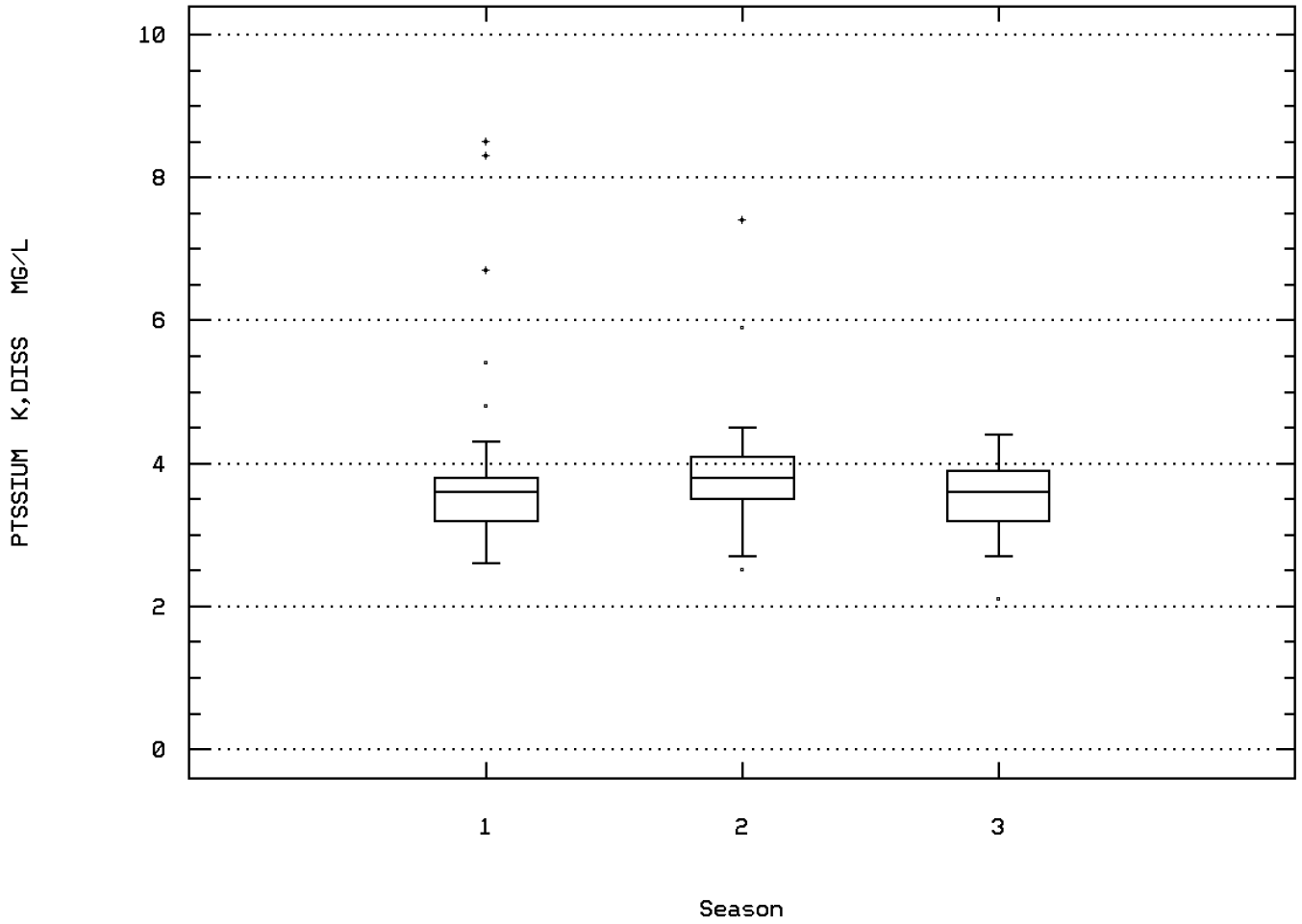
SODIUM, PERCENT



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00935

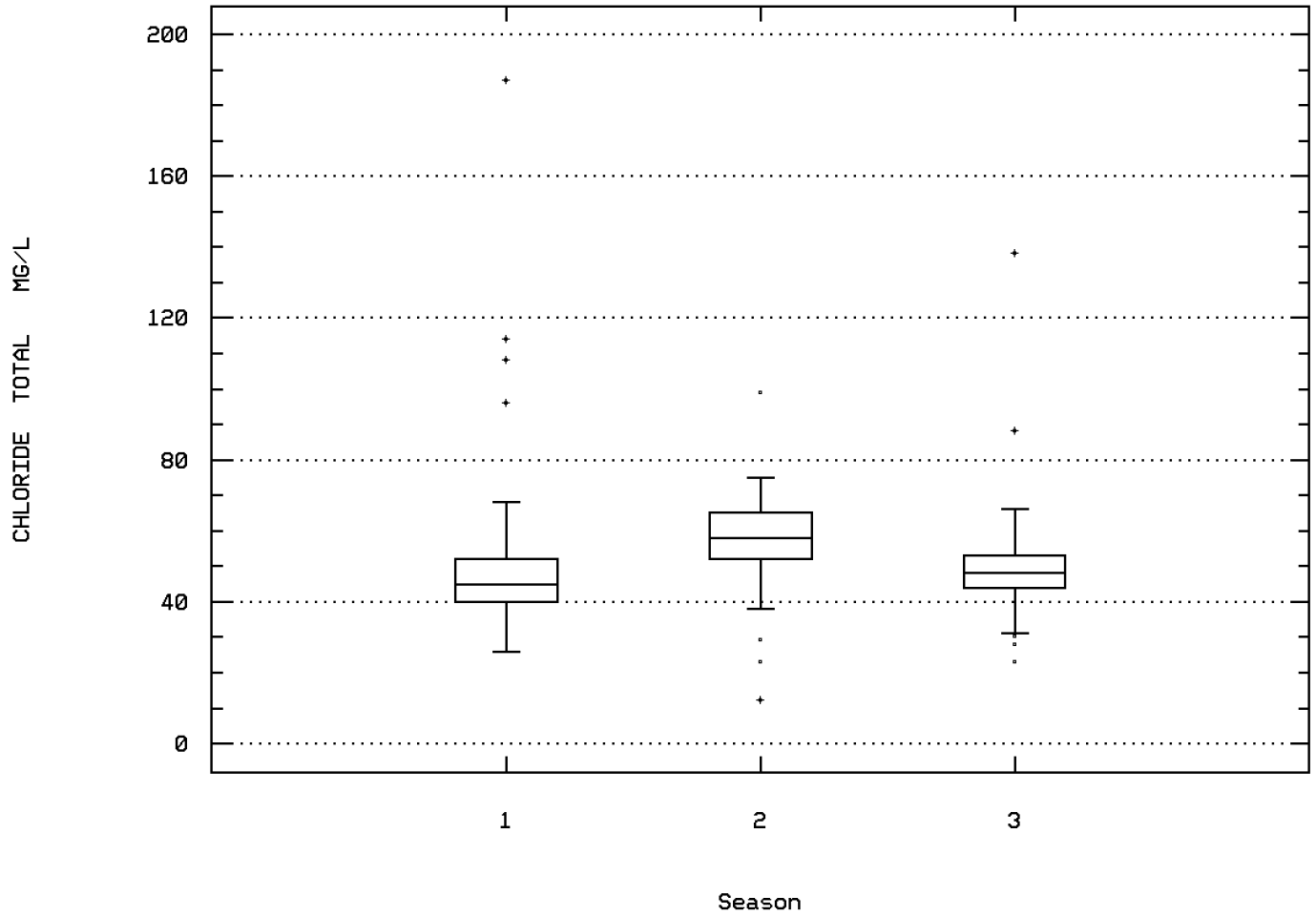
POTASSIUM, DISSOLVED (MG/L AS K)



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00940

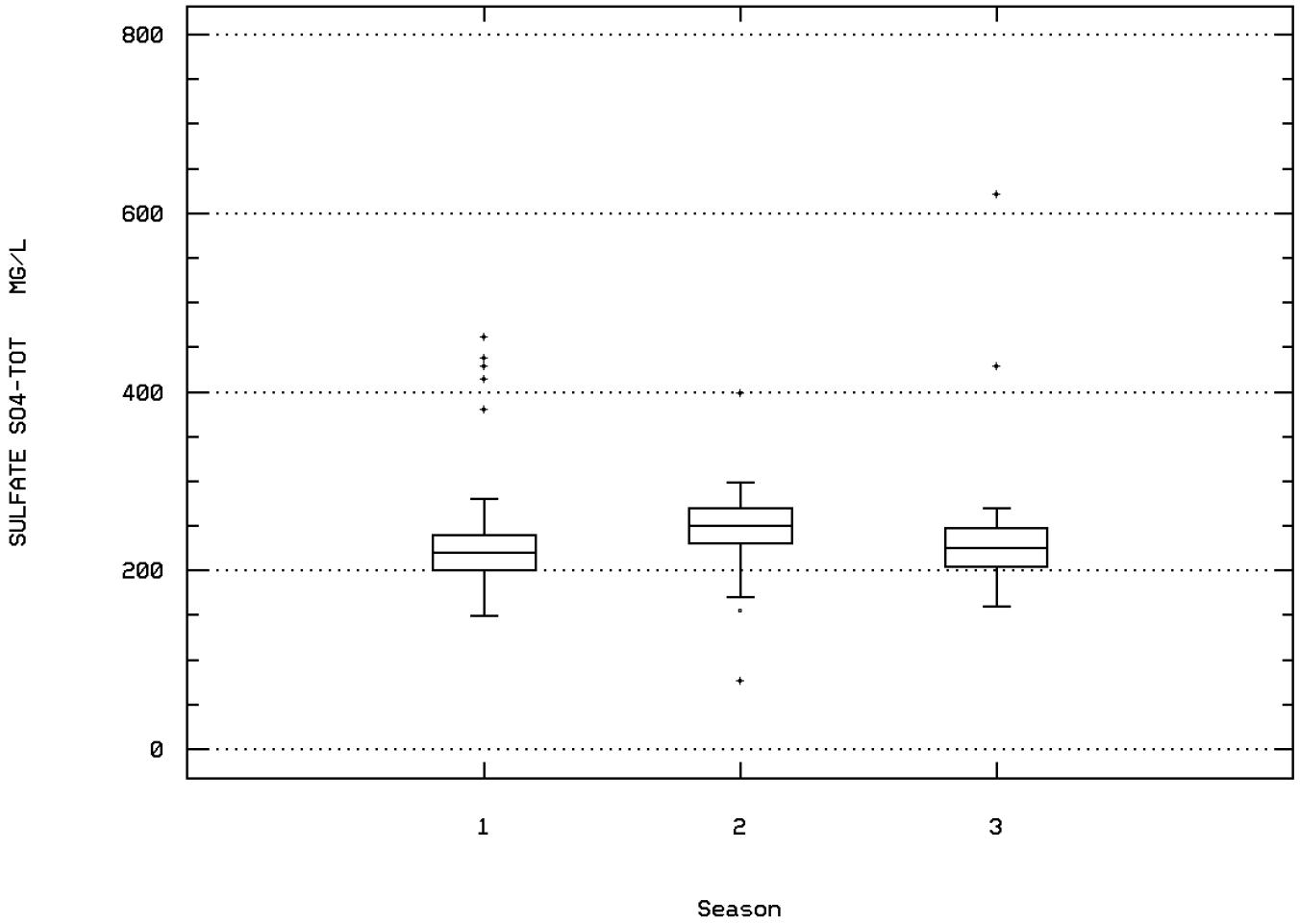
CHLORIDE,TOTAL IN WATER



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00945

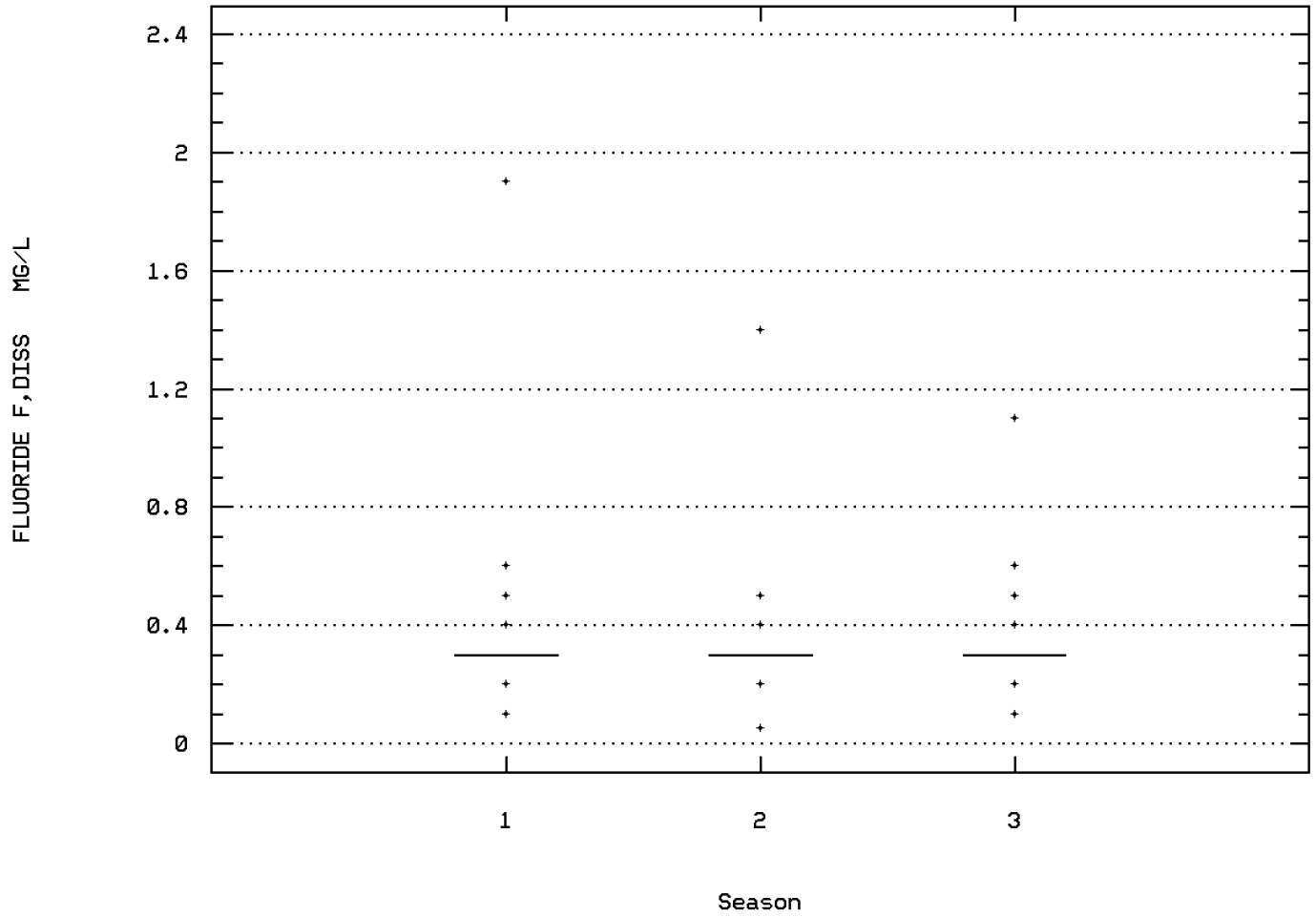
SULFATE, TOTAL (MG/L AS SO4)



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00950

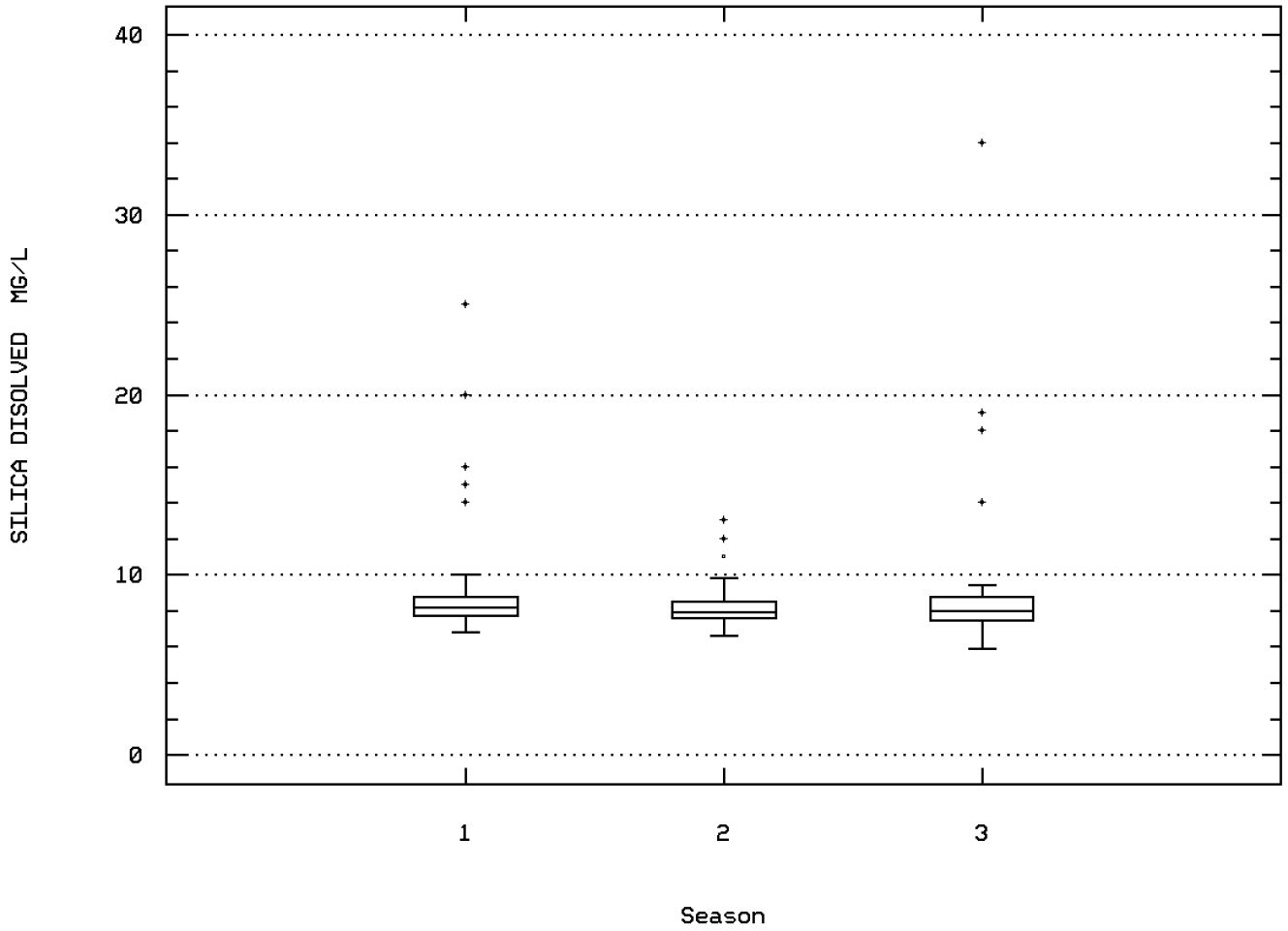
FLUORIDE, DISSOLVED (MG/L AS F)



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 00955

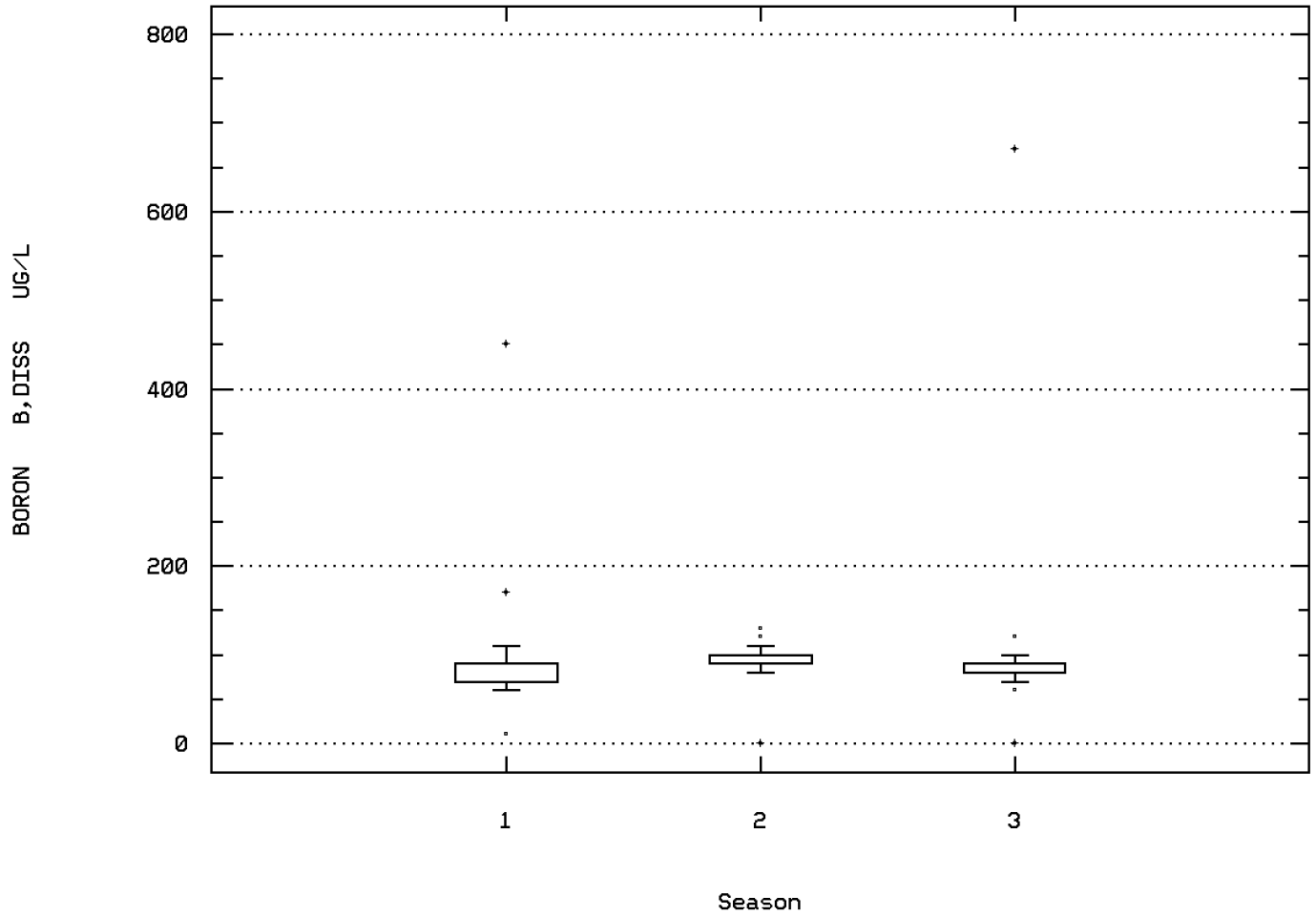
SILICA, DISSOLVED (MG/L AS SI02)



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 01020

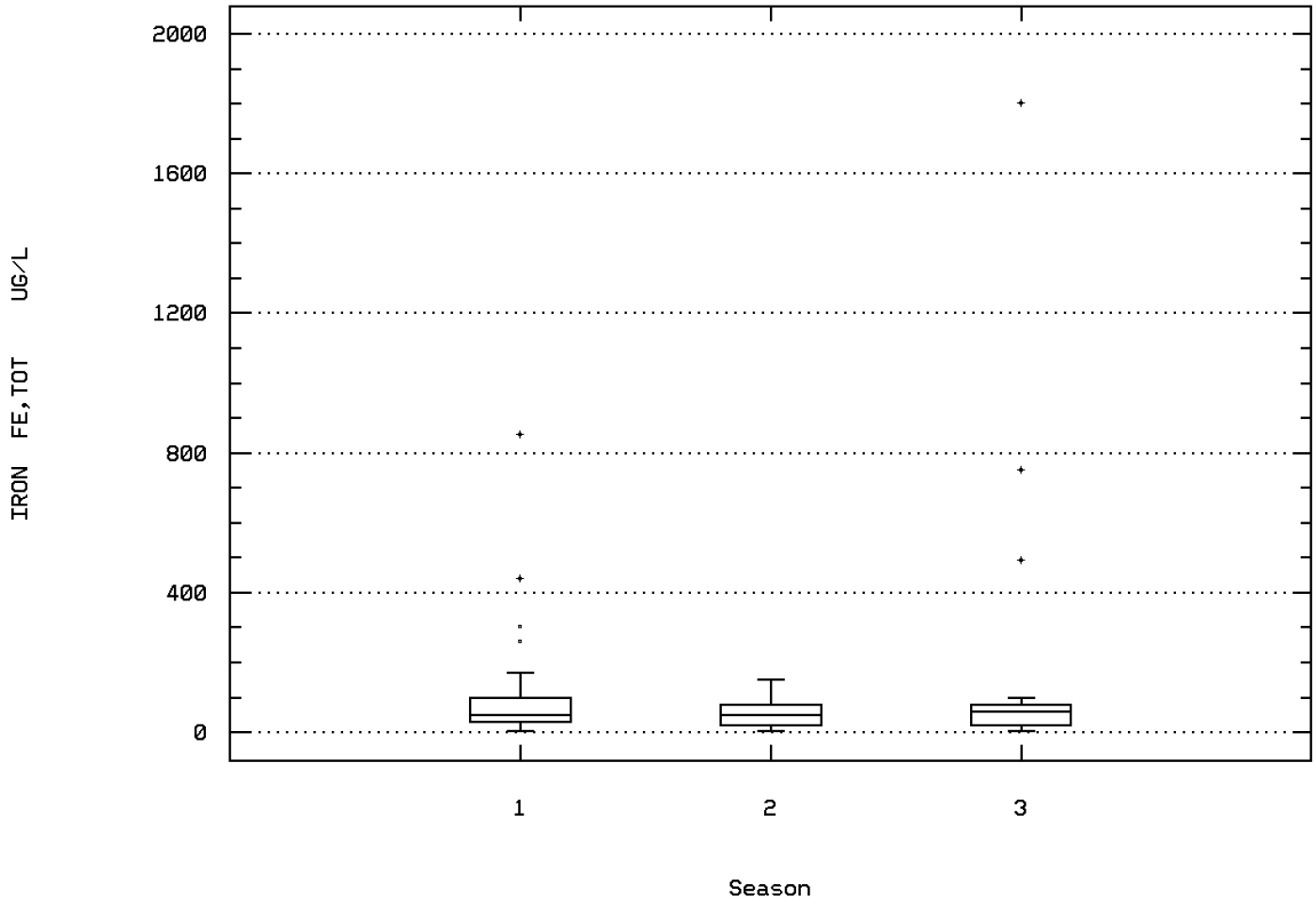
BORON, DISSOLVED (UG/L AS B)



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 01045

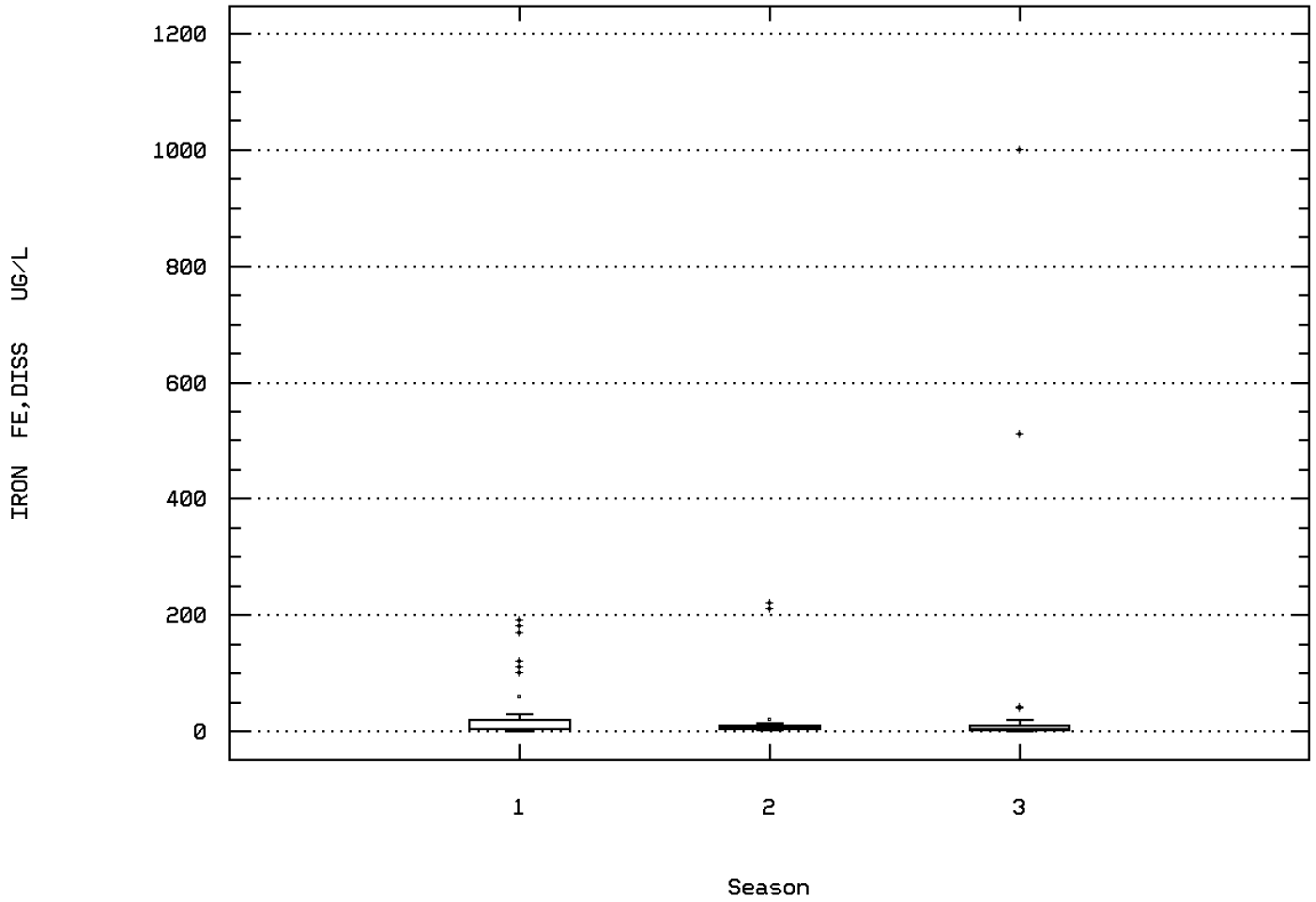
IRON, TOTAL (UG/L AS FE)



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 01046

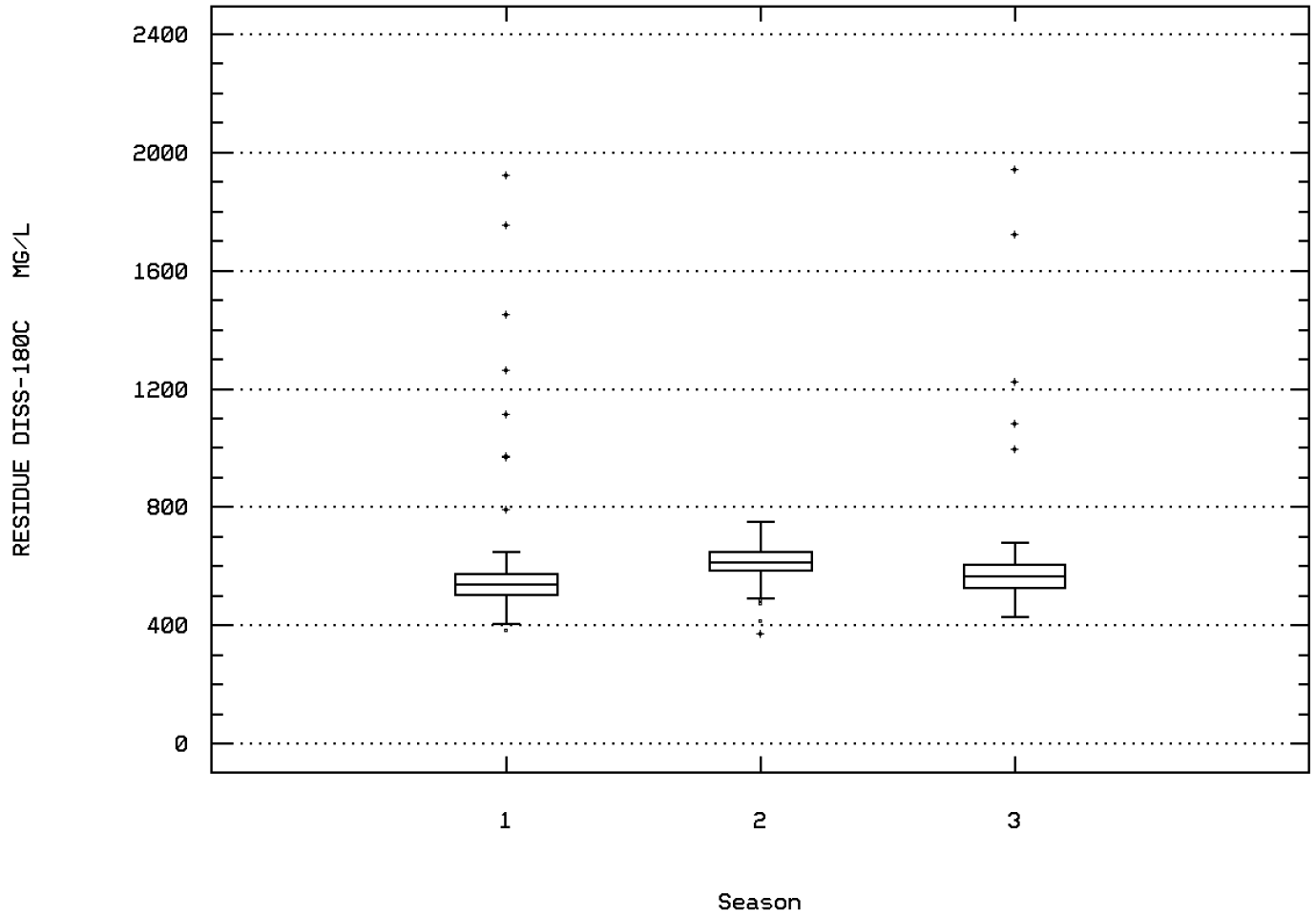
IRON, DISSOLVED (UG/L AS FE)



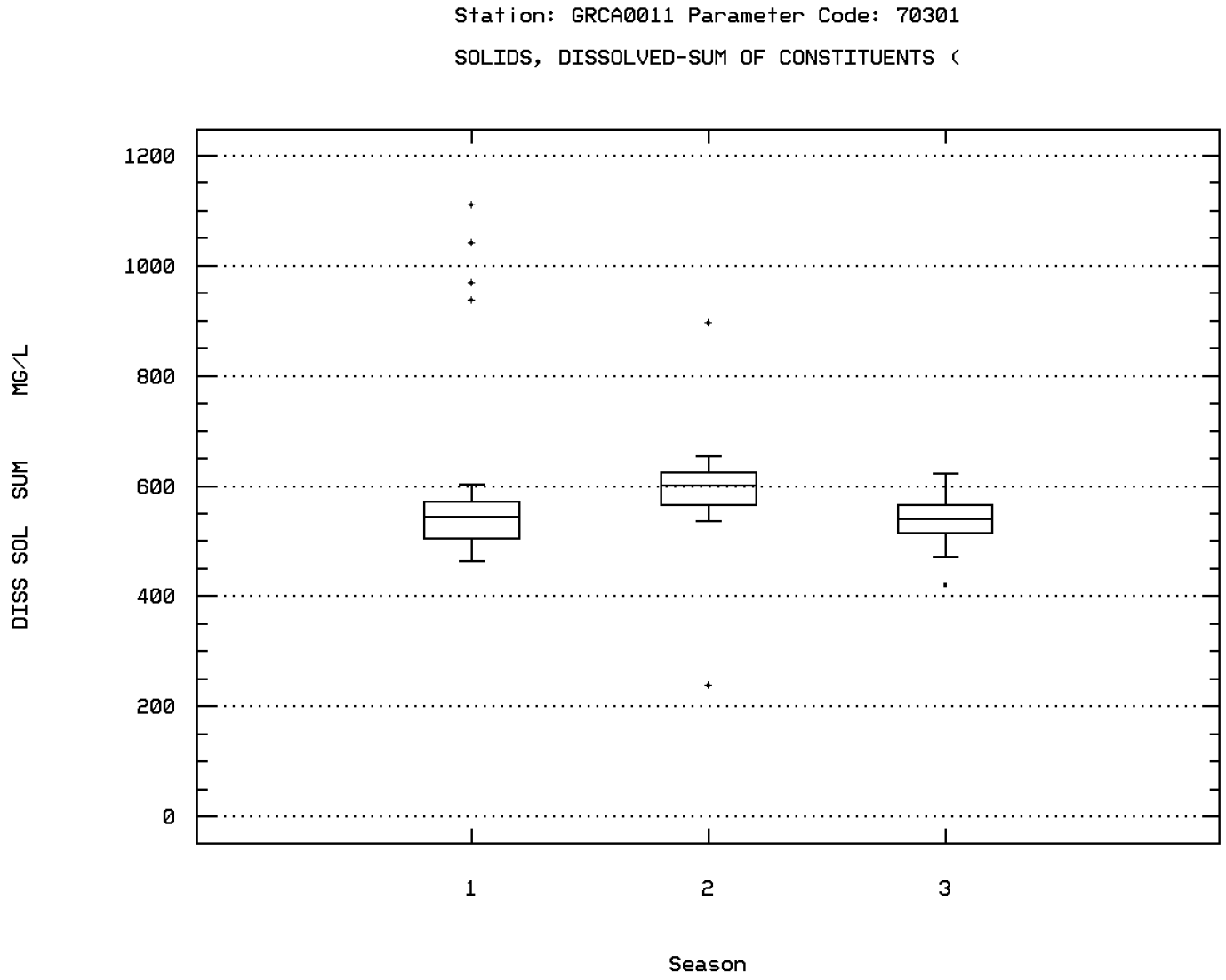
COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 70300

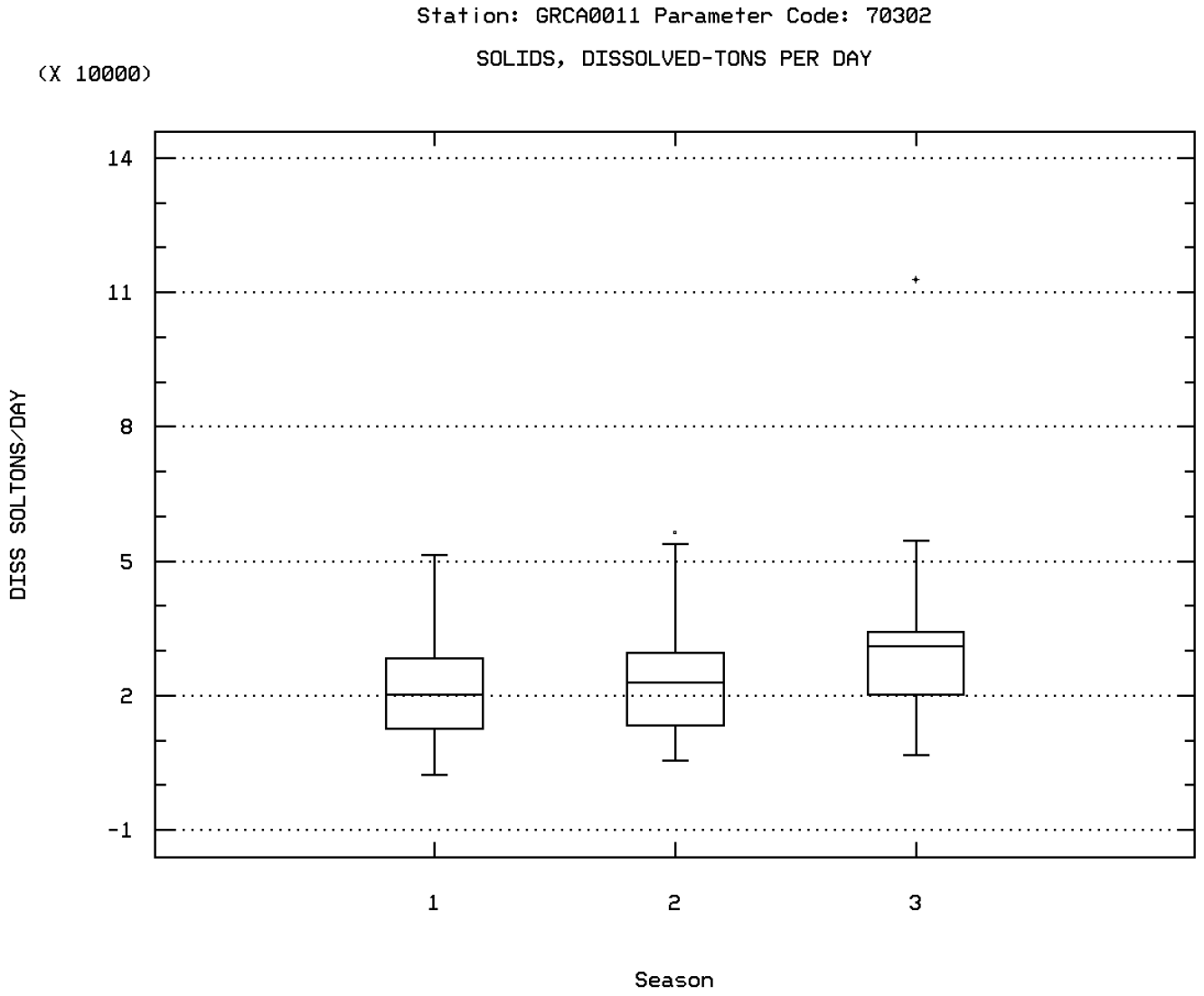
RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



COLORADO R AT LEES FERRY, AZ.



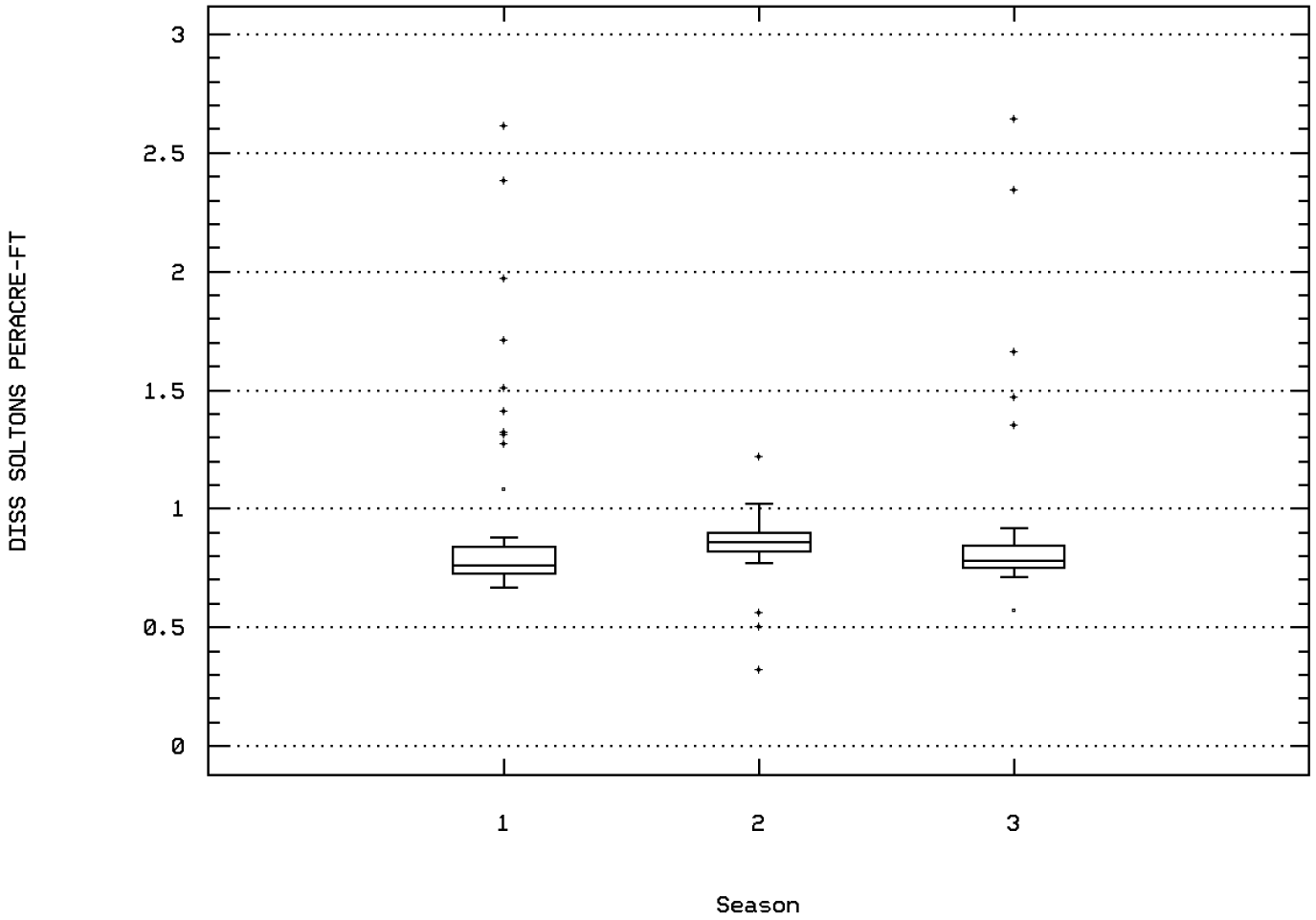
COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 70303

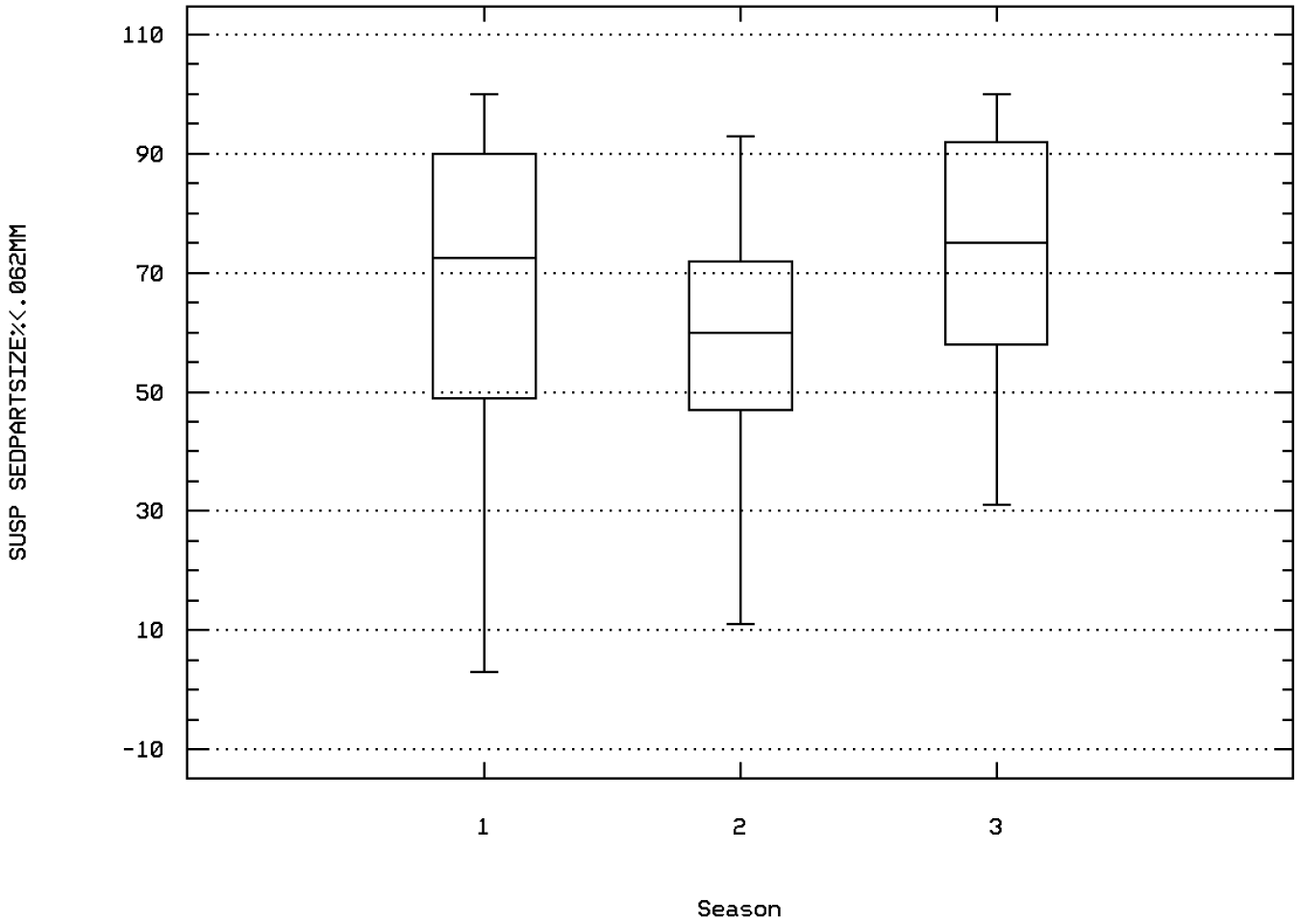
SOLIDS, DISSOLVED-TONS PER ACRE-FT



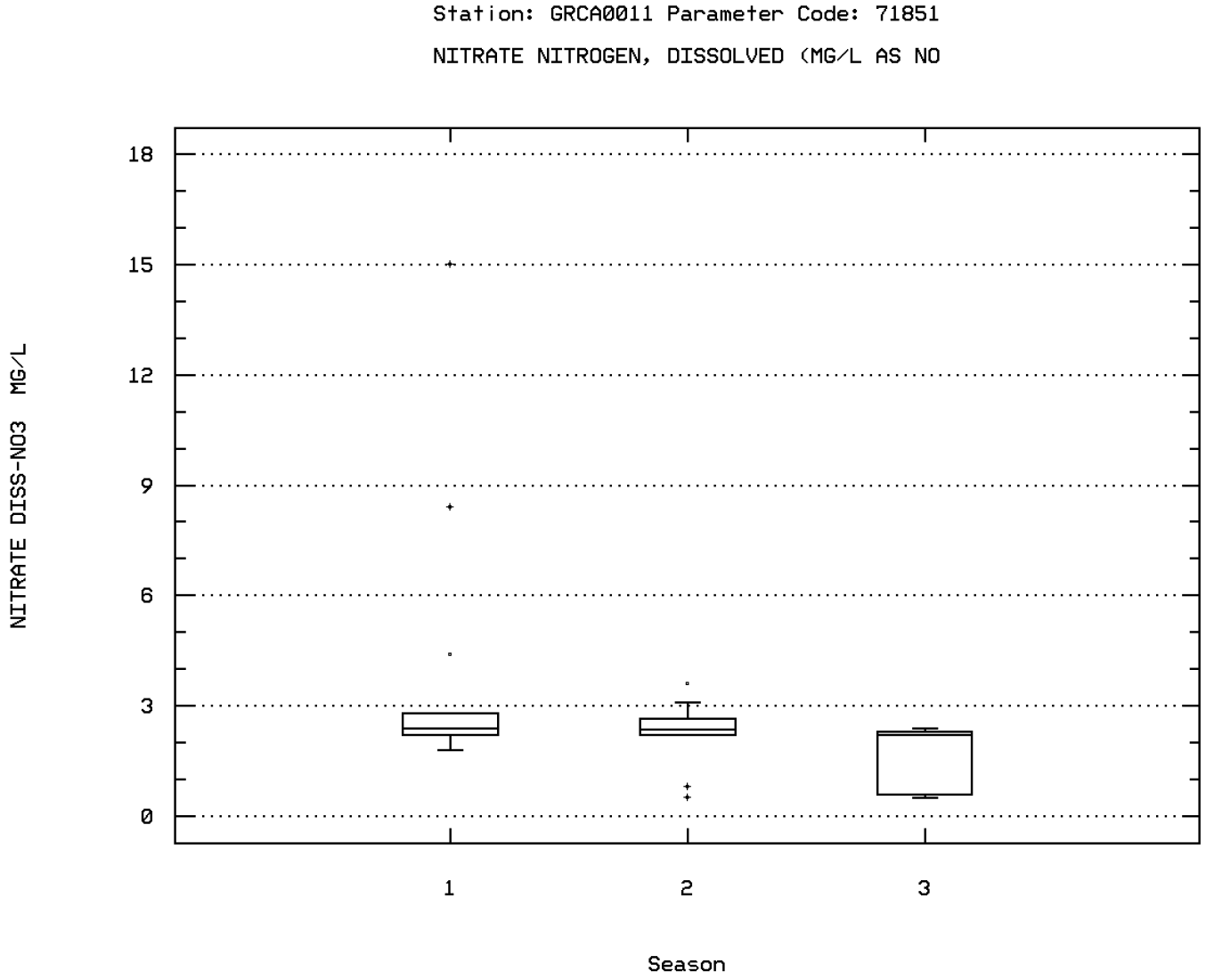
COLORADO R AT LEES FERRY, AZ.

Station: GRCA0011 Parameter Code: 70331

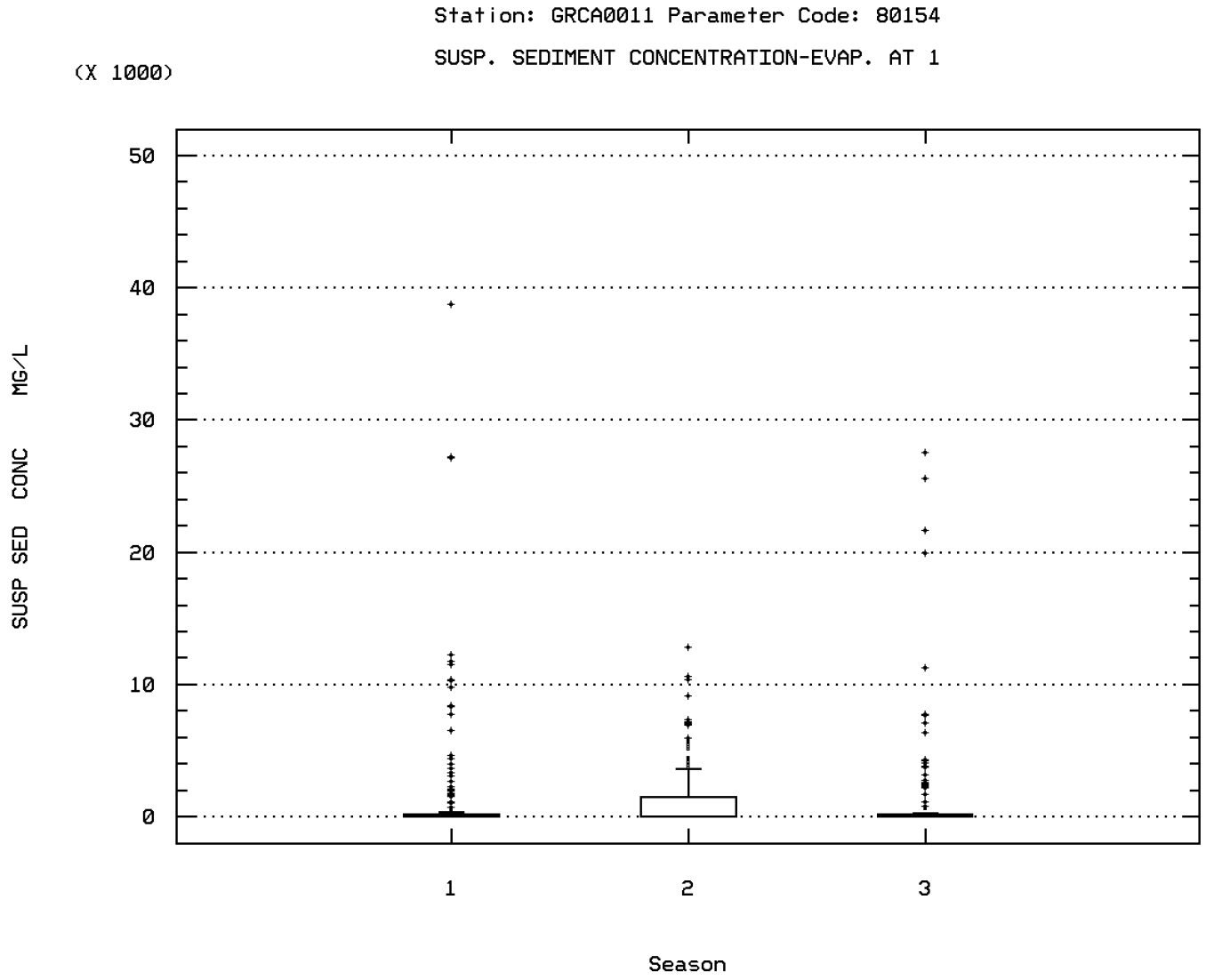
SUSPENDED SED SIEVE DIAMETER,% FINER TH



COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.



COLORADO R AT LEES FERRY, AZ.

Station Inventory for Station: GRCA0012

NPS Station ID: GRCA0012
LAT/LON: 36.872226/-111.593893
Agency: 112WRD
Date Created: / /
Location: PARIA RIVER AT LEES FERRY, ARIZ.
FIPS State/County: 04004 ARIZONA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 09382000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 14070007001
RF1 Mile Point: 0.850
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index: 15010003051600.00
RF3 Mile Point: 0.10
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	03/29/91-03/29/91	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	153	21.1	18.89	34.	0.	66.066	8.128	6.26	12.1	25.25	27.68
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/30/69-03/29/91	19	22.	23.526	37.	5.	98.902	9.945	10.	13.5	32.5	34.
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	124	34.	240.734	6270.	1.	474415.059	688.778	5.	12.	139.25	807.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	455	188.	314.051	6270.	3.	255771.568	505.739	8.	54.	337.	729.
00065	STAGE, STREAM (FEET)	09/13/90-09/07/94	308	5.53	5.631	10.79	3.55	1.182	1.087	4.266	5.09	6.055	6.797
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/15/77-04/18/79	18	125.	4179.722	32000.	2.	61571799.389	7846.77	8.3	20.	7525.	12200.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/15/79-03/29/91	8	182.5	2418.963	15000.	4.4	27087717.834	5204.586	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	103	1310.	1239.252	3700.	435.	277932.406	527.193	566.	825.	1470.	1822.
00300	OXYGEN, DISSOLVED MG/L	07/30/69-11/15/79	33	8.6	9.042	12.4	5.8	4.187	2.046	6.28	7.45	11.3	11.62
00400	PH (STANDARD UNITS)	10/21/69-11/15/79	42	8.2	8.048	8.7	6.8	0.22	0.469	7.12	7.875	8.4	8.57
00400	CONVERTED PH (STANDARD UNITS)	10/21/69-11/15/79	42	8.2	7.718	8.7	6.8	0.331	0.576	7.12	7.875	8.4	8.57
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/21/69-11/15/79	42	0.006	0.019	0.158	0.002	0.001	0.033	0.003	0.004	0.013	0.082
00405	CARBON DIOXIDE (MG/L AS CO2)	10/21/69-12/14/78	19	1.2	2.074	12.	0.4	6.822	2.612	0.4	0.9	1.9	4.2
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/21/69-11/15/79	34	133.5	136.676	204.	90.	584.832	24.183	105.	120.	150.	170.
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/47-12/14/78	82	173.	185.5	405.	110.	2178.377	46.673	137.2	155.5	209.25	243.7
00445	CARBONATE ION (MG/L AS CO3)	10/21/69-12/14/78	25	0.	0.44	4.	0.	1.257	1.121	0.	0.	0.	3.
00600	NITROGEN, TOTAL (MG/L AS N)	09/15/77-09/17/79	5	3.2	7.726	24.	0.93	93.355	9.662	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/15/77-09/17/79	5	2.5	6.404	22.	0.41	82.605	9.089	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/77-09/17/79	5	1.	1.382	2.4	0.52	0.812	0.901	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/11/71-03/21/79	7	0.7	0.986	2.5	0.1	0.621	0.788	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/02/78-03/21/79	2	0.03	0.03	0.06	0.	0.002	0.042	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/77-09/17/79	5	2.8	2.648	6.4	0.01	7.435	2.727	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/02/78-03/21/79	2 ##	0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/15/77-03/21/79	4	164.	180.275	391.	2.1	39771.036	199.427	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	93	494.	490.108	1600.	140.	58404.162	241.67	210.8	315.	559.	761.6
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	92	342.	339.902	1400.	0.	48777.584	220.856	92.3	185.5	395.	557.1
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	93	107.	116.118	460.	32.	5145.432	71.732	47.8	71.	130.5	193.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	93	52.	48.699	110.	13.	356.343	18.877	23.	30.	61.5	67.6
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/21/69-11/15/79	35	95.	102.857	370.	26.	5640.067	75.1	29.	35.	160.	196.
00931	SODIUM ADSORPTION RATIO	10/21/69-11/15/79	35	1.9	2.069	6.6	0.8	1.492	1.221	0.9	1.	2.9	3.54
00932	SODIUM, PERCENT	10/01/47-11/15/79	92	30.	31.054	72.	16.	57.568	7.587	23.	26.25	34.	39.7
00933	SODIUM,PLUS POTASSIUM (MG/L)	10/01/47-11/15/79	64	110.	106.094	241.	27.	1925.896	43.885	38.	84.	131.75	159.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/21/69-11/15/79	36	5.05	6.411	20.	2.8	15.387	3.923	3.15	3.75	7.45	12.6
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	93	20.	19.699	50.	5.	45.647	6.756	11.4	14.	23.5	28.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	93	546.	522.237	2200.	120.	102158.139	319.622	150.	283.5	623.5	813.6
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/01/49-11/15/79	41	0.3	0.368	0.8	0.1	0.035	0.188	0.2	0.2	0.5	0.68
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/71-11/15/79	31	10.	9.823	16.	0.5	7.196	2.683	6.78	8.7	11.	12.8

** - 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: GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/15/77-11/15/79	27	2.	2.074	4.	0.	0.764	0.874	1.	2.	3.	3.
01001	ARSENIC, SUSPENDED (UG/L AS AS)	09/15/77-09/17/79	4 ##	6.75	183.5	720.	0.5	127960.167	357.715	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	09/15/77-11/15/79	6	10.	144.167	720.	2.	81671.767	285.783	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/15/77-11/15/79	26 ##	50.	100.385	300.	50.	6291.846	79.321	50.	50.	125.	230.
01020	BORON, DISSOLVED (UG/L AS B)	05/15/49-11/15/79	39	130.	170.513	620.	50.	13547.099	116.392	70.	90.	220.	300.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/15/77-09/17/79	5 ##	0.	0.2	1.	0.	0.2	0.447	**	**	**	**
01026	CADMIUM, SUSPENDED (UG/L AS CD)	09/15/77-09/17/79	5	3.	11.8	50.	0.	462.2	21.499	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	09/15/77-09/17/79	5	3.	11.8	50.	0.	462.2	21.499	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/15/77-09/17/79	5 ##	10.	6.	10.	0.	30.	5.477	**	**	**	**
01031	CHROMIUM, SUSPEND (UG/L AS CR)	09/15/77-09/17/79	5	50.	70.	190.	0.	6550.	80.932	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/15/77-09/17/79	5	50.	74.	200.	0.	7380.	85.907	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	09/15/77-09/17/79	5 ##	0.	0.3	1.5	0.	0.45	0.671	**	**	**	**
01036	COBALT, SUSPENDED (UG/L AS CO)	09/15/77-09/17/79	5	24.	101.	400.	0.	29033.	170.391	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	09/15/77-09/17/79	5	24.	101.	400.	0.	29033.	170.391	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/15/77-11/15/79	27	2.	2.111	9.	0.	4.333	2.082	0.	1.	3.	5.2
01041	COPPER, SUSPENDED (UG/L AS CU)	09/15/77-09/17/79	5	120.	211.2	470.	0.	55977.2	236.595	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/15/77-09/17/79	5	120.	211.8	470.	1.	55667.2	235.939	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	03/14/78-03/21/79	3	71000.	73816.667	150000.	450.	5597250833.333	74814.777	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/15/77-09/17/79	5	71000.	92326.	240000.	170.	10630197280.	103102.848	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/11/71-11/15/79	31	20.	21.29	110.	0.	573.28	23.943	5.	5.	30.	58.
01049	LEAD, DISSOLVED (UG/L AS PB)	09/15/77-11/15/79	23 ##	0.	2.783	14.	0.	20.542	4.532	0.	0.	7.	11.4
01050	LEAD, SUSPENDED (UG/L AS PB)	09/15/77-09/17/79	5	16.	257.4	990.	0.	181870.8	426.463	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/15/77-09/17/79	5	16.	261.4	1000.	0.	185676.8	430.902	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	09/15/77-09/17/79	5	1900.	5841.8	19000.	0.	65716736.2	8106.586	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/15/77-09/17/79	5	1900.	5842.	19000.	5.	65713807.5	8106.405	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/15/77-11/15/79	27 ##	5.	6.944	50.	0.5	85.199	9.23	1.8	5.	5.	10.4
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/15/77-11/15/79	27 ##	10.	15.111	60.	0.	268.526	16.387	1.2	2.	20.	42.
01091	ZINC, SUSPENDED (UG/L ZN)	09/15/77-09/17/79	5	320.	589.4	1500.	7.	456471.8	675.627	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/15/77-09/17/79	5	350.	598.	1500.	10.	448870.	669.978	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/15/77-11/15/79	27	2.	2.333	10.	0.5	4.827	2.197	0.9	1.	3.	5.4
01146	SELENIUM, SUSPENDED (UG/L AS SE)	09/15/77-09/17/79	5	1.	2.2	5.	0.	6.7	2.588	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	09/15/77-09/17/79	5	5.	5.5	15.	0.5	34.	5.831	**	**	**	**
09511	RADIUM 226, DISSOLVED, RADON METHOD	05/28/75-05/28/75	6	0.14	0.265	0.99	0.08	0.127	0.356	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	05/24/74-06/25/74	3	3700.	4640.667	10200.	22.	26561561.333	5153.791	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	05/24/74-06/25/74	3	3.568	2.973	4.009	1.342	2.043	1.429	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			939.885								
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/24/74-09/15/77	4	980.5	1768.25	5100.	12.	5705677.583	2388.656	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/24/74-09/15/77	4	2.532	2.463	3.708	1.079	1.53	1.237	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			290.208								
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/15/77-10/17/79	25	16.	213.66	2100.	0.5	309784.307	556.583	0.5	1.	58.5	1162.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/15/77-10/17/79	25	1.204	1.075	3.322	-0.301	1.293	1.137	-0.301	0.	1.763	3.007
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			11.876								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/15/77-11/15/79	24	365.	13520.125	110000.	6.	765441015.505	27666.605	13.	32.5	15400.	63000.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/15/77-11/15/79	24	2.555	2.766	5.041	0.778	1.942	1.394	1.079	1.508	4.162	4.794
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			583.227								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	05/24/74-08/15/78	5	90.	3703.6	18000.	48.	63880884.8	7992.552	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	05/24/74-08/15/78	5	1.954	2.454	4.255	1.681	1.099	1.048	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			284.573								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-11/15/79	91	940.	904.516	2360.	266.	164821.919	405.983	358.4	575.	1080.	1372.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/71-11/15/79	31	768.	904.419	3350.	274.	442509.318	665.214	331.8	345.	1110.	1836.
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	92	35.05	104.204	1960.	3.	72173.576	268.651	4.009	11.25	68.75	214.6
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	93	1.28	1.258	4.56	0.36	0.425	0.652	0.478	0.78	1.475	1.89
70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	08/14/65-08/25/71	3	2.	1.667	2.	1.	0.333	0.577	**	**	**	**
70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	08/14/65-08/25/71	4	3.5	3.25	5.	1.	4.25	2.062	**	**	**	**
70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	08/14/65-08/25/71	5	4.	10.2	28.	1.	128.7	11.345	**	**	**	**
70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	08/14/65-08/25/71	5	82.	68.6	91.	13.	1002.3	31.659	**	**	**	**
70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	08/14/65-08/25/71	5	87.	75.6	100.	17.	1105.3	33.246	**	**	**	**
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	241	80.	75.386	100.	18.	427.863	20.685	44.4	61.	93.	99.
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	07/25/54-08/30/92	55	94.	87.473	100.	48.	214.995	14.663	62.8	84.	98.	99.
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	07/25/54-08/30/92	51	99.	97.412	100.	80.	22.967	4.792	90.2	97.	100.	100.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/08/54-08/30/92	34	100.	99.324	100.	84.	7.619	2.76	98.5	100.	100.	100.
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	08/04/61-08/30/92	27	100.	99.407	100.	84.	9.481	3.079	100.	100.	100.	100.
70336	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 2.00MM	09/24/90-08/12/94	25	100.	100.	100.	100.	0.	0.	100.	100.	100.	100.

** - Less than 9 observations ## - 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: GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70337p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	170	37.	38.247	331.	4.	859.998	29.326	13.	21.	50.	63.8
70338p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	188	44.	44.596	94.	5.	518.092	22.762	16.	27.	61.5	76.2
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/12/57-09/07/94	94	40.	42.34	93.	9.	408.119	20.202	16.	27.	58.25	68.
70340p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	188	63.	59.899	100.	8.	704.594	26.544	22.	37.	81.75	96.
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	07/12/57-09/07/94	94	60.5	59.553	100.	15.	538.981	23.216	26.	39.75	80.25	87.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	116	87.5	79.509	100.	13.	447.904	21.164	44.1	69.5	95.	98.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	105	97.	91.505	100.	30.	194.252	13.937	75.6	92.	99.	100.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	93	100.	97.935	100.	66.	37.8	6.148	95.4	99.	100.	100.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	08/04/61-03/25/93	63	100.	99.762	100.	94.	0.829	0.911	99.4	100.	100.	100.
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	08/04/61-03/25/93	42	100.	99.976	100.	99.	0.024	0.154	100.	100.	100.	100.
70347	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM	08/28/72-03/25/93	38	100.	100.	100.	100.	0.	0.	100.	100.	100.	100.
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/01/47-02/01/50	56	3.55	3.564	9.	0.3	2.196	1.482	1.15	3.025	4.35	5.13
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/17/79-09/17/79	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	09/15/77-09/17/79	5	14.	34.86	110.	4.1	1968.788	44.371	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/15/77-09/17/79	5 ##	0.05	0.09	0.25	0.05	0.008	0.089	**	**	**	**
71895	MERCURY, SUSPENDED (UG/L AS HG)	09/15/77-09/17/79	5	0.1	0.48	1.4	0.	0.407	0.638	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	09/15/77-11/15/79	6 ##	0.075	0.425	1.4	0.05	0.341	0.584	**	**	**	**
80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	05/28/75-05/28/75	6	2.2	2.217	2.6	2.	0.042	0.204	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	490	59050.	119630.696	1130000.	6.26168548442.347		161766.957	2217.	24350.	148000.	285288.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/13/59-09/17/79	106	2965.	277042.31	7640000.	0.11883194947364.549939784.522			6.64	167.5	51450.	884200.
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	04/13/63-05/27/71	5	3.	8.4	24.	1.	95.3	9.762	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	04/13/63-05/27/71	6	9.5	20.167	62.	7.	471.767	21.72	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	04/13/63-05/27/71	6	46.5	50.833	98.	20.	722.967	26.888	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	04/13/63-05/27/71	6	73.5	69.	100.	31.	803.2	28.341	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	04/13/63-05/27/71	5	78.	67.	98.	35.	719.5	26.823	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	04/13/63-05/27/71	5	84.	73.2	99.	45.	565.2	23.774	**	**	**	**
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	04/13/63-05/27/71	5	91.	82.4	100.	62.	295.3	17.184	**	**	**	**
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	04/13/63-05/27/71	4	95.	92.5	98.	82.	51.	7.141	**	**	**	**
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	04/13/63-05/27/71	4	100.	96.5	100.	86.	49.	7.	**	**	**	**
80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	04/13/63-04/13/63	1	91.	91.	91.	91.	0.	0.	**	**	**	**
81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	10/25/92-10/25/92	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: GRCA0012

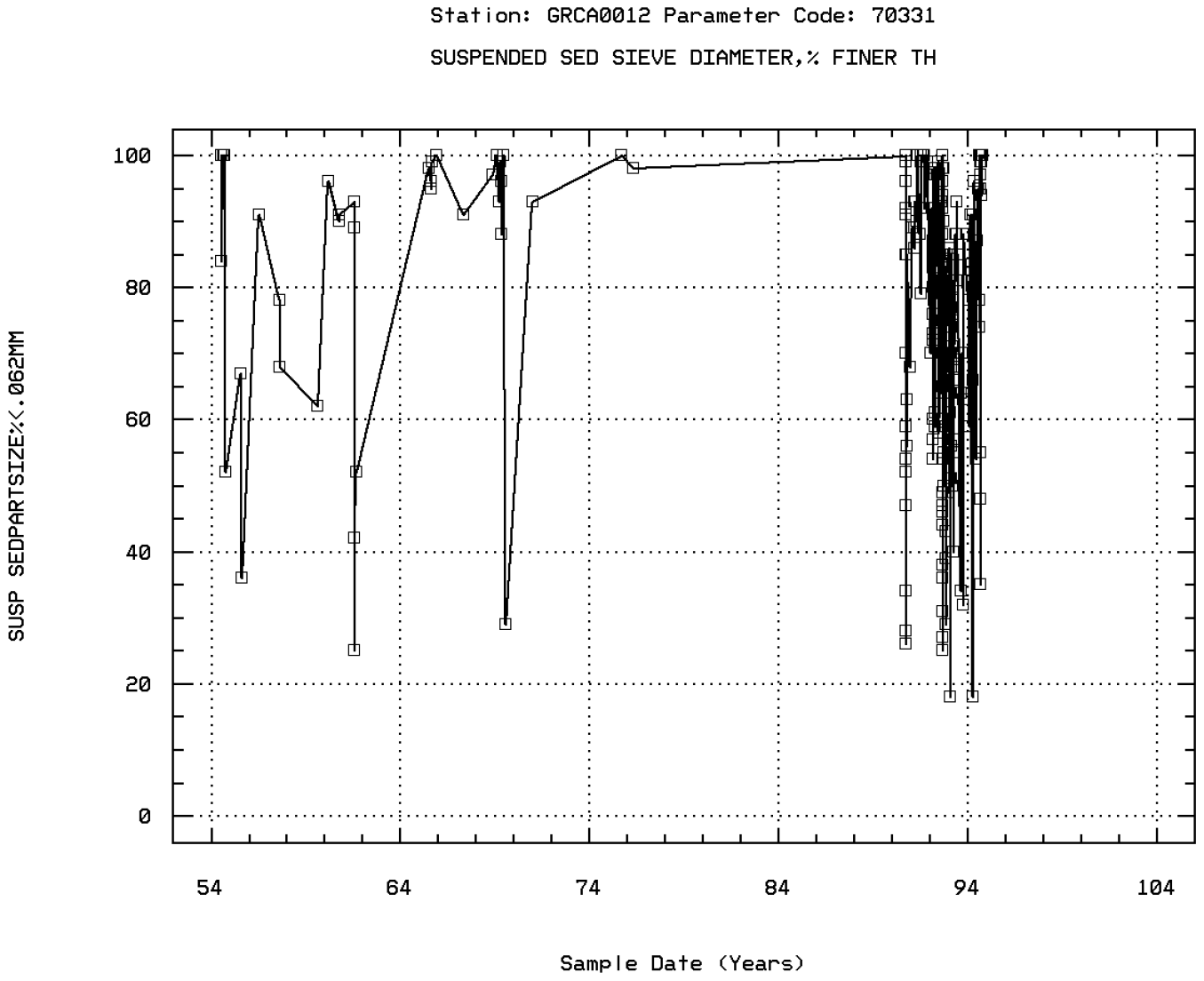
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	18	12	0.67	10	7	0.70	5	3	0.60	3	2	0.67			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	8	5	0.63	2	1	0.50	2	2	1.00	4	2	0.50			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	33	0	0.00	14	0	0.00	8	0	0.00	11	0	0.00			
00400	PH	Other-Hi Lim.	9.	42	0	0.00	21	0	0.00	9	0	0.00	12	0	0.00			
		Other-Lo Lim.	6.5	42	0	0.00	21	0	0.00	9	0	0.00	12	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	7	0	0.00	4	0	0.00	1	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	93	0	0.00	51	0	0.00	20	0	0.00	22	0	0.00			
		Drinking Water	250.	93	0	0.00	51	0	0.00	20	0	0.00	22	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	93	73	0.78	51	44	0.86	20	15	0.75	22	14	0.64			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	41	0	0.00	18	0	0.00	7	0	0.00	16	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	27	0	0.00	13	0	0.00	6	0	0.00	8	0	0.00			
		Drinking Water	50.	27	0	0.00	13	0	0.00	6	0	0.00	8	0	0.00			
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	4	1	0.25	1	0	0.00				3	1	0.33			
		Drinking Water	50.	4	1	0.25	1	0	0.00				3	1	0.33			
01002	ARSENIC, TOTAL	Fresh Acute	360.	6	1	0.17	2	0	0.00	1	0	0.00	3	1	0.33			
		Drinking Water	50.	6	2	0.33	2	0	0.00	1	1	1.00	3	1	0.33			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	26	0	0.00	13	0	0.00	6	0	0.00	7	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	5.	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
01026	CADMIUM, SUSPENDED	Fresh Acute	3.9	5	2	0.40	1	0	0.00	1	1	1.00	3	1	0.33			
		Drinking Water	5.	5	2	0.40	1	0	0.00	1	1	1.00	3	1	0.33			

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

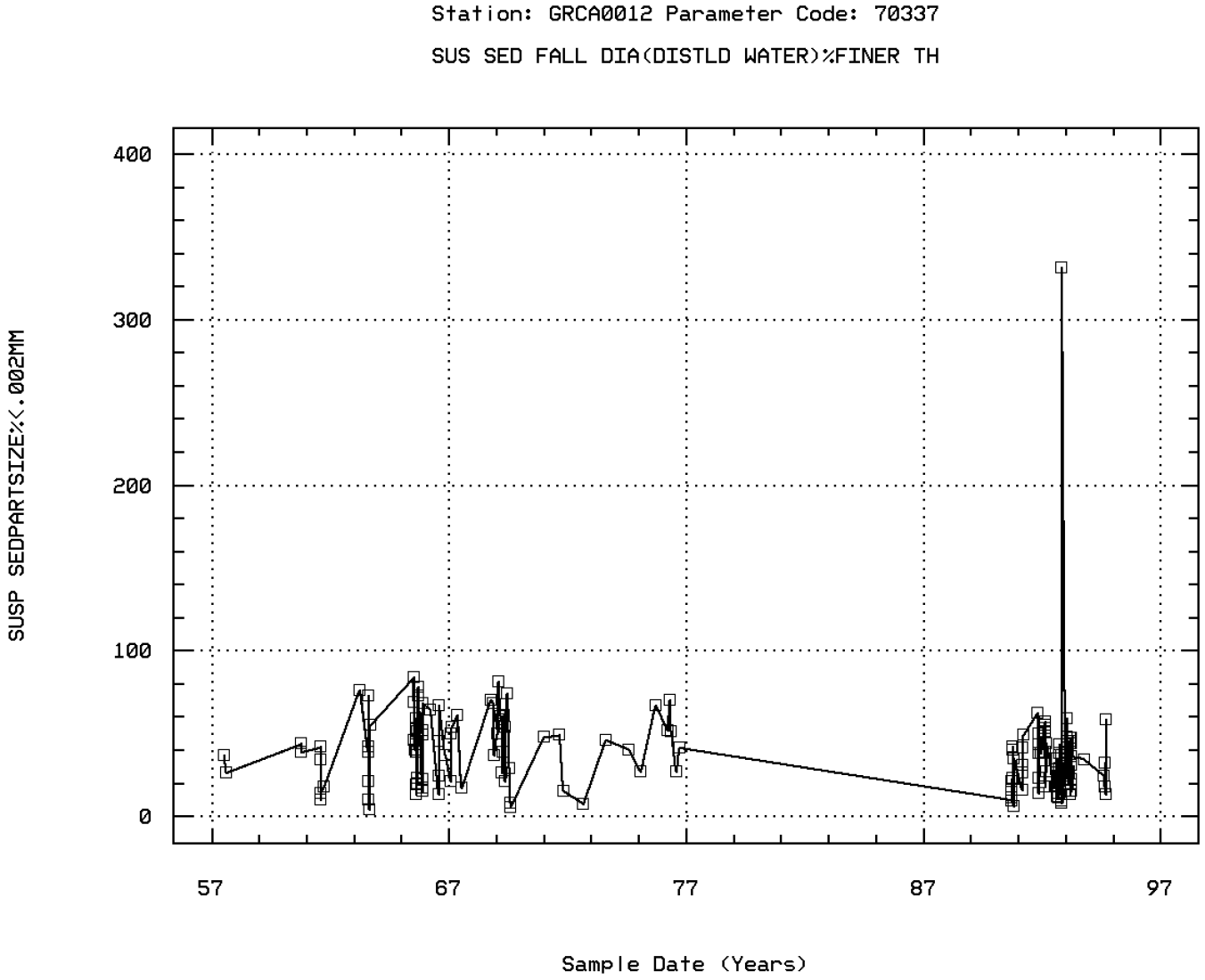
EPA Water Quality Criteria Analysis for Station: GRCA0012

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01027	CADMIUM, TOTAL	Fresh Acute	3.9	5	2	0.40	1	0	0.00	1	1	1.00	3	1	0.33			
		Drinking Water	5.	5	2	0.40	1	0	0.00	1	1	1.00	3	1	0.33			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	5	2	0.40	1	0	0.00	1	1	1.00	3	1	0.33			
01034	CHROMIUM, TOTAL	Drinking Water	100.	5	2	0.40	1	0	0.00	1	1	1.00	3	1	0.33			
01040	COPPER, DISSOLVED	Fresh Acute	18.	27	0	0.00	13	0	0.00	6	0	0.00	8	0	0.00			
		Drinking Water	1300.	27	0	0.00	13	0	0.00	6	0	0.00	8	0	0.00			
01041	COPPER, SUSPENDED	Fresh Acute	18.	5	3	0.60	1	1	1.00	1	1	1.00	3	1	0.33			
		Drinking Water	1300.	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	5	3	0.60	1	1	1.00	1	1	1.00	3	1	0.33			
		Drinking Water	1300.	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	23	0	0.00	9	0	0.00	6	0	0.00	8	0	0.00			
		Drinking Water	15.	23	0	0.00	9	0	0.00	6	0	0.00	8	0	0.00			
01050	LEAD, SUSPENDED	Fresh Acute	82.	5	2	0.40	1	0	0.00	1	1	1.00	3	1	0.33			
		Drinking Water	15.	5	3	0.60	1	1	1.00	1	1	1.00	3	1	0.33			
01051	LEAD, TOTAL	Fresh Acute	82.	5	2	0.40	1	0	0.00	1	1	1.00	3	1	0.33			
		Drinking Water	15.	5	3	0.60	1	1	1.00	1	1	1.00	3	1	0.33			
01090	ZINC, DISSOLVED	Fresh Acute	120.	27	0	0.00	13	0	0.00	6	0	0.00	8	0	0.00			
		Drinking Water	5000.	27	0	0.00	13	0	0.00	6	0	0.00	8	0	0.00			
01091	ZINC, SUSPENDED	Fresh Acute	120.	5	3	0.60	1	1	1.00	1	1	1.00	3	1	0.33			
		Drinking Water	5000.	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	5	3	0.60	1	1	1.00	1	1	1.00	3	1	0.33			
		Drinking Water	5000.	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	27	0	0.00	13	0	0.00	6	0	0.00	8	0	0.00			
		Drinking Water	50.	27	0	0.00	13	0	0.00	6	0	0.00	8	0	0.00			
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	50.	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	50.	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	3	2	0.67				2	2	1.00	1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	4	2	0.50				2	1	0.50	2	1	0.50			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	25	4	0.16	12	0	0.00	6	2	0.33	7	2	0.29			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	56	0	0.00	32	0	0.00	12	0	0.00	12	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	2.	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	5	0	0.00	1	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	2.	5	0	0.00	1	0	0.00	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			
80020	URANIUM, DISS. BY EXTRACTION FLUOROMETRI	Drinking Water	20.	6	0	0.00				6	0	0.00						

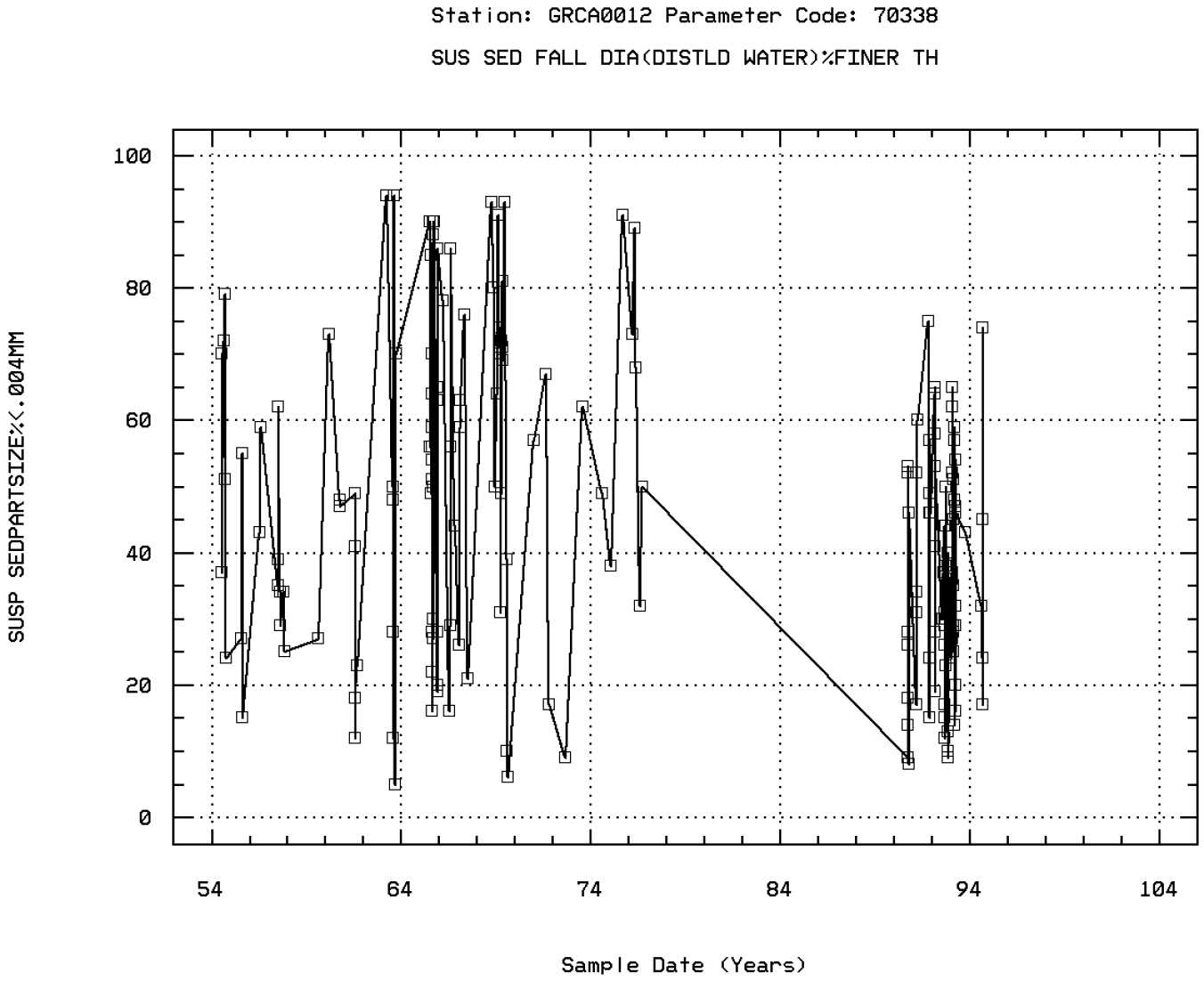
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



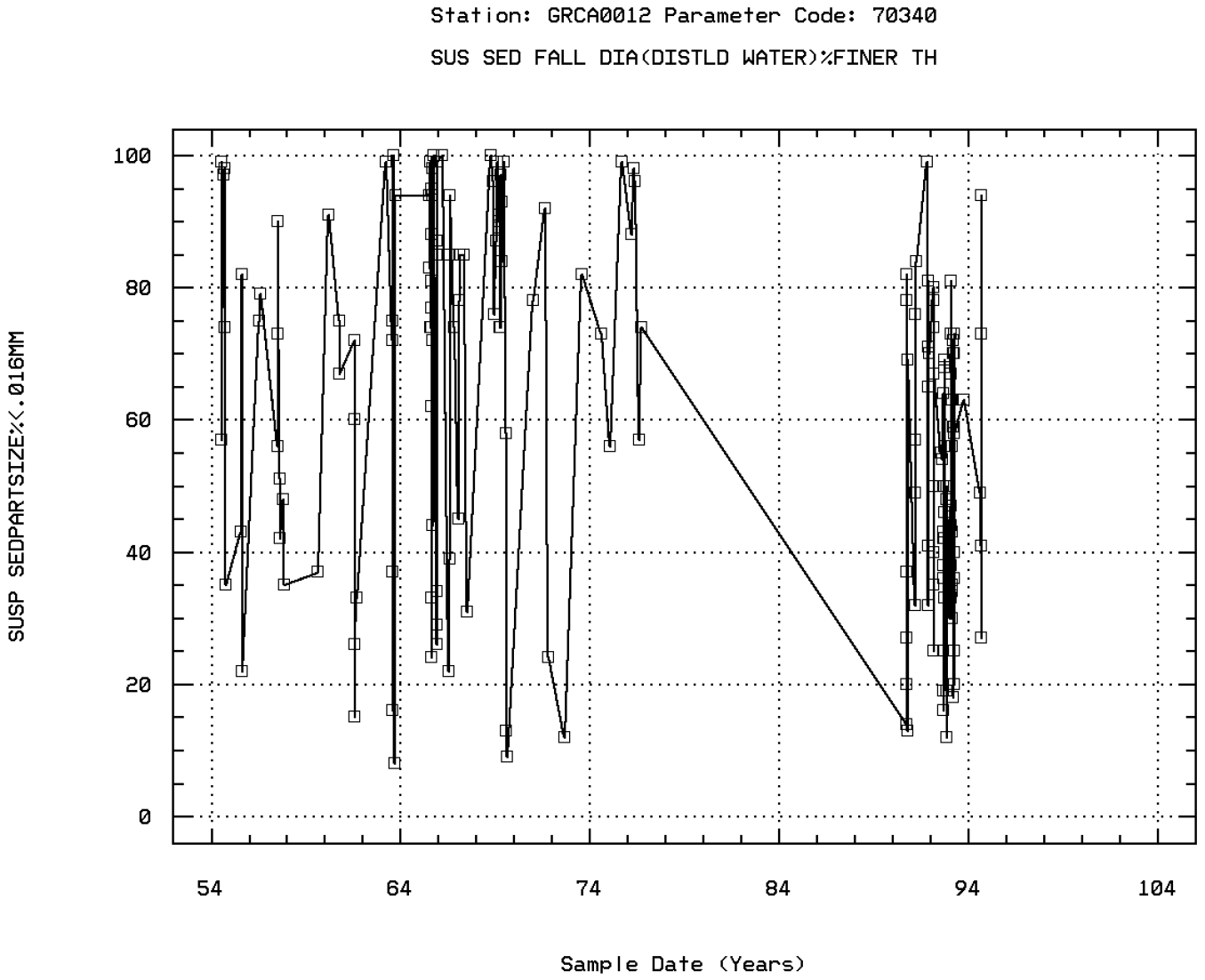
PARIA RIVER AT LEES FERRY, ARIZ.



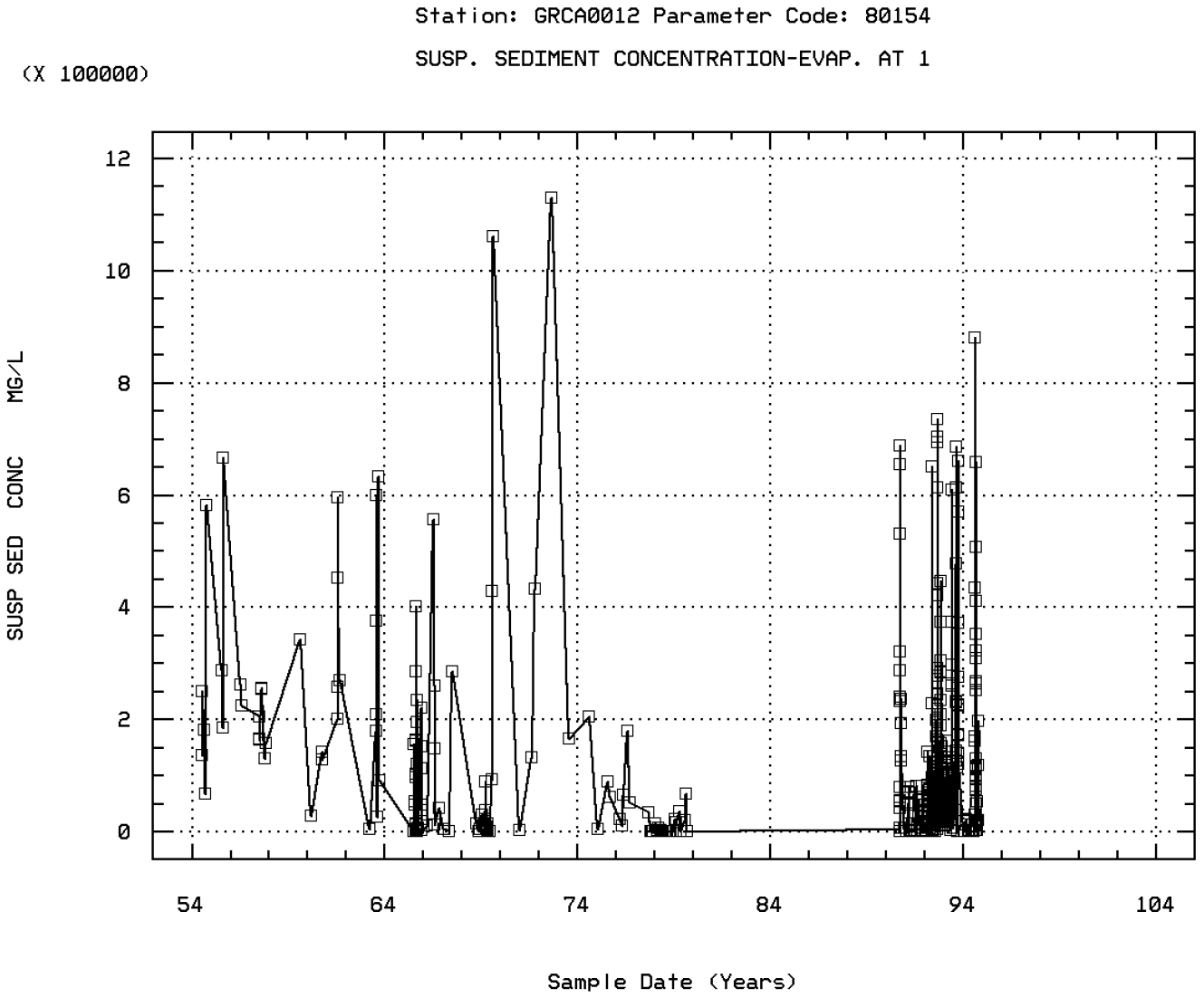
PARIA RIVER AT LEES FERRY, ARIZ.



PARIA RIVER AT LEES FERRY, ARIZ.



PARIA RIVER AT LEES FERRY, ARIZ.



PARIA RIVER AT LEES FERRY, ARIZ.

Annual Analysis for 1947 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	7	20.	31.	109.	4.	1233.667	35.124	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	7	1320.	1270.286	1510.	702.	73720.571	271.515	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	7	508.	487.286	570.	292.	8121.571	90.12	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	7	376.	331.143	398.	172.	6519.476	80.743	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	7	107.	107.429	132.	66.	452.286	21.267	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	7	58.	53.286	64.	31.	167.571	12.945	**	**	**	**
00932	SODIUM, PERCENT	10/01/47-11/15/79	7	32.	32.	45.	22.	49.	7.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	7	20.	20.	28.	12.	38.	6.164	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	7	563.	522.429	630.	224.	19663.286	140.226	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-11/15/79	7	940.	911.714	1130.	448.	50564.905	224.866	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	7	46.	87.043	333.	5.3	12194.48	110.429	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	7	1.28	1.241	1.54	0.61	0.094	0.306	**	**	**	**

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

Annual Analysis for 1948 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	6	16.	22.667	65.	6.	451.067	21.238	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	17	8.	11.706	31.	3.	80.721	8.984	3.8	5.	19.	26.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	23	1310.	1183.	2130.	556.	149959.727	387.246	566.8	877.	1400.	1578.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	23	476.	476.304	1030.	212.	31405.858	177.217	230.8	380.	540.	670.2
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	23	342.	322.826	814.	88.	25317.332	159.114	117.6	195.	380.	499.4
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	23	106.	109.826	319.	42.	2984.877	54.634	51.2	82.	124.	153.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	23	52.	49.13	86.	23.	241.573	15.543	26.4	36.	59.	65.4
00932	SODIUM, PERCENT	10/01/47-11/15/79	23	30.	30.13	37.	19.	20.846	4.566	23.	29.	34.	35.6
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	23	21.	19.13	25.	12.	17.209	4.148	12.4	16.	22.	24.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	23	549.	481.87	1060.	148.	45990.937	214.455	163.6	299.	596.	714.6
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-11/15/79	23	937.	852.217	1720.	337.	101731.814	318.954	359.8	587.	1040.	1176.
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	23	22.	41.287	302.	3.6	3761.569	61.332	3.92	10.	49.	79.8
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	23	1.27	1.16	2.34	0.46	0.188	0.433	0.494	0.8	1.41	1.602

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

Annual Analysis for 1949 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	18	13.5	23.389	137.	3.	998.487	31.599	3.	4.75	26.5	58.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	6	15.5	18.	36.	9.	86.8	9.317	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	24	1430.	1372.5	2830.	609.	224005.391	473.292	691.	1122.5	1575.	1885.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	24	518.5	554.542	1320.	244.	50065.737	223.754	279.	422.	654.75	784.5
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	24	359.	392.333	992.	124.	33423.362	182.821	168.	275.25	498.	586.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	24	119.	132.375	376.	50.	4644.853	68.153	60.	93.5	157.	221.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	24	56.	54.583	94.	27.	291.297	17.067	28.5	39.5	64.25	78.5
00932	SODIUM, PERCENT	10/01/47-11/15/79	24	30.	29.917	42.	16.	35.384	5.948	23.	26.	33.5	39.
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	24	22.	21.375	32.	12.	24.245	4.924	13.5	19.	24.	28.5
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	24	597.	577.583	1420.	169.	67714.688	260.22	226.	440.25	661.75	855.5
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-11/15/79	24	1010.	998.333	2360.	374.	169812.319	412.083	441.5	784.5	1145.	1430.
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	24	40.5	65.433	396.	3.3	6977.16	83.529	4.25	19.5	85.25	148.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	24	1.375	1.359	3.21	0.51	0.314	0.561	0.6	1.065	1.56	1.945

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

Annual Analysis for 1950 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	3	30.	28.667	32.	24.	17.333	4.163	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	3	1390.	1420.	1500.	1370.	4900.	70.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	3	558.	568.333	597.	550.	632.333	25.146	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	3	378.	384.333	398.	377.	140.333	11.846	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	3	120.	124.	132.	120.	48.	6.928	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	3	63.	63.	65.	61.	4.	2.	**	**	**	**
00932	SODIUM, PERCENT	10/01/47-11/15/79	3	31.	30.667	31.	30.	0.333	0.577	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	3	23.	25.667	31.	23.	21.333	4.619	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	3	570.	575.667	600.	557.	486.333	22.053	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-11/15/79	3	997.	1021.	1080.	986.	2641.	51.391	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	3	86.	79.	87.	64.	169.	13.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	3	1.36	1.39	1.47	1.34	0.005	0.07	**	**	**	**

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

Annual Analysis for 1954 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	6	123.	153.333	435.	18.	25325.467	159.14	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	5	100.	87.2	100.	52.	435.2	20.861	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	6	60.5	55.5	79.	24.	477.9	21.861	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	6	85.5	76.667	99.	35.	699.467	26.447	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	1	94.	94.	94.	94.	0.	0.	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	1	98.	98.	98.	98.	0.	0.	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	6	158000.	213466.667	581000.	67300.37	245086666.667	192989.862	**	**	**	**

** - 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

Annual Analysis for 1955 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	3	24.	24.	26.	22.	4.	2.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	3	364.	310.667	408.	160.	17509.333	132.323	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	2	51.5	51.5	67.	36.	480.5	21.92	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	3	27.	32.333	55.	15.	421.333	20.526	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	3	43.	49.	82.	22.	927.	30.447	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	2	60.5	60.5	99.	22.	2964.5	54.447	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	3	287000.	379000.	665000.	185000.63	948000000.	252879.418	**	**	**	**

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

Annual Analysis for 1956 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	2	23.	23.	24.	22.	2.	1.414	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	2	196.	196.	227.	165.	1922.	43.841	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	1	91.	91.	91.	91.	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	2	51.	51.	59.	43.	128.	11.314	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	2	77.	77.	79.	75.	8.	2.828	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	1	96.	96.	96.	96.	0.	0.	**	**	**	**

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Annual Analysis for 1956 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	2	243000.	243000.	261000.	225000.	648000000.	25455.844	**	**	**	**

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

Annual Analysis for 1957 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	8	20.5	20.55	34.	9.4	56.706	7.53	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	8	745.	870.625	2290.	32.	645905.696	803.683	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	2	73.	73.	78.	68.	50.	7.071	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	2	31.5	31.5	37.	26.	60.5	7.778	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	7	34.	36.857	62.	25.	143.143	11.964	**	**	**	**
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/12/57-09/07/94	2	49.	49.	57.	41.	128.	11.314	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	7	51.	56.429	90.	35.	361.619	19.016	**	**	**	**
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	07/12/57-09/07/94	2	74.	74.	86.	62.	288.	16.971	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	7	78.	79.	100.	58.	250.333	15.822	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	4	97.5	94.25	100.	82.	69.583	8.342	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	3	100.	100.	100.	100.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	7	166000.	190142.857	256000.	130000.	2445142857.143	49448.386	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	1	22.8	22.8	22.8	22.8	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	1	478.	478.	478.	478.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	1	478.	478.	478.	478.	0.	0.	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	1	62.	62.	62.	62.	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	1	27.	27.	27.	27.	0.	0.	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	1	37.	37.	37.	37.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	1	341000.	341000.	341000.	341000.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	3	12.8	12.233	15.6	8.3	13.563	3.683	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	3	129.	243.333	551.	50.	72554.333	269.359	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	3	129.	243.333	551.	50.	72554.333	269.359	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	3	91.	92.333	96.	90.	10.333	3.215	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	2	41.5	41.5	44.	39.	12.5	3.536	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	3	48.	56.	73.	47.	217.	14.731	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	3	75.	77.667	91.	67.	149.333	12.22	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	3	91.	92.333	96.	90.	10.333	3.215	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	3	98.	98.333	99.	98.	0.333	0.577	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	3	100.	100.	100.	100.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	3	127000.	98566.667	142000.	26700.	3929863333.333	62688.622	**	**	**	**

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

Annual Analysis for 1961 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	5	25.	23.34	25.6	18.9	7.908	2.812	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	5	2470.	2320.2	6270.	86.	6252845.2	2500.569	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	5	2470.	2320.2	6270.	86.	6252845.2	2500.569	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	5	52.	60.2	93.	25.	885.7	29.761	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	5	18.	23.6	42.	10.	188.8	13.74	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	5	23.	28.6	49.	12.	247.3	15.726	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	5	33.	41.2	72.	15.	571.7	23.91	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	5	52.	60.2	93.	25.	885.7	29.761	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	5	83.	78.8	98.	48.	460.7	21.464	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	5	99.	94.	100.	80.	75.5	8.689	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	5	270000.	355000.	596000.	200000.	26989000000.	164283.292	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	9	21.1	18.956	23.3	6.1	26.658	5.163	6.1	17.8	21.4	23.3
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	9	102.	333.222	965.	6.	162291.194	402.854	6.	15.5	807.5	965.
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	8	40.5	40.	76.	4.	738.857	27.182	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	8	49.	50.125	94.	5.	1175.554	34.286	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	8	73.5	62.625	100.	8.	1394.268	37.34	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	7	95.	70.143	100.	13.	1395.476	37.356	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	5	81.	70.8	99.	30.	979.7	31.3	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	5	96.	88.4	100.	67.	218.3	14.775	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	8	194000.	264617.5	633000.	3140.60923012735.714		246825.875	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	18	23.05	22.161	30.6	5.6	33.67	5.803	11.54	20.975	25.875	28.53
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	25	35.	237.12	1670.	4.	200096.777	447.322	8.2	12.5	207.5	1104.8
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	5	98.	97.6	100.	95.	4.3	2.074	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	25	45.	44.72	84.	13.	481.46	21.942	16.2	22.5	63.5	78.
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	25	56.	54.24	90.	16.	632.273	25.145	19.6	28.	77.5	90.
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/12/57-09/07/94	1	64.	64.	64.	64.	0.	0.	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	25	81.	71.08	100.	24.	677.577	26.03	27.8	44.	94.	99.
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	07/12/57-09/07/94	1	87.	87.	87.	87.	0.	0.	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	20	94.5	83.15	100.	42.	426.661	20.656	45.4	62.	97.75	100.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	17	98.	92.824	100.	67.	95.279	9.761	77.4	84.	100.	100.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	12	99.5	98.833	100.	95.	2.515	1.586	95.6	98.	100.	100.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	25	95400.	104784.76	401000.	655.10954848951.44		104665.414	1075.6	8735.	162000.	253800.

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	5	21.7	16.78	28.9	3.3	115.707	10.757	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	6	30.	67.833	196.	8.	5569.367	74.628	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	6	41.	41.667	67.	13.	461.467	21.482	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	6	50.	51.5	86.	16.	747.1	27.333	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	6	79.5	69.	100.	22.	995.2	31.547	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	5	92.	79.	98.	39.	653.	25.554	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	5	96.	89.2	100.	63.	236.7	15.385	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	4	99.5	98.	100.	93.	11.333	3.367	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	6	94550.	170765.	555000.	9190.44850888950.		211780.285	**	**	**	**

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

Annual Analysis for 1967 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	5	7.8	13.34	25.6	6.1	86.513	9.301	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	6	44.	141.833	410.	10.	29493.767	171.737	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	1	91.	91.	91.	91.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	5	50.	40.6	61.	17.	406.3	20.157	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	5	59.	49.	76.	21.	584.5	24.176	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	5	78.	64.8	85.	31.	631.2	25.124	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	4	74.	73.25	91.	54.	324.917	18.025	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	4	88.	88.75	95.	84.	26.917	5.188	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	4	98.5	98.5	99.	98.	0.333	0.577	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	5	4220.	59317.	284000.	435.15778364720.		125611.961	**	**	**	**

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Annual Analysis for 1968 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	3	9.	10.	14.	7.	13.	3.606	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	3	14.	17.667	28.	11.	82.333	9.074	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	1	97.	97.	97.	97.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	3	68.	58.333	70.	37.	342.333	18.502	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	3	80.	74.333	93.	50.	486.333	22.053	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	3	96.	90.667	100.	76.	165.333	12.858	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	1	84.	84.	84.	84.	0.	0.	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	1	94.	94.	94.	94.	0.	0.	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	3	3570.	6244.667	14700.	464.	56031305.333	7485.406	**	**	**	**

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Annual Analysis for 1969 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	17	17.	16.5	27.	4.	55.688	7.462	4.8	11.	24.25	26.2
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	19	56.	191.	920.	3.	88652.889	297.746	11.	21.	175.	870.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	4	1780.	1740.	2000.	1400.	88800.	297.993	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	1	656.	656.	656.	656.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	1	520.	520.	520.	520.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	1	152.	152.	152.	152.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	1	67.	67.	67.	67.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/01/47-11/15/79	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	1	28.	28.	28.	28.	0.	0.	**	**	**	**

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Annual Analysis for 1969 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	1	722.	722.	722.	722.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-11/15/79	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	1	68.	68.	68.	68.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	1	1.63	1.63	1.63	1.63	0.	0.	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	7	96.	86.429	100.	29.	660.286	25.696	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	15	54.	45.2	81.	5.	523.743	22.885	6.8	26.	60.	76.8
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	15	70.	59.4	93.	6.	720.257	26.838	8.4	39.	74.	91.8
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/12/57-09/07/94	3	81.	58.	81.	12.	1587.	39.837	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	15	89.	76.667	99.	9.	831.095	28.829	11.4	74.	93.	99.
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	07/12/57-09/07/94	3	87.	64.667	90.	17.	1706.333	41.308	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	12	91.5	79.917	97.	20.	714.447	26.729	22.7	78.	96.	97.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	11	99.	90.455	100.	41.	356.073	18.87	46.4	94.	100.	100.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	8	100.	96.75	100.	77.	64.786	8.049	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	15	13800.	120868.	1060000.	1040.79	098220545.714	281244.059	1484.	5130.	88200.	680800.

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Annual Analysis for 1970 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	5	21.	17.5	32.5	5.	124.	11.136	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	6	6.5	14.	31.	5.	164.8	12.837	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	5	701.	818.8	1270.	575.	83675.7	289.268	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	4	311.	336.	498.	224.	14360.	119.833	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	4	175.5	196.5	342.	93.	11715.	108.236	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	4	72.5	76.75	110.	52.	658.25	25.656	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	4	31.5	35.	54.	23.	184.667	13.589	**	**	**	**
00932	SODIUM, PERCENT	10/01/47-11/15/79	4	26.	26.25	30.	23.	10.917	3.304	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	4	18.5	18.25	23.	13.	18.25	4.272	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	4	250.5	289.25	514.	142.	27426.25	165.609	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-11/15/79	4	569.	617.25	937.	394.	57062.25	238.877	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	4	10.19	25.453	75.9	5.53	1148.299	33.887	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	4	0.775	0.84	1.27	0.54	0.103	0.321	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	1	93.	93.	93.	93.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	1	48.	48.	48.	48.	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	1	57.	57.	57.	57.	0.	0.	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	1	78.	78.	78.	78.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	1	1440.	1440.	1440.	1440.	0.	0.	**	**	**	**

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Annual Analysis for 1971 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	9	17.5	17.278	32.	0.	92.194	9.602	0.	11.	24.	32.
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	8	10.5	127.	895.	1.	96651.429	310.888	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	6	1055.	1308.833	2530.	513.	573580.167	757.351	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	4	655.	652.5	1100.	200.	181825.	426.409	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	4	490.	502.25	950.	79.	165040.25	406.251	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	4	167.5	178.5	330.	49.	17859.	133.638	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	4	54.5	50.5	73.	20.	577.667	24.035	**	**	**	**
00932	SODIUM, PERCENT	10/01/47-11/15/79	4	26.	26.	33.	19.	43.333	6.583	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	4	14.	14.5	20.	10.	19.667	4.435	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	4	680.	722.5	1400.	130.	312891.667	559.367	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-11/15/79	3	1490.	1488.667	2120.	856.	399425.333	632.001	**	**	**	**

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Annual Analysis for 1971 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	3	30.6	32.067	35.6	30.	9.453	3.075	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	4	1.595	1.63	2.88	0.45	1.112	1.054	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	2	32.	32.	49.	15.	578.	24.042	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	2	42.	42.	67.	17.	1250.	35.355	**	**	**	**
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/12/57-09/07/94	2	49.	49.	78.	20.	1682.	41.012	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	2	58.	58.	92.	24.	2312.	48.083	**	**	**	**
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	07/12/57-09/07/94	2	64.	64.	99.	29.	2450.	49.497	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	2	70.5	70.5	100.	41.	1740.5	41.719	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	1	69.	69.	69.	69.	0.	0.	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	1	94.	94.	94.	94.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	2	282000.	282000.	433000.	131000.	45602000000.	213546.248	**	**	**	**

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Annual Analysis for 1972 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	4	20.25	17.5	29.	0.5	148.833	12.2	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	4	79.5	295.25	1020.	2.	238584.917	488.452	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	3	1580.	1973.333	3700.	640.	2456933.333	1567.461	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	1	1600.	1600.	1600.	1600.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	1	1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	1	460.	460.	460.	460.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/01/47-11/15/79	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	1	2200.	2200.	2200.	2200.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	1	1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	1	4.56	4.56	4.56	4.56	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	1	7.	7.	7.	7.	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	1	9.	9.	9.	9.	0.	0.	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	1	12.	12.	12.	12.	0.	0.	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	1	21.	21.	21.	21.	0.	0.	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	1	38.	38.	38.	38.	0.	0.	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	1	66.	66.	66.	66.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	1	1130000.	1130000.	1130000.	1130000.	0.	0.	**	**	**	**

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Annual Analysis for 1973 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	1	19.	19.	19.	19.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	1	46.	46.	46.	46.	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	1	62.	62.	62.	62.	0.	0.	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	1	82.	82.	82.	82.	0.	0.	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	1	95.	95.	95.	95.	0.	0.	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	1	98.	98.	98.	98.	0.	0.	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	1	166000.	166000.	166000.	166000.	0.	0.	**	**	**	**

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

Annual Analysis for 1974 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	1	104.	104.	104.	104.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	1	40.	40.	40.	40.	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	1	49.	49.	49.	49.	0.	0.	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	1	73.	73.	73.	73.	0.	0.	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	1	93.	93.	93.	93.	0.	0.	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	1	98.	98.	98.	98.	0.	0.	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	1	204000.	204000.	204000.	204000.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	3	22.	19.	27.	8.	97.	9.849	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	3	48.	71.333	151.	15.	5032.333	70.939	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	2	47.	47.	67.	27.	800.	28.284	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	2	64.5	64.5	91.	38.	1404.5	37.477	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	2	77.5	77.5	99.	56.	924.5	30.406	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	2	75.	75.	81.	69.	72.	8.485	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	2	89.5	89.5	94.	85.	40.5	6.364	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	2	99.	99.	99.	99.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	3	60200.	50576.667	87800.	3730.	1836397633.333	42853.21	**	**	**	**

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

Annual Analysis for 1976 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	5	23.	20.6	24.	15.	15.3	3.912	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	4	28.5	33.	55.	20.	232.667	15.253	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	1	98.	98.	98.	98.	0.	0.	**	**	**	**
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	5	51.	48.2	70.	27.	249.7	15.802	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	5	68.	62.4	89.	32.	482.3	21.961	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	5	88.	82.6	98.	57.	293.8	17.141	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	4	91.	92.	99.	87.	26.	5.099	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	4	98.	96.5	99.	91.	14.333	3.786	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	4	99.5	99.25	100.	98.	0.917	0.957	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	5	50600.	64970.	178000.	9550.	4475037000.	66895.717	**	**	**	**

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Annual Analysis for 1977 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	4	14.	13.	20.	4.	60.667	7.789	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	4	14.	12.25	16.	5.	26.917	5.188	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	4	1055.	1030.	1460.	550.	139266.667	373.184	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	4	435.	400.	510.	220.	15800.	125.698	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	4	305.	264.5	350.	98.	12787.667	113.083	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	4	87.5	91.75	140.	52.	1318.917	36.317	**	**	**	**

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Annual Analysis for 1977 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	4	44.5	41.5	55.	22.	221.667	14.888	**	**	**	**
00932	SODIUM, PERCENT	10/01/47-11/15/79	4	28.5	30.	39.	24.	40.667	6.377	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	4	16.5	15.75	20.	10.	21.583	4.646	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	4	405.	400.	650.	140.	43533.333	208.646	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-11/15/79	4	800.5	771.	1140.	343.	107210.	327.429	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	4	34.8	27.7	36.9	4.3	244.4	15.633	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	4	1.09	1.05	1.55	0.47	0.197	0.444	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	4	165.5	8290.5	32800.	31.	266989520.333	16339.814	**	**	**	**

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Annual Analysis for 1978 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	13	17.	16.923	31.5	0.	118.619	10.891	1.6	7.25	27.	30.1
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	13	8.	35.077	271.	4.	5295.744	72.772	4.	4.	38.5	182.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	13	630.	819.231	1700.	435.	165895.192	407.302	437.	520.	1080.	1600.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	11	230.	275.455	450.	160.	11347.273	106.524	166.	190.	410.	446.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	11	110.	148.182	290.	64.	8352.964	91.395	64.8	74.	270.	288.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	11	54.	62.455	120.	32.	765.673	27.671	33.2	44.	83.	116.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	11	23.	28.818	53.	19.	140.764	11.864	19.2	22.	36.	52.2
00932	SODIUM, PERCENT	10/01/47-11/15/79	10	29.5	32.5	48.	24.	76.056	8.721	24.2	26.	38.75	47.9
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	11	12.	14.455	25.	9.	27.073	5.203	9.4	11.	17.	24.6
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	11	180.	269.091	600.	120.	29849.091	172.769	120.	140.	450.	582.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-11/15/79	11	397.	548.	1090.	266.	80307.8	283.386	276.2	334.	818.	1061.4
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	11	10.7	93.265	798.	3.	55424.526	235.424	3.106	3.59	76.2	653.74
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	11	0.54	0.745	1.48	0.36	0.149	0.385	0.374	0.45	1.11	1.442
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	12	130.5	2096.917	14700.	9.	18735173.72	4328.415	15.	31.5	2095.	12066.

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Annual Analysis for 1979 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	10	17.75	16.35	31.	3.	98.725	9.936	3.3	6.375	26.25	30.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	10	46.5	79.3	354.	4.	11623.344	107.812	4.2	6.75	107.75	332.9
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	10	1400.	1359.5	2230.	505.	210774.722	459.102	551.	1092.5	1540.	2185.
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	11	510.	487.273	950.	140.	60961.818	246.904	150.	210.	560.	920.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	10	370.	355.6	810.	0.	63209.6	251.415	9.2	93.5	485.	794.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	11	110.	116.818	260.	35.	4757.164	68.972	36.6	47.	140.	250.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	11	52.	47.727	74.	13.	437.818	20.924	14.6	23.	65.	72.4
00932	SODIUM, PERCENT	10/01/47-11/15/79	11	34.	38.727	72.	27.	157.618	12.555	27.4	30.	43.	66.8
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	11	25.	21.	32.	5.	87.4	9.349	5.8	11.	28.	32.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	11	620.	610.	1200.	150.	105900.	325.423	152.	350.	810.	1160.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-11/15/79	11	1120.	1096.182	2050.	305.	265692.164	515.453	312.8	689.	1390.	1966.
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	11	60.7	310.708	1960.	3.9	334690.094	578.524	4.158	22.9	301.	1693.6
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	11	1.52	1.492	2.79	0.41	0.493	0.702	0.422	0.94	1.89	2.676
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	7	20500.	23089.571	67600.	15.	541213167.952	23263.989	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	19	227.	253.316	634.	4.	33081.117	181.882	4.	132.	314.	600.
00065	STAGE, STREAM (FEET)	09/13/90-09/07/94	19	5.95	5.849	7.63	3.64	1.286	1.134	3.64	5.32	6.41	7.52
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	18	65.5	66.944	100.	26.	594.056	24.373	27.8	50.75	91.25	99.1
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	9	21.	22.556	42.	6.	184.278	13.575	6.	10.	37.5	42.
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	9	26.	28.222	53.	8.	323.194	17.978	8.	11.5	49.	53.
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/12/57-09/07/94	9	29.	33.556	66.	9.	538.028	23.195	9.	12.5	61.	66.
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	9	37.	41.889	82.	13.	751.111	27.406	13.	17.	73.5	82.
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	07/12/57-09/07/94	9	45.	51.667	93.	19.	831.	28.827	19.	27.	85.5	93.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	1	94.	94.	94.	94.	0.	0.	**	**	**	**
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	19	193000.	216581.737	688000.	813.43491454257.316		208546.048	5200.	53100.	286000.	654000.

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	1	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	28	25.5	72.857	232.	3.	6177.46	78.597	3.	6.25	137.	200.3
00065	STAGE, STREAM (FEET)	09/13/90-09/07/94	29	4.06	4.424	5.78	3.55	0.672	0.82	3.57	3.675	5.265	5.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	1	1150.	1150.	1150.	1150.	0.	0.	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	18	96.	94.222	100.	79.	40.418	6.358	85.3	89.	100.	100.
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	12	38.	35.917	62.	14.	209.174	14.463	14.6	23.75	47.5	58.4
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	12	46.	42.167	75.	15.	334.697	18.295	15.6	25.75	55.75	70.5
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/12/57-09/07/94	12	52.5	50.667	93.	21.	500.606	22.374	21.3	28.25	67.	87.3
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	12	67.5	63.083	99.	32.	453.174	21.288	32.	43.	79.75	94.5
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	07/12/57-09/07/94	12	81.5	74.167	100.	40.	365.606	19.121	42.1	56.75	87.75	97.6
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	11	89.	82.545	100.	52.	225.873	15.029	55.	71.	94.	99.4
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	11	98.	95.818	100.	88.	17.164	4.143	88.8	92.	99.	100.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	11	100.	99.727	100.	99.	0.218	0.467	99.	99.	100.	100.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	29	13800.	28462.828	81100.	7.	824031999.576	28705.958	74.	1687.	52900.	78900.

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Annual Analysis for 1992 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	8	25.	24.563	31.	15.	24.746	4.974	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	116	235.	358.871	1560.	4.	117340.531	342.55	78.7	134.5	458.	789.9
00065	STAGE, STREAM (FEET)	09/13/90-09/07/94	116	5.72	5.964	9.44	3.61	1.576	1.255	4.878	5.19	6.44	7.684
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	87	77.	72.828	100.	25.	413.261	20.329	42.2	59.	91.	97.
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	31	27.	38.032	331.	8.	3148.966	56.116	11.2	18.	39.	54.6
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	31	30.	33.774	65.	9.	256.114	16.004	12.2	23.	44.	62.8
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/12/57-09/07/94	31	33.	37.129	71.	10.	301.116	17.353	12.6	27.	51.	65.4
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	31	46.	45.935	80.	12.	404.862	20.121	16.6	33.	64.	77.2
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	07/12/57-09/07/94	31	56.	56.032	88.	15.	483.499	21.989	21.6	43.	75.	84.8
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	11	85.	82.273	94.	65.	124.218	11.145	65.	68.	91.	93.6
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	11	97.	96.909	100.	93.	4.891	2.212	93.	96.	98.	99.8
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	11	100.	100.	100.	100.	0.	0.	100.	100.	100.	100.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	116	90600.	137737.379	734000.	144.21827680516.933		147741.939	25680.	45825.	160000.	287024.

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

Annual Analysis for 1993 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	2	20.	20.	26.	14.	72.	8.485	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	151	246.	301.225	1220.	7.	41619.642	204.009	148.	170.	357.	538.
00065	STAGE, STREAM (FEET)	09/13/90-09/07/94	139	5.48	5.542	8.3	3.78	0.385	0.62	5.01	5.14	5.83	6.25
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	56	70.	68.911	93.	18.	231.246	15.207	49.7	63.25	80.	86.6
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	29	34.	34.345	59.	13.	166.377	12.899	15.	25.	45.	48.
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	29	37.	38.966	65.	14.	223.534	14.951	16.	27.	52.	59.
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/12/57-09/07/94	29	40.	42.931	76.	16.	273.567	16.54	18.	29.5	57.5	64.
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	29	47.	48.966	81.	18.	352.963	18.787	20.	33.5	65.	73.
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	07/12/57-09/07/94	29	52.	55.931	85.	22.	384.281	19.603	26.	38.5	74.5	79.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	14	81.	80.071	88.	64.	35.918	5.993	70.	76.75	85.	87.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	14	95.	95.286	98.	92.	3.297	1.816	92.5	94.	97.	98.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	14	100.	99.857	100.	99.	0.132	0.363	99.	100.	100.	100.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	151	49500.	91851.801	686000.	699.15	379128133.027	124012.613	21600.	33100.	97700.	225364.

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

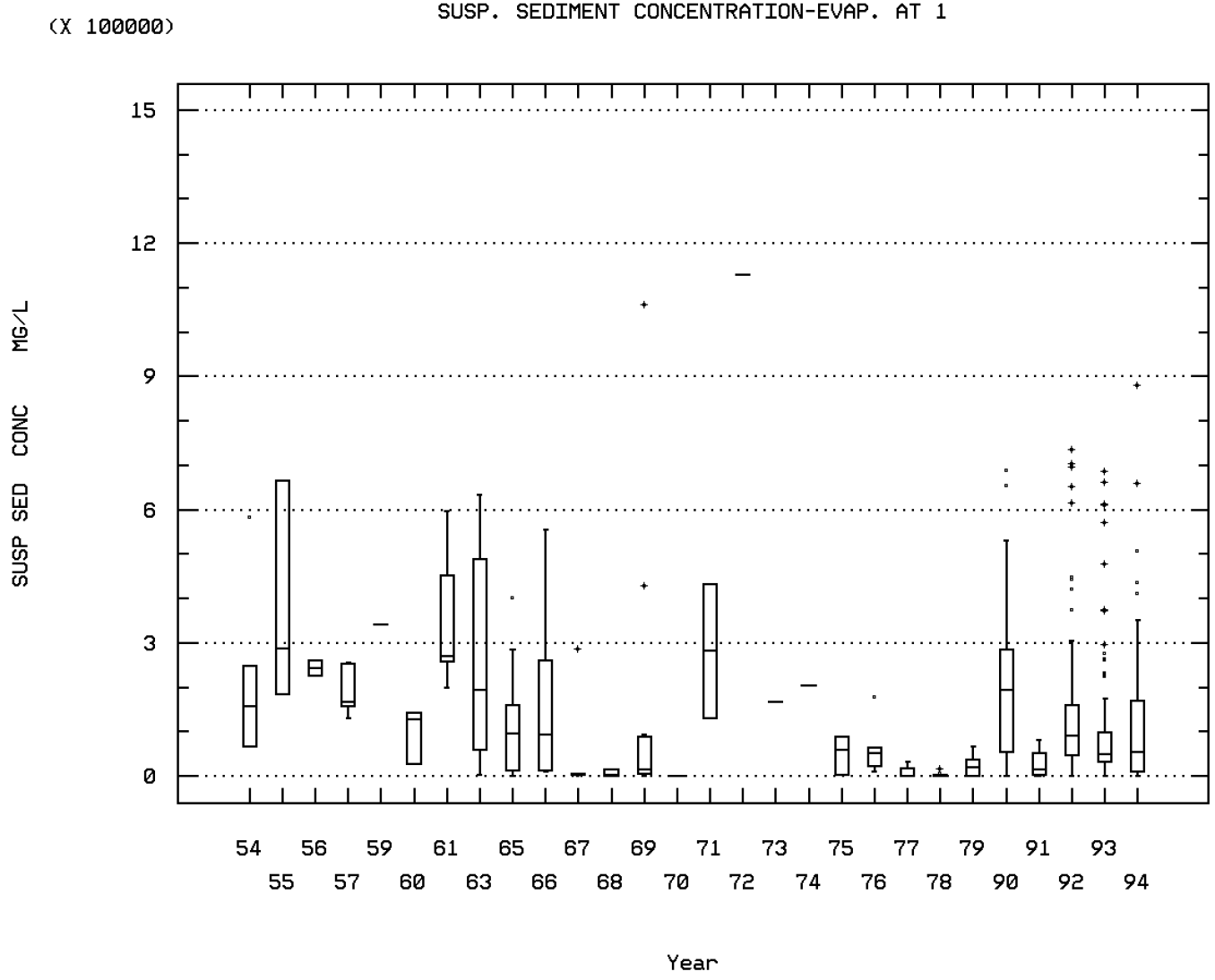
Annual Analysis for 1994 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	7	27.	23.929	32.	13.	59.369	7.705	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	49	146.	507.51	3330.	3.	705341.713	839.846	4.	14.	650.	2250.
00065	STAGE, STREAM (FEET)	09/13/90-09/07/94	5	5.44	6.56	10.79	4.61	6.293	2.509	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	26	91.	80.154	100.	18.	516.135	22.719	44.1	64.25	97.5	100.
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	5	24.	29.	58.	13.	313.	17.692	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	5	32.	38.4	74.	17.	504.3	22.457	**	**	**	**
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/12/57-09/07/94	5	41.	48.	86.	22.	636.5	25.229	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	5	49.	56.8	94.	27.	711.2	26.668	**	**	**	**
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	07/12/57-09/07/94	5	59.	65.4	97.	33.	673.3	25.948	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	49	53089.	133335.673	879860.	6.35	190106249.433	187590.262	523.	6113.	183455.	410000.

** - Less than 9 observations ## - Computed 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: GRCA0012 Parameter Code: 80154

SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1



PARIA RIVER AT LEES FERRY, ARIZ.

Seasonal Analysis for Season #1: 10/01 to 3/14 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	39	8.	8.923	25.	0.	30.467	5.52	3.	5.	12.8	17.
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	39	31.	174.359	1670.	2.	151276.71	388.943	10.	14.	65.	848.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	203	185.	264.921	2290.	4.	89326.023	298.875	16.8	107.	324.	558.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	52	1345.	1280.596	2530.	435.	151061.187	388.666	728.4	1042.5	1477.5	1673.
00300	OXYGEN, DISSOLVED MG/L	07/30/69-11/15/79	14	11.3	10.436	12.4	7.3	2.936	1.714	7.55	8.5	11.55	12.05
00400	PH (STANDARD UNITS)	10/21/69-11/15/79	21	8.2	8.057	8.7	7.	0.171	0.413	7.42	7.8	8.35	8.56
00400	CONVERTED PH (STANDARD UNITS)	10/21/69-11/15/79	21	8.2	7.827	8.7	7.	0.226	0.475	7.42	7.8	8.35	8.56
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/21/69-11/15/79	21	0.006	0.015	0.1	0.002	0.	0.022	0.003	0.004	0.016	0.038
00405	CARBON DIOXIDE (MG/L AS CO2)	10/21/69-12/14/78	11	1.7	2.691	12.	0.4	10.827	3.29	0.44	1.1	3.4	10.44
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/21/69-11/15/79	19	137.	136.	170.	90.	402.667	20.067	120.	120.	150.	170.
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/47-12/14/78	47	186.	191.383	317.	110.	1518.154	38.964	149.4	167.	212.	246.8
00445	CARBONATE ION (MG/L AS CO3)	10/21/69-12/14/78	15	0.	0.067	1.	0.	0.067	0.258	0.	0.	0.	0.4
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	51	496.	486.627	1100.	140.	33884.798	184.078	222.	390.	558.	653.2
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	51	349.	330.804	950.	0.	29020.881	170.355	93.2	250.	380.	507.2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	51	110.	113.176	330.	32.	2978.508	54.576	52.4	85.	128.	150.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	51	55.	49.627	86.	13.	280.918	16.761	22.2	36.	63.	65.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/21/69-11/15/79	18	88.5	95.167	220.	26.	3353.324	57.908	26.9	50.	130.	184.
00931	SODIUM ADSORPTION RATIO	10/21/69-11/15/79	18	1.9	2.156	6.6	0.8	2.027	1.424	0.89	0.975	2.75	4.17
00932	SODIUM, PERCENT	10/01/47-11/15/79	50	31.	32.4	72.	17.	72.122	8.492	24.	28.75	34.	44.8
00933	SODIUM,PLUS POTASSIUM (MG/L)	10/01/47-11/15/79	34	113.5	112.118	184.	32.	1020.652	31.948	61.5	99.75	131.25	150.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/21/69-11/15/79	19	4.7	5.279	14.	2.8	6.505	2.551	2.8	3.5	5.8	7.5
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	51	20.	20.098	32.	9.	33.49	5.787	11.2	16.	23.	28.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	51	549.	514.725	1400.	120.	52170.483	228.409	186.8	390.	611.	716.2
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/01/49-11/15/79	18	0.25	0.322	0.8	0.1	0.03	0.173	0.19	0.2	0.425	0.53
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/71-11/15/79	16	10.	10.181	15.	6.6	3.582	1.893	7.58	8.85	11.	12.9
01020	BORON, DISSOLVED (UG/L AS B)	05/15/49-11/15/79	16	120.	131.25	230.	50.	3038.333	55.121	64.	75.	170.	216.
01046	IRON, DISSOLVED (UG/L AS FE)	01/11/71-11/15/79	16	12.5	19.063	110.	0.	684.063	26.155	3.5	5.	20.	54.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-11/15/79	50	946.5	927.52	2120.	266.	107116.173	327.286	460.5	773.75	1072.5	1197.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/71-11/15/79	16	704.	743.375	2150.	274.	211409.983	459.793	313.2	359.5	967.25	1387.
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	50	46.5	83.024	798.	3.59	17252.039	131.347	10.92	26.5	75.975	230.3
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	51	1.29	1.246	2.88	0.36	0.207	0.455	0.554	1.01	1.46	1.622
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	79	76.	73.924	100.	18.	316.917	17.802	50.	63.	87.	93.
70332p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	07/25/54-08/30/92	16	96.	93.188	100.	72.	54.296	7.369	81.1	88.25	98.	99.3
70333p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	07/25/54-08/30/92	15	100.	99.533	100.	95.	1.695	1.302	97.4	100.	100.	100.
70334p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/08/54-08/30/92	9	100.	100.	100.	100.	0.	0.	100.	100.	100.	100.
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	08/04/61-08/30/92	8	100.	100.	100.	100.	0.	0.	**	**	**	**
70337p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	68	38.	41.735	331.	6.	1548.198	39.347	14.9	26.	50.	60.2
70338p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	72	44.5	43.528	93.	8.	421.295	20.525	17.	27.	58.75	70.6
70339p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/12/57-09/07/94	48	43.	43.604	93.	9.	391.606	19.789	15.9	27.5	59.	68.
70340p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	72	61.	57.514	100.	12.	589.972	24.289	25.3	35.	77.5	89.1
70341p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	07/12/57-09/07/94	48	61.5	60.333	100.	15.	504.95	22.471	27.8	40.75	79.	86.1
70342p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	43	85.	80.465	100.	41.	238.779	15.452	54.4	71.	93.	96.6
70343p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	41	96.	94.098	100.	69.	42.34	6.507	85.	92.	99.	100.
70344p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	39	100.	99.436	100.	94.	1.305	1.142	98.	99.	100.	100.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	198	46800.	79589.551	659570.	29.10531045659.284		102620.883	4463.	21875.	91725.	188806.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/13/59-09/17/79	33	746.	97145.769	1050000.	0.3970435845803.225		265397.524	4.36	102.5	8490.	469600.

** - Less than 9 observations ## - Computed 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: 3/15 to 6/19 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	34	17.25	17.712	31.	6.1	44.072	6.639	8.4	12.	22.625	27.
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	24	13.	23.375	70.	2.	443.462	21.059	4.	5.	42.25	58.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	95	186.	208.937	1465.	3.	46525.741	215.698	5.	25.	297.	463.6
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	24	1120.	1087.792	2230.	550.	183616.259	428.505	576.	632.5	1415.	1470.
00300	OXYGEN, DISSOLVED MG/L	07/30/69-11/15/79	8	8.65	9.188	11.5	7.6	2.516	1.586	**	**	**	**

** - Less than 9 observations ## - Computed 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: 3/15 to 6/19 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	10/21/69-11/15/79	9	8.3	8.156	8.6	7.	0.233	0.482	7.	8.	8.45	8.6
00400	CONVERTED PH (STANDARD UNITS)	10/21/69-11/15/79	9	8.3	7.791	8.6	7.	0.382	0.618	7.	8.	8.45	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/21/69-11/15/79	9	0.005	0.016	0.1	0.003	0.001	0.032	0.003	0.004	0.01	0.1
00405	CARBON DIOXIDE (MG/L AS CO2)	10/21/69-12/14/78	4	0.95	0.95	1.3	0.6	0.083	0.289	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/21/69-11/15/79	6	130.5	126.5	140.	98.	250.3	15.821	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/47-12/14/78	17	168.	167.176	221.	120.	794.154	28.181	132.8	143.5	188.	213.
00445	CARBONATE ION (MG/L AS CO3)	10/21/69-12/14/78	4	1.5	1.75	4.	0.	4.25	2.062	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	20	453.	442.2	950.	210.	32647.326	180.686	211.4	259.	524.75	670.5
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	19	290.	299.211	810.	91.	29336.62	171.279	93.	136.	370.	512.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	20	95.	100.	260.	45.	2563.684	50.633	47.3	54.5	121.5	159.1
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	20	51.	46.75	74.	23.	228.303	15.11	23.	30.75	55.5	68.2
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/21/69-11/15/79	7	99.	97.286	220.	34.	5147.905	71.749	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/21/69-11/15/79	7	1.9	1.886	3.1	1.	0.891	0.944	**	**	**	**
00932	SODIUM, PERCENT	10/01/47-11/15/79	20	33.	30.9	40.	16.	46.516	6.82	19.5	26.	36.5	39.8
00933	SODIUM,PLUS POTASSIUM (MG/L)	10/01/47-11/15/79	14	105.5	99.214	157.	27.	1754.951	41.892	31.	57.	130.5	150.5
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/21/69-11/15/79	7	5.2	6.471	16.	2.8	20.146	4.488	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	20	20.5	19.2	32.	5.	38.379	6.195	11.2	14.25	23.75	25.9
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	20	505.5	476.2	1200.	140.	68290.484	261.324	142.8	190.25	618.75	707.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/01/49-11/15/79	7	0.3	0.357	0.5	0.2	0.02	0.14	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/71-11/15/79	6	9.15	9.017	11.	6.7	3.414	1.848	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/15/49-11/15/79	9	130.	155.556	300.	80.	7152.778	84.574	80.	90.	225.	300.
01046	IRON, DISSOLVED (UG/L AS FE)	01/11/71-11/15/79	6	40.	36.667	70.	5.	776.667	27.869	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-11/15/79	20	877.5	844.85	2050.	334.	166082.239	407.532	358.	415.75	1055.	1156.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/71-11/15/79	6	908.	921.5	1900.	344.	336715.9	580.272	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	20	30.95	149.096	1960.	3.6	186721.857	432.113	3.727	5.798	87.25	285.2
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	20	1.19	1.149	2.79	0.45	0.307	0.554	0.491	0.568	1.433	1.574
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	53	84.	79.189	100.	18.	296.425	17.217	55.8	68.	93.	98.
70332p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	07/25/54-08/30/92	7	98.	97.429	100.	93.	5.286	2.299	**	**	**	**
70333p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	07/25/54-08/30/92	6	100.	99.333	100.	97.	1.467	1.211	**	**	**	**
70334p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/08/54-08/30/92	2	100.	100.	100.	100.	0.	0.	**	**	**	**
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	08/04/61-08/30/92	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70337p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	24	48.	44.5	76.	15.	317.652	17.823	17.	27.25	57.5	67.
70338p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	24	64.	56.917	94.	16.	530.688	23.037	18.	35.5	72.75	85.
70339p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/12/57-09/07/94	12	50.5	48.667	81.	17.	559.515	23.654	17.3	24.5	71.5	81.
70340p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	24	84.	72.75	100.	20.	692.891	26.323	22.5	58.25	93.	98.5
70341p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	07/12/57-09/07/94	12	66.	60.	90.	24.	632.545	25.15	24.6	33.75	85.25	89.4
70342p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	14	90.	89.357	100.	76.	62.247	7.89	76.5	82.5	96.25	99.5
70343p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	12	98.	96.917	100.	91.	8.447	2.906	91.6	95.	99.	100.
70344p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	11	100.	99.818	100.	98.	0.364	0.603	98.4	100.	100.	100.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	100	37100.	64670.51	650000.		9.10695796422.899	103420.484	545.4	7615.	74200.	110746.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/13/59-09/17/79	19	620.	2373.606	16700.	0.11	18190593.793	4265.043	0.41	53.	2860.	9360.

** - Less than 9 observations ## - Computed 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: 6/20 to 9/30 - Station GRCA0012

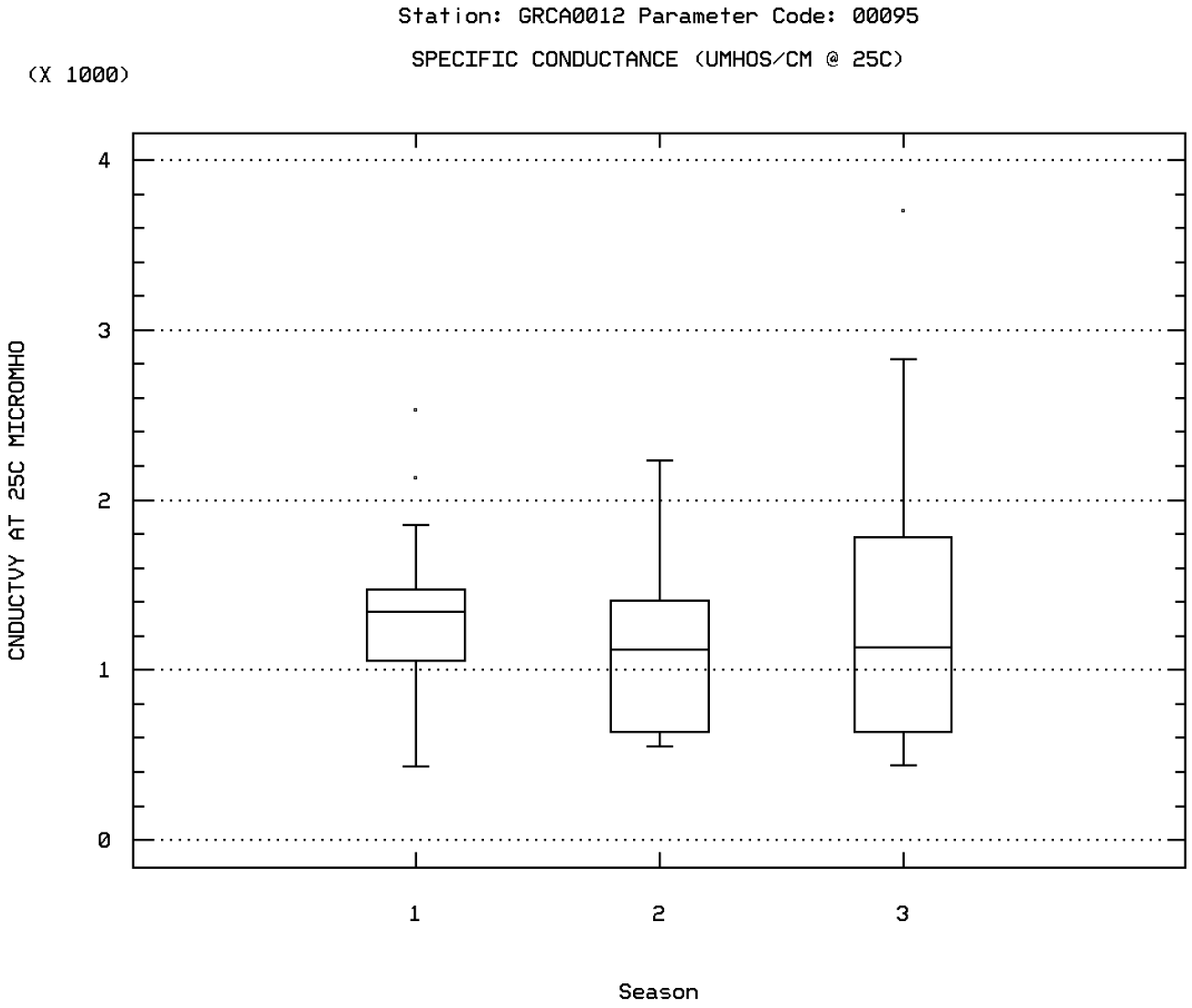
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/54-08/22/94	80	23.4	24.25	34.	12.2	15.318	3.914	20.	21.7	27.	30.44
00060	FLOW, STREAM, MEAN DAILY CFS	10/01/48-09/15/75	61	64.	368.689	6270.	1.	838165.418	915.514	4.2	12.	304.	910.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/01/47-10/04/94	157	218.	441.178	6270.	3.	574525.891	757.975	5.	29.5	458.	1142.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/47-03/29/91	27	1135.	1294.259	3700.	440.	603871.661	777.092	504.	636.	1780.	2166.
00300	OXYGEN, DISSOLVED MG/L	07/30/69-11/15/79	11	7.1	7.164	9.4	5.8	1.203	1.097	5.88	6.2	8.	9.14
00400	PH (STANDARD UNITS)	10/21/69-11/15/79	12	8.05	7.95	8.7	6.8	0.321	0.566	6.86	7.675	8.375	8.61
00400	CONVERTED PH (STANDARD UNITS)	10/21/69-11/15/79	12	8.047	7.541	8.7	6.8	0.504	0.71	6.86	7.675	8.375	8.61
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/21/69-11/15/79	12	0.009	0.029	0.158	0.002	0.002	0.049	0.003	0.004	0.022	0.141
00405	CARBON DIOXIDE (MG/L AS CO2)	10/21/69-12/14/78	4	1.3	1.5	3.	0.4	1.24	1.114	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/21/69-11/15/79	9	131.	144.889	204.	100.	1195.361	34.574	100.	120.	174.5	204.

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Seasonal Analysis for Season #3: 6/20 to 9/30 - Station GRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00440	BICARBONATE ION (MG/L AS HCO3)	10/01/47-12/14/78	18	160.	187.444	405.	117.	5088.497	71.334	128.7	142.5	228.	302.4
00445	CARBONATE ION (MG/L AS CO3)	10/21/69-12/14/78	6	0.	0.5	3.	0.	1.5	1.225	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/47-11/15/79	22	466.	541.727	1600.	190.	140642.97	375.024	190.	248.5	707.	1200.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/47-11/15/79	22	336.	396.136	1400.	64.	112114.504	334.835	84.5	134.75	561.5	913.4
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/47-11/15/79	22	98.5	137.591	460.	38.	12379.206	111.262	42.3	56.75	177.75	338.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/47-11/15/79	22	41.5	48.318	110.	20.	679.846	26.074	21.6	26.75	66.25	91.6
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/21/69-11/15/79	10	98.	120.6	370.	29.	11048.711	105.113	29.5	36.25	172.5	351.
00931	SODIUM ADSORPTION RATIO	10/21/69-11/15/79	10	1.65	2.04	4.	0.9	1.169	1.081	0.91	1.075	2.95	3.91
00932	SODIUM, PERCENT	10/01/47-11/15/79	22	28.5	28.136	39.	19.	25.838	5.083	22.3	24.	30.25	37.2
00933	SODIUM,PLUS POTASSIUM (MG/L)	10/01/47-11/15/79	16	90.	99.313	241.	34.	4146.896	64.396	34.	44.25	154.5	205.3
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/21/69-11/15/79	10	8.45	8.52	20.	3.5	25.748	5.074	3.52	3.85	10.5	19.2
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/47-11/15/79	22	17.5	19.227	50.	9.	84.66	9.201	11.3	12.	24.25	30.2
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/47-11/15/79	22	466.5	581.5	2200.	120.	255713.024	505.681	148.6	183.25	831.25	1294.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/01/49-11/15/79	16	0.4	0.425	0.8	0.1	0.046	0.214	0.17	0.2	0.6	0.73
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/11/71-11/15/79	9	9.9	9.722	16.	0.5	17.379	4.169	0.5	8.7	12.	16.
01020	BORON, DISSOLVED (UG/L AS B)	05/15/49-11/15/79	14	205.	225.	620.	70.	26442.308	162.611	70.	92.5	325.	510.
01046	IRON, DISSOLVED (UG/L AS FE)	01/11/71-11/15/79	9 ##	5.	15.	30.	5.	150.	12.247	5.	5.	30.	30.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/47-11/15/79	21	802.	906.571	2360.	317.	316598.457	562.671	338.4	383.	1315.	1602.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/11/71-11/15/79	9	1110.	1179.333	3350.	317.	915454.5	956.794	317.	340.	1545.	3350.
70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/47-11/15/79	22	14.5	111.532	1400.	3.	100514.879	317.041	3.369	4.05	32.175	485.5
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/47-11/15/79	22	1.25	1.385	4.56	0.43	1.061	1.03	0.463	0.538	1.918	2.913
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	07/21/54-10/04/94	109	81.	74.596	100.	25.	569.91	23.873	36.	55.	96.	100.
70332p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	07/25/54-08/30/92	32	88.5	82.438	100.	48.	281.802	16.787	50.5	67.25	96.	98.7
70333p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	07/25/54-08/30/92	30	98.5	95.967	100.	80.	33.275	5.768	84.5	93.75	100.	100.
70334p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/08/54-08/30/92	23	100.	99.	100.	84.	11.091	3.33	98.	99.	100.	100.
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	08/04/61-08/30/92	18	100.	99.111	100.	84.	14.222	3.771	98.4	100.	100.	100.
70337p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	07/12/57-09/07/94	78	28.	33.282	84.	4.	397.608	19.94	10.9	18.	43.5	67.2
70338p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	07/21/54-09/07/94	92	37.5	42.217	94.	5.	555.161	23.562	14.3	26.	56.	83.2
70339p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	07/12/57-09/07/94	34	33.	38.324	86.	10.	372.407	19.298	13.5	25.75	52.75	65.5
70340p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	07/21/54-09/07/94	92	57.5	58.413	100.	8.	762.179	27.608	19.3	37.	81.75	96.4
70341p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	07/12/57-09/07/94	34	55.	58.294	99.	17.	586.335	24.214	22.5	40.75	81.75	90.
70342p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	09/28/54-03/25/93	59	89.	76.475	100.	13.	667.771	25.841	27.	59.	96.	100.
70343p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	09/28/54-03/25/93	52	97.5	88.212	100.	30.	337.739	18.378	52.5	83.25	99.	100.
70344p	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	09/28/54-03/25/93	43	100.	96.093	100.	66.	75.039	8.662	79.4	98.	100.	100.
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	07/21/54-10/04/94	192	130705.	189548.224	1130000.	6.42	433620972.604	205994.226	4933.	49775.	250500.	497692.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	08/13/59-09/17/79	54	25400.	483621.777	7640000.	0.17	**********	1271422.874	7.55	912.5	193750.	1680000.

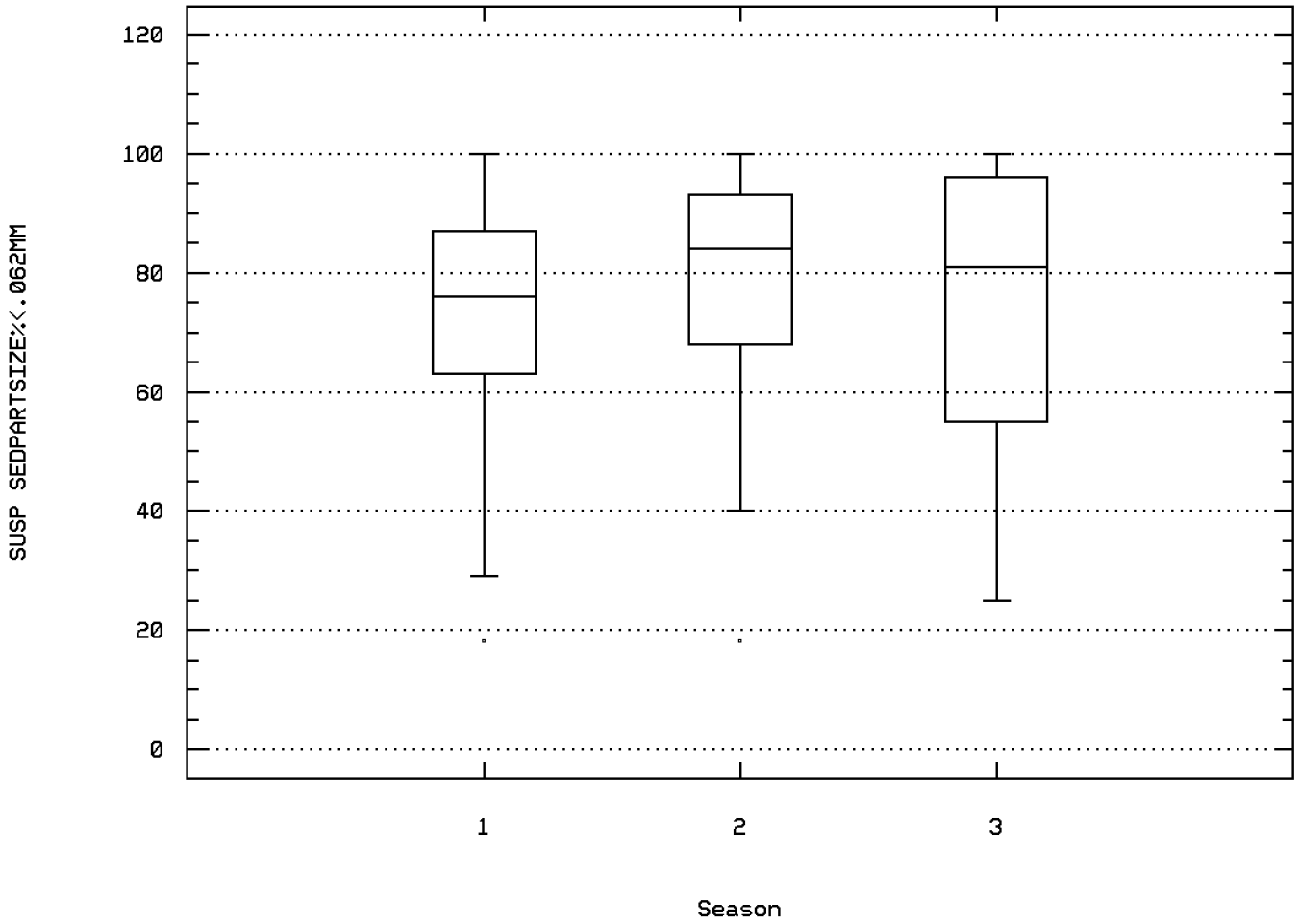
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



PARIA RIVER AT LEES FERRY, ARIZ.

Station: GRCA0012 Parameter Code: 70331

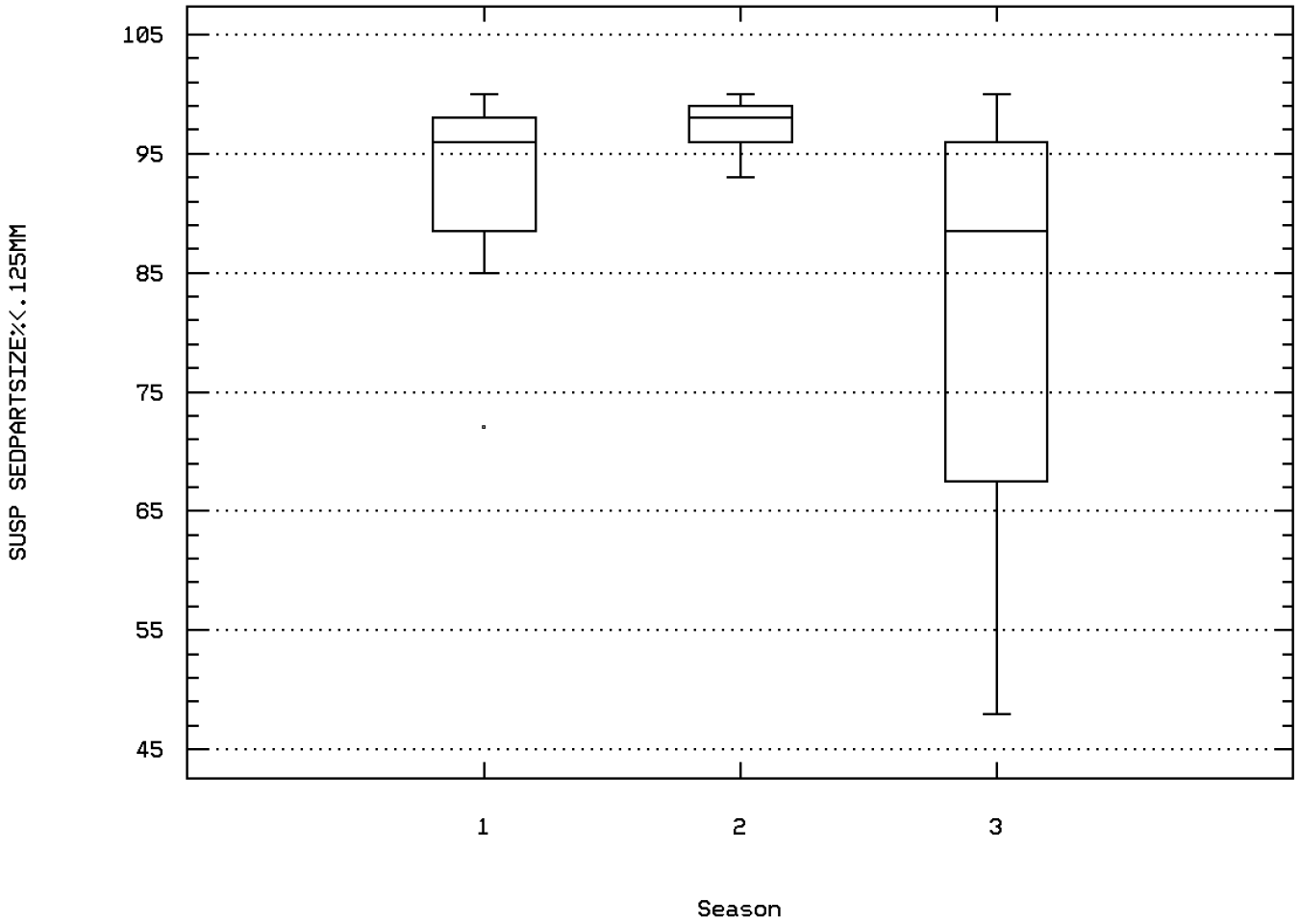
SUSPENDED SED SIEVE DIAMETER,% FINER TH



PARIA RIVER AT LEES FERRY, ARIZ.

Station: GRCA0012 Parameter Code: 70332

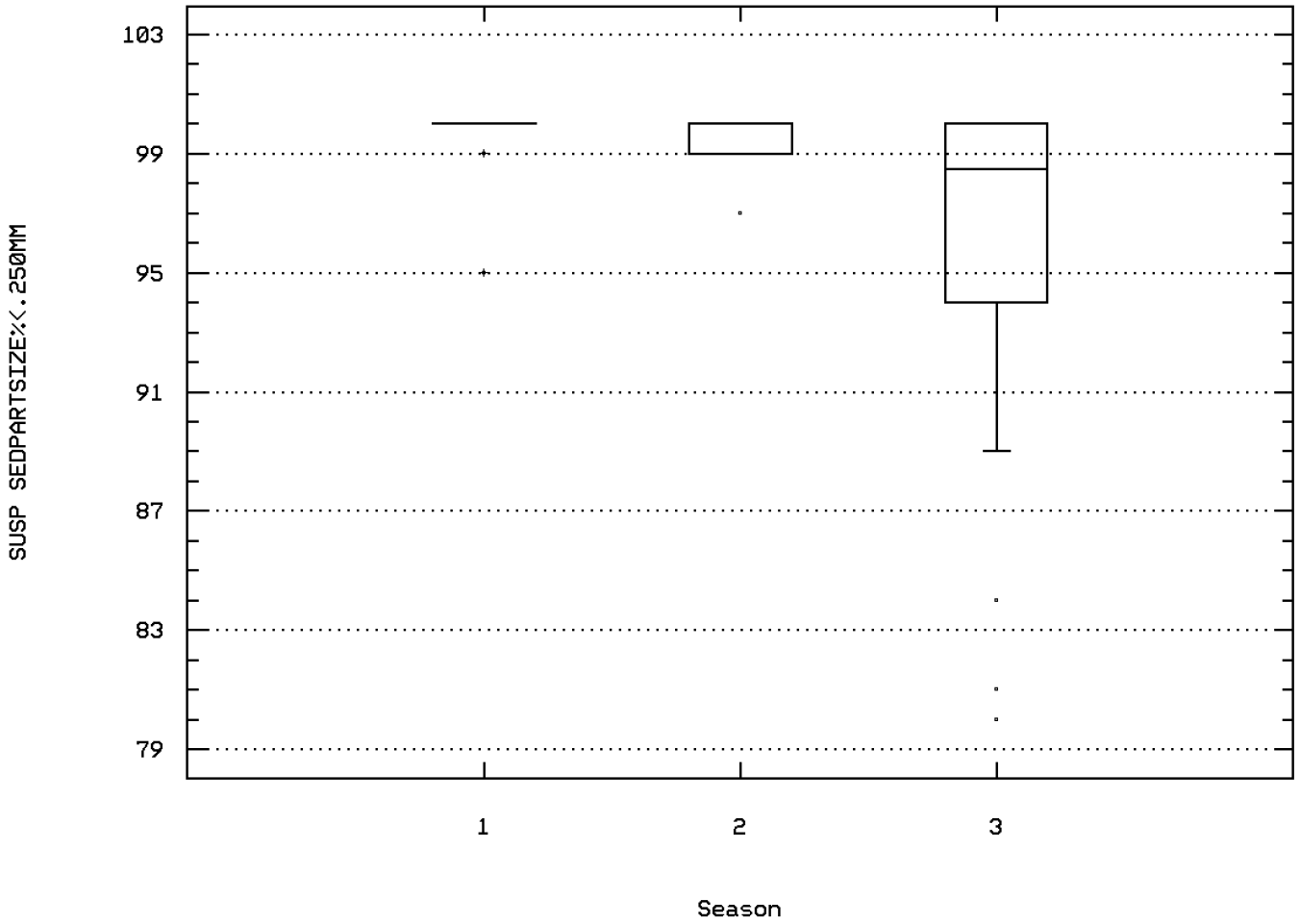
SUSPENDED SED SIEVE DIAMETER,% FINER TH



PARIA RIVER AT LEES FERRY, ARIZ.

Station: GRCA0012 Parameter Code: 70333

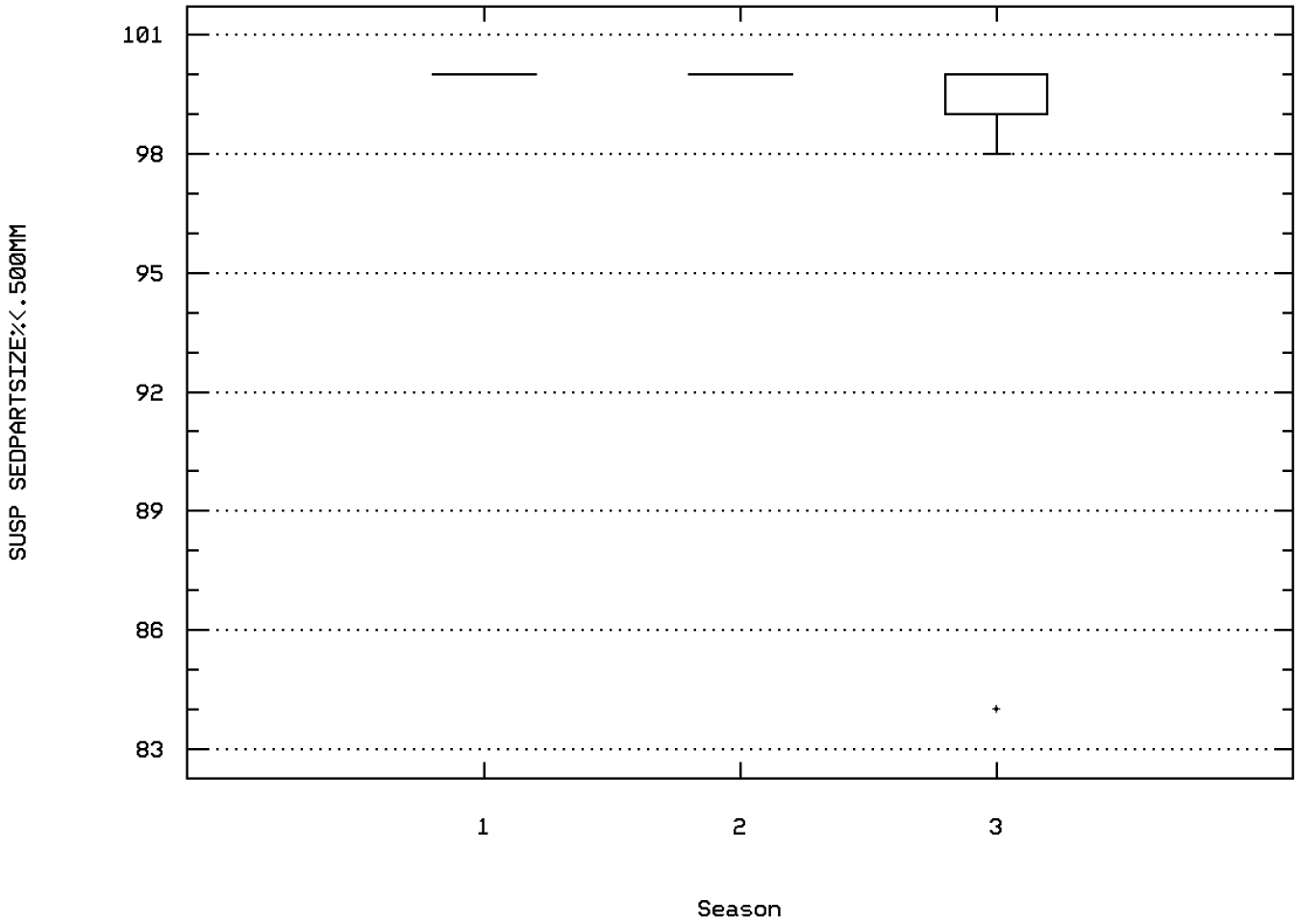
SUSPENDED SED SIEVE DIAMETER,% FINER TH



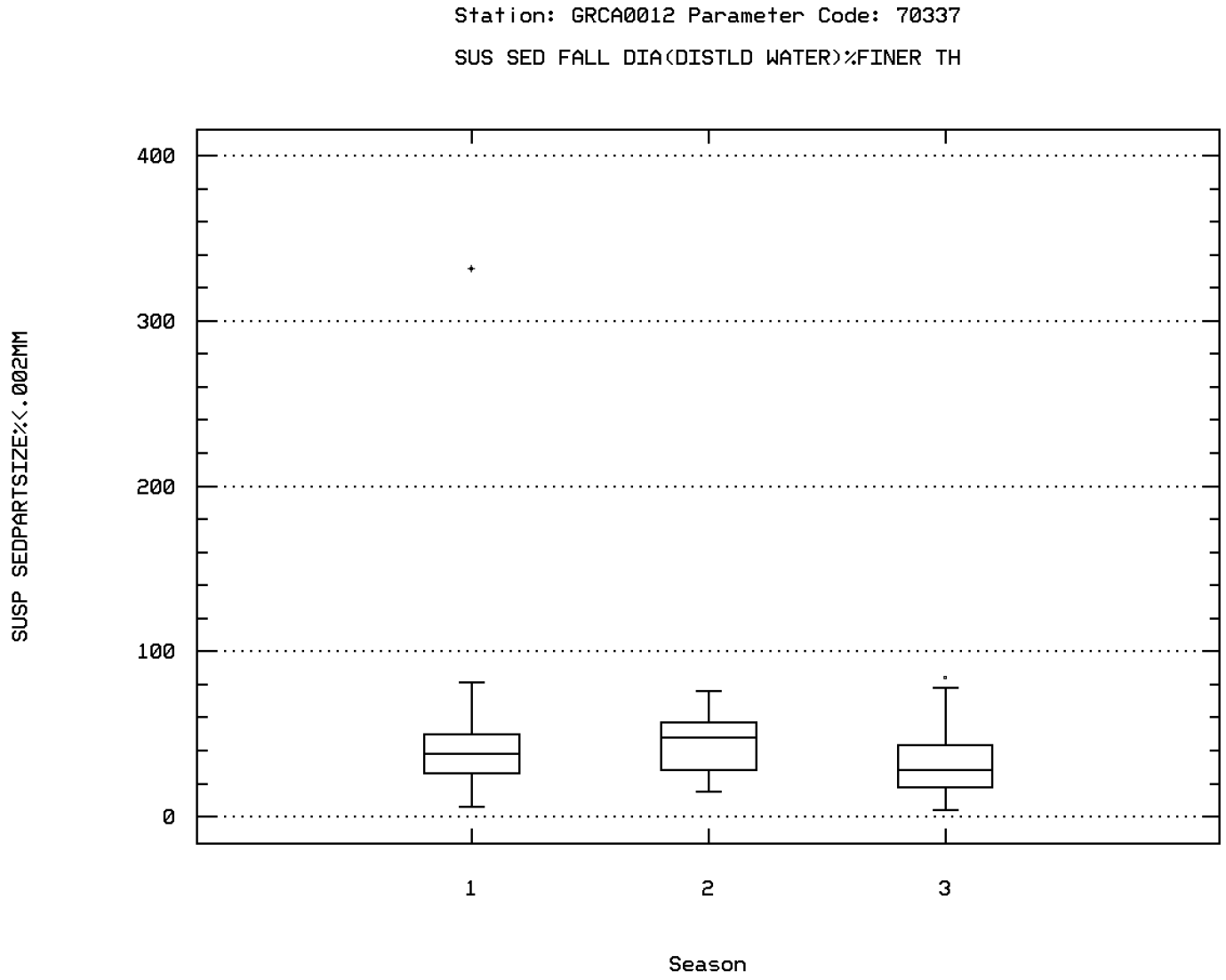
PARIA RIVER AT LEES FERRY, ARIZ.

Station: GRCA0012 Parameter Code: 70334

SUSPENDED SED SIEVE DIAMETER,% FINER TH



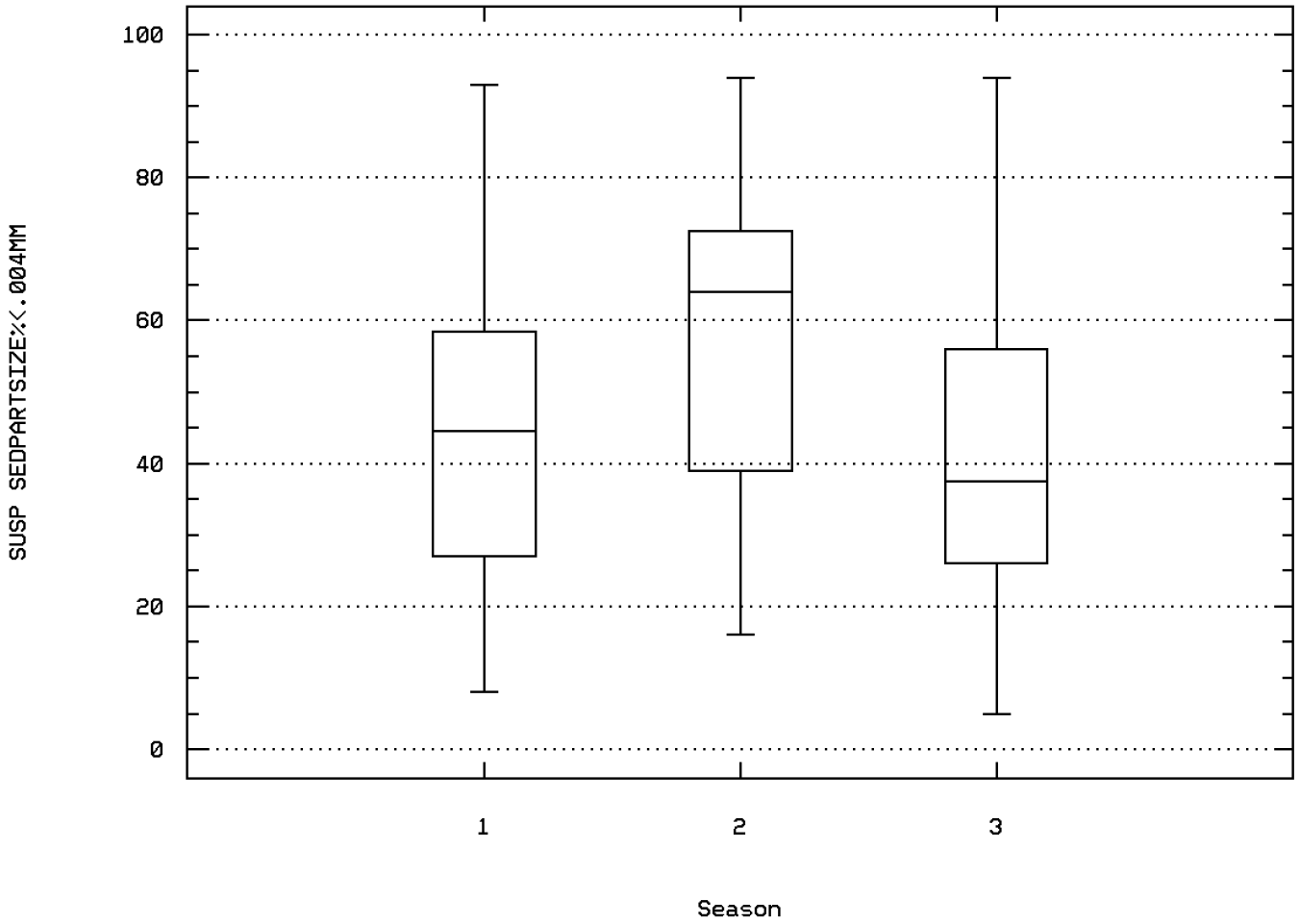
PARIA RIVER AT LEES FERRY, ARIZ.



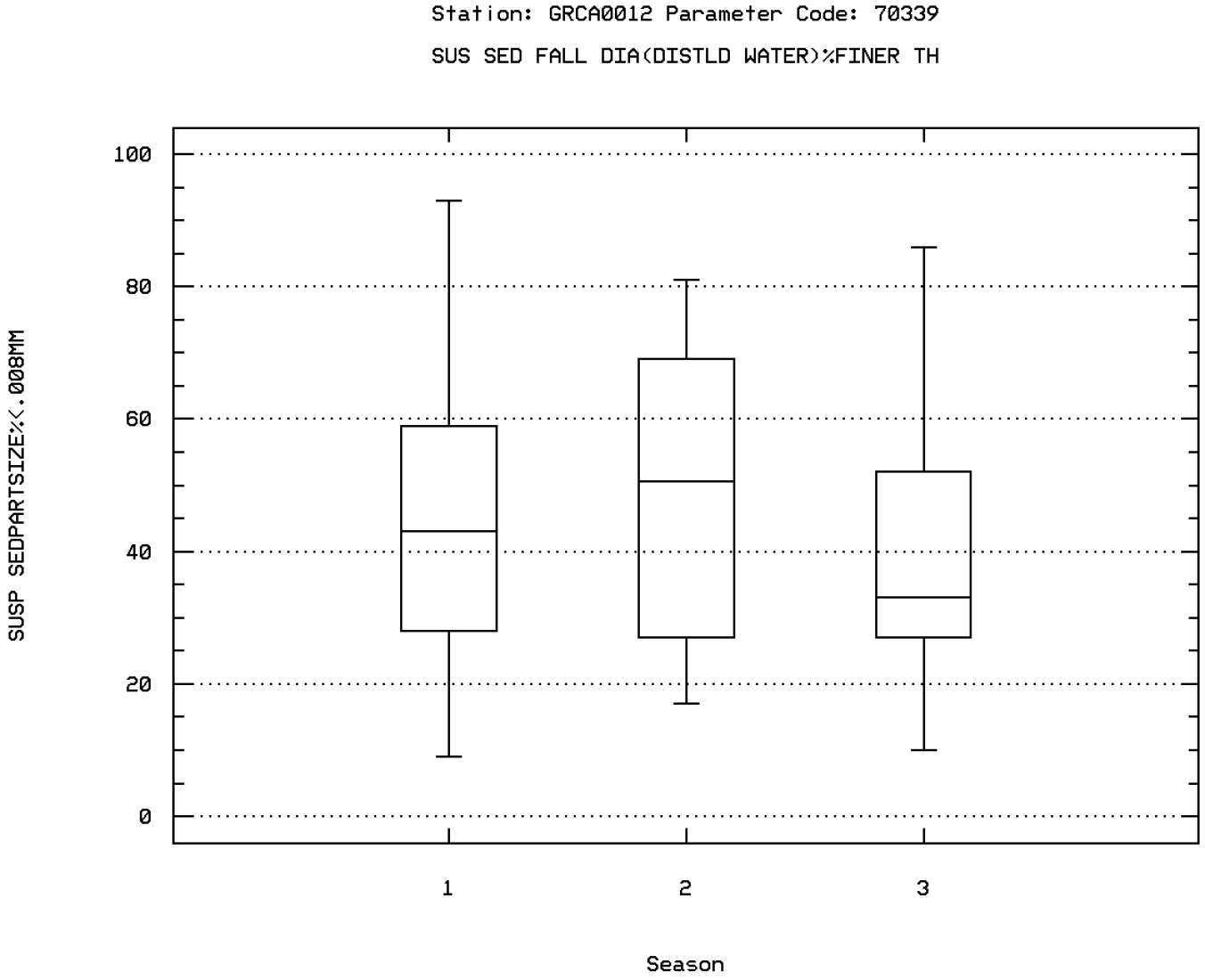
PARIA RIVER AT LEES FERRY, ARIZ.

Station: GRCA0012 Parameter Code: 70338

SUS SED FALL DIA(DISTLD WATER)%FINER TH



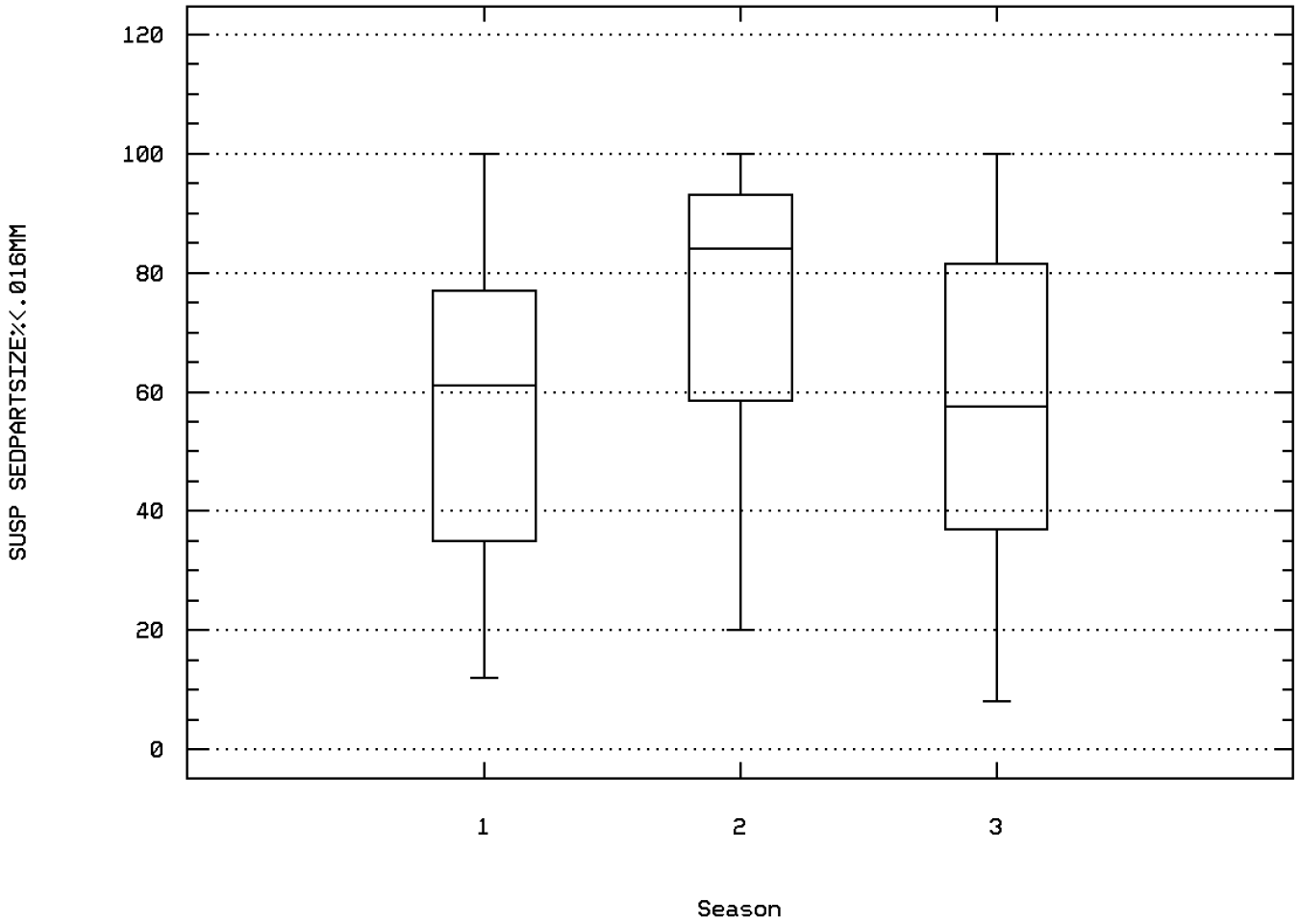
PARIA RIVER AT LEES FERRY, ARIZ.



PARIA RIVER AT LEES FERRY, ARIZ.

Station: GRCA0012 Parameter Code: 70340

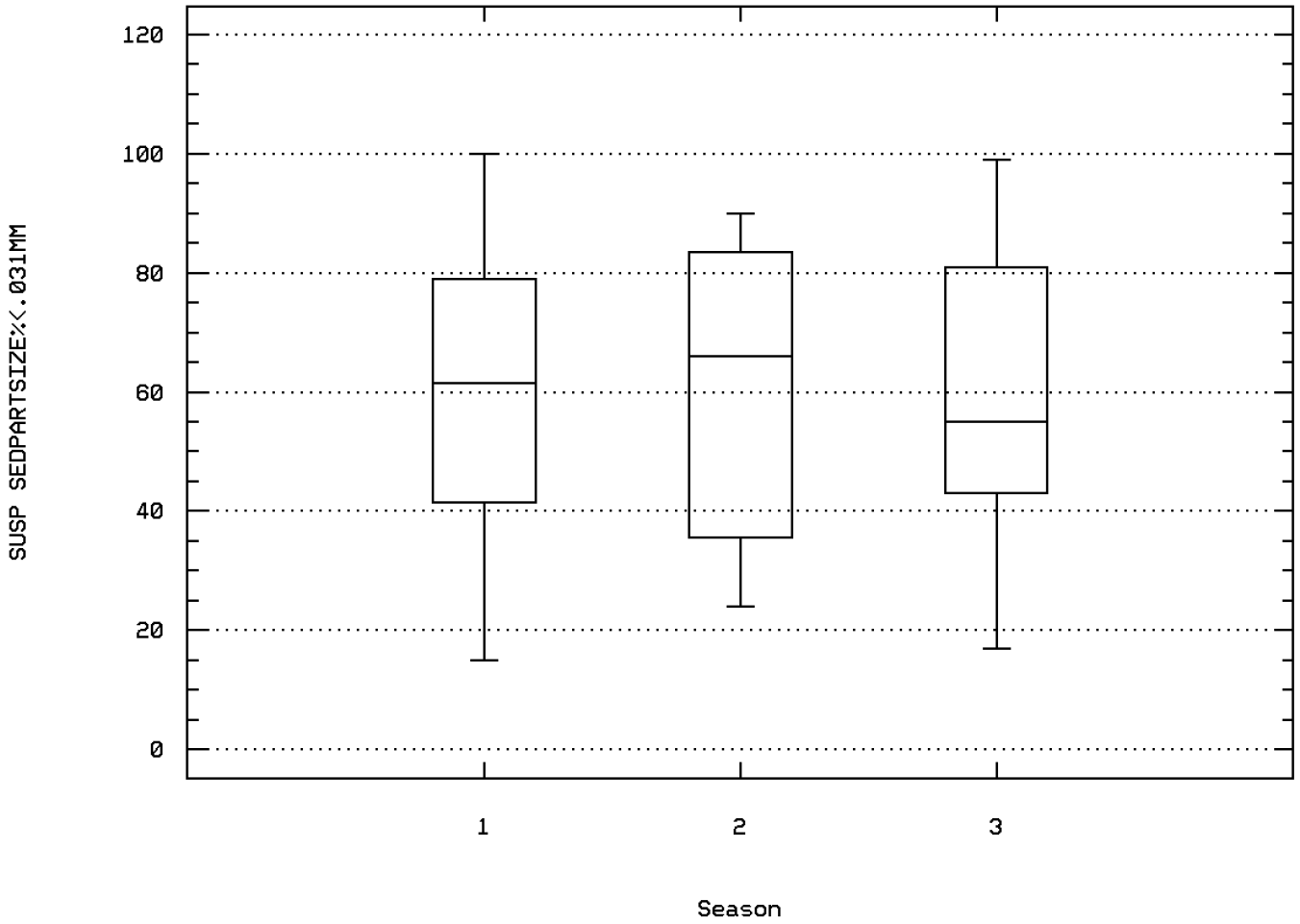
SUS SED FALL DIA(DISTLD WATER)%FINER TH



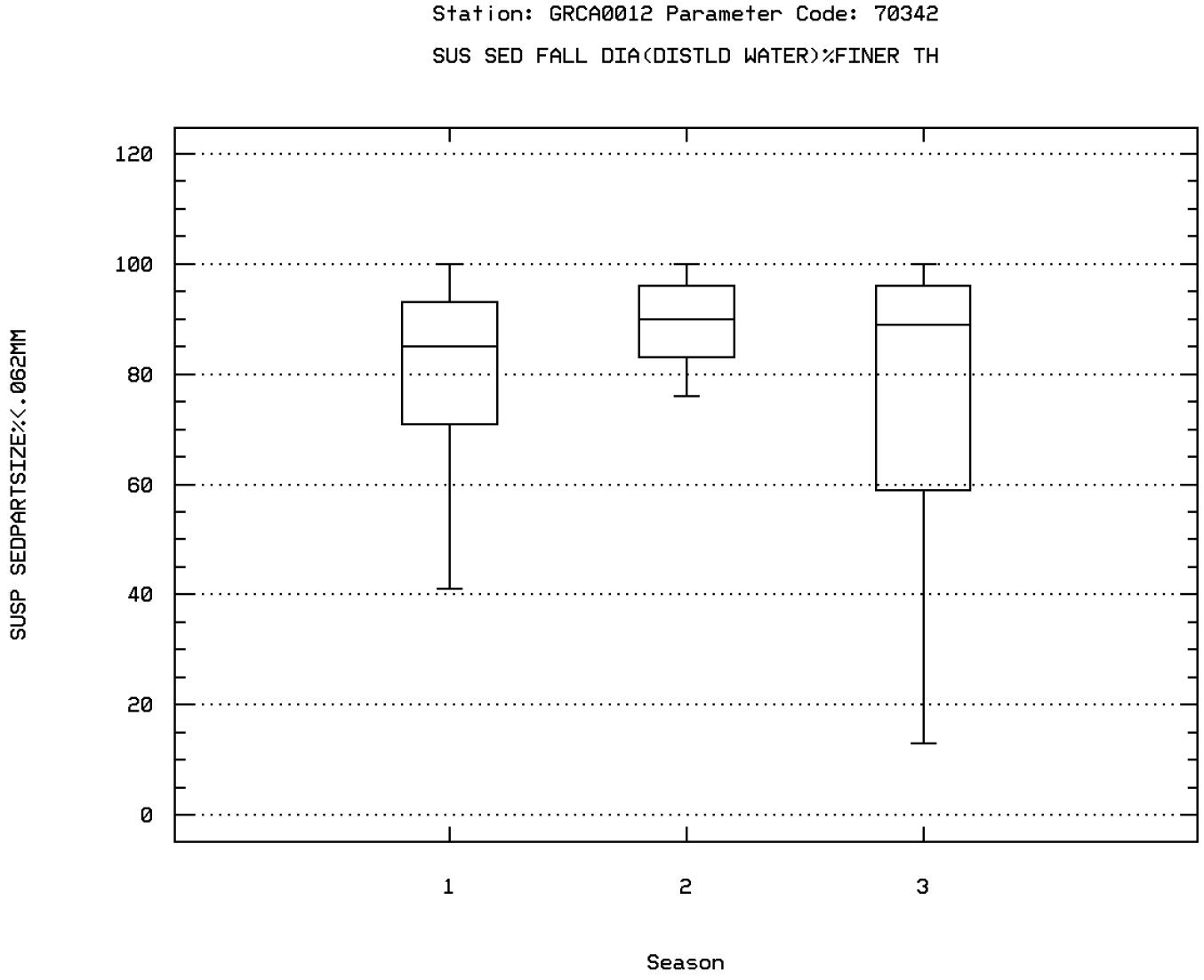
PARIA RIVER AT LEES FERRY, ARIZ.

Station: GRCA0012 Parameter Code: 70341

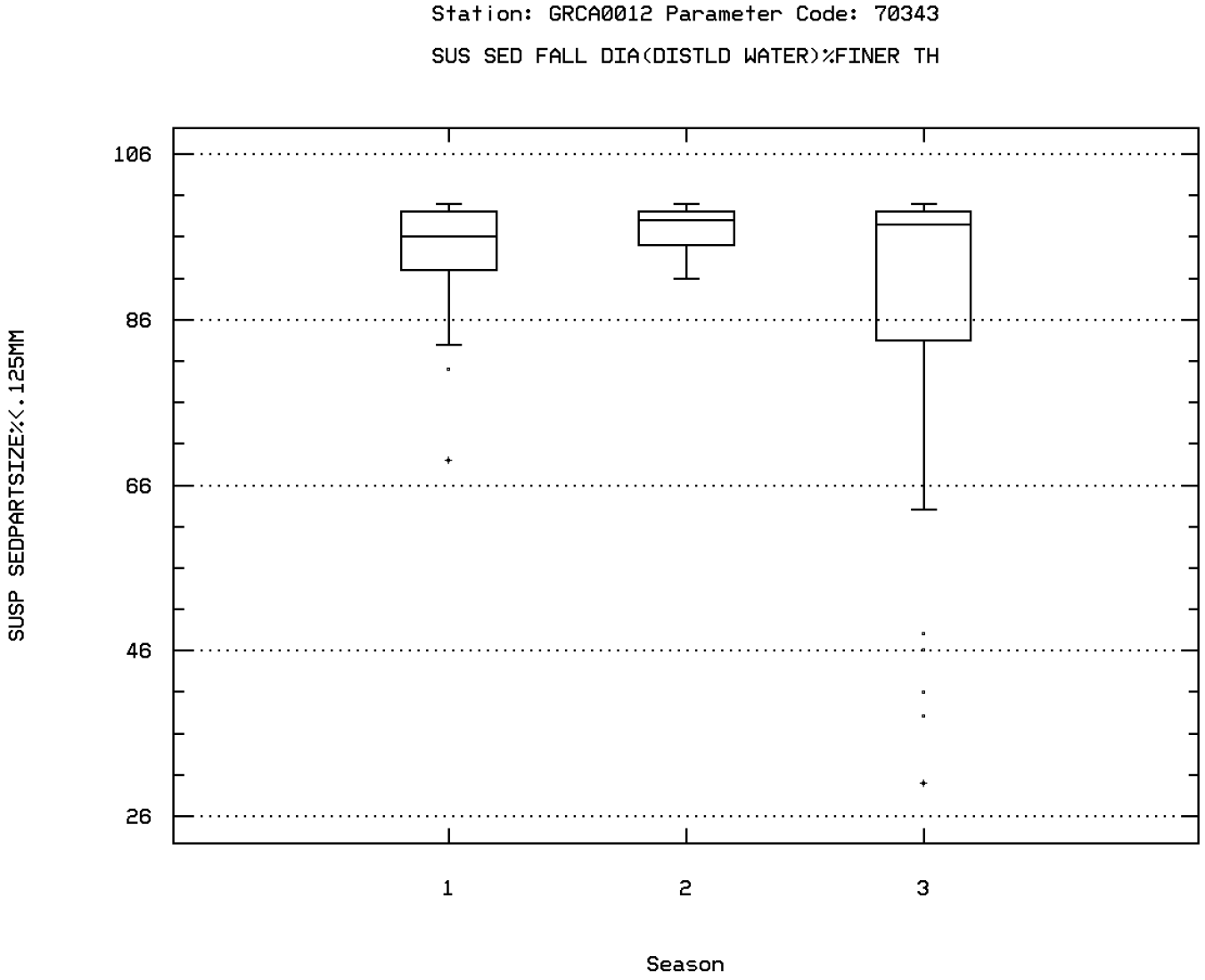
SUS SED FALL DIA(DISTLD WATER)%FINER TH



PARIA RIVER AT LEES FERRY, ARIZ.



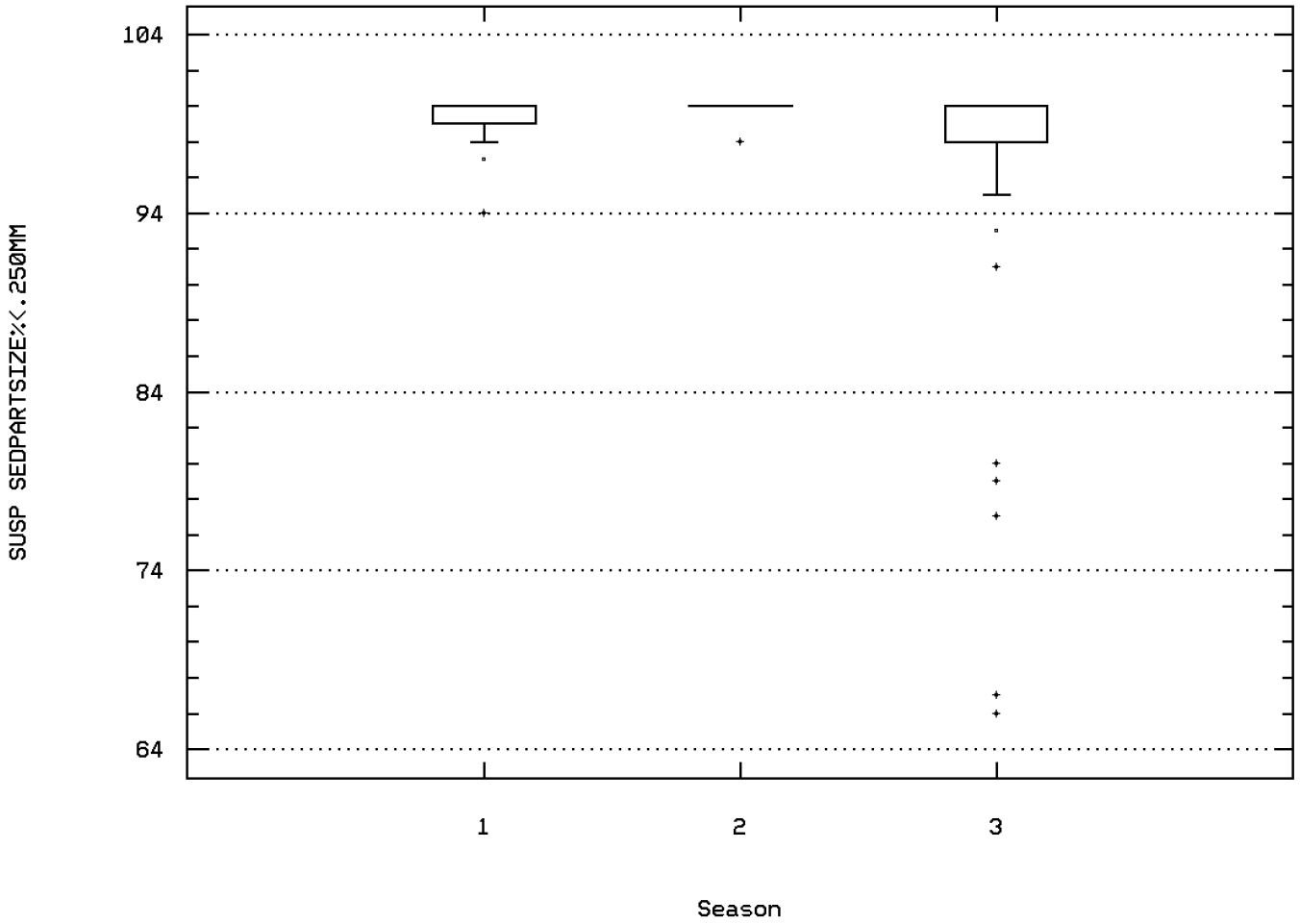
PARIA RIVER AT LEES FERRY, ARIZ.



PARIA RIVER AT LEES FERRY, ARIZ.

Station: GRCA0012 Parameter Code: 70344

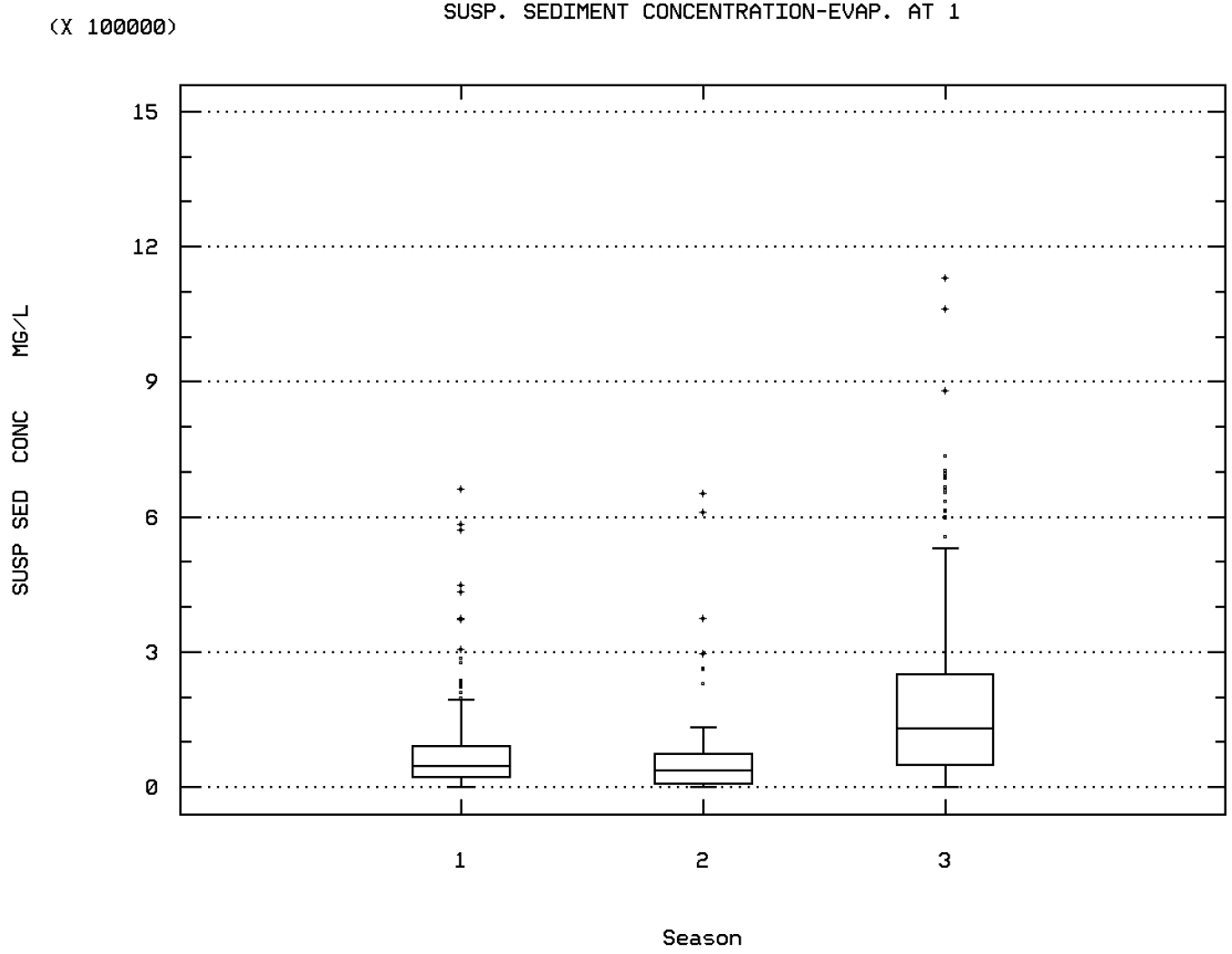
SUS SED FALL DIA(DISTLD WATER)%FINER TH



PARIA RIVER AT LEES FERRY, ARIZ.

Station: GRCA0012 Parameter Code: 80154

SUSP. SEDIMENT CONCENTRATION-EVAP. AT 1



PARIA RIVER AT LEES FERRY, ARIZ.

Station Inventory for Station: GRCA0013

NPS Station ID: GRCA0013 LAT/LON: 36.863755/-111.596810 Agency: 11NPSWRD Date Created: 02/03/96
Location: COLORADO RIVER CONFLUENCE WITH PARIA RIVER FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): GRCA_PARI002
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14070007 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 14070007 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
COLORADO RIVER CONFLUENCE WITH PARIA RIVER. SITE IS LOCATED ON THE LEE'S FERRY USGS 7.5 QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/06/92-10/04/94	7	24.	21.071	27.	5.	56.786	7.536	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/06/92-10/04/94	7	30.5	27.614	38.	13.5	64.758	8.047	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/06/92-10/04/94	6	6.5	7.333	14.	2.	17.467	4.179	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/06/92-10/04/94	7	1054.	1070.	1945.	540.	229160.	478.707	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/06/92-10/04/94	6	9.25	9.333	11.7	6.7	3.779	1.944	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/06/92-10/04/94	6	105.	113.333	140.	94.	345.067	18.576	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/06/92-10/04/94	7	8.5	8.46	9.16	7.92	0.184	0.429	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/06/92-10/04/94	7	8.5	8.307	9.16	7.92	0.211	0.46	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/06/92-10/04/94	7	0.003	0.005	0.012	0.001	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/06/92-02/09/94	6	210.	297.333	860.	90.	82441.067	287.126	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/06/92-10/04/94	6	1040.	968.333	1800.	70.	591376.667	769.01	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/06/92-10/04/94	6 ##	0.015	0.038	0.15	0.015	0.003	0.055	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/06/92-10/04/94	6	0.8	2.883	13.	0.2	25.158	5.016	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/06/92-10/04/94	6	0.905	0.928	1.23	0.7	0.038	0.195	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/06/92-10/04/94	6	0.485	2.587	10.	0.06	15.95	3.994	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/06/92-10/04/94	6	95.05	127.533	258.	60.4	6326.831	79.541	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/06/92-10/04/94	6	33.	39.417	81.5	20.4	459.57	21.438	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/06/92-10/04/94	6	104.5	97.367	167.	33.8	2195.719	46.858	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/06/92-10/04/94	6	6.85	6.7	9.8	4.	5.408	2.326	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/06/92-10/04/94	6	17.	17.	24.	11.	21.2	4.604	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/06/92-10/04/94	6	430.	448.333	850.	140.	60216.667	245.391	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/06/92-10/04/94	6	0.29	0.282	0.35	0.19	0.004	0.066	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/29/93-02/09/94	2	12.3	12.3	13.3	11.3	2.	1.414	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/06/92-10/04/94	6	8.5	14.833	49.	2.5	312.467	17.677	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/06/92-10/04/94	6 ##	2.5	8.333	22.	2.5	83.267	9.125	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/06/92-10/04/94	6 ##	0.25	0.917	4.	0.25	2.292	1.514	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/06/92-10/04/94	6 ##	17.	121.	520.	5.	41942.8	204.799	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/06/92-10/04/94	6	30.5	157.5	610.	5.	58996.3	242.892	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/06/92-10/04/94	6	7.5	44.5	142.	1.	3928.3	62.676	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/06/92-10/04/94	6 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/06/92-10/04/94	6 ##	18.5	115.833	490.	10.	36505.767	191.065	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/06/92-10/04/94	6 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/06/92-10/04/94	6	66.	459.	2130.	10.	700495.6	836.956	**	**	**	**

** - Less than 9 observations ## - 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: GRCA0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/06/92-10/04/94	6 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/06/92-10/04/94	6 ##	2.5	4.167	12.5	2.5	16.667	4.082	**	**	**	**
01501	ALPHA, TOTAL	06/06/92-02/09/94	3 ##	1.	10.667	30.	1.	280.333	16.743	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	02/09/94-02/09/94	1	9.	9.	9.	9.	0.	0.	**	**	**	**
03501	BETA, TOTAL	06/06/92-02/09/94	3 ##	1.5	12.	33.	1.5	330.75	18.187	**	**	**	**
03502	BETA, TOTAL, COUNTING ERROR	02/09/94-02/09/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/92-09/29/93	5	17.	26.2	62.	2.	730.7	27.031	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/06/92-09/29/93	5	1.23	1.095	1.792	0.301	0.462	0.68	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			12.434								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/06/92-09/29/93	4	29.5	78.25	230.	24.	10254.917	101.267	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/06/92-09/29/93	4	1.465	1.668	2.362	1.38	0.219	0.467	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			46.541								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/06/92-10/04/94	6	635.	783.333	1400.	370.	149546.667	386.713	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/06/92-10/04/94	6 ##	0.1	0.267	1.1	0.1	0.167	0.408	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/07/92-09/29/93	4	209.5	373.9	1000.	76.6	181555.907	426.094	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0013

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	7	1	0.14	3	1	0.33	2	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	250.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	5	0.83	3	2	0.67	2	2	1.00	1	1	1.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	50.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	4.	6	2	0.33	3	2	0.67	2	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	6	1	0.17	3	1	0.33	2	0	0.00	1	0	0.00			
		Drinking Water	5.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	6	2	0.33	3	2	0.67	2	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	6	4	0.67	3	2	0.67	2	2	1.00	1	0	0.00			
		Drinking Water	1300.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	6	2	0.33	3	2	0.67	2	0	0.00	1	0	0.00			
		Drinking Water	15.	6	2	0.33	3	2	0.67	2	0	0.00	1	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	100.	6	2	0.33	3	2	0.67	2	0	0.00	1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	6	2	0.33	3	2	0.67	2	0	0.00	1	0	0.00			
		Drinking Water	5000.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	50.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	5	0	0.00	1	0	0.00	2	0	0.00	2	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	2.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	4	4	1.00	1	1	1.00	1	1	1.00	2	2	1.00			

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

Station Inventory for Station: GRCA0014

NPS Station ID: GRCA0014
LAT/LON: 36.863337/-111.600004
Agency: 21AZRWTR
Date Created: 08/27/94
Location: PARIA R.AZ/NM PLATEAU
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): PAR1-00RF
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 3120
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 14070007
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0014

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: GRCA0015

NPS Station ID: GRCA0015
LAT/LON: 36.765837/-111.600837
Agency: 112WRD
Date Created: 10/31/81
Location: 03 029-05.59X16.13
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 364557111360301
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 15010001034800.00
RF3 Mile Point: 0.00
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/52-04/30/52	1	290.	290.	290.	290.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/52-04/30/52	1	111.	111.	111.	111.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	04/30/52-04/30/52	1	135.	135.	135.	135.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	04/30/52-04/30/52	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/30/52-04/30/52	1	102.	102.	102.	102.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/30/52-04/30/52	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/30/52-04/30/52	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/30/52-04/30/52	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/30/52-04/30/52	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	04/30/52-04/30/52	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	04/30/52-04/30/52	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/30/52-04/30/52	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/30/52-04/30/52	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/30/52-04/30/52	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/30/52-04/30/52	1	12.	12.	12.	12.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/30/52-04/30/52	1	171.	171.	171.	171.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/30/52-04/30/52	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: GRCA0015

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0016

NPS Station ID: GRCA0016
LAT/LON: 36.658337/-111.645838
Agency: 112WRD
Date Created: 10/31/81
Location: 3A-188 0304408120627
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 363930111384501
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 0.40
On/Off RF1:
RF3 Index: 15010001000304.95
RF3 Mile Point: 8.32
Distance from RF3: 0.10
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/52-04/30/52	1	3660.	3660.	3660.	3660.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/52-04/30/52	1	214.	214.	214.	214.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	04/30/52-04/30/52	1	261.	261.	261.	261.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	04/30/52-04/30/52	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/30/52-04/30/52	1	2130.	2130.	2130.	2130.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/30/52-04/30/52	1	1920.	1920.	1920.	1920.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/30/52-04/30/52	1	536.	536.	536.	536.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/30/52-04/30/52	1	193.	193.	193.	193.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/30/52-04/30/52	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	04/30/52-04/30/52	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	04/30/52-04/30/52	1	225.	225.	225.	225.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/30/52-04/30/52	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/30/52-04/30/52	1	2240.	2240.	2240.	2240.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/30/52-04/30/52	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/30/52-04/30/52	1	11.	11.	11.	11.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/30/52-04/30/52	1	3390.	3390.	3390.	3390.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/30/52-04/30/52	1	6.8	6.8	6.8	6.8	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: GRCA0016

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00				1	1	1.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0017

NPS Station ID: GRCA0017 LAT/LON: 36.946392/-111.675560 Agency: 112WRD Date Created: 09/26/78
Location: PARIA R. BLW. WATER POCKETS GULCH NR PAGE,AZ FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 09381950
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 14070007 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 14070007001 RF1 Mile Point: 8.760 Distance from RF1: 10.60 On/Off RF1: ON
RF3 Index: 15010004089400.06 RF3 Mile Point: 2.27 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0017

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/14/77-11/15/79	25	15.	14.68	28.	1.	54.456	7.379	4.	8.25	20.5	23.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/13/77-09/07/78	10	19.25	21.25	36.	8.	106.681	10.329	8.4	12.	32.5	35.65
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/14/77-11/15/79	24	11.5	19.75	77.	4.	444.717	21.088	5.	5.25	28.75	60.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	09/14/77-04/19/79	14	770.	4997.571	48000.	1.	158922244.264	12606.437	2.5	18.25	4400.	27550.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/16/79-11/15/79	7	300.	3182.8	20000.	3.2	55311377.12	7437.162	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/14/77-11/15/79	25	1070.	976.4	1600.	440.	167113.583	408.795	466.	502.5	1360.	1488.
00300	OXYGEN, DISSOLVED MG/L	10/13/77-11/15/79	24	9.6	9.504	12.6	7.1	2.457	1.567	7.7	8.1	10.675	12.
00400	PH (STANDARD UNITS)	09/14/77-11/15/79	25	8.2	8.2	8.6	7.6	0.056	0.236	7.86	8.1	8.35	8.54
00400	CONVERTED PH (STANDARD UNITS)	09/14/77-11/15/79	25	8.2	8.133	8.6	7.6	0.061	0.246	7.86	8.1	8.35	8.54
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/14/77-11/15/79	25	0.006	0.007	0.025	0.003	0.	0.005	0.003	0.004	0.008	0.014
00405	CARBON DIOXIDE (MG/L AS CO2)	09/14/77-12/13/78	14	1.4	1.886	8.	0.5	3.44	1.855	0.6	1.075	1.825	5.45
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/14/77-11/15/79	22	120.	125.227	190.	1.	1329.327	36.46	110.	110.	151.	167.
00440	BICARBONATE ION (MG/L AS HCO3)	09/14/77-12/13/78	14	150.	160.	230.	130.	892.308	29.872	130.	140.	182.5	215.
00445	CARBONATE ION (MG/L AS CO3)	09/14/77-12/13/78	14	0.	0.5	4.	0.	1.654	1.286	0.	0.	0.	3.5
00600	NITROGEN, TOTAL (MG/L AS N)	09/14/77-09/18/79	4	1.9	9.275	32.	1.3	229.629	15.154	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/14/77-09/18/79	4	0.94	8.083	30.	0.45	213.695	14.618	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/14/77-09/18/79	4	1.025	1.11	1.7	0.69	0.2	0.447	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/14/77-09/18/79	4	1.81	3.258	9.4	0.01	19.625	4.43	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/13/78-09/07/78	2	0.95	0.95	1.9	0.	1.805	1.344	**	**	**	**
00746	SULFIDE, DISSOLVED (MG/L AS S)	01/11/78-01/11/78	1	480.	480.	480.	480.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/14/77-11/15/79	24	370.	361.667	750.	150.	28292.754	168.204	180.	205.	450.	630.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/14/77-11/15/79	24	260.	238.625	630.	54.	24446.418	156.354	72.	92.	320.	465.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/14/77-11/15/79	24	83.5	85.417	200.	38.	1828.775	42.764	40.	52.	100.	155.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/14/77-11/15/79	24	40.5	39.167	73.	18.	270.058	16.433	19.5	21.	52.	60.5
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/14/77-11/15/79	24	81.	76.625	150.	27.	1704.332	41.284	29.5	33.	100.	150.
00931	SODIUM ADSORPTION RATIO	09/14/77-11/15/79	24	1.7	1.663	3.	0.9	0.411	0.641	0.9	1.	2.	2.65
00932	SODIUM, PERCENT	09/14/77-11/15/79	24	30.5	30.625	43.	21.	32.332	5.686	23.	26.	34.75	39.
00933	SODIUM,PLUS POTASSIUM (MG/L)	04/19/79-11/15/79	7	97.	98.714	160.	33.	2674.571	51.716	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/14/77-11/15/79	24	4.75	5.242	12.	2.6	5.893	2.428	3.	3.4	5.95	9.55
00940	CHLORIDE,TOTAL IN WATER MG/L	09/14/77-11/15/79	24	13.5	15.042	30.	5.	44.042	6.636	9.	9.	19.75	25.
00945	SULFATE, TOTAL (MG/L AS SO4)	09/14/77-11/15/79	23	430.	384.783	1100.	120.	64289.723	253.554	120.	140.	510.	708.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/14/77-11/15/79	26	0.25	0.473	3.	0.1	0.568	0.754	0.1	0.2	0.4	1.32
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/14/77-11/15/79	24	10.	9.25	11.	0.5	5.275	2.297	6.85	8.15	11.	11.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/14/77-11/15/79	26	2.	2.	3.	0.	0.56	0.748	1.	2.	2.25	3.
01001	ARSENIC, SUSPENDED (UG/L AS AS)	09/14/77-09/18/79	4 ##	10.25	605.25	2400.	0.5	1431696.75	1196.535	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	09/14/77-11/15/79	5	4.	486.4	2400.	3.	1144398.3	1069.766	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	09/14/77-11/15/79	26 ##	50.	105.	300.	50.	6634.	81.449	50.	50.	200.	230.
01020	BORON, DISSOLVED (UG/L AS B)	09/14/77-11/15/79	26	125.	125.769	250.	60.	2601.385	51.004	67.	80.	170.	200.

** - Less than 9 observations ## - 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: GRCA0017

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/14/77-09/18/79	4 ##	1.	1.	2.	0.	0.667	0.816	**	**	**	**
01026	CADMIUM, SUSPENDED (UG/L AS CD)	09/14/77-09/18/79	4	0.5	19.75	78.	0.	1508.25	38.836	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	09/14/77-09/18/79	4 ##	1.	20.5	80.	0.	1574.333	39.678	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	09/14/77-09/18/79	4 ##	10.	7.5	10.	0.	25.	5.	**	**	**	**
01031	CHROMIUM, SUSPEND (UG/L AS CR)	09/14/77-09/18/79	4	20.	27.5	70.	0.	1158.333	34.034	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	09/14/77-09/18/79	4 ##	25.	32.5	80.	0.	1558.333	39.476	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	09/14/77-09/18/79	4 ##	0.	0.375	1.5	0.	0.563	0.75	**	**	**	**
01036	COBALT, SUSPENDED (UG/L AS CO)	09/14/77-09/18/79	4	13.5	106.75	400.	0.	38382.25	195.914	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	09/14/77-09/18/79	4 ##	13.5	106.75	400.	0.	38382.25	195.914	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/14/77-11/15/79	26	2.	2.692	12.	0.	8.302	2.881	0.	1.	4.	6.5
01041	COPPER, SUSPENDED (UG/L AS CU)	09/14/77-09/18/79	4	57.	68.5	160.	0.	6315.667	79.471	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	09/14/77-09/18/79	4	58.	71.75	170.	1.	6814.917	82.553	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	03/13/78-09/07/78	2	38760.	38760.	77000.	520.	2924595200.	54079.527	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/14/77-09/18/79	4	5770.	22170.	77000.	140.	1361425200.	36897.496	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/14/77-11/15/79	26	20.	56.731	840.	5.	26591.885	163.07	5.	5.	32.5	90.
01049	LEAD, DISSOLVED (UG/L AS PB)	09/14/77-11/15/79	26 ##	1.	8.308	79.	0.	300.382	17.332	0.	0.	9.25	34.6
01050	LEAD, SUSPENDED (UG/L AS PB)	09/14/77-09/18/79	4	36.	223.	820.	0.	158884.667	398.603	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	09/14/77-09/18/79	4	36.	243.	900.	0.	192324.667	438.548	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	09/14/77-09/18/79	4	1355.	3179.5	10000.	8.	22284427.667	4720.638	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	09/14/77-09/18/79	4	1360.	3181.25	10000.	5.	22269672.917	4719.075	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/14/77-11/15/79	26 ##	5.	8.75	50.	0.5	114.885	10.718	0.5	4.25	8.75	20.
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/14/77-11/15/79	25	20.	18.1	50.	0.	276.583	16.631	0.6	1.5	30.	50.
01091	ZINC, SUSPENDED (UG/L ZN)	09/14/77-09/18/79	4	100.	127.5	290.	20.	16425.	128.16	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	09/14/77-09/18/79	4	115.	147.5	340.	20.	22225.	149.081	**	**	**	**
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	02/15/78-02/15/78	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/14/77-11/15/79	24	1.	2.208	7.	0.5	3.868	1.967	0.5	1.	3.	5.5
01146	SELENIUM, SUSPENDED (UG/L AS SE)	09/14/77-09/18/79	6	0.	0.333	1.	0.	0.267	0.516	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	09/14/77-09/18/79	4	1.	1.625	4.	0.5	2.563	1.601	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/14/77-09/14/77	1	2800.	2800.	2800.	2800.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/14/77-09/14/77	1	3.447	3.447	3.447	3.447	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2800.								
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/14/77-10/17/79	24	4.5	259.208	2800.	0.5	480097.085	692.89	0.5	1.	136.5	1300.
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/14/77-10/17/79	24	0.651	1.02	3.447	-0.301	1.433	1.197	-0.301	0.	2.108	3.011
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			10.462								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/14/77-11/15/79	24	375.	7679.125	73000.	0.5	338088011.31	18387.17	1.25	14.75	1200.	41500.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/14/77-11/15/79	24	2.574	2.262	4.863	-0.301	2.257	1.502	0.	1.161	3.074	4.618
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			182.766								
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	09/14/77-09/14/77	1	20000.	20000.	20000.	20000.	0.	0.	**	**	**	**
31679	LOG FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,	09/14/77-09/14/77	1	4.301	4.301	4.301	4.301	0.	0.	**	**	**	**
31679	GM FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,4	GEOMETRIC MEAN =			20000.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/14/77-11/15/79	23	843.	749.957	1710.	283.	158887.043	398.606	300.8	330.	1010.	1228.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/14/77-11/15/79	23	702.	692.87	1630.	289.	130008.028	360.566	298.6	339.	879.	1156.
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/14/77-11/15/79	24	25.5	65.325	401.	3.62	9539.039	97.668	3.705	4.82	83.975	241.5
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/14/77-11/15/79	24	1.125	1.016	2.33	0.38	0.282	0.531	0.41	0.458	1.35	1.67
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/18/79-09/18/79	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	09/14/77-09/18/79	4	8.35	40.625	140.	5.8	4391.109	66.265	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/14/77-09/18/79	4 ##	0.05	0.1	0.25	0.05	0.01	0.1	**	**	**	**
71895	MERCURY, SUSPENDED (UG/L AS HG)	09/14/77-09/18/79	4	0.05	0.55	2.1	0.	1.07	1.034	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	09/14/77-11/15/79	5 ##	0.05	0.47	2.1	0.05	0.831	0.911	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	09/14/77-11/15/79	24	748.5	9298.208	87300.	4.	444568276.955	21084.788	13.5	30.75	7097.5	40550.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	09/14/77-11/15/79	22	10.25	708.344	4470.	0.05	1861950.731	1364.533	0.168	0.395	472.	3225.

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

EPA Water Quality Criteria Analysis for Station: GRCA0017

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	14	10	0.71	9	6	0.67	2	2	1.00	3	2	0.67			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	7	4	0.57	2	1	0.50	1	1	1.00	4	2	0.50			

& - 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: GRCA0017

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	24	0	0.00	13	0	0.00	4	0	0.00	7	0	0.00			
00400	PH	Other-Hi Lim.	9.	25	0	0.00	13	0	0.00	4	0	0.00	8	0	0.00			
		Other-Lo Lim.	6.5	25	0	0.00	13	0	0.00	4	0	0.00	8	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	1	0	0.00				3	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	24	0	0.00	12	0	0.00	5	0	0.00	7	0	0.00			
		Drinking Water	250.	24	0	0.00	12	0	0.00	5	0	0.00	7	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	23	14	0.61	11	7	0.64	5	3	0.60	7	4	0.57			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	26	0	0.00	13	0	0.00	5	0	0.00	8	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	26	0	0.00	13	0	0.00	5	0	0.00	8	0	0.00			
		Drinking Water	50.	26	0	0.00	13	0	0.00	5	0	0.00	8	0	0.00			
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	4	1	0.25	1	0	0.00				3	1	0.33			
		Drinking Water	50.	4	1	0.25	1	0	0.00				3	1	0.33			
01002	ARSENIC, TOTAL	Fresh Acute	360.	5	1	0.20	2	0	0.00				3	1	0.33			
		Drinking Water	50.	5	1	0.20	2	0	0.00				3	1	0.33			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	26	0	0.00	13	0	0.00	5	0	0.00	8	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	4	0	0.00	1	0	0.00				3	0	0.00			
		Drinking Water	5.	4	0	0.00	1	0	0.00				3	0	0.00			
01026	CADMIUM, SUSPENDED	Fresh Acute	3.9	4	1	0.25	1	0	0.00				3	1	0.33			
		Drinking Water	5.	4	1	0.25	1	0	0.00				3	1	0.33			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	4	1	0.25	1	0	0.00				3	1	0.33			
		Drinking Water	5.	4	1	0.25	1	0	0.00				3	1	0.33			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	4	0	0.00	1	0	0.00				3	0	0.00			
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	4	0	0.00	1	0	0.00				3	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00	1	0	0.00				3	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	26	0	0.00	13	0	0.00	5	0	0.00	8	0	0.00			
		Drinking Water	1300.	26	0	0.00	13	0	0.00	5	0	0.00	8	0	0.00			
01041	COPPER, SUSPENDED	Fresh Acute	18.	4	2	0.50	1	1	1.00				3	1	0.33			
		Drinking Water	1300.	4	0	0.00	1	0	0.00				3	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	4	2	0.50	1	1	1.00				3	1	0.33			
		Drinking Water	1300.	4	0	0.00	1	0	0.00				3	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	26	0	0.00	13	0	0.00	5	0	0.00	8	0	0.00			
		Drinking Water	15.	26	3	0.12	13	2	0.15	5	0	0.00	8	1	0.13			
01050	LEAD, SUSPENDED	Fresh Acute	82.	4	1	0.25	1	0	0.00				3	1	0.33			
		Drinking Water	15.	4	3	0.75	1	1	1.00				3	2	0.67			
01051	LEAD, TOTAL	Fresh Acute	82.	4	1	0.25	1	0	0.00				3	1	0.33			
		Drinking Water	15.	4	3	0.75	1	1	1.00				3	2	0.67			
01090	ZINC, DISSOLVED	Fresh Acute	120.	25	0	0.00	12	0	0.00	5	0	0.00	8	0	0.00			
		Drinking Water	5000.	25	0	0.00	12	0	0.00	5	0	0.00	8	0	0.00			
01091	ZINC, SUSPENDED	Fresh Acute	120.	4	2	0.50	1	1	1.00				3	1	0.33			
		Drinking Water	5000.	4	0	0.00	1	0	0.00				3	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	2	0.50	1	1	1.00				3	1	0.33			
		Drinking Water	5000.	4	0	0.00	1	0	0.00				3	0	0.00			
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	1	1.00	1	1	1.00									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	24	0	0.00	13	0	0.00	5	0	0.00	6	0	0.00			
		Drinking Water	50.	24	0	0.00	13	0	0.00	5	0	0.00	6	0	0.00			
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	6	0	0.00	1	0	0.00				5	0	0.00			
		Drinking Water	50.	6	0	0.00	1	0	0.00				5	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00	1	0	0.00				3	0	0.00			
		Drinking Water	50.	4	0	0.00	1	0	0.00				3	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	1	1.00							1	1	1.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	24	5	0.21	12	2	0.17	5	1	0.20	7	2	0.29			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	4	0	0.00	1	0	0.00				3	0	0.00			
		Drinking Water	2.	4	0	0.00	1	0	0.00				3	0	0.00			
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	4	0	0.00	1	0	0.00				3	0	0.00			
		Drinking Water	2.	4	1	0.25	1	0	0.00				3	1	0.33			
71900	MERCURY, TOTAL	Fresh Acute	2.4	5	0	0.00	2	0	0.00				3	0	0.00			
		Drinking Water	2.	5	1	0.20	2	0	0.00				3	1	0.33			

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

Station Inventory for Station: GRCA0018

NPS Station ID: GRCA0018
LAT/LON: 36.839448/-111.681115
Agency: 112WRD
Date Created: 02/28/78
Location: A-40-07 30ACA
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 365022111405201
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070007
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 14070007
RF1 Mile Point: 0.000
Distance from RF1: 7.20
On/Off RF1:
RF3 Index: 14070006019600.00
RF3 Mile Point: 0.00
Distance from RF3: 0.19
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0018

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: GRCA0019

NPS Station ID: GRCA0019
Location: A-39-06 12BAD
Station Type: /TYPA/AMBNT/SPRING
RMI-Indexes:
RMI-Miles:
HUC: 15010001
Major Basin:
Minor Basin:
RF1 Index: 15010001
RF3 Index: 15010001003605.42
Description:

LAT/LON: 36.799171/-111.704170
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 5.42

Agency: 112WRD
FIPS State/County: 04005 ARIZONA/COCONINO
STORET Station ID(s): 364757111421501
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.08

Date Created: 02/28/78
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: GRCA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/06/76-08/06/76	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/06/76-08/06/76	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/06/76-08/06/76	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/06/76-08/06/76	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/06/76-08/06/76	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/06/76-08/06/76	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/06/76-08/06/76	1	62.	62.	62.	62.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/06/76-08/06/76	1	75.	75.	75.	75.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/06/76-08/06/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/06/76-08/06/76	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/06/76-08/06/76	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/06/76-08/06/76	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/06/76-08/06/76	1	81.	81.	81.	81.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/06/76-08/06/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/06/76-08/06/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/06/76-08/06/76	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/06/76-08/06/76	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/06/76-08/06/76	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/06/76-08/06/76	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/06/76-08/06/76	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/06/76-08/06/76	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/06/76-08/06/76	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/06/76-08/06/76	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/06/76-08/06/76	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/06/76-08/06/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/06/76-08/06/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/06/76-08/06/76	1	109.	109.	109.	109.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/06/76-08/06/76	1	113.	113.	113.	113.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/06/76-08/06/76	1	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0019

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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: GRCA0020

NPS Station ID: GRCA0020
LAT/LON: 36.200837/-111.756948
Agency: 112WRD
Date Created: 01/26/80
Location: RM 3.1, LITTLE COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 361203111452501
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15020016
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15020016001
RF1 Mile Point: 2.990
Distance from RF1: 2.30
On/Off RF1: ON
RF3 Index: 15020016006000.00
RF3 Mile Point: 5.41
Distance from RF3: 0.34
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0020

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/17/66-07/18/79	3	23.	23.	24.	22.	1.	1.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/18/79-07/18/79	1	227.	227.	227.	227.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/18/79-07/18/79	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/17/66-07/18/79	5	4580.	4562.	4610.	4500.	1820.	42.661	**	**	**	**
00400	PH (STANDARD UNITS)	05/17/66-07/18/79	5	7.6	7.56	7.8	7.3	0.043	0.207	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/17/66-07/18/79	5	7.6	7.52	7.8	7.3	0.045	0.212	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/17/66-07/18/79	5	0.025	0.03	0.05	0.016	0.	0.014	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	05/17/66-03/15/67	4	23.	24.	37.	13.	140.	11.832	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/17/66-07/18/79	5	400.	397.2	410.	381.	136.7	11.692	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/17/66-03/15/67	4	482.	480.5	494.	464.	177.	13.304	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/17/66-03/15/67	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	07/18/79-07/18/79	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	07/18/79-07/18/79	1	0.39	0.39	0.39	0.39	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/18/79-07/18/79	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	07/18/79-07/18/79	1	0.34	0.34	0.34	0.34	0.	0.	**	**	**	**
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	07/18/79-07/18/79	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/18/79-07/18/79	1	0.43	0.43	0.43	0.43	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/18/79-07/18/79	1	0.27	0.27	0.27	0.27	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/18/79-07/18/79	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/18/79-07/18/79	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/18/79-07/18/79	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	07/18/79-07/18/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/17/66-07/18/79	5	595.	611.	700.	550.	3192.5	56.502	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/17/66-07/18/79	5	215.	214.	290.	160.	2392.5	48.913	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/17/66-07/18/79	5	120.	121.6	160.	96.	556.8	23.597	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/17/66-07/18/79	5	76.	74.6	79.	69.	16.3	4.037	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/18/79-07/18/79	1	720.	720.	720.	720.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/18/79-07/18/79	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	07/18/79-07/18/79	1	69.	69.	69.	69.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	05/17/66-07/18/79	5	765.	765.6	795.	730.	570.8	23.891	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/18/79-07/18/79	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/17/66-07/18/79	5	1200.	1184.	1210.	1100.	2230.	47.223	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/17/66-07/18/79	5	175.	178.	200.	170.	157.5	12.55	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/17/66-07/18/79	5	0.2	0.24	0.3	0.2	0.003	0.055	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/17/66-07/18/79	5	17.	16.6	18.	15.	2.3	1.517	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/18/79-07/18/79	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	07/18/79-07/18/79	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	07/18/79-07/18/79	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: GRCA0020

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01006	BARIUM, SUSPENDED (UG/L AS BA)	07/18/79-07/18/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	07/18/79-07/18/79	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	07/18/79-07/18/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01026	CADMIUM, SUSPENDED (UG/L AS CD)	07/18/79-07/18/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/18/79-07/18/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/18/79-07/18/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01031	CHROMIUM, SUSPEND (UG/L AS CR)	07/18/79-07/18/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/18/79-07/18/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	07/18/79-07/18/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01036	COBALT, SUSPENDED (UG/L AS CO)	07/18/79-07/18/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	07/18/79-07/18/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/18/79-07/18/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01041	COPPER, SUSPENDED (UG/L AS CU)	07/18/79-07/18/79	1	71.	71.	71.	71.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/18/79-07/18/79	1	71.	71.	71.	71.	0.	0.	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	07/18/79-07/18/79	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/18/79-07/18/79	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/17/66-07/18/79	5	0.	1.04	5.	0.	4.908	2.215	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/18/79-07/18/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01050	LEAD, SUSPENDED (UG/L AS PB)	07/18/79-07/18/79	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/18/79-07/18/79	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	07/18/79-07/18/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/18/79-07/18/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/18/79-07/18/79	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	07/18/79-07/18/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01076	SILVER, SUSPENDED (UG/L AS AG)	07/18/79-07/18/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	07/18/79-07/18/79	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/18/79-07/18/79	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01091	ZINC, SUSPENDED (UG/L ZN)	07/18/79-07/18/79	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/18/79-07/18/79	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	07/18/79-07/18/79	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01146	SELENIUM, SUSPENDED (UG/L AS SE)	07/18/79-07/18/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	07/18/79-07/18/79	1	2.	2.	2.	2.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/18/79-07/18/79	1	2550.	2550.	2550.	2550.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/17/66-07/18/79	5	2600.	2576.	2600.	2520.	1280.	35.777	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	07/18/79-07/18/79	1	1560.	1560.	1560.	1560.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/17/66-07/18/79	5	3.54	3.514	3.54	3.47	0.001	0.036	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	07/18/79-07/18/79	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/18/79-07/18/79	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	07/18/79-07/18/79	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	07/18/79-07/18/79	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	07/18/79-07/18/79	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
71895	MERCURY, SUSPENDED (UG/L AS HG)	07/18/79-07/18/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/18/79-07/18/79	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0020

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
00400	PH	Other-Hi Lim.	9.	5	0	0.00	1	0	0.00	2	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	5	0	0.00	1	0	0.00	2	0	0.00	2	0	0.00			
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.	5	5	1.00	1	1	1.00	2	2	1.00	2	2	1.00			
		Drinking Water	250.	5	5	1.00	1	1	1.00	2	2	1.00	2	2	1.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	5	0	0.00	1	0	0.00	2	0	0.00	2	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	5	0	0.00	1	0	0.00	2	0	0.00	2	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			

& - 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: GRCA0020

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00							1	0	0.00			
01006	BARIUM, SUSPENDED	Drinking Water	2000.	1	0	0.00							1	0	0.00			
01007	BARIUM, TOTAL	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			
01026	CADMIUM, SUSPENDED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01041	COPPER, SUSPENDED	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	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.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01050	LEAD, SUSPENDED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01076	SILVER, SUSPENDED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	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.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	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			
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00							1	0	0.00			
		Drinking Water	2.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: GRCA0021

NPS Station ID: GRCA0021
LAT/LON: 36.779170/-111.770281
Agency: 112WRD
Date Created: 02/28/78
Location: A-39-06 17DAB
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 364645111461301
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 26.90
On/Off RF1:
RF3 Index: 15010003001203.46
RF3 Mile Point: 4.54
Distance from RF3: 0.05
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/04/76-08/04/76	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/04/76-08/04/76	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/04/76-08/04/76	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/04/76-08/04/76	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/04/76-08/04/76	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/04/76-08/04/76	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/04/76-08/04/76	1	122.	122.	122.	122.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/04/76-08/04/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/04/76-08/04/76	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/04/76-08/04/76	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/04/76-08/04/76	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/04/76-08/04/76	1	120.	120.	120.	120.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/04/76-08/04/76	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/04/76-08/04/76	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/04/76-08/04/76	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/04/76-08/04/76	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/04/76-08/04/76	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/04/76-08/04/76	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/04/76-08/04/76	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/04/76-08/04/76	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/04/76-08/04/76	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/04/76-08/04/76	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/04/76-08/04/76	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/04/76-08/04/76	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/04/76-08/04/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/04/76-08/04/76	1	148.	148.	148.	148.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/04/76-08/04/76	1	157.	157.	157.	157.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/04/76-08/04/76	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: GRCA0021

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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: GRCA0022

NPS Station ID: GRCA0022
LAT/LON: 36.191753/-111.785198
Agency: 11NPSWRD
Date Created: 02/10/96
Location: LITTLE COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): GRCA_LCRV002
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15020016
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15020016
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
LITTLE COLORADO RIVER 0.6 MILES ABOVE COLORADO RIVER. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/10/92-10/09/94	8	21.25	20.163	26.	13.	19.897	4.461	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/10/92-10/09/94	8	29.75	28.15	41.	8.	108.623	10.422	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/10/92-10/09/94	8	189.	195.25	273.	101.	2942.786	54.247	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/10/92-07/02/94	6	4525.	4479.167	4860.	3815.	150404.167	387.82	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/10/92-10/09/94	8	8.2	8.225	9.5	7.	0.568	0.754	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/10/92-10/09/94	8	99.5	99.75	105.	95.	14.214	3.77	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/10/92-10/09/94	8	7.95	7.971	8.43	7.72	0.064	0.252	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/10/92-10/09/94	8	7.947	7.914	8.43	7.72	0.067	0.26	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/10/92-10/09/94	8	0.011	0.012	0.019	0.004	0.	0.006	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/10/92-10/09/94	8	461.	436.25	620.	264.	14518.214	120.492	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/10/92-10/09/94	8 ##	5.	303.125	2200.	5.	590320.982	768.323	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/10/92-10/09/94	8 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/10/92-10/09/94	8 ##	0.15	0.313	1.1	0.1	0.121	0.348	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/10/92-10/09/94	8	0.22	0.223	0.32	0.14	0.004	0.063	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/10/92-10/09/94	8 ##	0.025	0.134	0.9	0.025	0.096	0.309	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/10/92-10/09/94	8	109.	106.225	128.	78.8	356.551	18.883	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/10/92-10/09/94	8	66.	65.738	71.3	61.	15.426	3.928	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/10/92-10/09/94	8	748.	748.75	783.	693.	907.357	30.122	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/10/92-10/09/94	8	6.15	6.212	6.8	5.9	0.084	0.29	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/10/92-10/09/94	8	1190.	1064.125	1240.	133.	142370.411	377.32	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/10/92-10/09/94	8	160.	160.	170.	150.	57.143	7.559	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/10/92-10/09/94	8	0.21	0.214	0.24	0.19	0.	0.018	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/29/93-02/13/94	3	14.1	14.267	14.8	13.9	0.223	0.473	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/10/92-10/09/94	8	7.5	7.375	11.	5.	3.411	1.847	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/10/92-10/09/94	8 ##	2.5	2.375	2.5	2.	0.054	0.231	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/10/92-10/09/94	8 ##	0.25	0.444	1.	0.25	0.09	0.299	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/10/92-10/09/94	8 ##	5.	10.625	50.	5.	253.125	15.91	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/10/92-10/09/94	8 ##	9.	12.5	27.	5.	78.286	8.848	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/10/92-10/09/94	8 ##	1.	3.375	20.	1.	45.125	6.718	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/10/92-10/09/94	8 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/10/92-10/09/94	8 ##	10.	12.75	32.	10.	60.5	7.778	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/10/92-10/09/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/10/92-10/09/94	8 ##	10.	74.125	496.	10.	29115.554	170.633	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/10/92-10/09/94	8 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/10/92-10/09/94	8 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01501	ALPHA, TOTAL	05/12/93-05/12/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
03501	BETA, TOTAL	05/12/93-05/12/93	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22708	URANIUM, NATURAL TOTAL MG/L	06/10/92-10/12/92	2	0.018	0.018	0.034	0.001	0.001	0.023	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/10/92-10/09/94	8	4.	8.563	46.	0.5	232.531	15.249	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/10/92-10/09/94	8	0.602	0.543	1.663	-0.301	0.344	0.586	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.491								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/10/92-10/09/94	8	6.5	10.375	31.	0.5	146.196	12.091	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/10/92-10/09/94	8	0.671	0.586	1.491	-0.301	0.56	0.748	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			3.855								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/10/92-10/09/94	8	2500.	2500.	2600.	2300.	11428.571	106.904	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/10/92-10/09/94	8 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	05/12/93-10/09/94	6	2.65	4.083	12.9	0.7	21.202	4.605	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0022

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	7	0.88	4	3	0.75	2	2	1.00	2	2	1.00			
		Drinking Water	250.	8	7	0.88	4	3	0.75	2	2	1.00	2	2	1.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	4.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	8	3	0.38	4	0	0.00	2	2	1.00	2	1	0.50			
		Drinking Water	1300.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	15.	8	1	0.13	4	0	0.00	2	1	0.50	2	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	100.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	8	1	0.13	4	0	0.00	2	1	0.50	2	0	0.00			
		Drinking Water	5000.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
22708	URANIUM, NATURAL, TOTAL	Drinking Water	0.02	2	1	0.50	1	0	0.00	1	1	1.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	6	0	0.00	3	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: GRCA0023

NPS Station ID: GRCA0023 LAT/LON: 36.191670/-111.791671 Agency: 21AZRWTR Date Created: 08/27/94
Location: LITTLE COLORADO R. (MOUTH)AZ/NM PLATEAU FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): LCR9-00RF
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15020016 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 2760 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 15020016 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0023

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: GRCA0024

NPS Station ID: GRCA0024
LAT/LON: 36.192503/-111.795837
Agency: 112WRD
Date Created: 07/30/76
Location: RM 0.1, LITTLE COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 361133111474500
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15020016
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15020016
RF1 Mile Point: 0.000
Distance from RF1: 1.30
On/Off RF1:
RF3 Index: 15010002001800.00
RF3 Mile Point: 0.03
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/01/76-05/01/76	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/01/76-05/01/76	1	1800.	1800.	1800.	1800.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/01/76-05/01/76	1	300.	300.	300.	300.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/01/76-05/01/76	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/01/76-05/01/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/01/76-05/01/76	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/01/76-05/01/76	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/01/76-05/01/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/01/76-05/01/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/01/76-05/01/76	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/01/76-05/01/76	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/01/76-05/01/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/01/76-05/01/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/01/76-05/01/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/01/76-05/01/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/01/76-05/01/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/01/76-05/01/76	1	990.	990.	990.	990.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/01/76-05/01/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/01/76-05/01/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01100	TIN, DISSOLVED (UG/L AS SN)	05/01/76-05/01/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/01/76-05/01/76	1	170.	170.	170.	170.	0.	0.	**	**	**	**
01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/01/76-05/01/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/01/76-05/01/76	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/01/76-05/01/76	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/01/76-05/01/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/01/76-05/01/76	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	05/01/76-05/01/76	1	2.6	2.6	2.6	2.6	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: GRCA0024

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						

& - 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: GRCA0024

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						
80020	URANIUM, DISS. BY EXTRACTION FLUOROMETRI	Drinking Water	20.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0025

NPS Station ID: GRCA0025 | LAT/LON: 36.139254/-111.814699 | Agency: 11NPSWRD | Date Created: 02/03/96
Location: LAVA CANYON AT COLORADO RIVER | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): GRCA_LAVA001
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE COLORADO RIVER | ECO Region:
RF1 Index: 15010001 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
LAVA CANYON AT COLORADO RIVER. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/10/92-10/15/95	8	23.	21.688	27.2	9.5	30.836	5.553	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/10/92-10/15/95	9	23.	23.833	39.	10.	74.625	8.639	10.	18.	30.75	39.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/10/92-10/15/95	9	0.6	1.078	4.	0.2	1.462	1.209	0.2	0.45	1.35	4.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/10/92-10/15/95	8	2255.	1804.75	2670.	243.	862557.357	928.74	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/10/92-10/15/95	9	7.8	8.022	10.3	7.	0.954	0.977	7.	7.35	8.35	10.3
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/10/92-10/15/95	9	101.	99.889	103.	94.	12.111	3.48	94.	96.5	103.	103.
00406	PH, FIELD, STANDARD UNITS SU	06/10/92-10/15/95	9	8.43	8.283	8.66	7.15	0.209	0.458	7.15	8.175	8.55	8.66
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/10/92-10/15/95	9	8.43	7.94	8.66	7.15	0.342	0.585	7.15	8.175	8.55	8.66
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/10/92-10/15/95	9	0.004	0.011	0.071	0.002	0.	0.022	0.002	0.003	0.007	0.071
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/10/92-10/15/95	9	332.	342.444	386.	306.	1071.778	32.738	306.	313.	376.	386.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/10/92-10/09/94	7	76.	543.	2500.	5.	865068.	930.09	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/10/92-10/09/94	7 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/10/92-10/09/94	7 ##	0.1	0.514	1.6	0.1	0.421	0.649	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/10/92-10/09/94	7 ##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/10/92-10/09/94	7	0.05	0.135	0.52	0.025	0.034	0.183	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/10/92-06/10/92	1	522.	522.	522.	522.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/10/92-10/09/94	7	80.	85.671	145.	52.4	1003.636	31.68	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/10/92-10/09/94	7	114.	119.729	179.	96.	878.456	29.639	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/10/92-10/09/94	7	298.	386.286	718.	220.	41258.571	203.122	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/10/92-10/09/94	7	29.7	33.343	50.	22.3	107.29	10.358	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/10/92-10/09/94	7	370.	507.143	1140.	280.	100523.81	317.055	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/10/92-10/09/94	7	540.	554.286	920.	160.	53395.238	231.074	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/10/92-10/09/94	7	0.34	0.327	0.39	0.22	0.003	0.054	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/12/92-05/05/94	5	11.6	11.76	14.	9.4	3.643	1.909	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/10/92-10/09/94	7	62.	59.857	77.	42.	154.143	12.415	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/10/92-10/09/94	7 ##	2.5	2.357	2.5	2.	0.06	0.244	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/10/92-10/09/94	7 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/10/92-10/09/94	7 ##	5.	12.571	36.	5.	133.619	11.559	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/10/92-10/09/94	7 ##	5.	18.714	71.	5.	656.571	25.624	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/10/92-10/09/94	7 ##	1.	3.857	21.	1.	57.143	7.559	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/10/92-10/09/94	7 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/10/92-10/09/94	7 ##	10.	20.	52.	10.	308.	17.55	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/10/92-10/09/94	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/10/92-10/09/94	7 ##	10.	43.143	128.	10.	2507.476	50.075	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/10/92-10/09/94	7 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/10/92-10/09/94	7 ##	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

Parameter Inventory for Station: GRCA0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01501	ALPHA, TOTAL	06/10/92-10/12/92	2	25.	25.	46.	4.	882.	29.698	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	06/10/92-10/12/92	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
03501	BETA, TOTAL	06/10/92-10/12/92	2	99.5	99.5	159.	40.	7080.5	84.146	**	**	**	**
03502	BETA, TOTAL, COUNTING ERROR	06/10/92-10/12/92	2	6.5	6.5	8.	5.	4.5	2.121	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/13/94-10/15/95	5	14.	15.2	26.	6.	63.2	7.95	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/13/94-10/15/95	5	1.146	1.128	1.415	0.778	0.063	0.251	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			13.429								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	02/13/94-10/15/95	5	81.	176.	618.	16.	61923.5	248.844	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	02/13/94-10/15/95	5	1.908	1.946	2.791	1.204	0.319	0.564	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			88.284								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/10/92-10/15/95	9	1500.	1791.333	3300.	1114.	477948.	691.338	1114.	1400.	2200.	3300.
71900	MERCURY, TOTAL (UG/L AS HG)	06/10/92-10/09/94	7 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/10/92-10/15/95	8	2.45	78.15	373.	0.6	17694.626	133.021	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0025

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	9	0	0.00	5	0	0.00	3	0	0.00	1	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	9	0	0.00	5	0	0.00	3	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	9	0	0.00	5	0	0.00	3	0	0.00	1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	7	1	0.14	4	1	0.25	2	0	0.00	1	0	0.00			
		Drinking Water	250.	7	7	1.00	4	4	1.00	2	2	1.00	1	1	1.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	7	6	0.86	4	4	1.00	2	1	0.50	1	1	1.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	50.	7	6	0.86	4	3	0.75	2	2	1.00	1	1	1.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	4.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	5.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	7	2	0.29	4	2	0.50	2	0	0.00	1	0	0.00			
		Drinking Water	1300.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	15.	7	1	0.14	4	1	0.25	2	0	0.00	1	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	100.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	7	1	0.14	4	1	0.25	2	0	0.00	1	0	0.00			
		Drinking Water	5000.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	50.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	5	0	0.00	3	0	0.00	2	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	2.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	8	3	0.38	4	3	0.75	3	0	0.00	1	0	0.00			

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

Station Inventory for Station: GRCA0026

NPS Station ID: GRCA0026
LAT/LON: 36.259726/-111.822226
Agency: 112WRD
Date Created: 10/31/81
Location: GC-48 0306204051652
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 361535111492001
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 0.20
On/Off RF1:
RF3 Index: 15020016000111.19
RF3 Mile Point: 11.20
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/15/60-06/15/60	1	7900.	7900.	7900.	7900.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/15/60-06/15/60	1	260.	260.	260.	260.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	06/15/60-06/15/60	1	317.	317.	317.	317.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/15/60-06/15/60	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/15/60-06/15/60	1	627.	627.	627.	627.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/15/60-06/15/60	1	367.	367.	367.	367.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/15/60-06/15/60	1	111.	111.	111.	111.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/15/60-06/15/60	1	85.	85.	85.	85.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/15/60-06/15/60	1	1800.	1800.	1800.	1800.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	06/15/60-06/15/60	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	06/15/60-06/15/60	1	85.	85.	85.	85.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/15/60-06/15/60	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/15/60-06/15/60	1	2320.	2320.	2320.	2320.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/15/60-06/15/60	1	558.	558.	558.	558.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/15/60-06/15/60	1	4830.	4830.	4830.	4830.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0026

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	1	1.00				1	1	1.00						
		Drinking Water	250.	1	1	1.00				1	1	1.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00				1	1	1.00						

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

Station Inventory for Station: GRCA0027

NPS Station ID: GRCA0027
LAT/LON: 36.265365/-111.829392
Agency: 11NPSWRD
Date Created: 02/03/96
Location: KWAGUNT CREEK AT COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): GRCA_KWAG001
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
KWAGUNT CREEK AT COLORADO RIVER. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/05/93-10/14/95	7	21.	22.286	33.	11.	63.238	7.952	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/05/93-10/14/95	7	25.	27.	42.	8.	125.667	11.21	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/05/94-10/14/95	6	0.3	0.433	1.	0.1	0.119	0.344	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/05/93-10/14/95	7	911.	891.714	1021.	755.	6716.238	81.953	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/05/93-10/14/95	7	8.3	8.057	9.	6.8	0.696	0.834	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/05/93-10/14/95	7	103.	102.857	113.	93.	35.81	5.984	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	10/05/93-10/14/95	7	8.8	8.61	9.41	7.5	0.349	0.591	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/05/93-10/14/95	7	8.8	8.201	9.41	7.5	0.544	0.737	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/93-10/14/95	7	0.002	0.006	0.032	0.	0.	0.011	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/05/93-10/14/95	7	266.	277.429	492.	148.	12007.619	109.579	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/05/94-10/08/94	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/05/93-10/08/94	4 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/05/93-10/08/94	4 ##	0.1	0.15	0.3	0.1	0.01	0.1	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/05/93-10/08/94	4 ##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/93-10/08/94	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	05/05/94-10/08/94	3	46.1	48.033	57.9	40.1	82.013	9.056	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/05/94-10/08/94	3	86.5	85.367	87.8	81.8	9.963	3.156	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/05/94-10/08/94	3	41.3	40.567	41.4	39.	1.843	1.358	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/05/94-10/08/94	3	8.	7.967	8.3	7.6	0.123	0.351	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/05/94-10/08/94	3	16.	17.	19.	16.	3.	1.732	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/05/94-10/08/94	3	280.	283.333	290.	280.	33.333	5.774	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	05/05/94-10/08/94	3	0.17	0.17	0.21	0.13	0.002	0.04	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/05/94-05/05/94	1	11.1	11.1	11.1	11.1	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/05/94-10/08/94	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/05/94-10/08/94	3 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/05/94-10/08/94	3 ##	0.25	0.333	0.5	0.25	0.021	0.144	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/05/94-10/08/94	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/05/94-10/08/94	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/05/94-10/08/94	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/05/94-10/08/94	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/05/94-10/08/94	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/05/94-10/08/94	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/05/94-10/08/94	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/05/94-10/08/94	3 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/05/94-10/08/94	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/05/94-10/14/95	6	2.5	2.75	6.	0.5	4.175	2.043	**	**	**	**

** - Less than 9 observations ## - 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: GRCA0027

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	05/05/94-10/14/95	6	0.389	0.31	0.778	-0.301	0.16	0.4	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.04								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/05/94-10/14/95	6	118.5	169.333	440.	38.	22515.067	150.05	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	05/05/94-10/14/95	6	2.056	2.088	2.643	1.58	0.15	0.387	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			122.546								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/05/94-10/14/95	6	620.	599.5	670.	495.	3813.5	61.754	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/05/94-10/08/94	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/05/93-10/14/95	7	0.7	1.571	5.7	0.4	3.612	1.901	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0027

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	7	1	0.14	3	1	0.33	2	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	3	1.00	1	1	1.00	1	1	1.00	1	1	1.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	4.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	1300.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	6	0	0.00	2	0	0.00	2	0	0.00	2	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	2.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	7	0	0.00	3	0	0.00	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: GRCA0028

NPS Station ID: GRCA0028
LAT/LON: 36.518948/-111.844809
Agency: 11NPSWRD
Date Created: 02/03/96
Location: FENCE SPRINGS ON RIVER LEFT
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): GRCA_COLO027
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
ALONG COLORADO RIVER UPSTREAM OF CONFLUENCE WITH SAND CANYON. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/09/92-10/07/94	3	20.5	20.3	21.	19.4	0.67	0.819	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/01/93-10/07/94	2	20.	20.	27.	13.	98.	9.899	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/09/92-10/07/94	3	2200.	1550.667	2250.	202.	1364801.333	1168.247	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/09/92-10/07/94	3	4.6	4.633	6.	3.3	1.823	1.35	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/09/92-10/07/94	3	58.	53.333	59.	43.	80.333	8.963	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	10/09/92-10/07/94	3	6.07	5.927	7.4	4.31	2.402	1.55	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/09/92-10/07/94	3	6.07	4.779	7.4	4.31	4.377	2.092	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/09/92-10/07/94	3	0.851	16.623	48.978	0.04	785.296	28.023	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/09/92-10/07/94	3	462.	514.667	624.	458.	8969.333	94.707	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/07/94-10/07/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/01/93-10/07/94	2 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/01/93-10/07/94	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/01/93-10/07/94	2	0.175	0.175	0.19	0.16	0.	0.021	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/01/93-10/07/94	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/09/92-10/09/92	1	672.	672.	672.	672.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/09/92-10/07/94	2	333.	333.	488.	178.	48050.	219.203	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/09/92-10/07/94	2	114.65	114.65	184.	45.3	9618.845	98.076	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/07/94-10/07/94	1	224.	224.	224.	224.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/07/94-10/07/94	1	21.2	21.2	21.2	21.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/09/92-10/07/94	2	359.	359.	370.	348.	242.	15.556	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/09/92-10/07/94	2	220.	220.	230.	210.	200.	14.142	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/07/94-10/07/94	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/09/92-10/09/92	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/94-10/07/94	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/07/94-10/07/94	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/94-10/07/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/94-10/07/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/07/94-10/07/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/07/94-10/07/94	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	10/07/94-10/07/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/07/94-10/07/94	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/07/94-10/07/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/07/94-10/07/94	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01097	ANTIMONY, TOTAL (UG/L AS SB)	10/07/94-10/07/94	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/94-10/07/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/07/94-10/07/94	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/07/94-10/07/94	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/07/94-10/07/94	1	28.	28.	28.	28.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/07/94-10/07/94	1	1.447	1.447	1.447	1.447	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			28.								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/07/94-10/07/94	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/07/94-10/07/94	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/09/92-10/07/94	3	0.2	0.187	0.3	0.06	0.015	0.121	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0028

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	3	1	0.33	3	1	0.33									
00406	PH, FIELD	Other-Hi Lim.	9.	3	0	0.00	3	0	0.00									
		Other-Lo Lim.	6.5	3	2	0.67	3	2	0.67									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	2	1.00	2	2	1.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	2	0	0.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	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: GRCA0029

NPS Station ID: GRCA0029
LAT/LON: 36.476949/-111.845003
Agency: 112WRD
Date Created: 02/28/78
Location: RM 34.2, GCNP: SPRING
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 362837111504200
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 33.80
On/Off RF1:
RF3 Index: 15010002072700.00
RF3 Mile Point: 0.00
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/29/76-04/29/76	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/29/76-04/29/76	1	360.	360.	360.	360.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/29/76-04/29/76	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/29/76-04/29/76	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/29/76-04/29/76	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
09511	RADIUM 226, DISSOLVED, RADON METHOD	04/29/76-04/29/76	1	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	04/29/76-04/29/76	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0029

			Total	Exceed	Prop.	----------10/01-3/14----------			----------3/15-6/19----------			----------6/20-9/30----------			----------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.	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: GRCA0030

NPS Station ID: GRCA0030
LAT/LON: 36.497781/-111.856393
Agency: 11NPSWRD
Date Created: 02/03/96
Location: VASSEY'S PARADISE - FIRST PLUNGE POOL
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): GRCA_COLO029
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
VASSEY'S PARADISE - FIRST PLUNGE POOL BELOW SPRING MOUTHS. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/24/92-10/13/95	10	15.7	15.26	17.	12.	2.145	1.465	12.17	14.675	16.225	16.93
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/24/92-10/13/95	10	19.75	20.65	35.	3.	78.725	8.873	4.2	16.5	26.625	34.65
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/24/92-10/07/94	9	1.	4.767	25.	0.4	68.73	8.29	0.4	0.75	6.5	25.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/24/92-10/13/95	10	330.	325.5	356.	283.	590.278	24.296	284.3	302.75	345.25	355.3
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/24/92-10/13/95	10	8.8	9.58	15.8	8.4	5.088	2.256	8.4	8.475	9.6	15.24
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/24/92-10/13/95	10	98.	105.5	167.	94.	490.056	22.137	94.	94.75	104.5	161.2
00406	PH, FIELD, STANDARD UNITS SU	05/24/92-10/13/95	10	8.385	8.263	9.1	6.9	0.342	0.585	7.	7.953	8.552	9.052
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/24/92-10/13/95	10	8.384	7.766	9.1	6.9	0.617	0.785	7.	7.952	8.552	9.052
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/24/92-10/13/95	10	0.004	0.017	0.126	0.001	0.001	0.038	0.001	0.003	0.011	0.115
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/24/92-10/13/95	10	184.	192.2	278.	150.	1598.622	39.983	150.6	162.	209.5	274.6
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/24/92-07/01/94	7 ##	5.	12.571	58.	5.	401.286	20.032	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/24/92-07/01/94	7 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/24/92-07/01/94	7 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/24/92-07/01/94	7	0.14	0.137	0.19	0.07	0.002	0.042	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/24/92-07/01/94	7 ##	0.025	0.035	0.07	0.025	0.	0.018	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	05/24/92-07/01/94	7	43.5	41.671	48.5	27.6	45.156	6.72	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/24/92-07/01/94	7	20.4	19.6	21.6	15.9	4.123	2.031	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/24/92-07/01/94	7	1.7	1.686	1.9	1.4	0.031	0.177	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/24/92-07/01/94	7 ##	0.5	0.657	1.1	0.5	0.073	0.27	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/24/92-07/01/94	7	2.	2.429	4.	2.	0.619	0.787	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/24/92-07/01/94	7	7.	6.286	8.	3.	3.905	1.976	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	05/24/92-07/01/94	7	0.08	0.084	0.11	0.06	0.	0.015	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/28/93-02/12/94	3	7.3	7.367	7.5	7.3	0.013	0.115	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/24/92-07/01/94	7 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/24/92-07/01/94	7 ##	2.5	2.429	2.5	2.	0.036	0.189	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/24/92-07/01/94	7 ##	0.25	0.286	0.5	0.25	0.009	0.094	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/24/92-07/01/94	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/24/92-07/01/94	7 ##	5.	6.143	13.	5.	9.143	3.024	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/24/92-07/01/94	7 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/24/92-07/01/94	7 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/24/92-07/01/94	7 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/24/92-07/01/94	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/24/92-07/01/94	7 ##	10.	9.857	19.	5.	21.81	4.67	**	**	**	**

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

Parameter Inventory for Station: GRCA0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/24/92-07/01/94	7 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/24/92-07/01/94	7 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01501	ALPHA, TOTAL	05/24/92-02/12/94	2	2.	2.	2.	2.	0.	0.	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	05/24/92-02/12/94	2	0.9	0.9	1.	0.8	0.02	0.141	**	**	**	**
03501	BETA, TOTAL	05/24/92-02/12/94	2 ##	2.75	2.75	4.	1.5	3.125	1.768	**	**	**	**
03502	BETA, TOTAL, COUNTING ERROR	05/24/92-05/24/92	1	3.	3.	3.	3.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/08/92-10/13/95	9	1.	8.556	58.	0.5	350.653	18.726	0.5	0.5	6.5	58.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/08/92-10/13/95	9	0.	0.293	1.763	-0.301	0.529	0.727	-0.301	-0.301	0.801	1.763
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.964								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/08/92-10/13/95	9	8.	16.333	51.	3.	303.75	17.428	3.	3.	31.5	51.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/08/92-10/13/95	9	0.903	0.981	1.708	0.477	0.231	0.481	0.477	0.477	1.496	1.708
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			9.581								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/24/92-10/13/95	8	190.	184.625	217.	140.	571.125	23.898	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/24/92-07/01/94	7 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	05/24/92-10/13/95	10	0.5	1.08	4.1	0.2	1.544	1.243	0.21	0.375	1.425	3.93

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

EPA Water Quality Criteria Analysis for Station: GRCA0030

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	10	0	0.00	5	0	0.00	3	0	0.00	2	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	10	1	0.10	5	1	0.20	3	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	10	0	0.00	5	0	0.00	3	0	0.00	2	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	250.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	4.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	1300.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	15.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	100.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5000.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	0	0.00	5	0	0.00	2	0	0.00	2	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	10	0	0.00	5	0	0.00	3	0	0.00	2	0	0.00			

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

Station Inventory for Station: GRCA0031

NPS Station ID: GRCA0031
LAT/LON: 36.499170/-111.857226
Agency: 112WRD
Date Created: 02/28/78
Location: N14 VASEY'S PARADISE, RM31.9
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 362957111512600
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 1.30
On/Off RF1:
RF3 Index: 15010001000501.80
RF3 Mile Point: 4.08
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/29/76-11/20/81	2	16.	16.	18.	14.	8.	2.828	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/20/81-11/20/81	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/29/76-11/20/81	2	346.	346.	352.	340.	72.	8.485	**	**	**	**
00400	PH (STANDARD UNITS)	04/29/76-04/29/76	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/29/76-04/29/76	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/29/76-04/29/76	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/20/81-11/20/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/20/81-11/20/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/81-11/20/81	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/20/81-11/20/81	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/20/81-11/20/81	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/20/81-11/20/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/20/81-11/20/81	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/20/81-11/20/81	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/81-11/20/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/81-11/20/81	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/20/81-11/20/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/20/81-11/20/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/81-11/20/81	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/20/81-11/20/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/20/81-11/20/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/81-11/20/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/81-11/20/81	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/20/81-11/20/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/20/81-11/20/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	11/20/81-11/20/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	11/20/81-11/20/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/20/81-11/20/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	11/20/81-11/20/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/81-11/20/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/20/81-11/20/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/20/81-11/20/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/20/81-11/20/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/20/81-11/20/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/20/81-11/20/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/20/81-11/20/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
09511	RADIUM 226, DISSOLVED, RADON METHOD	04/29/76-04/29/76	1	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/20/81-11/20/81	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

Parameter Inventory for Station: GRCA0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/20/81-11/20/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/20/81-11/20/81	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/20/81-11/20/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/20/81-11/20/81	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			2.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/20/81-11/20/81	1	189.	189.	189.	189.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/20/81-11/20/81	1	195.	195.	195.	195.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	11/20/81-11/20/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	04/29/76-04/29/76	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0031

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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									
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									
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									
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									
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									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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									
80020	URANIUM, DISS. BY EXTRACTION FLUOROMETRI	Drinking Water	20.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0032

NPS Station ID: GRCA0032
LAT/LON: 36.499170/-111.857226
Agency: 112WRD
Date Created: 02/28/78
Location: A-36-05 27B UNSURV
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 362957111512601
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 1.00
On/Off RF1:
RF3 Index: 15010001000501.76
RF3 Mile Point: 1.75
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/65-06/20/65	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/20/65-06/20/65	1	308.	308.	308.	308.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/65-06/20/65	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/65-06/20/65	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/65-06/20/65	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	06/20/65-06/20/65	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/65-06/20/65	1	164.	164.	164.	164.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	06/20/65-06/20/65	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/20/65-06/20/65	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/20/65-06/20/65	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/20/65-06/20/65	1	160.	160.	160.	160.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/20/65-06/20/65	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/20/65-06/20/65	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/20/65-06/20/65	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/20/65-06/20/65	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	06/20/65-06/20/65	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	06/20/65-06/20/65	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/20/65-06/20/65	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/20/65-06/20/65	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/20/65-06/20/65	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/20/65-06/20/65	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/20/65-06/20/65	1	163.	163.	163.	163.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/20/65-06/20/65	1	0.22	0.22	0.22	0.22	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	06/20/65-06/20/65	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0032

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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: GRCA0032

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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: GRCA0033

NPS Station ID: GRCA0033
LAT/LON: 36.305753/-111.857616
Agency: 11NPSWRD
Date Created: 02/03/96
Location: NANKOWEAP CREEK AT COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): GRCA_NANK001
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
NANKOWEAP CREEK AT COLORADO RIVER. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/92-10/14/95	11	19.9	19.282	29.	7.	61.088	7.816	7.6	10.5	27.5	28.8
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/09/92-10/14/95	11	23.	24.764	39.	12.	111.857	10.576	12.04	13.	38.	38.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/92-10/14/95	11	1.	2.609	8.	0.8	5.757	2.399	0.82	1.	5.	7.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/09/92-10/14/95	11	620.	612.	718.	499.	3327.2	57.682	507.4	595.	649.	705.8
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/09/92-10/14/95	11	8.5	8.618	11.7	6.5	2.388	1.545	6.62	7.1	9.5	11.48
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/09/92-10/14/95	11	100.	103.273	120.	93.	85.218	9.231	93.4	96.	109.	119.6
00406	PH, FIELD, STANDARD UNITS SU	06/09/92-10/14/95	11	8.64	8.627	9.7	7.7	0.324	0.57	7.76	8.01	8.97	9.6
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/09/92-10/14/95	11	8.64	8.321	9.7	7.7	0.428	0.654	7.76	8.01	8.97	9.6
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/09/92-10/14/95	11	0.002	0.005	0.02	0.	0.	0.006	0.	0.001	0.01	0.018
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/09/92-10/14/95	11	238.	243.455	386.	134.	4139.273	64.337	144.	212.	280.	365.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/09/92-10/08/94	8 ##	5.	5.875	12.	5.	6.125	2.475	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/09/92-10/08/94	8 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/09/92-10/08/94	8 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/09/92-10/08/94	8 ##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/09/92-10/08/94	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/09/92-06/09/92	1	260.	260.	260.	260.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/09/92-10/08/94	8	38.95	40.525	56.	31.2	58.276	7.634	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/09/92-10/08/94	8	52.4	52.113	57.1	45.7	15.181	3.896	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/09/92-10/08/94	8	20.55	19.613	23.2	14.8	7.93	2.816	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/09/92-10/08/94	8	4.35	4.338	4.5	4.2	0.017	0.13	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/09/92-10/08/94	8	9.5	9.125	10.	7.	1.268	1.126	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/09/92-10/08/94	8	105.	238.25	1200.	66.	151421.357	389.129	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/09/92-10/08/94	8	0.145	0.149	0.18	0.12	0.	0.018	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/11/92-05/04/94	5	9.	8.54	9.8	6.	2.358	1.536	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/09/92-10/08/94	8 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/09/92-10/08/94	8 ##	2.5	2.313	2.5	2.	0.067	0.259	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/09/92-10/08/94	8 ##	0.25	0.281	0.5	0.25	0.008	0.088	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/09/92-10/08/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/09/92-10/08/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/09/92-10/08/94	8 ##	1.	1.125	2.	1.	0.125	0.354	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/09/92-10/08/94	8 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/09/92-10/08/94	8 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/09/92-10/08/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/09/92-10/08/94	8 ##	10.	9.625	12.	5.	3.982	1.996	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/09/92-10/08/94	8 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/09/92-10/08/94	8 ##	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

Parameter Inventory for Station: GRCA0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01501	ALPHA, TOTAL	06/09/92-02/12/94	2 ##	3.5	3.5	5.	2.	4.5	2.121	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	06/09/92-06/09/92	1	4.	4.	4.	4.	0.	0.	**	**	**	**
03501	BETA, TOTAL	06/09/92-02/12/94	2 ##	7.5	7.5	12.	3.	40.5	6.364	**	**	**	**
03502	BETA, TOTAL, COUNTING ERROR	06/09/92-06/09/92	1	3.	3.	3.	3.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/09/92-10/14/95	10	4.5	5.55	12.	0.5	17.914	4.232	0.55	1.75	10.25	11.9
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/09/92-10/14/95	10	0.651	0.574	1.079	-0.301	0.214	0.462	-0.271	0.226	1.01	1.075
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.753								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/09/92-10/14/95	10	51.	49.7	113.	9.	990.9	31.479	9.8	22.25	66.	109.8
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/09/92-10/14/95	10	1.706	1.599	2.053	0.954	0.111	0.333	0.982	1.343	1.816	2.039
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			39.745								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/09/92-10/14/95	11	380.	372.727	440.	286.	2421.018	49.204	286.8	340.	410.	434.8
71900	MERCURY, TOTAL (UG/L AS HG)	06/09/92-10/08/94	8 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/09/92-10/14/95	11	0.5	3.245	21.6	0.2	40.955	6.4	0.22	0.3	5.3	18.36

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

EPA Water Quality Criteria Analysis for Station: GRCA0033

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	11	0	0.00	5	0	0.00	3	0	0.00	3	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	11	2	0.18	5	1	0.20	3	0	0.00	3	1	0.33			
		Other-Lo Lim.	6.5	11	0	0.00	5	0	0.00	3	0	0.00	3	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	250.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	8	1	0.13	4	1	0.25	2	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	4.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	1300.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	15.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	100.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5000.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	10	0	0.00	4	0	0.00	3	0	0.00	3	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	11	0	0.00	5	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: GRCA0034

NPS Station ID: GRCA0034 LAT/LON: 36.304726/-111.858892 Agency: 112WRD Date Created: 07/30/76
Location: NANKONEAP CREEK 100 MET FROM MOUTH OF COL RIVER FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 361817111513200
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 15010001 RF1 Mile Point: 0.000 Distance from RF1: 2.10 On/Off RF1:
RF3 Index: 15010002002900.00 RF3 Mile Point: 0.00 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/76-04/30/76	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/76-04/30/76	1	660.	660.	660.	660.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	04/30/76-04/30/76	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	04/30/76-04/30/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01015	BISMUTH, DISSOLVED (UG/L AS BI)	04/30/76-04/30/76	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	04/30/76-04/30/76	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/30/76-04/30/76	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/30/76-04/30/76	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	04/30/76-04/30/76	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/30/76-04/30/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/30/76-04/30/76	1	330.	330.	330.	330.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/30/76-04/30/76	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/30/76-04/30/76	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/30/76-04/30/76	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	04/30/76-04/30/76	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	04/30/76-04/30/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	04/30/76-04/30/76	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	04/30/76-04/30/76	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/30/76-04/30/76	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01100	TIN, DISSOLVED (UG/L AS SN)	04/30/76-04/30/76	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/30/76-04/30/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01120	GALLIUM, DISSOLVED (UG/L AS GA)	04/30/76-04/30/76	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	04/30/76-04/30/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	04/30/76-04/30/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	04/30/76-04/30/76	1 ##	4.	4.	4.	4.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	04/30/76-04/30/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	04/30/76-04/30/76	1	1.9	1.9	1.9	1.9	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: GRCA0034

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						

& - 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: GRCA0034

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0035

NPS Station ID: GRCA0035
LAT/LON: 36.309726/-111.859726
Agency: 21AZRWTR
Date Created: 08/27/94
Location: NANKOWEAP CR. AZ/NM PLATEAU
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): NAN1-00RF
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 2800
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0035

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: GRCA0036

NPS Station ID: GRCA0036 LAT/LON: 36.079337/-111.875198 Agency: 11NPSWRD Date Created: 02/03/96
Location: COLORADO RIVER CONFLUENCE WITH UNKAR CREEK FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): GRCA_UNKA001
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010001 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
COLORADO RIVER CONFLUENCE WITH UNKAR CREEK. SITE IS LOCATED ON THE VISHNU TEMPLE USGS 15 QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/17/95-06/17/95	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/17/95-06/17/95	1	1032.	1032.	1032.	1032.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/17/95-06/17/95	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/17/95-06/17/95	1	102.	102.	102.	102.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/17/95-06/17/95	1	6.99	6.99	6.99	6.99	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/17/95-06/17/95	1	6.99	6.99	6.99	6.99	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/17/95-06/17/95	1	0.102	0.102	0.102	0.102	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/17/95-06/17/95	1	224.	224.	224.	224.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/95-06/17/95	1	28.	28.	28.	28.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/95-06/17/95	1	1.447	1.447	1.447	1.447	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			28.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/17/95-06/17/95	1	190.	190.	190.	190.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/17/95-06/17/95	1	2.279	2.279	2.279	2.279	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			190.								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/17/95-06/17/95	1	699.	699.	699.	699.	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/17/95-06/17/95	1	11.4	11.4	11.4	11.4	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0036

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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						
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00				1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0037

NPS Station ID: GRCA0037
LAT/LON: 36.398337/-111.885282
Agency: 112WRD
Date Created: 01/07/89
Location: A-35-05 32D UNSURV
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 362354111530701
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC:
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index:
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 15010004078709.57
RF3 Mile Point: 10.48
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0037

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: GRCA0038

NPS Station ID: GRCA0038 LAT/LON: 36.288892/-111.886392 Agency: 112WRD Date Created: 02/27/82
Location: N7 NANKOWEAP CRK BLW SPRINGS, 2 MI ABV MOUTH FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 361720111531110
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 15010001 RF1 Mile Point: 0.000 Distance from RF1: 19.70 On/Off RF1:
RF3 Index: 14070006002402.49 RF3 Mile Point: 2.49 Distance from RF3: 1.81 On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/81-11/20/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/20/81-11/20/81	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/20/81-11/20/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/81-11/20/81	1	725.	725.	725.	725.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/20/81-11/20/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/20/81-11/20/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/81-11/20/81	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/20/81-11/20/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/20/81-11/20/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/81-11/20/81	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/20/81-11/20/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/20/81-11/20/81	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/20/81-11/20/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/20/81-11/20/81	1	340.	340.	340.	340.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/20/81-11/20/81	1	53.	53.	53.	53.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/81-11/20/81	1	51.	51.	51.	51.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/81-11/20/81	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/20/81-11/20/81	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/20/81-11/20/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/81-11/20/81	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/20/81-11/20/81	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/20/81-11/20/81	1	120.	120.	120.	120.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/81-11/20/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/81-11/20/81	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/20/81-11/20/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/20/81-11/20/81	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	11/20/81-11/20/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	11/20/81-11/20/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/20/81-11/20/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	11/20/81-11/20/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/81-11/20/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/20/81-11/20/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/20/81-11/20/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/20/81-11/20/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/20/81-11/20/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/20/81-11/20/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/20/81-11/20/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/20/81-11/20/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/20/81-11/20/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/20/81-11/20/81	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/20/81-11/20/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/20/81-11/20/81	1	0.602	0.602	0.602	0.602	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			4.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/20/81-11/20/81	1	375.	375.	375.	375.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/20/81-11/20/81	1	414.	414.	414.	414.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/20/81-11/20/81	1	0.94	0.94	0.94	0.94	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/20/81-11/20/81	1	0.51	0.51	0.51	0.51	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	11/20/81-11/20/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0038

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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									
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									
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									
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									
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									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0039

NPS Station ID: GRCA0039 LAT/LON: 36.361588/-111.902809 Agency: 11NPSWRD Date Created: 02/03/96
Location: COLORADO RIVER CONFLUENCE WITH SADDLE CANYON FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): GRCA_SADD002
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010001 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
COLORADO RIVER CONFLUENCE WITH SADDLE CANYON. SITE IS LOCATED ON THE POINT IMPERIAL USGS 7.5 QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/92-10/14/95	7	15.	15.557	21.7	11.	10.893	3.3	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/09/92-10/14/95	7	19.	19.9	33.	13.	40.503	6.364	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/92-10/14/95	5	0.1	0.108	0.2	0.02	0.008	0.09	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/09/92-10/14/95	6	413.	403.	427.	363.	653.6	25.566	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/09/92-10/14/95	7	8.2	8.086	9.	7.1	0.708	0.841	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/09/92-10/14/95	7	96.	94.286	100.	85.	35.238	5.936	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/09/92-10/14/95	7	8.45	8.447	8.8	7.9	0.088	0.297	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/09/92-10/14/95	7	8.45	8.349	8.8	7.9	0.1	0.316	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/09/92-10/14/95	7	0.004	0.004	0.013	0.002	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/09/92-10/14/95	7	220.	217.429	250.	186.	711.619	26.676	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/04/94-05/04/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/28/93-05/04/94	3 ##	0.015	0.057	0.14	0.015	0.005	0.072	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/03/93-05/04/94	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/03/93-05/04/94	2	0.17	0.17	0.21	0.13	0.003	0.057	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/10/92-06/28/93	2	0.23	0.23	0.41	0.05	0.065	0.255	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/94-05/04/94	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/92-10/10/92	1	228.	228.	228.	228.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/10/92-05/04/94	2	80.65	80.65	116.	45.3	2499.245	49.992	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/10/92-05/04/94	2	69.8	69.8	112.	27.6	3561.68	59.68	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/04/94-05/04/94	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/04/94-05/04/94	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/10/92-05/04/94	2 ##	4.625	4.625	9.	0.25	38.281	6.187	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/10/92-05/04/94	3	15.	15.667	18.	14.	4.333	2.082	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	05/04/94-05/04/94	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/94-05/04/94	1	10.1	10.1	10.1	10.1	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/04/94-05/04/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/04/94-05/04/94	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/04/94-05/04/94	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/04/94-05/04/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/04/94-05/04/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/04/94-05/04/94	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/04/94-05/04/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/04/94-05/04/94	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01077	SILVER, TOTAL (UG/L AS AG)	05/04/94-05/04/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/04/94-05/04/94	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/04/94-05/04/94	1 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/04/94-05/04/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/09/92-10/14/95	6	8.	26.417	71.	0.5	1186.642	34.448	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/09/92-10/14/95	6	0.796	0.831	1.851	-0.301	0.849	0.922	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.777								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/09/92-10/14/95	7	75.	352.143	1530.	34.	313113.81	559.566	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/09/92-10/14/95	7	1.875	2.124	3.185	1.531	0.378	0.615	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			133.131								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/04/94-10/14/95	3	256.	251.333	278.	220.	857.333	29.28	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/10/92-10/10/92	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/04/94-05/04/94	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/09/92-10/14/95	7	3.3	3.771	9.6	0.4	11.882	3.447	**	**	**	**

** - 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: GRCA0039

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	7	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	7	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00	1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	250.	2	0	0.00	1	0	0.00	1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00				1	0	0.00						
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	7	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00			

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

Station Inventory for Station: GRCA0040

NPS Station ID: GRCA0040
LAT/LON: 36.021948/-111.930838
Agency: 112WRD
Date Created: 12/02/81
Location: VTGS1 RED CN AT TONTO TR
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360119111555110
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 4.70
On/Off RF1:
RF3 Index: 14070006002402.49
RF3 Mile Point: 2.83
Distance from RF3: 0.16
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/81-09/01/81	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	09/01/81-09/01/81	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/01/81-09/01/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/01/81-09/01/81	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/81-09/01/81	1	810.	810.	810.	810.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/01/81-09/01/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/01/81-09/01/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/81-09/01/81	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/01/81-09/01/81	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/01/81-09/01/81	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/81-09/01/81	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/01/81-09/01/81	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/01/81-09/01/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/01/81-09/01/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/01/81-09/01/81	1	360.	360.	360.	360.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/81-09/01/81	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/81-09/01/81	1	65.	65.	65.	65.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/01/81-09/01/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/01/81-09/01/81	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/01/81-09/01/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/01/81-09/01/81	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/01/81-09/01/81	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/01/81-09/01/81	1	160.	160.	160.	160.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/01/81-09/01/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/01/81-09/01/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/01/81-09/01/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/01/81-09/01/81	1	190.	190.	190.	190.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/01/81-09/01/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/81-09/01/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/01/81-09/01/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/81-09/01/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/81-09/01/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/81-09/01/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/01/81-09/01/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/81-09/01/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/01/81-09/01/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/01/81-09/01/81	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

Parameter Inventory for Station: GRCA0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
22703	URANIUM, NATURAL, DISSOLVED	09/01/81-09/01/81	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	1	38.	38.	38.	38.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	1	1.58	1.58	1.58	1.58	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			38.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	1	1110.	1110.	1110.	1110.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	1	3.045	3.045	3.045	3.045	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			1110.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/01/81-09/01/81	1	499.	499.	499.	499.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/01/81-09/01/81	1	472.	472.	472.	472.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/01/81-09/01/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/01/81-09/01/81	1	0.68	0.68	0.68	0.68	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/01/81-09/01/81	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

EPA Water Quality Criteria Analysis for Station: GRCA0040

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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			
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			
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			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0041

NPS Station ID: GRCA0041
LAT/LON: 36.020003/-111.959727
Agency: 112WRD
Date Created: 01/23/82
Location: VT43 HANCE CN AT TONTO TR
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360112111573510
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010001002004.38
RF3 Mile Point: 5.48
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/81-09/01/81	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/01/81-09/01/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/01/81-09/01/81	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/81-09/01/81	1	750.	750.	750.	750.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/01/81-09/01/81	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/01/81-09/01/81	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/81-09/01/81	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/01/81-09/01/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/01/81-09/01/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/81-09/01/81	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/01/81-09/01/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/01/81-09/01/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/01/81-09/01/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/01/81-09/01/81	1	380.	380.	380.	380.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/81-09/01/81	1	71.	71.	71.	71.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/81-09/01/81	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/01/81-09/01/81	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/01/81-09/01/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/01/81-09/01/81	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/01/81-09/01/81	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/01/81-09/01/81	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/01/81-09/01/81	1	98.	98.	98.	98.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/01/81-09/01/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/01/81-09/01/81	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/01/81-09/01/81	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/01/81-09/01/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/81-09/01/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/81-09/01/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/01/81-09/01/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/81-09/01/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/01/81-09/01/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/01/81-09/01/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/01/81-09/01/81	1	3.6	3.6	3.6	3.6	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

Parameter Inventory for Station: GRCA0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	1	5.	5.	5.	5.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	1	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			5.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	1	121.	121.	121.	121.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	1	2.083	2.083	2.083	2.083	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			121.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/01/81-09/01/81	1	412.	412.	412.	412.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/01/81-09/01/81	1	415.	415.	415.	415.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/01/81-09/01/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/01/81-09/01/81	1	0.56	0.56	0.56	0.56	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/01/81-09/01/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRCA0041

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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			
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			
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			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0042

NPS Station ID: GRCA0042 LAT/LON: 36.016366/-111.971004 Agency: 11NPSWRD Date Created: 02/03/96
Location: MINER SPRING EAST SIDE HORSESHOE MESA FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): GRCA_MINR002
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010001 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
MINER SPRING AT EAST SIDE OF HORSESHOE MESA "NECK". STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/20/94-03/20/94	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/20/94-03/20/94	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/20/94-03/20/94	1	373.	373.	373.	373.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/20/94-03/20/94	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	03/20/94-03/20/94	1	90.	90.	90.	90.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	03/20/94-03/20/94	1	7.52	7.52	7.52	7.52	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	03/20/94-03/20/94	1	7.52	7.52	7.52	7.52	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/20/94-03/20/94	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/20/94-03/20/94	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/20/94-03/20/94	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/20/94-03/20/94	1	0.64	0.64	0.64	0.64	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/20/94-03/20/94	1	43.	43.	43.	43.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/20/94-03/20/94	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	03/20/94-03/20/94	1	0.9	0.9	0.9	0.9	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: GRCA0042

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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						
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0043

NPS Station ID: GRCA0043
LAT/LON: 36.016392/-111.971392
Agency: 112WRD
Date Created: 04/24/82
Location: VT9 MINERS SP AT TRAIL IN HANCE CN
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 360059111581700
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 0.60
On/Off RF1:
RF3 Index: 15010002001213.01
RF3 Mile Point: 13.01
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/81-11/20/81	1	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/20/81-11/20/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/20/81-11/20/81	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/81-11/20/81	1	425.	425.	425.	425.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/20/81-11/20/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/20/81-11/20/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/81-11/20/81	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/20/81-11/20/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/20/81-11/20/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/81-11/20/81	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/20/81-11/20/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/20/81-11/20/81	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/20/81-11/20/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/20/81-11/20/81	1	190.	190.	190.	190.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/20/81-11/20/81	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/81-11/20/81	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/81-11/20/81	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/20/81-11/20/81	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/20/81-11/20/81	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/81-11/20/81	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/20/81-11/20/81	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/20/81-11/20/81	1	49.	49.	49.	49.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/81-11/20/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/81-11/20/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/20/81-11/20/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/20/81-11/20/81	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	11/20/81-11/20/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	11/20/81-11/20/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/20/81-11/20/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	11/20/81-11/20/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/81-11/20/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/20/81-11/20/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/20/81-11/20/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/20/81-11/20/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/20/81-11/20/81	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/20/81-11/20/81	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/20/81-11/20/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/20/81-11/20/81	1	3.9	3.9	3.9	3.9	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

Parameter Inventory for Station: GRCA0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/20/81-11/20/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/20/81-11/20/81	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/20/81-11/20/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/20/81-11/20/81	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			0.5								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/20/81-11/20/81	1	239.	239.	239.	239.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/20/81-11/20/81	1	238.	238.	238.	238.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	11/20/81-11/20/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0043

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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									
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									
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									
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									
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									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0044

NPS Station ID: GRCA0044
LAT/LON: 36.023615/-111.987227
Agency: 112WRD
Date Created: 01/23/82
Location: VT11 COTTONWOOD CRK TRIB AT TONTO TR
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360125111591410
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 14.90
On/Off RF1:
RF3 Index: 15010001049000.00
RF3 Mile Point: 0.00
Distance from RF3: 0.77
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/81-09/02/81	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	09/02/81-09/02/81	1	0.45	0.45	0.45	0.45	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/02/81-09/02/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/02/81-09/02/81	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/02/81-09/02/81	1	785.	785.	785.	785.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/02/81-09/02/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/02/81-09/02/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/02/81-09/02/81	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/02/81-09/02/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/02/81-09/02/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/02/81-09/02/81	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/02/81-09/02/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/02/81-09/02/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/02/81-09/02/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/02/81-09/02/81	1	390.	390.	390.	390.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/02/81-09/02/81	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/02/81-09/02/81	1	51.	51.	51.	51.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/02/81-09/02/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/02/81-09/02/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/02/81-09/02/81	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/02/81-09/02/81	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/02/81-09/02/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/02/81-09/02/81	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/02/81-09/02/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/02/81-09/02/81	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/02/81-09/02/81	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/02/81-09/02/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/02/81-09/02/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/02/81-09/02/81	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/02/81-09/02/81	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/02/81-09/02/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/02/81-09/02/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/02/81-09/02/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/02/81-09/02/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/02/81-09/02/81	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

Parameter Inventory for Station: GRCA0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
22703	URANIUM, NATURAL, DISSOLVED	09/02/81-09/02/81	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/02/81-09/02/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			1.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/02/81-09/02/81	1	14.	14.	14.	14.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/02/81-09/02/81	1	1.146	1.146	1.146	1.146	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			14.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/02/81-09/02/81	1	356.	356.	356.	356.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/02/81-09/02/81	1	358.	358.	358.	358.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/02/81-09/02/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/02/81-09/02/81	1	0.48	0.48	0.48	0.48	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/02/81-09/02/81	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

EPA Water Quality Criteria Analysis for Station: GRCA0044

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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			
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			
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			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0045

NPS Station ID: GRCA0045 LAT/LON: 36.023448/-111.987698 Agency: 11NPSWRD Date Created: 02/03/96
Location: SPRING IN SOUTH ARM COTTONWOOD CANYON FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): GRCA_COTT004
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010001 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
SPRING 0.2 MILES UP WEST FORK OF SOUTH ARM OF COTTONWOOD CANYON. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK 520-638-7905.

Parameter Inventory for Station: GRCA0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/23/94-04/23/94	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/94-04/23/94	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/23/94-04/23/94	1	606.	606.	606.	606.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/23/94-04/23/94	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/23/94-04/23/94	1	87.	87.	87.	87.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	04/23/94-04/23/94	1	7.55	7.55	7.55	7.55	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	04/23/94-04/23/94	1	7.55	7.55	7.55	7.55	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/23/94-04/23/94	1	0.028	0.028	0.028	0.028	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/23/94-04/23/94	1	362.	362.	362.	362.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/23/94-04/23/94	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/23/94-04/23/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/23/94-04/23/94	1	37.	37.	37.	37.	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/23/94-04/23/94	1	1.7	1.7	1.7	1.7	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: GRCA0045

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	1	0	0.00				1	0	0.00						
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0046

NPS Station ID: GRCA0046 LAT/LON: 36.037809/-111.996810 Agency: 11NPSWRD Date Created: 02/03/96
Location: UNNAMED SPRING IN COTTONWOOD CANYON FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): GRCA_COTT002
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010001 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
UNNAMED SPRING 0.5 MILES UP WEST ARM OF COTTONWOOD CANYON. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK 520-638-7905.

Parameter Inventory for Station: GRCA0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/94-04/24/94	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/24/94-04/24/94	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/24/94-04/24/94	1	1322.	1322.	1322.	1322.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/24/94-04/24/94	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/24/94-04/24/94	1	105.	105.	105.	105.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	04/24/94-04/24/94	1	7.81	7.81	7.81	7.81	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	04/24/94-04/24/94	1	7.81	7.81	7.81	7.81	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/94-04/24/94	1	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/94-04/24/94	1	510.	510.	510.	510.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/94-04/24/94	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/24/94-04/24/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/24/94-04/24/94	1	75.	75.	75.	75.	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/24/94-04/24/94	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: GRCA0046

				Total	Exceed	Prop.	----------10/01-3/14----------			----------3/15-6/19----------			----------6/20-9/30----------			--------------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.	1	0	0.00				1	0	0.00						
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0047

NPS Station ID: GRCA0047
LAT/LON: 36.114170/-112.011116
Agency: 112WRD
Date Created: 01/23/82
Location: BA82 CLEAR CRK AT CLEAR CRK TR
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360651112004010
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 9.80
On/Off RF1:
RF3 Index: 15010002084400.00
RF3 Mile Point: 1.13
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/81-09/02/81	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/02/81-09/02/81	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/02/81-09/02/81	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/02/81-09/02/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/02/81-09/02/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/02/81-09/02/81	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/02/81-09/02/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/02/81-09/02/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/02/81-09/02/81	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/02/81-09/02/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/02/81-09/02/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/02/81-09/02/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/02/81-09/02/81	1	210.	210.	210.	210.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/02/81-09/02/81	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/02/81-09/02/81	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/02/81-09/02/81	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/02/81-09/02/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/02/81-09/02/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/02/81-09/02/81	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/02/81-09/02/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/02/81-09/02/81	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/02/81-09/02/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/02/81-09/02/81	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/02/81-09/02/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/02/81-09/02/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/02/81-09/02/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/02/81-09/02/81	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/02/81-09/02/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/02/81-09/02/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/02/81-09/02/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/02/81-09/02/81	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/02/81-09/02/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/02/81-09/02/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/02/81-09/02/81	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

Parameter Inventory for Station: GRCA0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/02/81-09/02/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/02/81-09/02/81	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			2.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/02/81-09/02/81	1	92.	92.	92.	92.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/02/81-09/02/81	1	1.964	1.964	1.964	1.964	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			92.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/02/81-09/02/81	1	207.	207.	207.	207.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/02/81-09/02/81	1	205.	205.	205.	205.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/02/81-09/02/81	1	0.73	0.73	0.73	0.73	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/02/81-09/02/81	1	0.28	0.28	0.28	0.28	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/02/81-09/02/81	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

EPA Water Quality Criteria Analysis for Station: GRCA0047

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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			
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			
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			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0048

NPS Station ID: GRCA0048 | LAT/LON: 36.041281/-112.012392 | Agency: 11NPSWRD | Date Created: 02/03/96
Location: GRAPEVINE CANYON SPRINGS | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): GRCA_GRAP003
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE COLORADO RIVER | ECO Region:
RF1 Index: 15010001 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
GRAPEVINE CANYON SPRINGS. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/24/94-04/24/94	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/24/94-04/24/94	1	18.5	18.5	18.5	18.5	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/24/94-04/24/94	1	820.	820.	820.	820.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	04/24/94-04/24/94	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	04/24/94-04/24/94	1	102.	102.	102.	102.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	04/24/94-04/24/94	1	7.65	7.65	7.65	7.65	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	04/24/94-04/24/94	1	7.65	7.65	7.65	7.65	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/24/94-04/24/94	1	0.022	0.022	0.022	0.022	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/94-04/24/94	1	194.	194.	194.	194.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/24/94-04/24/94	1	0.28	0.28	0.28	0.28	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/24/94-04/24/94	1	75.	75.	75.	75.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/24/94-04/24/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/24/94-04/24/94	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: GRCA0048

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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						
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0049

NPS Station ID: GRCA0049
LAT/LON: 36.035837/-112.021392
Agency: 112WRD
Date Created: 12/19/81
Location: BA80 GRAPEVINE CRK AT TONTO TR
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360209112011710
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 14070006002400.02
RF3 Mile Point: 0.02
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0049

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/81-09/02/81	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	09/02/81-09/02/81	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/02/81-09/02/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/02/81-09/02/81	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/02/81-09/02/81	1	560.	560.	560.	560.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/02/81-09/02/81	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/02/81-09/02/81	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/02/81-09/02/81	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/02/81-09/02/81	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/02/81-09/02/81	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/02/81-09/02/81	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/02/81-09/02/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/02/81-09/02/81	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/02/81-09/02/81	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/02/81-09/02/81	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/02/81-09/02/81	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/02/81-09/02/81	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/02/81-09/02/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/02/81-09/02/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/02/81-09/02/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/02/81-09/02/81	1	3.7	3.7	3.7	3.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/02/81-09/02/81	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/02/81-09/02/81	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/02/81-09/02/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/02/81-09/02/81	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/02/81-09/02/81	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/02/81-09/02/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/02/81-09/02/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/02/81-09/02/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/02/81-09/02/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/02/81-09/02/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/02/81-09/02/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/02/81-09/02/81	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/02/81-09/02/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/02/81-09/02/81	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: GRCA0049

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
22703	URANIUM, NATURAL, DISSOLVED	09/02/81-09/02/81	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/02/81-09/02/81	1	18.	18.	18.	18.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/02/81-09/02/81	1	1.255	1.255	1.255	1.255	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			18.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/02/81-09/02/81	1	29.	29.	29.	29.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/02/81-09/02/81	1	1.462	1.462	1.462	1.462	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			29.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/02/81-09/02/81	1	309.	309.	309.	309.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/02/81-09/02/81	1	293.	293.	293.	293.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/02/81-09/02/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/02/81-09/02/81	1	0.42	0.42	0.42	0.42	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/02/81-09/02/81	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

EPA Water Quality Criteria Analysis for Station: GRCA0049

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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			
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			
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			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0050

NPS Station ID: GRCA0050 LAT/LON: 36.195253/-112.034393 Agency: 11NPSWRD Date Created: 02/03/96
Location: ROARING SPRINGS FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): GRCA_ROAR002
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010001 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
ROARING SPRINGS. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/93-05/20/94	2	9.75	9.75	10.5	9.	1.125	1.061	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/17/93-05/20/94	2	14.	14.	18.	10.	32.	5.657	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/20/94-05/20/94	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/17/93-05/20/94	2	262.5	262.5	306.	219.	3784.5	61.518	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	11/17/93-05/20/94	2	9.05	9.05	9.7	8.4	0.845	0.919	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	11/17/93-05/20/94	2	95.5	95.5	100.	91.	40.5	6.364	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	11/17/93-05/20/94	2	7.985	7.985	8.1	7.87	0.026	0.163	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	11/17/93-05/20/94	2	7.97	7.97	8.1	7.87	0.027	0.164	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/17/93-05/20/94	2	0.011	0.011	0.013	0.008	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/17/93-05/20/94	2	201.	201.	310.	92.	23762.	154.149	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/17/93-11/17/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/17/93-11/17/93	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/17/93-11/17/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	11/17/93-05/20/94	2	3.2	3.2	5.8	0.6	13.52	3.677	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0050

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00	1	0	0.00						
00406	PH, FIELD	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00	1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	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: GRCA0051

NPS Station ID: GRCA0051
LAT/LON: 36.195281/-112.035281
Agency: 112WRD
Date Created: 02/28/78
Location: A-32-03 01C UNSURV
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 361143112020701
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 0.50
On/Off RF1:
RF3 Index: 15010002111300.00
RF3 Mile Point: 0.00
Distance from RF3: 0.16
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/11/61-11/11/61	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/11/61-11/11/61	1	309.	309.	309.	309.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/11/61-11/11/61	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/11/61-11/11/61	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/11/61-11/11/61	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	11/11/61-11/11/61	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/11/61-11/11/61	1	162.	162.	162.	162.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/11/61-11/11/61	1	197.	197.	197.	197.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	11/11/61-11/11/61	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/11/61-11/11/61	1	170.	170.	170.	170.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/11/61-11/11/61	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/11/61-11/11/61	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: GRCA0051

				Total	Exceed	Prop.	----------10/01-3/14----------			----------3/15-6/19----------			----------6/20-9/30----------			--------------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.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRCA0052

NPS Station ID: GRCA0052
LAT/LON: 36.081642/-112.035699
Agency: 11NPSWRD
Date Created: 02/03/96
Location: CLEAR CREEK AT COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): GRCA_CLEA001
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
CLEAR CREEK AT COLORADO RIVER. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/92-10/16/95	8	19.	20.463	27.	17.	10.997	3.316	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/11/92-10/16/95	8	27.5	28.725	41.	22.5	35.305	5.942	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/11/92-10/16/95	9	3.	3.889	13.	2.	12.611	3.551	2.	2.	4.	13.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/92-06/18/95	8	383.5	383.75	424.	316.	1144.786	33.835	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/11/92-10/16/95	9	8.7	8.711	9.5	8.	0.199	0.446	8.	8.4	9.	9.5
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/11/92-10/16/95	9	104.	105.333	120.	98.	43.5	6.595	98.	100.5	108.5	120.
00406	PH, FIELD, STANDARD UNITS SU	06/11/92-10/16/95	9	8.4	8.461	8.9	8.1	0.084	0.29	8.1	8.19	8.72	8.9
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/11/92-10/16/95	9	8.4	8.382	8.9	8.1	0.091	0.302	8.1	8.19	8.72	8.9
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/11/92-10/16/95	9	0.004	0.004	0.008	0.001	0.	0.002	0.001	0.002	0.006	0.008
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/11/92-10/16/95	9	198.	199.111	282.	124.	2623.111	51.216	124.	151.	241.	282.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/07/93-10/10/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/11/92-10/10/94	7 ##	0.015	0.023	0.05	0.01	0.	0.016	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/93-10/10/94	4 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/93-10/10/94	4 ##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/11/92-06/30/93	3	0.11	0.093	0.16	0.01	0.006	0.076	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/93-10/10/94	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/14/92-10/14/92	1	208.	208.	208.	208.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/14/92-10/10/94	5	37.	43.16	76.	28.6	354.108	18.818	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/14/92-10/10/94	5	29.5	47.52	132.	17.9	2254.987	47.487	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/07/93-10/10/94	4	9.05	8.7	12.2	4.5	10.047	3.17	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/07/93-10/10/94	4	2.3	2.4	3.5	1.5	0.687	0.829	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/93-10/10/94	4	9.	9.75	16.	5.	20.917	4.573	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/14/92-10/10/94	6	15.5	17.5	32.	1.	137.9	11.743	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/07/93-10/10/94	4	0.095	0.1	0.13	0.08	0.001	0.024	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/07/93-05/06/94	2	8.55	8.55	8.8	8.3	0.125	0.354	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/93-10/10/94	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/07/93-10/10/94	4 ##	2.	2.125	2.5	2.	0.063	0.25	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/93-10/10/94	4 ##	0.25	0.313	0.5	0.25	0.016	0.125	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/93-10/10/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/07/93-10/10/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/07/93-10/10/94	4 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	10/07/93-10/10/94	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/07/93-10/10/94	4 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/07/93-10/10/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/07/93-10/10/94	4 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	10/07/93-10/10/94	4 ##	25.	25.	25.	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

Parameter Inventory for Station: GRCA0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/93-10/10/94	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/11/92-10/16/95	9	3.	7.167	38.	0.5	139.25	11.8	0.5	1.5	7.	38.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/11/92-10/16/95	9	0.477	0.517	1.58	-0.301	0.298	0.546	-0.301	0.151	0.845	1.58
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.286								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/11/92-10/16/95	8	49.	207.875	770.	13.	75161.268	274.156	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/11/92-10/16/95	8	1.69	1.931	2.886	1.114	0.41	0.64	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			85.282								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/07/93-06/18/95	5	200.	212.8	254.	170.	1399.2	37.406	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/07/93-10/10/94	4 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/11/92-10/16/95	9	1.3	2.378	6.4	0.4	4.482	2.117	0.4	1.	4.1	6.4

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

EPA Water Quality Criteria Analysis for Station: GRCA0052

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	250.	4	0	0.00	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	1	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	4.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	1300.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	100.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	2.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			

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

Station Inventory for Station: GRCA0053

NPS Station ID: GRCA0053 LAT/LON: 36.169170/-112.042227 Agency: 112WRD Date Created: 12/19/81
Location: BAGS3 BRIGHT ANGEL CRK AT COTTONWOOD CAMP FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 361009112023210
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 15010001 RF1 Mile Point: 0.000 Distance from RF1: 7.70 On/Off RF1:
RF3 Index: 15010002001700.88 RF3 Mile Point: 1.33 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/02/81-09/02/81	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/02/81-09/02/81	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/02/81-09/02/81	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/02/81-09/02/81	1	330.	330.	330.	330.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/02/81-09/02/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/02/81-09/02/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/02/81-09/02/81	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/02/81-09/02/81	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/02/81-09/02/81	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/02/81-09/02/81	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/02/81-09/02/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/02/81-09/02/81	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/02/81-09/02/81	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/02/81-09/02/81	1	170.	170.	170.	170.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/02/81-09/02/81	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/02/81-09/02/81	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/02/81-09/02/81	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/02/81-09/02/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/02/81-09/02/81	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/02/81-09/02/81	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/02/81-09/02/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/02/81-09/02/81	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/02/81-09/02/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/02/81-09/02/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/02/81-09/02/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/02/81-09/02/81	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/02/81-09/02/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/02/81-09/02/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/02/81-09/02/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/02/81-09/02/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/02/81-09/02/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/02/81-09/02/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/02/81-09/02/81	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/02/81-09/02/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/02/81-09/02/81	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			2.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/02/81-09/02/81	1	29.	29.	29.	29.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/02/81-09/02/81	1	1.462	1.462	1.462	1.462	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			29.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/02/81-09/02/81	1	172.	172.	172.	172.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/02/81-09/02/81	1	174.	174.	174.	174.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/02/81-09/02/81	1	8.36	8.36	8.36	8.36	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/02/81-09/02/81	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/02/81-09/02/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRCA0053

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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			
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			
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			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0054

NPS Station ID: GRCA0054
LAT/LON: 36.159337/-112.054615
Agency: 11NPSWRD
Date Created: 02/03/96
Location: RIBBON FALLS
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): GRCA_RIBB001
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
BRIGHT ANGEL CANYON CONFLUENCE WITH RIBBON FALLS. SITE IS LOCATED ON THE BRIGHT ANGEL USGS 7.5 QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/26/93-11/26/93	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/26/93-11/26/93	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/26/93-11/26/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/26/93-11/26/93	1	409.	409.	409.	409.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	11/26/93-11/26/93	1	10.6	10.6	10.6	10.6	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	11/26/93-11/26/93	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	11/26/93-11/26/93	1	8.91	8.91	8.91	8.91	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	11/26/93-11/26/93	1	8.91	8.91	8.91	8.91	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/26/93-11/26/93	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/26/93-11/26/93	1	198.	198.	198.	198.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/26/93-11/26/93	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/26/93-11/26/93	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/26/93-11/26/93	1	14.	14.	14.	14.	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	11/26/93-11/26/93	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: GRCA0054

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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									
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRCA0055

NPS Station ID: GRCA0055
LAT/LON: 36.101392/-112.085560
Agency: 112WRD
Date Created: / /
Location: COLORADO R. NEAR GRAND CANYON, ARIZ.
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 09402500
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 14070006002400.00
RF3 Mile Point: 0.00
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	11/20/85-10/11/89	20	279.5	283.3	301.	274.	85.8	9.263	275.	275.	290.	300.7
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	223	10.5	11.628	26.7	1.7	18.609	4.314	8.	9.5	12.5	18.18
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/18/83-10/11/89	25	24.5	26.22	44.5	12.	52.502	7.246	18.5	20.25	30.5	36.6
00025	BAROMETRIC PRESSURE (MM OF HG)	02/14/83-10/11/89	46	706.	705.457	710.	700.	5.409	2.326	702.4	704.	707.	708.
00060	FLOW, STREAM, MEAN DAILY CFS	08/23/25-09/29/72	49	12600.	16429.796	63600.	210.	148731772.874	12195.564	5800.	7540.	20000.	33170.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	221	14400.	16987.557	120000.	1560.	209584907.639	14477.048	5440.	7105.	21300.	27740.
00065	STAGE, STREAM (FEET)	05/18/83-10/11/89	53	3.88	7.477	20.9	3.01	23.3	4.827	3.69	3.72	12.67	13.638
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/23/80-10/11/89	7	1.7	309.157	1800.	0.6	439326.32	662.817	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	158	954.	1004.728	2400.	11.	70256.403	265.059	809.3	894.75	1026.25	1300.
00300	OXYGEN, DISSOLVED MG/L	05/18/83-10/11/89	45	10.6	10.56	11.9	9.5	0.152	0.39	10.06	10.4	10.75	11.
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/01/85-07/31/85	1	99.	99.	99.	99.	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7 MG/L	05/18/83-05/18/83	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00400p	PH (STANDARD UNITS)	02/01/45-10/11/89	139	8.	8.017	8.5	7.2	0.069	0.263	7.7	7.9	8.2	8.34
00400p	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	139	8.	7.927	8.5	7.2	0.077	0.278	7.7	7.9	8.2	8.34
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	139	0.01	0.012	0.063	0.003	0.	0.009	0.005	0.006	0.013	0.02
00403	PH, LAB, STANDARD UNITS SU	10/07/80-10/11/89	29	8.1	8.069	8.2	7.4	0.029	0.171	7.9	8.	8.2	8.2
00403	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-10/11/89	29	8.1	8.024	8.2	7.4	0.031	0.177	7.9	8.	8.2	8.2
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-10/11/89	29	0.008	0.009	0.04	0.006	0.	0.006	0.006	0.006	0.01	0.013
00405	CARBON DIOXIDE (MG/L AS CO2)	02/01/45-06/01/79	61	2.4	3.716	23.	0.7	15.83	3.979	1.6	1.9	3.65	7.84
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	125	140.	141.792	203.	110.	272.569	16.51	124.	132.	148.	160.
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	12/08/86-12/08/86	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	114	172.	181.553	308.	130.	812.745	28.509	159.	165.75	189.25	222.
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	89	0.	0.157	7.	0.	0.952	0.976	0.	0.	0.	0.
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	12/08/86-12/08/86	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/06/89-10/11/89	7	4.	3.	6.	0.	5.667	2.38	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	12/08/86-10/11/89	9	181.	180.778	190.	168.	49.194	7.014	168.	176.5	187.	190.
00600	NITROGEN, TOTAL (MG/L AS N)	01/23/80-01/23/80	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00602	NITROGEN, DISSOLVED (MG/L AS N)	01/23/80-01/23/80	1	0.91	0.91	0.91	0.91	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/23/80-01/23/80	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	01/23/80-01/23/80	1	0.24	0.24	0.24	0.24	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/23/80-10/11/89	16	0.055	0.077	0.21	0.005	0.004	0.066	0.009	0.02	0.13	0.182
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/23/80-10/11/89	16	0.02	0.037	0.18	0.005	0.002	0.045	0.009	0.01	0.045	0.117
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/16/72-08/01/75	27 ##	0.005	0.007	0.03	0.005	0.	0.006	0.005	0.005	0.005	0.012
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/06/89-10/11/89	15 ##	0.005	0.012	0.05	0.005	0.	0.014	0.005	0.005	0.01	0.038
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/23/25-08/01/75	28	0.51	0.509	0.81	0.	0.017	0.131	0.417	0.465	0.565	0.653
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	01/23/80-01/23/80	1	0.37	0.37	0.37	0.37	0.	0.	**	**	**	**
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	01/23/80-01/23/80	1	0.93	0.93	0.93	0.93	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/23/80-10/11/89	17	0.3	0.388	1.3	0.1	0.125	0.353	0.1	0.15	0.5	1.06

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

Parameter Inventory for Station: GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/23/80-10/11/89	17	0.3	0.328	0.54	0.3	0.004	0.061	0.3	0.3	0.335	0.428
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	128	0.5	0.491	1.2	0.	0.036	0.188	0.3	0.4	0.6	0.71
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	62	0.03	0.029	0.25	0.	0.002	0.039	0.	0.	0.03	0.06
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/23/80-10/11/89	17	0.01	0.186	2.5	0.005	0.361	0.601	0.005	0.005	0.065	0.716
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	01/23/80-10/11/89	16 ##	0.005	0.006	0.02	0.005	0.	0.004	0.005	0.005	0.005	0.013
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	94 ##	0.005	0.011	0.08	0.	0.	0.012	0.005	0.005	0.01	0.025
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/23/80-10/11/89	15	2.8	5.32	32.	2.6	55.827	7.472	2.6	2.7	4.9	16.46
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	129	290.	313.085	965.	141.	9119.407	95.496	250.	270.	315.	385.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	128	150.	166.258	801.	22.	7482.067	86.499	120.	140.	170.	211.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	149	73.	77.577	310.	28.	782.678	27.976	62.	66.	79.	89.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	149	25.	25.805	47.	12.	23.996	4.899	21.	24.	27.	31.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	144	91.	96.569	320.	28.	1076.359	32.808	70.5	81.25	100.	120.
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	127	2.4	2.543	6.1	0.8	0.525	0.724	2.1	2.2	2.6	3.22
00932	SODIUM, PERCENT	10/16/25-02/14/83	116	41.	41.138	64.	20.	28.59	5.347	38.	39.	42.	47.3
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/23/25-01/23/80	14	110.	112.071	189.	48.	1044.071	32.312	68.5	93.5	124.5	167.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	130	4.	4.092	8.4	2.1	0.672	0.819	3.4	3.7	4.3	4.79
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	141	76.	83.206	415.	22.	1642.836	40.532	52.	65.	89.	100.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	141	230.	242.199	785.	91.	5868.232	76.604	190.	210.	250.	278.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	128	0.3	0.323	0.9	0.05	0.009	0.097	0.2	0.3	0.3	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	141	8.2	8.793	24.	0.6	6.054	2.46	7.1	7.7	9.3	12.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	01/23/80-01/23/80	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01001	ARSENIC, SUSPENDED (UG/L AS AS)	01/23/80-01/23/80	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	01/23/80-01/23/80	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	01/23/80-01/23/80	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01006	BARIUM, SUSPENDED (UG/L AS BA)	01/23/80-01/23/80	1	1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	01/23/80-01/23/80	1	1600.	1600.	1600.	1600.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	122	100.	108.201	260.	0.2	1108.225	33.29	80.	97.5	120.	130.
01022	BORON, TOTAL (UG/L AS B)	10/01/47-07/13/83	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	01/23/80-01/23/80	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01026	CADMIUM, SUSPENDED (UG/L AS CD)	01/23/80-01/23/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	01/23/80-07/13/83	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	01/23/80-01/23/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01031	CHROMIUM, SUSPEND (UG/L AS CR)	01/23/80-01/23/80	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	01/23/80-01/23/80	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	01/23/80-01/23/80	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01036	COBALT, SUSPENDED (UG/L AS CO)	01/23/80-01/23/80	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	01/23/80-01/23/80	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/23/80-01/23/80	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01041	COPPER, SUSPENDED (UG/L AS CU)	01/23/80-01/23/80	1	170.	170.	170.	170.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	01/23/80-07/13/83	2	105.	105.	190.	20.	14450.	120.208	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	01/23/80-01/23/80	1	37000.	37000.	37000.	37000.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/01/47-01/23/80	1	37000.	37000.	37000.	37000.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	122	10.	36.121	890.	0.	9013.872	94.941	5.	5.	20.5	70.
01049	LEAD, DISSOLVED (UG/L AS PB)	01/23/80-01/23/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01050	LEAD, SUSPENDED (UG/L AS PB)	01/23/80-01/23/80	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	01/23/80-01/23/80	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	01/23/80-01/23/80	1	1800.	1800.	1800.	1800.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	01/23/80-01/23/80	1	1800.	1800.	1800.	1800.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/23/80-01/23/80	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	01/23/80-01/23/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01076	SILVER, SUSPENDED (UG/L AS AG)	01/23/80-01/23/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	01/23/80-01/23/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/23/80-01/23/80	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01091	ZINC, SUSPENDED (UG/L ZN)	01/23/80-01/23/80	1	320.	320.	320.	320.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	01/23/80-01/23/80	1	340.	340.	340.	340.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	01/23/80-01/23/80	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01146	SELENIUM, SUSPENDED (UG/L AS SE)	01/23/80-01/23/80	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	01/23/80-01/23/80	1	5.	5.	5.	5.	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	10/06/89-10/11/89	8	152.	151.875	158.	142.	21.554	4.643	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	12/08/86-10/11/89	9	153.	152.	158.	144.	25.25	5.025	144.	147.5	156.	158.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	126	621.5	656.103	1790.	347.	35188.701	187.587	509.4	568.75	676.5	828.2
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	111	606.	628.775	1120.	294.	12137.685	110.171	543.	578.	646.	722.
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	125	23980.1	27323.537	108301.	3830.	258126732.383	16066.323	10020.	17300.	34650.	41240.

** - Less than 9 observations ## - 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: GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	127	0.86	0.918	2.43	0.4	0.063	0.25	0.76	0.8	0.94	1.244
70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	01/02/52-08/22/69	6	2.	1.833	3.	0.	1.367	1.169	**	**	**	**
70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	01/02/52-08/22/69	6	4.5	6.333	12.	2.	20.267	4.502	**	**	**	**
70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	01/02/52-08/22/69	7	18.	19.429	37.	4.	202.952	14.246	**	**	**	**
70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	01/02/52-08/22/69	7	30.	35.429	58.	9.	478.286	21.87	**	**	**	**
70330	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .031MM	01/02/52-08/22/69	7	68.	51.857	79.	14.	864.143	29.396	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	01/02/51-10/11/89	67	91.	78.119	100.	6.	608.258	24.663	41.4	59.	98.	100.
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	01/02/51-08/22/69	52	95.	89.058	100.	49.	189.624	13.77	65.	79.75	99.	100.
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	01/02/51-08/22/69	42	99.	96.905	100.	84.	19.893	4.46	89.	95.	100.	100.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	11/01/51-08/22/69	26	100.	99.692	100.	98.	0.302	0.549	99.	99.	100.	100.
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	01/02/51-07/10/71	56	22.5	29.107	68.	1.	458.643	21.416	3.	9.5	49.5	60.6
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	86	38.5	41.035	85.	2.	642.575	25.349	8.	16.	64.	74.3
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	01/02/51-08/22/69	10	59.	50.4	77.	8.	750.489	27.395	8.	23.	73.5	76.8
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	87	55.	53.563	98.	0.	1019.9	31.936	8.4	24.	83.	96.
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	01/02/51-08/22/69	10	81.5	66.3	95.	17.	1016.233	31.878	17.	29.	91.75	94.9
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/07/59-12/24/71	55	54.	58.	100.	6.	1074.185	32.775	10.6	25.	95.	100.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/07/59-12/24/71	49	85.	78.755	100.	26.	473.064	21.75	42.	65.5	98.5	100.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	11/10/59-12/24/71	42	98.	95.524	100.	76.	34.304	5.857	84.3	92.75	100.	100.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	05/30/60-12/24/71	26	100.	99.808	100.	97.	0.402	0.634	99.	100.	100.	100.
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	10/01/62-07/10/71	3	100.	100.	100.	100.	0.	0.	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/06/89-10/11/89	15	0.02	0.031	0.15	0.005	0.001	0.039	0.005	0.01	0.03	0.108
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	01/23/80-01/23/80	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	01/23/80-01/23/80	1	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/21/36-07/19/62	3	1.5	1.6	2.2	1.1	0.31	0.557	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/23/25-08/01/75	35	2.3	2.331	4.6	0.	0.756	0.869	1.3	2.	2.5	3.54
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	11/16/72-08/01/75	27	0.	0.011	0.1	0.	0.001	0.024	0.	0.	0.	0.038
71870	BROMIDE (MG/L AS BR)	10/01/63-09/15/64	2	0.585	0.585	0.6	0.57	0.	0.021	**	**	**	**
71885	IRON (UG/L AS FE)	10/17/59-09/01/67	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	01/23/80-07/13/83	2	3.975	3.975	7.7	0.25	27.751	5.268	**	**	**	**
71887	NITROGEN, TOTAL, AS NO3 - MG/L	01/23/80-01/23/80	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	01/25/73-01/23/80	2 ##	0.125	0.125	0.25	0.	0.031	0.177	**	**	**	**
71895	MERCURY, SUSPENDED (UG/L AS HG)	01/23/80-01/23/80	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	01/23/80-01/23/80	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	116	1905.	6617.647	67900.	4.	112673905.97	10614.797	289.1	681.5	9232.5	19650.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	80	16100.	156584.05	1440000.	640.101	109917293.466	317977.857	1824.	3422.5	81675.	661300.
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	10/29/65-10/29/65	1	0.	0.	0.	0.	0.	0.	**	**	**	**
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	10/29/65-10/29/65	1	3.	3.	3.	3.	0.	0.	**	**	**	**
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	10/29/65-10/29/65	1	69.	69.	69.	69.	0.	0.	**	**	**	**
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	10/29/65-10/29/65	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	12/07/70-06/21/71	3	1.	4.333	11.	1.	33.333	5.774	**	**	**	**
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	12/07/70-06/21/71	3	17.	16.667	19.	14.	6.333	2.517	**	**	**	**
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	12/07/70-06/21/71	3	86.	86.	88.	84.	4.	2.	**	**	**	**
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	12/07/70-06/21/71	3	99.	98.667	99.	98.	0.333	0.577	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	12/07/70-06/21/71	3	100.	99.667	100.	99.	0.333	0.577	**	**	**	**
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	03/29/71-03/29/71	1	100.	100.	100.	100.	0.	0.	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	02/10/81-07/24/81	2	2.55	2.55	2.6	2.5	0.005	0.071	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRCA0055

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	7	3	0.43	7	3	0.43									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	45	0	0.00	41	0	0.00	2	0	0.00	2	0	0.00			
00400	PH	Other-Hi Lim.	9.	139	0	0.00	76	0	0.00	26	0	0.00	37	0	0.00			
		Other-Lo Lim.	6.5	139	0	0.00	76	0	0.00	26	0	0.00	37	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	29	0	0.00	16	0	0.00	6	0	0.00	7	0	0.00			
		Other-Lo Lim.	6.5	29	0	0.00	16	0	0.00	6	0	0.00	7	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	27	0	0.00	14	0	0.00	7	0	0.00	6	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: GRCA0055

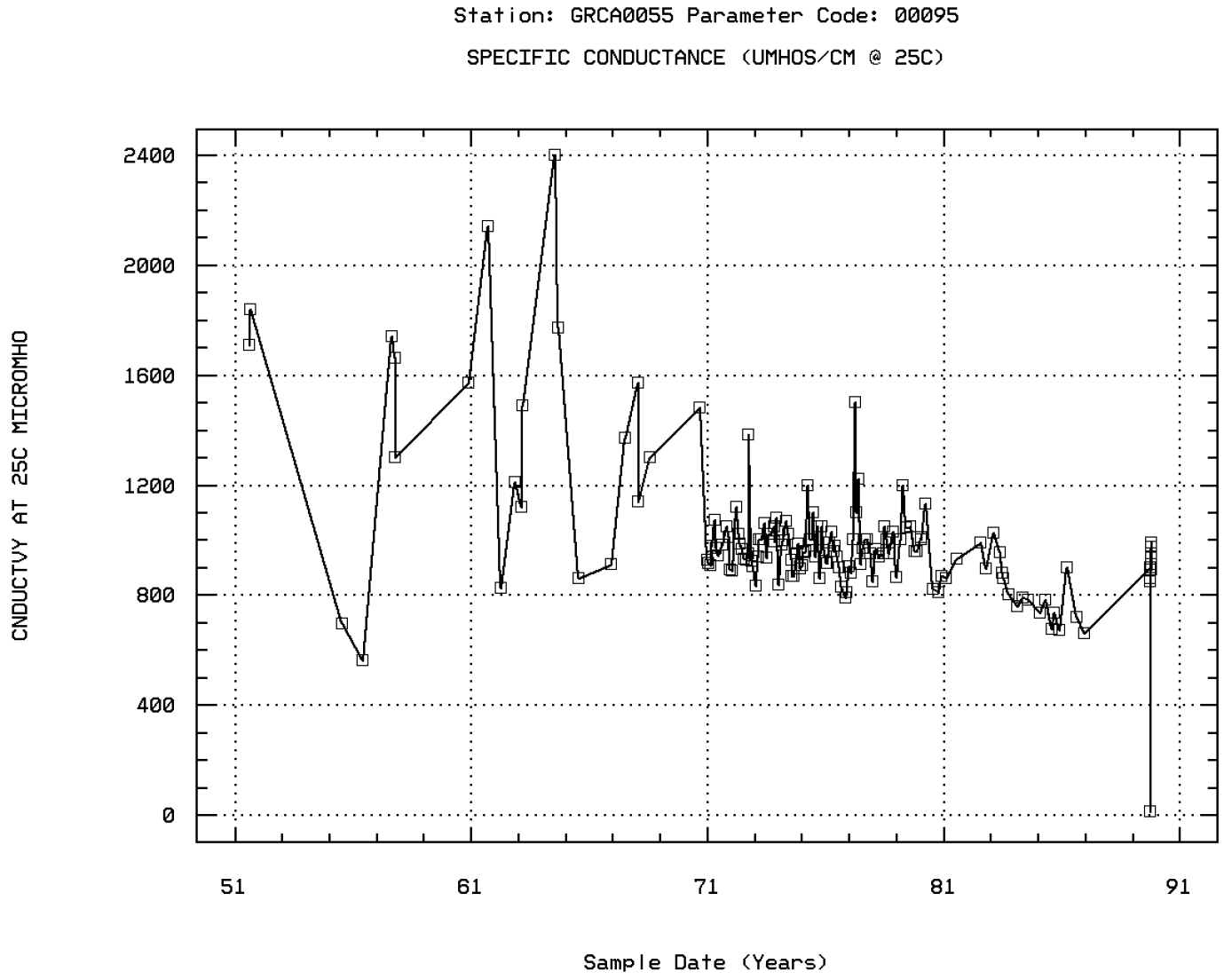
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	15	0	0.00	15	0	0.00									
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	28	0	0.00	14	0	0.00	8	0	0.00	6	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	17	0	0.00	16	0	0.00				1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	128	0	0.00	69	0	0.00	30	0	0.00	29	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	141	0	0.00	68	0	0.00	32	0	0.00	41	0	0.00			
		Drinking Water	250.	141	1	0.01	68	0	0.00	32	0	0.00	41	1	0.02			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	141	49	0.35	68	12	0.18	32	18	0.56	41	19	0.46			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	128	0	0.00	64	0	0.00	31	0	0.00	33	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01006	BARIUM, SUSPENDED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	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									
01026	CADMIUM, SUSPENDED	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5.	2	0	0.00	1	0	0.00				1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01041	COPPER, SUSPENDED	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	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.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01050	LEAD, SUSPENDED	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	1	1.00	1	1	1.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01076	SILVER, SUSPENDED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	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	1	1.00	1	1	1.00									
		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									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	3	0	0.00	1	0	0.00				2	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	35	0	0.00	17	0	0.00	8	0	0.00	10	0	0.00			

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

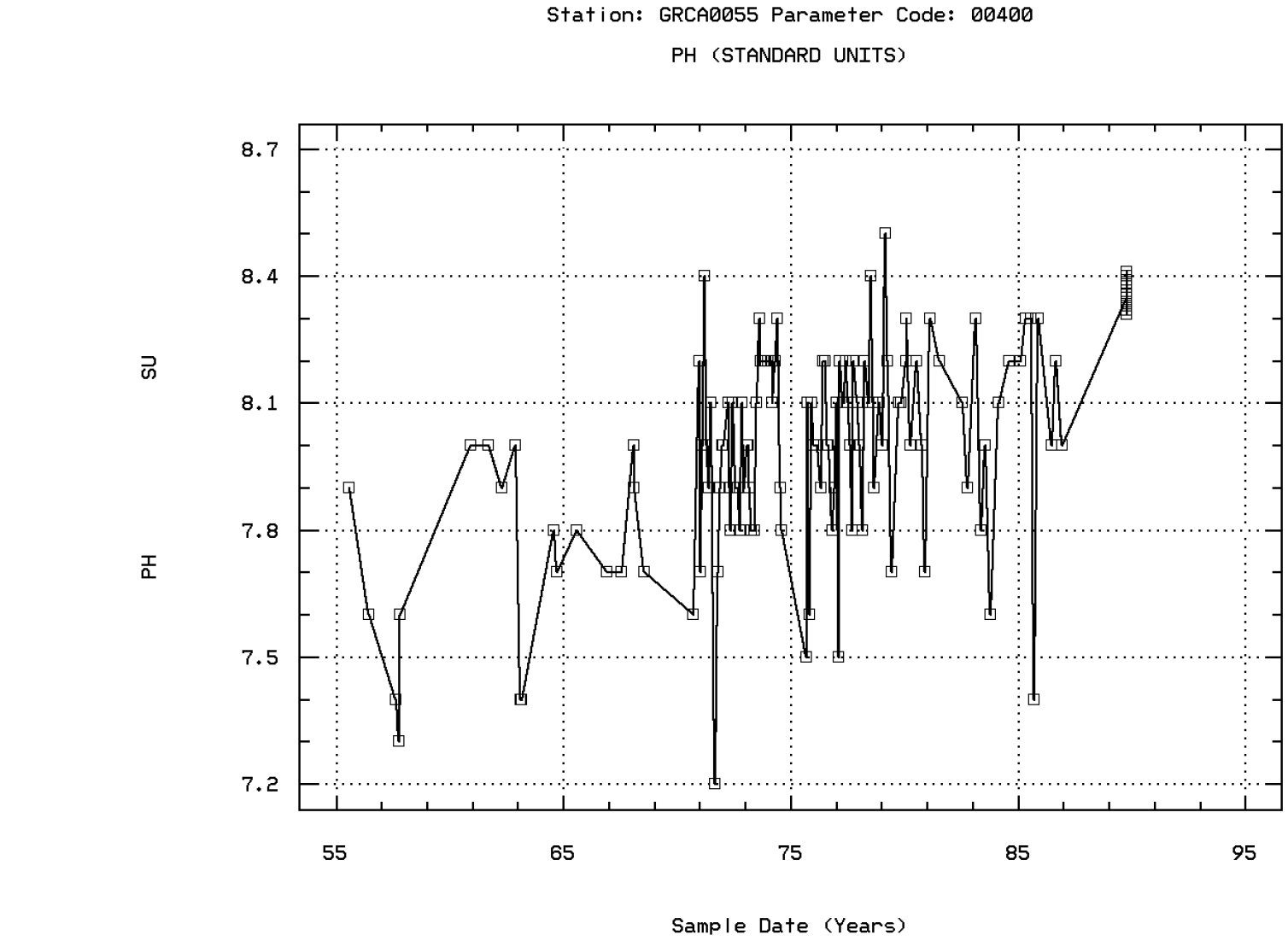
EPA Water Quality Criteria Analysis for Station: GRCA0055

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	27	0	0.00	14	0	0.00	7	0	0.00	6	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									
71895	MERCURY, SUSPENDED	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

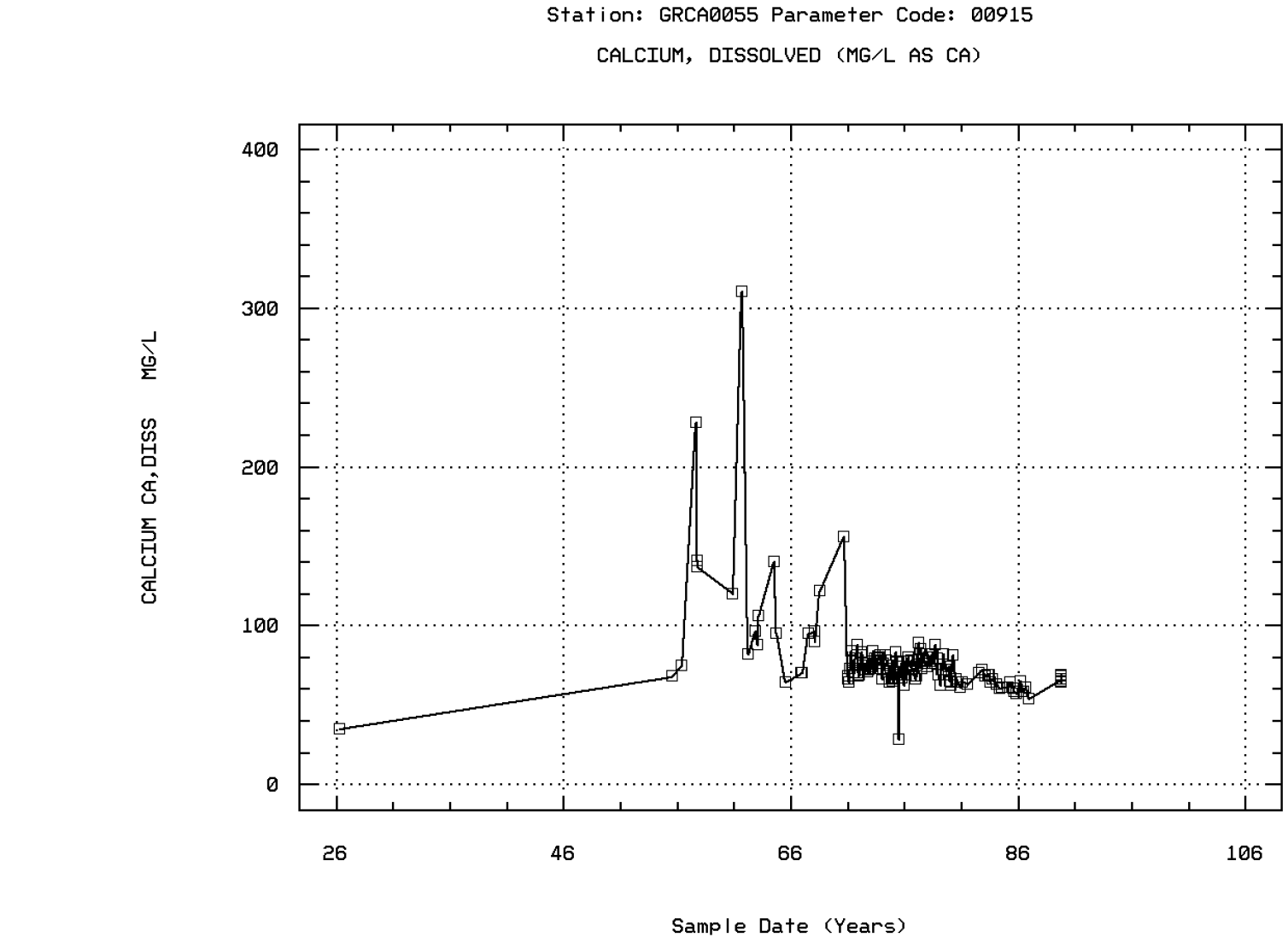
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter



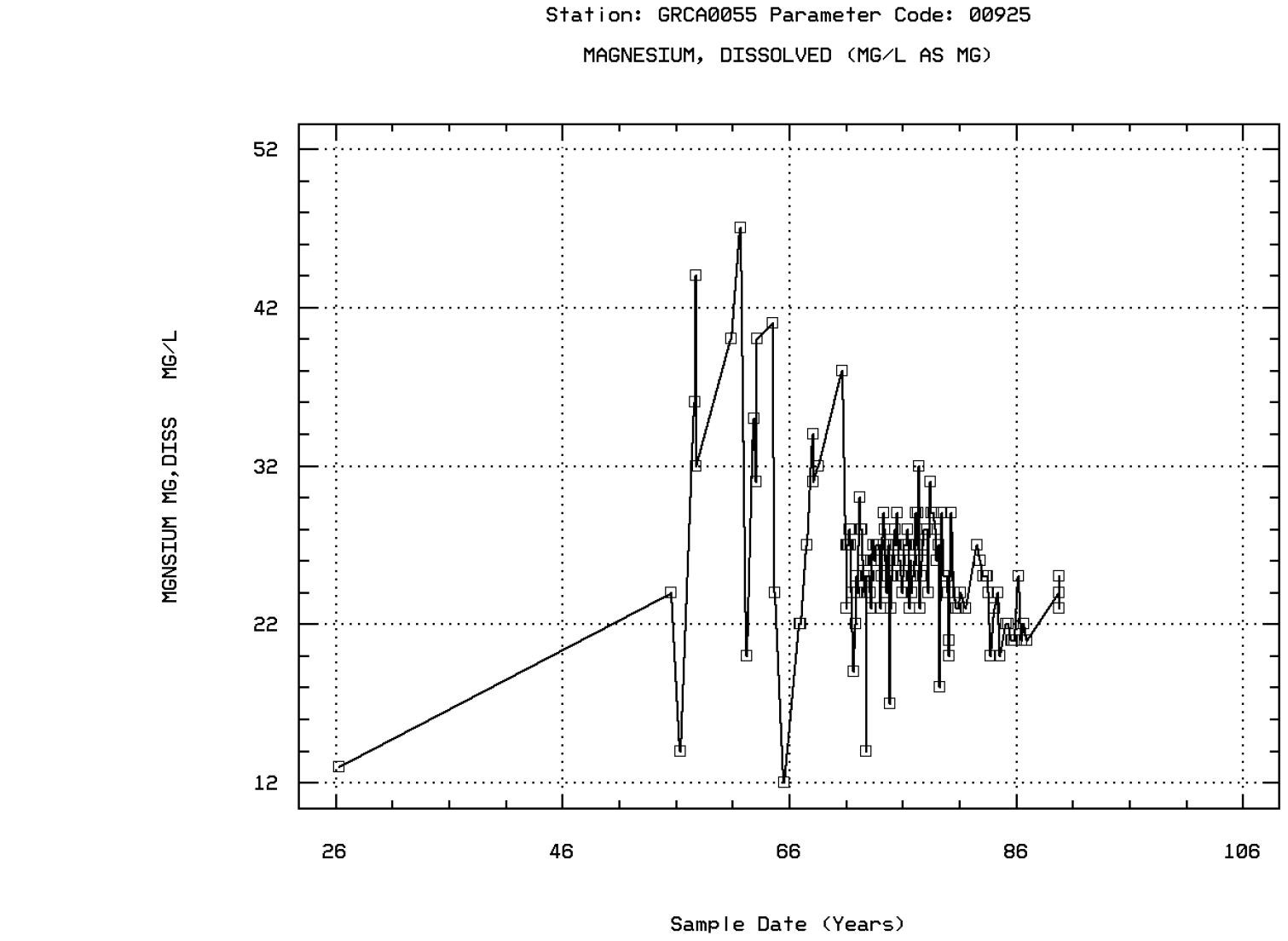
COLORADO R. NEAR GRAND CANYON, ARIZ.



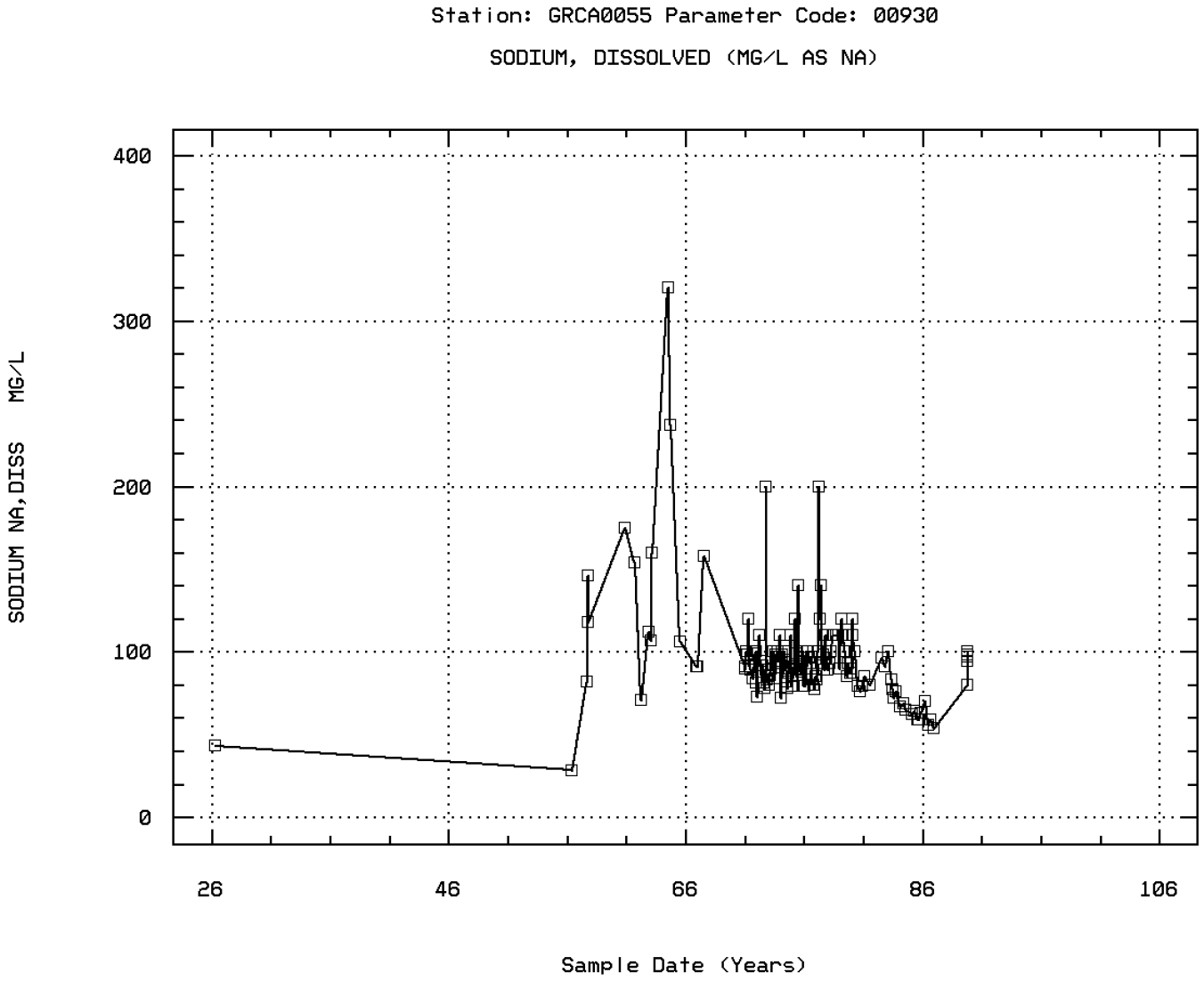
COLORADO R. NEAR GRAND CANYON, ARIZ.



COLORADO R. NEAR GRAND CANYON, ARIZ.



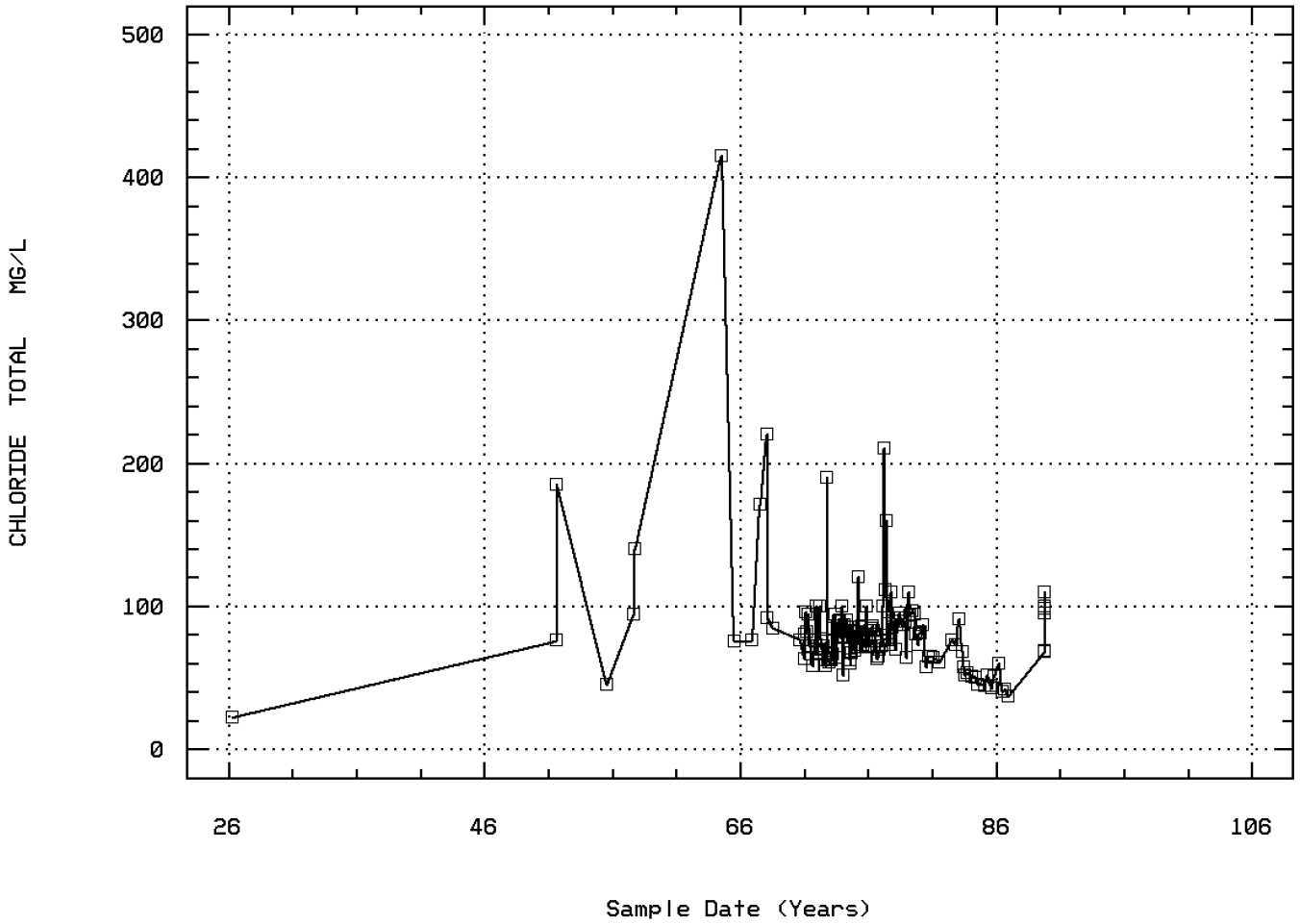
COLORADO R. NEAR GRAND CANYON, ARIZ.



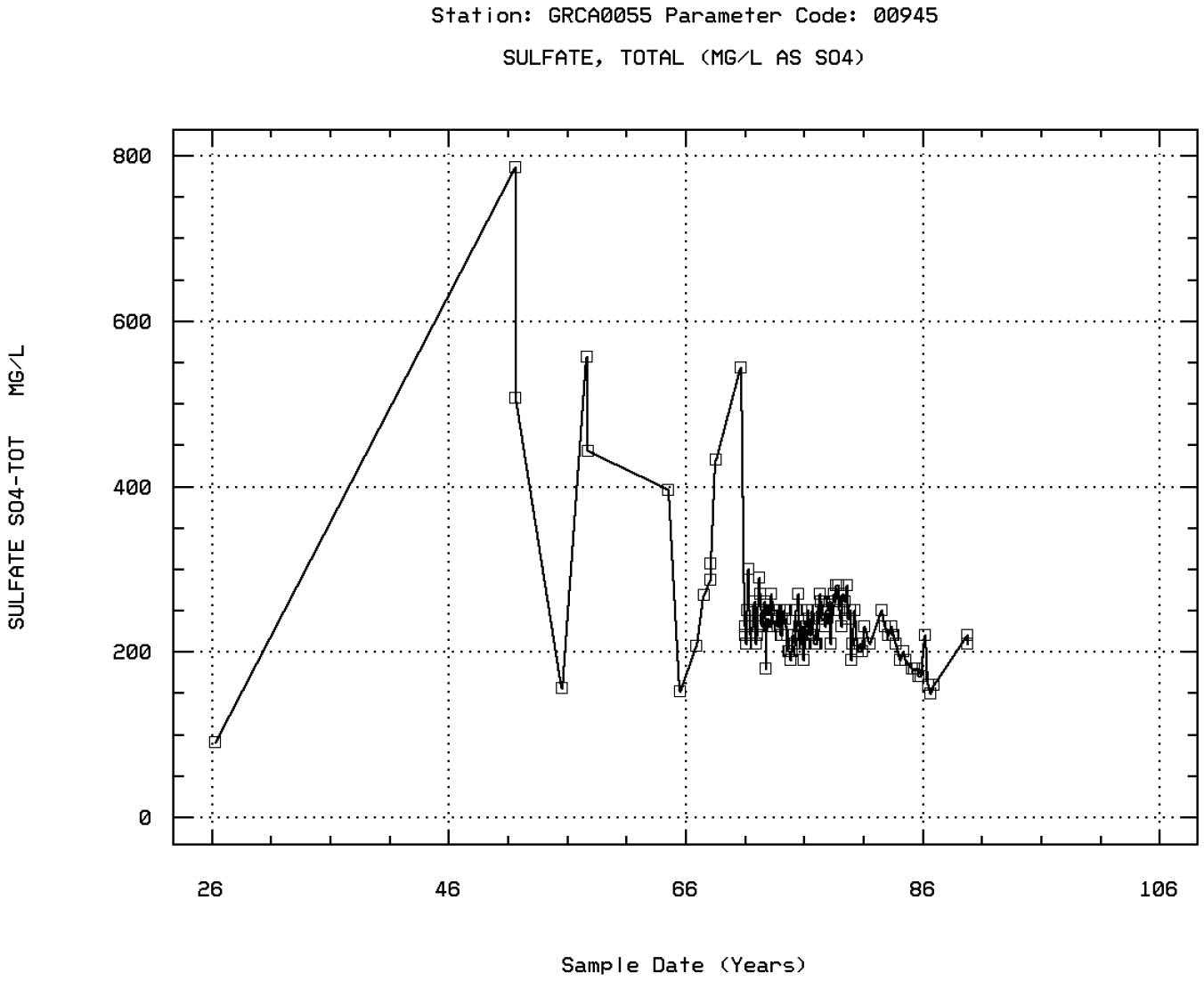
COLORADO R. NEAR GRAND CANYON, ARIZ.

Station: GRCA0055 Parameter Code: 00940

CHLORIDE,TOTAL IN WATER



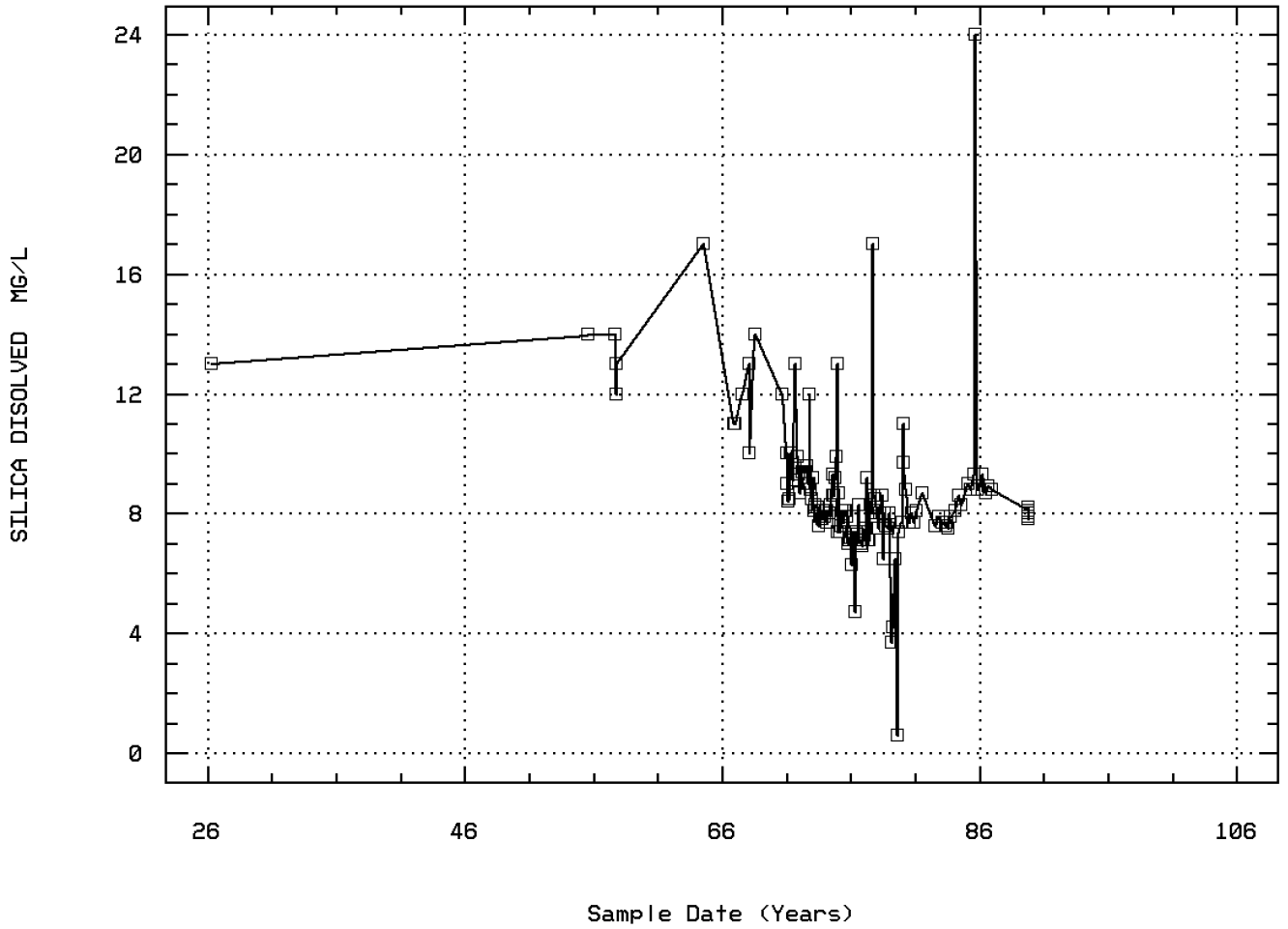
COLORADO R. NEAR GRAND CANYON, ARIZ.



COLORADO R. NEAR GRAND CANYON, ARIZ.

Station: GRCA0055 Parameter Code: 00955

SILICA, DISSOLVED (MG/L AS SI02)



COLORADO R. NEAR GRAND CANYON, ARIZ.

Annual Analysis for 1926 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	1	120.	120.	120.	120.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	1	146.	146.	146.	146.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	1	141.	141.	141.	141.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/16/25-02/14/83	1	39.	39.	39.	39.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	1	91.	91.	91.	91.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	1	190.	190.	190.	190.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	1	294.	294.	294.	294.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	1	41200.	41200.	41200.	41200.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**

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

Annual Analysis for 1951 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	10	7085.	8394.	21300.	3860.	25758693.333	5075.302	4018.	5642.5	8850.	20430.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	2	1775.	1775.	1840.	1710.	8450.	91.924	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	2	267.	267.	308.	226.	3362.	57.983	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	2	554.	554.	668.	440.	25992.	161.22	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	2	335.5	335.5	483.	188.	43512.5	208.597	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	2	130.5	130.5	185.	76.	5940.5	77.075	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	2	646.	646.	785.	507.	38642.	196.576	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	9	60.	64.889	85.	38.	245.361	15.664	38.	55.	81.	85.
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	9	86.	83.667	98.	53.	203.5	14.265	53.	76.5	97.	98.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	10	2430.	7258.7	29400.	280.	97890358.678	9893.956	282.4	535.75	13475.	28370.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	9	2470.	2778.889	5310.	640.	2358686.111	1535.801	640.	1670.	4060.	5310.

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	26	20400.	30110.769	120000.	6140.	882541607.385	29707.602	6670.	8597.5	40800.	85640.
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	21	50.	45.762	77.	13.	491.19	22.163	15.	25.5	66.	74.8
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	21	59.	59.714	97.	19.	671.914	25.921	20.6	37.	82.	95.
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	25	4600.	8268.96	29400.	458.	74282114.457	8618.707	963.8	1780.	12300.	24180.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	23	3430.	3951.739	7150.	1600.	2403096.838	1550.193	1860.	2830.	5250.	6224.

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	1	697.	697.	697.	697.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	1	7.9	7.9	7.9	7.9	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 box-and-whisker plot

Annual Analysis for 1955 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	1	144.	144.	144.	144.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	1	176.	176.	176.	176.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	1	268.	268.	268.	268.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	1	124.	124.	124.	124.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	1	68.	68.	68.	68.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/16/25-02/14/83	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	1	45.	45.	45.	45.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	1	156.	156.	156.	156.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	1	444.	444.	444.	444.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	1	7360.	7360.	7360.	7360.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**

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

Annual Analysis for 1956 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	1	563.	563.	563.	563.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	1	229.	229.	229.	229.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	1	244.	244.	244.	244.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	1	57.	57.	57.	57.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	1	75.	75.	75.	75.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/16/25-02/14/83	1	20.	20.	20.	20.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	1	347.	347.	347.	347.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	1	59590.	59590.	59590.	59590.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	1	0.47	0.47	0.47	0.47	0.	0.	**	**	**	**

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

Annual Analysis for 1957 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	3	1660.	1566.667	1740.	1300.	54933.333	234.379	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	3	7.4	7.433	7.6	7.3	0.023	0.153	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	3	7.4	7.416	7.6	7.3	0.024	0.154	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	3	0.04	0.038	0.05	0.025	0.	0.013	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	3	182.	182.333	203.	162.	420.333	20.502	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	3	222.	222.667	248.	198.	625.333	25.007	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	4	503.5	537.25	717.	425.	16309.583	127.709	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	4	320.5	354.75	535.	243.	15834.917	125.837	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	3	141.	168.667	228.	137.	2644.333	51.423	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	3	36.	37.333	44.	32.	37.333	6.11	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	3	118.	115.333	146.	82.	1029.333	32.083	**	**	**	**

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

Annual Analysis for 1957 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	4	2.55	2.475	3.5	1.3	0.829	0.911	**	**	**	**
00932	SODIUM, PERCENT	10/16/25-02/14/83	3	37.	34.	45.	20.	163.	12.767	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	2	117.	117.	140.	94.	1058.	32.527	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	2	499.5	499.5	556.	443.	6384.5	79.903	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	3	13.	13.	14.	12.	1.	1.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	3	1060.	1030.333	1120.	911.	11580.333	107.612	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	2	1090.	1090.	1120.	1060.	1800.	42.426	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	3	63500.	64590.	94210.	36060.	846246700.	29090.32	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	3	1.44	1.4	1.52	1.24	0.021	0.144	**	**	**	**

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Annual Analysis for 1959 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	3	13.9	12.767	15.	9.4	8.803	2.967	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	3	12900.	12300.	13700.	10300.	3160000.	1777.639	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	3	67.	65.	72.	56.	67.	8.185	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	3	90.	86.667	91.	79.	44.333	6.658	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	3	12900.	14086.667	22600.	6760.	63782533.333	7986.397	**	**	**	**

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Annual Analysis for 1960 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	9	19.4	16.289	25.	2.2	54.199	7.362	2.2	10.6	21.65	25.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	9	15600.	15113.333	40400.	3440.	155510125.	12470.37	3440.	4940.	22450.	40400.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	1	1570.	1570.	1570.	1570.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	1	214.	214.	214.	214.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	1	466.	466.	466.	466.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	1	290.	290.	290.	290.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	1	120.	120.	120.	120.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	1	175.	175.	175.	175.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	1	1080.	1080.	1080.	1080.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	1	15450.1	15450.1	15450.1	15450.1	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	1	1.47	1.47	1.47	1.47	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	8	61.	50.25	74.	16.	501.643	22.397	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	8	83.5	72.75	98.	25.	771.929	27.784	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	9	856.	3765.444	25000.	329.	63858408.528	7991.146	329.	737.5	2185.	25000.

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Annual Analysis for 1961 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	6	21.1	18.983	26.7	7.8	53.386	7.307	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	6	20850.	20690.	36500.	3640.	169676600.	13025.997	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	1	2140.	2140.	2140.	2140.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	1	965.	965.	965.	965.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	1	801.	801.	801.	801.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	1	310.	310.	310.	310.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	1	47.	47.	47.	47.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	1	154.	154.	154.	154.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	1	1790.	1790.	1790.	1790.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	1	108301.	108301.	108301.	108301.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	1	2.43	2.43	2.43	2.43	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	6	26.	35.5	71.	16.	541.5	23.27	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	6	44.	53.333	93.	27.	819.067	28.619	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	6	3830.	4045.	9180.	1130.	7791430.	2791.313	**	**	**	**

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Annual Analysis for 1962 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	3	15.6	14.3	21.7	5.6	66.07	8.128	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	3	9470.	11736.667	20300.	5440.	59058233.333	7684.935	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	2	1018.5	1018.5	1210.	827.	73344.5	270.822	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	2	7.95	7.95	8.	7.9	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	2	7.947	7.947	8.	7.9	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	2	0.011	0.011	0.013	0.01	0.	0.002	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	2	219.	219.	222.	216.	18.	4.243	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	2	336.5	336.5	385.	288.	4704.5	68.589	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	2	157.	157.	208.	106.	5202.	72.125	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	2	89.	89.	96.	82.	98.	9.899	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	2	27.5	27.5	35.	20.	112.5	10.607	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	2	91.5	91.5	112.	71.	840.5	28.991	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	2	2.15	2.15	2.5	1.8	0.245	0.495	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	2	672.	672.	792.	552.	28800.	169.706	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	2	32310.1	32310.1	49440.1	15180.1	586873800.	24225.478	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	2	0.915	0.915	1.08	0.75	0.054	0.233	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	3	49.	41.667	56.	20.	364.333	19.088	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	3	70.	62.667	74.	44.	265.333	16.289	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	3	19100.	13963.333	21500.	1290.	121900033.333	11040.835	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	3	488000.	562333.333	1180000.	19000.341	124333333.333	584058.502	**	**	**	**

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Annual Analysis for 1963 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	6	20.55	16.75	25.	1.7	92.699	9.628	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	5	1940.	2724.	5990.	1560.	3475230.	1864.197	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	2	1305.	1305.	1490.	1120.	68450.	261.63	**	**	**	**

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Annual Analysis for 1963 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	2	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	2	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	2	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	2	215.	215.	218.	212.	18.	4.243	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	2	387.5	387.5	430.	345.	3612.5	60.104	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	2	212.	212.	252.	172.	3200.	56.569	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	2	97.	97.	106.	88.	162.	12.728	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	2	35.5	35.5	40.	31.	40.5	6.364	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	2	133.5	133.5	160.	107.	1404.5	37.477	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	2	2.95	2.95	3.4	2.5	0.405	0.636	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	2	855.	855.	1000.	710.	42050.	205.061	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	2	16035.1	16035.1	17330.1	14740.1	3354050.	1831.407	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	2	1.165	1.165	1.36	0.97	0.076	0.276	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	6	52.	52.5	84.	14.	689.9	26.266	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	6	58.5	50.333	96.	0.	1134.667	33.685	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	6	827.5	8067.	30200.	154.	157226031.2	12538.98	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	6	6495.	40195.667	158000.	844.	4006751344.667	63298.905	**	**	**	**

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Annual Analysis for 1964 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	10	11.25	14.52	25.	7.8	46.54	6.822	7.91	9.275	23.3	24.83
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	9	6000.	9205.556	19200.	3690.	32791377.778	5726.376	3690.	4350.	14700.	19200.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	2	2085.	2085.	2400.	1770.	198450.	445.477	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	2	7.75	7.75	7.8	7.7	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	2	7.747	7.747	7.8	7.7	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	2	0.018	0.018	0.02	0.016	0.	0.003	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	2	280.	280.	284.	276.	32.	5.657	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	2	427.5	427.5	520.	335.	17112.5	130.815	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	2	198.	198.	287.	109.	15842.	125.865	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	2	117.5	117.5	140.	95.	1012.5	31.82	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	2	32.5	32.5	41.	24.	144.5	12.021	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	2	278.5	278.5	320.	237.	3444.5	58.69	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	2	5.85	5.85	6.1	5.6	0.125	0.354	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	2	7.3	7.3	8.	6.6	0.98	0.99	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	1	415.	415.	415.	415.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	1	396.	396.	396.	396.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	1	260.	260.	260.	260.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	2	1295.	1295.	1540.	1050.	120050.	346.482	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	2	14305.05	14305.05	18710.1	9900.	38808931.005	6229.681	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	2	1.76	1.76	2.09	1.43	0.218	0.467	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	10	28.	36.5	79.	7.	763.833	27.638	7.1	10.25	68.5	78.1
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	10	43.5	49.7	96.	10.	1190.456	34.503	10.	16.	84.25	95.2
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	10	6820.	18319.5	67900.	735.	586650046.944	24220.86	749.5	895.	30025.	66670.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	10	229500.	362121.	1100000.	8610.	168678638410.	410705.05	9189.	15600.	740000.	1089500.

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	11	11.1	12.427	21.1	8.9	13.58	3.685	9.12	10.	12.2	20.44
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	11	16000.	22889.091	54700.	9520.	200224669.091	14150.077	9608.	12900.	33700.	51360.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	1	859.	859.	859.	859.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	1	216.	216.	216.	216.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	1	208.	208.	208.	208.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	1	64.	64.	64.	64.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	1	106.	106.	106.	106.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	1	75.	75.	75.	75.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	1	152.	152.	152.	152.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	1	510.	510.	510.	510.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	1	21480.1	21480.1	21480.1	21480.1	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	1	0.69	0.69	0.69	0.69	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	11	8.	19.909	60.	2.	501.091	22.385	2.2	4.	43.	59.4
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	11	13.	27.636	85.	3.	942.455	30.699	3.4	6.	57.	83.6
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	11	9250.	7818.	15800.	98.	26064504.	5105.341	470.4	2380.	11700.	15060.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	11	408000.	539667.273	1440000.	3440.215	859714581.818	464607.054	13292.	61200.	765000.	1380000.

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Annual Analysis for 1966 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	1	11.1	11.1	11.1	11.1	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	1	17400.	17400.	17400.	17400.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	1	912.	912.	912.	912.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	1	138.	138.	138.	138.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	1	168.	168.	168.	168.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	1	264.	264.	264.	264.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	1	126.	126.	126.	126.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	3	70.	70.	70.	70.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	3	22.	22.	22.	22.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	3	91.	91.	91.	91.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/16/25-02/14/83	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	1	76.	76.	76.	76.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	1	207.	207.	207.	207.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	3	11.	11.	11.	11.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	1	562.	562.	562.	562.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	1	15800.1	15800.1	15800.1	15800.1	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	1	0.76	0.76	0.76	0.76	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	1	34.	34.	34.	34.	0.	0.	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	1	48.	48.	48.	48.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	1	3460.	3460.	3460.	3460.	0.	0.	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	1	163000.	163000.	163000.	163000.	0.	0.	**	**	**	**

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Annual Analysis for 1967 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	1	1370.	1370.	1370.	1370.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	1	171.	171.	171.	171.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	1	208.	208.	208.	208.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	1	350.	350.	350.	350.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	1	179.	179.	179.	179.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	1	158.	158.	158.	158.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	1	3.7	3.7	3.7	3.7	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/16/25-02/14/83	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	1	171.	171.	171.	171.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	1	268.	268.	268.	268.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	1	12.	12.	12.	12.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	1	838.	838.	838.	838.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	1	23980.1	23980.1	23980.1	23980.1	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	1	1.14	1.14	1.14	1.14	0.	0.	**	**	**	**

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Annual Analysis for 1968 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	8	15.	14.75	22.	8.	27.929	5.285	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	5	18200.	17900.	20300.	14400.	5885000.	2425.902	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	3	1300.	1336.667	1570.	1140.	47233.333	217.332	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	3	7.9	7.867	8.	7.7	0.023	0.153	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	3	7.9	7.848	8.	7.7	0.024	0.154	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	3	0.013	0.014	0.02	0.01	0.	0.005	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	3	171.	167.333	177.	154.	142.333	11.93	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	3	208.	204.	216.	188.	208.	14.422	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	3	378.	389.333	438.	352.	1945.333	44.106	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	3	201.	222.333	268.	198.	1566.333	39.577	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	3	96.	102.667	122.	90.	289.333	17.01	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	3	32.	32.333	34.	31.	2.333	1.528	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	3	2.9	3.267	4.2	2.7	0.663	0.814	**	**	**	**
00932	SODIUM, PERCENT	10/16/25-02/14/83	3	42.	45.	52.	41.	37.	6.083	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	3	92.	132.	220.	84.	5824.	76.315	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	3	306.	341.667	432.	287.	6210.333	78.806	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	3	13.	12.333	14.	10.	4.333	2.082	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	3	925.	871.667	948.	742.	12742.333	112.882	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	3	24000.1	22333.433	25500.1	17500.1	18083333.333	4252.45	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	3	1.26	1.187	1.29	1.01	0.024	0.154	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	4	19.	16.5	25.	3.	99.667	9.983	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	4	25.	23.25	39.	4.	240.917	15.521	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	5	680.	633.6	841.	416.	38693.3	196.706	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	5	37300.	30780.	38900.	16200.	105817000.	10286.739	**	**	**	**

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Annual Analysis for 1969 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	5	17.	15.4	18.	10.	11.8	3.435	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	5	20500.	20300.	23600.	18200.	4800000.	2190.89	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	3	12.	15.667	27.	8.	100.333	10.017	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	3	15.	18.	30.	9.	117.	10.817	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	5	716.	749.8	1310.	407.	131345.7	362.416	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	5	35200.	42480.	83500.	20200.	636587000.	25230.676	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	2	9.25	9.25	9.5	9.	0.125	0.354	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	1	19400.	19400.	19400.	19400.	0.	0.	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	2	1203.5	1203.5	1480.	927.	152904.5	391.03	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	2	7.9	7.9	8.2	7.6	0.18	0.424	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	2	7.804	7.804	8.2	7.6	0.199	0.446	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	2	0.016	0.016	0.025	0.006	0.	0.013	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	2	160.	160.	184.	136.	1152.	33.941	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	2	195.	195.	224.	166.	1682.	41.012	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	2	412.	412.	544.	280.	34848.	186.676	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	2	252.	252.	360.	144.	23328.	152.735	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	2	112.	112.	156.	68.	3872.	62.225	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	2	32.5	32.5	38.	27.	60.5	7.778	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	1	91.	91.	91.	91.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	2	2.55	2.55	2.7	2.4	0.045	0.212	**	**	**	**
00932	SODIUM, PERCENT	10/16/25-02/14/83	2	39.	39.	41.	37.	8.	2.828	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	2	69.5	69.5	76.	63.	84.5	9.192	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	2	387.	387.	544.	230.	49298.	222.032	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	2	11.	11.	12.	10.	2.	1.414	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	1	50.	50.	50.	50.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	1	1060.	1060.	1060.	1060.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	2	830.	830.	1080.	580.	125000.	353.553	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	2	32950.	32950.	34600.	31300.	5445000.	2333.452	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	2	1.115	1.115	1.44	0.79	0.211	0.46	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	1	665.	665.	665.	665.	0.	0.	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	1	34800.	34800.	34800.	34800.	0.	0.	**	**	**	**

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Annual Analysis for 1971 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	14	9.8	10.636	15.6	8.	5.049	2.247	8.25	8.875	12.375	14.55
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	4	19750.	19650.	21100.	18000.	2830000.	1682.26	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	10	975.	972.1	1072.	891.	3623.433	60.195	892.5	914.25	1020.	1069.8
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	10	7.95	7.89	8.4	7.2	0.099	0.314	7.25	7.7	8.025	8.37
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	10	7.947	7.769	8.4	7.2	0.115	0.339	7.25	7.7	8.025	8.37
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	10	0.011	0.017	0.063	0.004	0.	0.017	0.004	0.009	0.02	0.059
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	10	140.5	145.2	189.	132.	263.289	16.226	132.2	136.25	147.25	184.9

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Annual Analysis for 1971 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	10	171.5	177.	231.	161.	398.	19.95	161.2	166.	179.25	225.9
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	10	0.75	0.69	1.1	0.	0.09	0.3	0.05	0.575	0.9	1.08
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	10	280.	286.	320.	260.	426.667	20.656	261.	270.	310.	319.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	10	140.	140.2	180.	86.	645.733	25.411	90.	129.	160.	178.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	10	71.5	74.	88.	64.	63.333	7.958	64.2	67.5	80.25	87.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	10	24.5	24.6	28.	19.	7.822	2.797	19.3	22.75	27.	27.9
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	10	94.5	95.2	120.	81.	121.511	11.023	81.3	87.75	100.	118.
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	10	2.4	2.44	2.9	2.2	0.047	0.217	2.2	2.275	2.6	2.87
00932	SODIUM, PERCENT	10/16/25-02/14/83	10	41.5	41.5	44.	39.	4.056	2.014	39.	39.	43.25	44.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	10	4.3	4.52	5.9	3.7	0.562	0.75	3.72	4.05	4.975	5.89
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	10	78.	80.4	100.	58.	170.489	13.057	59.2	71.5	94.5	99.6
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	10	225.	236.	300.	210.	848.889	29.136	210.	210.	252.5	296.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	10	0.3	0.32	0.6	0.1	0.015	0.123	0.12	0.3	0.325	0.58
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	10	9.3	9.65	13.	8.4	1.709	1.307	8.41	8.875	10.	12.7
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	10	100.	106.	190.	40.	1382.222	37.178	45.	97.5	115.	184.
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	10	30.	66.	220.	0.	5360.	73.212	0.	15.	112.5	213.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	10	605.5	614.8	730.	549.	2555.289	50.55	551.1	577.5	637.75	722.2
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	10	21400.	22890.	35500.	9400.	89321000.	9450.979	9670.	14875.	33375.	35310.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	10	0.825	0.838	0.99	0.75	0.005	0.067	0.753	0.788	0.867	0.98
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	1	3.	3.	3.	3.	0.	0.	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	2	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	4	579.	565.	743.	359.	24904.	157.81	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	4	33000.	29975.	36100.	17800.	68255833.333	8261.709	**	**	**	**

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Annual Analysis for 1972 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	11	10.5	11.182	15.	8.	4.914	2.217	8.1	10.	13.	14.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	3	22100.	21133.333	23400.	17900.	8263333.333	2874.601	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	11	950.	1000.091	1383.	889.	20279.291	142.405	891.8	922.	1020.	1330.4
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	11	7.9	7.936	8.1	7.8	0.015	0.121	7.8	7.8	8.1	8.1
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	11	7.9	7.922	8.1	7.8	0.015	0.122	7.8	7.8	8.1	8.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	11	0.013	0.012	0.016	0.008	0.	0.003	0.008	0.008	0.016	0.016
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	11	135.	143.455	192.	131.	321.073	17.919	131.	132.	148.	184.6
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	11	164.	174.818	234.	160.	476.964	21.839	160.	161.	180.	225.
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	11	0.7	0.682	0.8	0.5	0.012	0.108	0.52	0.6	0.8	0.8
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	5	0.03	0.018	0.03	0.	0.	0.016	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	5	0.01	0.007	0.01	0.	0.	0.004	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	11	290.	287.273	330.	230.	681.818	26.112	238.	280.	300.	328.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	11	150.	144.818	180.	43.	1285.364	35.852	62.4	140.	160.	178.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	11	72.	74.273	83.	69.	18.818	4.338	69.4	72.	76.	82.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	11	25.	24.909	30.	14.	16.691	4.085	16.	24.	28.	29.6
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	11	88.	97.545	200.	73.	1248.673	35.337	74.	81.	94.	182.
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	11	2.2	2.527	5.7	1.9	1.144	1.07	1.92	2.1	2.4	5.08
00932	SODIUM, PERCENT	10/16/25-02/14/83	11	39.	41.182	64.	36.	60.164	7.757	36.2	38.	41.	59.6
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	11	4.1	4.336	5.6	3.5	0.475	0.689	3.54	3.8	5.1	5.52
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	11	70.	81.364	190.	58.	1430.455	37.821	58.6	62.	77.	172.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	11	240.	242.727	290.	180.	801.818	28.316	188.	230.	260.	286.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	11	0.3	0.355	0.5	0.3	0.005	0.069	0.3	0.3	0.4	0.48
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	11	9.4	9.4	12.	8.5	0.882	0.939	8.54	8.8	9.6	11.52
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	11	120.	120.909	190.	90.	749.091	27.37	92.	100.	130.	180.
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	11	20.	15.455	20.	10.	27.273	5.222	10.	10.	20.	20.

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Annual Analysis for 1972 - Station GRCA0055

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	04/21/36-10/11/89	5	648.	670.4	824.	596.	7860.8	88.661	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	11	597.	624.455	791.	550.	5209.073	72.174	556.2	582.	656.	777.6
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	11	39100.	36454.545	44400.	15900.	68648727.273	8285.453	18660.	30900.	40900.	44380.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	11	0.86	0.875	1.12	0.75	0.01	0.101	0.76	0.81	0.89	1.092

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Annual Analysis for 1973 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	11	10.	10.227	14.	7.	7.218	2.687	7.	7.5	13.	13.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	11	13600.	14667.273	27400.	2140.	65498181.818	8093.095	2372.	10100.	22700.	26740.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	11	1000.	994.091	1080.	834.	4807.691	69.338	854.6	940.	1050.	1076.
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	11	8.1	8.064	8.3	7.8	0.031	0.175	7.8	7.9	8.2	8.28
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	11	8.1	8.031	8.3	7.8	0.032	0.178	7.8	7.9	8.2	8.28
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	11	0.008	0.009	0.016	0.005	0.	0.004	0.005	0.006	0.013	0.016
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	11	144.	144.727	156.	134.	45.218	6.724	134.8	139.	150.	155.4
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	11	175.	176.273	190.	163.	68.418	8.272	164.	169.	183.	189.2
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	11	0.5	0.564	0.7	0.5	0.007	0.081	0.5	0.5	0.6	0.7
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	11	0.03	0.03	0.09	0.	0.001	0.03	0.	0.	0.06	0.084
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	11	0.01	0.012	0.03	0.005	0.	0.008	0.005	0.005	0.02	0.028
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	11	310.	302.727	320.	280.	141.818	11.909	282.	290.	310.	318.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	11	160.	158.182	180.	140.	136.364	11.677	142.	150.	170.	178.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	11	79.	78.182	84.	73.	9.764	3.125	73.2	76.	80.	83.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	11	26.	25.909	27.	23.	1.891	1.375	23.2	25.	27.	27.
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	11	97.	94.455	110.	80.	76.273	8.733	80.8	86.	100.	108.
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	11	2.4	2.364	2.7	2.1	0.041	0.201	2.1	2.2	2.5	2.68
00932	SODIUM, PERCENT	10/16/25-02/14/83	11	40.	40.091	43.	38.	3.491	1.868	38.	38.	41.	43.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	11	4.	4.	4.5	3.6	0.092	0.303	3.6	3.7	4.2	4.48
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	11	84.	79.545	100.	62.	193.073	13.895	62.	64.	90.	98.8
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	11	250.	244.545	270.	230.	147.273	12.136	230.	230.	250.	266.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	11	0.3	0.318	0.5	0.2	0.016	0.125	0.2	0.2	0.4	0.5
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	11	8.1	8.109	9.2	7.6	0.173	0.416	7.64	7.9	8.2	9.02
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	11	100.	103.636	120.	80.	245.455	15.667	80.	90.	120.	120.
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	10	14.5	26.3	70.	5.	691.122	26.289	5.	5.	60.	69.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	10	655.5	656.4	696.	619.	677.156	26.022	620.1	632.25	680.5	695.2
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	11	632.	625.727	672.	568.	1085.218	32.943	569.6	597.	643.	669.8
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	11	23200.	25498.173	51499.9	3840.	201323196.328	14188.841	4280.	16900.	37000.	49079.92
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	11	0.88	0.882	0.95	0.77	0.003	0.051	0.784	0.86	0.92	0.948

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

Annual Analysis for 1974 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	11	10.	9.955	12.	7.5	2.273	1.508	7.6	8.	11.	11.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	11	19500.	17451.818	24400.	9070.	28240936.364	5314.22	9596.	12400.	22200.	24180.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	11	950.	945.545	1070.	836.	5298.873	72.793	842.8	870.	996.	1060.
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	7	8.2	8.1	8.3	7.8	0.033	0.183	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	7	8.2	8.065	8.3	7.8	0.035	0.187	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	7	0.006	0.009	0.016	0.005	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	11	139.	141.455	157.	126.	74.073	8.607	128.	137.	148.	156.
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	11	169.	172.455	191.	154.	107.473	10.367	156.4	167.	181.	189.8
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	7	0.	0.	0.	0.	0.	0.	**	**	**	**

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Annual Analysis for 1974 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	11	0.5	0.474	0.8	0.01	0.035	0.188	0.088	0.4	0.5	0.76
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	11	0.03	0.027	0.06	0.	0.001	0.025	0.	0.	0.06	0.06
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	11	0.01	0.011	0.02	0.005	0.	0.006	0.005	0.005	0.02	0.02
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	11	280.	281.818	320.	240.	556.364	23.587	244.	260.	300.	318.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	11	150.	141.	170.	81.	577.	24.021	90.8	130.	160.	168.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	11	72.	71.727	81.	64.	30.418	5.515	64.4	66.	76.	80.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	11	25.	25.	29.	17.	10.	3.162	18.2	24.	27.	28.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	11	90.	89.455	110.	72.	125.673	11.21	73.2	79.	98.	108.
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	11	2.3	2.309	3.1	1.9	0.103	0.321	1.92	2.1	2.4	2.98
00932	SODIUM, PERCENT	10/16/25-02/14/83	11	40.	40.455	50.	37.	13.073	3.616	37.	38.	41.	48.6
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	11	4.	4.009	4.5	3.6	0.061	0.247	3.64	3.8	4.2	4.44
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	11	79.	74.455	90.	52.	166.873	12.918	53.6	62.	85.	89.4
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	11	220.	218.182	250.	190.	376.364	19.4	192.	200.	240.	248.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	11	0.3	0.336	0.4	0.2	0.005	0.067	0.22	0.3	0.4	0.4
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	11	8.6	8.982	13.	7.7	2.206	1.485	7.76	8.1	9.3	12.38
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	11	110.	113.636	170.	80.	565.455	23.779	82.	100.	120.	162.
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	11	40.	56.818	280.	5.	6246.364	79.034	5.	5.	70.	242.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	11	595.	604.545	691.	539.	1712.273	41.38	544.8	574.	629.	680.4
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	11	578.	579.455	656.	523.	1731.873	41.616	526.	541.	613.	650.8
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	11	29900.	28063.636	37400.	15400.	53664545.455	7325.609	16360.	22600.	34400.	37020.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	11	0.81	0.822	0.94	0.73	0.003	0.058	0.738	0.78	0.86	0.926

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Annual Analysis for 1975 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	12	9.75	9.083	12.	5.	6.629	2.575	5.3	6.25	11.5	11.85
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	12	13200.	14490.	27500.	3310.	58708600.	7662.154	3490.	9395.	22000.	26480.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	12	981.5	998.417	1200.	860.	8378.265	91.533	874.1	943.25	1050.	1170.
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	4	7.85	7.825	8.1	7.5	0.102	0.32	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	4	7.782	7.741	8.1	7.5	0.112	0.335	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	4	0.017	0.018	0.032	0.008	0.	0.012	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	12	141.5	143.	170.	130.	119.455	10.93	130.9	135.5	145.	166.1
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	12	172.5	173.25	207.	158.	192.75	13.883	158.6	162.75	176.75	202.2
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	7	0.	0.857	6.	0.	5.143	2.268	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	12	0.5	0.458	0.5	0.3	0.004	0.067	0.33	0.4	0.5	0.5
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	12	0.03	0.02	0.06	0.	0.	0.02	0.	0.	0.03	0.051
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	12	0.01	0.009	0.02	0.005	0.	0.004	0.005	0.005	0.01	0.017
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	12	290.	282.5	320.	190.	1147.727	33.878	211.	272.5	300.	317.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	12	145.	138.917	170.	47.	1021.356	31.959	68.9	140.	150.	170.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	12	72.	69.167	83.	28.	194.515	13.947	39.1	67.5	77.	81.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	12	26.	26.167	29.	23.	2.515	1.586	23.6	25.	27.	28.7
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	12	91.	97.667	140.	85.	268.061	16.373	85.	88.25	99.75	134.
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	12	2.4	2.575	4.4	2.2	0.362	0.602	2.23	2.3	2.5	3.95
00932	SODIUM, PERCENT	10/16/25-02/14/83	12	41.	42.583	61.	39.	36.083	6.007	39.	40.	41.75	56.2
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	12	4.1	4.167	5.1	3.4	0.184	0.429	3.49	3.925	4.4	4.92
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	12	77.5	82.75	120.	71.	205.114	14.322	71.	73.	85.75	114.
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	12	225.	229.167	270.	210.	353.788	18.809	210.	212.5	245.	264.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	12	0.3	0.383	0.9	0.2	0.04	0.199	0.2	0.3	0.475	0.81
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	12	7.65	7.683	8.7	7.	0.265	0.515	7.03	7.175	8.1	8.52
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	12	110.	110.	130.	100.	90.909	9.535	100.	100.	117.5	127.
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	12 ##	5.	16.667	50.	5.	351.515	18.749	5.	5.	35.	50.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	12	617.	666.	1130.	577.	22453.455	149.845	581.8	601.25	645.75	1002.8
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	12	593.	605.167	677.	547.	1607.788	40.097	553.	573.5	644.5	670.1
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	11	21000.	27386.364	83900.	5740.	471228565.455	21707.8	5894.	14600.	37900.	75140.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	13	0.84	0.902	1.54	0.78	0.039	0.196	0.792	0.82	0.875	1.308

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Annual Analysis for 1976 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	10	9.5	9.75	13.	6.5	4.625	2.151	6.55	8.125	12.	12.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	11	17000.	14972.727	20700.	4580.	29671861.818	5447.188	5068.	11400.	19300.	20460.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	11	917.	914.636	1030.	790.	5982.855	77.349	794.	830.	980.	1022.
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	10	8.	8.	8.2	7.8	0.016	0.125	7.81	7.9	8.05	8.2
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	10	8.	7.984	8.2	7.8	0.016	0.126	7.81	7.9	8.05	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	10	0.01	0.01	0.016	0.006	0.	0.003	0.006	0.009	0.013	0.016
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	11	138.	139.	155.	126.	70.2	8.379	126.6	134.	144.	153.6
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	11	167.	168.182	189.	154.	91.364	9.558	154.6	163.	175.	186.4
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	11	0.	0.636	7.	0.	4.455	2.111	0.	0.	0.	5.6
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	11	0.5	0.5	0.7	0.4	0.008	0.089	0.4	0.4	0.5	0.68
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	11	0.	0.019	0.12	0.	0.001	0.036	0.	0.	0.03	0.102
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	11 ##	0.005	0.01	0.04	0.005	0.	0.01	0.005	0.005	0.01	0.034
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	11	290.	288.182	310.	250.	316.364	17.787	254.	280.	300.	310.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	11	150.	150.909	170.	120.	149.091	12.21	126.	150.	160.	168.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	11	73.	73.	80.	62.	27.	5.196	63.2	69.	77.	79.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	11	26.	25.727	28.	23.	2.618	1.618	23.2	24.	27.	27.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	11	90.	88.545	100.	77.	83.073	9.114	77.4	79.	97.	100.
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	11	2.3	2.282	2.5	2.	0.036	0.189	2.02	2.1	2.5	2.5
00932	SODIUM, PERCENT	10/16/25-02/14/83	11	40.	39.636	42.	38.	2.055	1.433	38.	38.	41.	41.8
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	11	4.	3.955	4.3	3.6	0.053	0.23	3.62	3.7	4.1	4.3
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	11	75.	75.727	86.	63.	63.618	7.976	63.4	70.	83.	85.6
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	11	230.	225.455	250.	190.	327.273	18.091	194.	210.	240.	250.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	11	0.3	0.3	0.4	0.2	0.002	0.045	0.22	0.3	0.3	0.38
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	11	7.2	6.982	8.3	4.7	0.798	0.893	5.02	6.9	7.4	8.12
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	11	100.	98.182	110.	80.	76.364	8.739	82.	90.	100.	110.
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	11 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	11	600.	605.818	658.	558.	1192.364	34.531	558.	581.	639.	655.8
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	11	591.	585.636	643.	518.	1589.655	39.87	522.2	549.	622.	639.4
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	11	28200.	24470.909	32600.	7180.	75543309.091	8691.565	7964.	19000.	31200.	32400.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	11	0.82	0.825	0.89	0.76	0.002	0.045	0.76	0.79	0.87	0.888

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Annual Analysis for 1977 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	11	11.	11.727	18.5	7.	14.018	3.744	7.2	8.	15.	17.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	11	9290.	9827.273	27800.	1960.	59546521.818	7716.639	2040.	3100.	13900.	25780.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	11	1000.	1039.545	1500.	880.	32612.273	180.589	885.	910.	1100.	1444.
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	11	8.1	8.036	8.2	7.5	0.045	0.211	7.56	8.	8.2	8.2
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	11	8.1	7.976	8.2	7.5	0.048	0.22	7.56	8.	8.2	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	11	0.008	0.011	0.032	0.006	0.	0.007	0.006	0.006	0.01	0.028
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	11	140.	146.364	200.	127.	418.855	20.466	127.6	130.	150.	192.
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	11	170.	177.273	240.	155.	544.018	23.324	156.	160.	180.	230.
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	5	0.5	0.48	0.6	0.4	0.007	0.084	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	5	0.	0.018	0.06	0.	0.001	0.027	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	5 ##	0.005	0.009	0.02	0.005	0.	0.007	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	11	300.	303.636	340.	270.	465.455	21.574	272.	280.	320.	338.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	11	150.	160.	210.	140.	520.	22.804	140.	140.	180.	204.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	11	78.	77.364	89.	66.	45.655	6.757	66.4	73.	82.	88.2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	11	27.	27.	32.	23.	6.	2.449	23.4	25.	29.	31.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	11	98.	110.364	200.	83.	1162.255	34.092	83.4	89.	120.	188.
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	11	2.5	2.755	4.8	2.2	0.571	0.755	2.2	2.3	2.9	4.5
00932	SODIUM, PERCENT	10/16/25-02/14/83	11	41.	43.	56.	39.	24.6	4.96	39.	40.	44.	54.2
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	11	4.1	4.282	6.2	3.7	0.586	0.765	3.7	3.8	4.4	6.
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	11	88.	105.455	210.	72.	1867.673	43.217	72.2	75.	111.	200.

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Annual Analysis for 1977 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	11	240.	240.	270.	210.	340.	18.439	210.	230.	250.	268.
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	11	0.3	0.295	0.5	0.05	0.012	0.111	0.08	0.3	0.3	0.48
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	11	8.	8.709	17.	7.1	8.065	2.84	7.1	7.1	8.6	15.44
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	11	110.	126.364	230.	100.	1705.455	41.297	100.	100.	130.	220.
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	11	30.	135.	890.	5.	75090.	274.026	5.	5.	60.	790.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	11	656.	684.455	924.	582.	10182.473	100.908	584.2	617.	724.	898.6
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	11	628.	661.909	903.	551.	10452.091	102.235	551.6	601.	714.	876.2
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	11	17300.	17209.091	49200.	3830.	170587109.091	13060.9	4242.	6670.	23800.	44920.
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	11	0.89	0.93	1.26	0.79	0.019	0.137	0.794	0.84	0.98	1.224

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Annual Analysis for 1978 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	7	11.	11.143	14.	9.	4.81	2.193	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	8	14050.	14980.	26000.	5880.	47006971.429	6856.163	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	8	957.5	966.875	1050.	850.	3849.554	62.045	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	8	8.1	8.075	8.4	7.8	0.034	0.183	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	8	8.1	8.042	8.4	7.8	0.035	0.187	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	8	0.008	0.009	0.016	0.004	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	8	140.	137.5	160.	120.	164.286	12.817	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	8	170.	167.5	190.	150.	164.286	12.817	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	8	0.	0.125	1.	0.	0.125	0.354	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	6	0.5	0.533	1.	0.1	0.083	0.288	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	7	310.	314.286	340.	290.	295.238	17.182	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	7	180.	178.571	220.	140.	580.952	24.103	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	7	79.	79.429	88.	74.	21.286	4.614	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	7	28.	28.143	31.	24.	4.476	2.116	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	7	110.	103.143	110.	89.	83.476	9.137	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	7	2.6	2.529	2.7	2.2	0.039	0.198	**	**	**	**
00932	SODIUM, PERCENT	10/16/25-02/14/83	7	41.	41.143	43.	39.	2.81	1.676	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	7	4.3	4.229	4.6	3.8	0.079	0.281	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	8	88.	87.	95.	70.	55.143	7.426	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	8	260.	258.75	280.	210.	498.214	22.321	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	8	0.3	0.338	0.5	0.3	0.006	0.074	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	8	7.8	7.738	8.6	6.5	0.394	0.628	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	8	130.	126.25	140.	110.	112.5	10.607	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	7	20.	35.	160.	5.	3133.333	55.976	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	8	684.5	666.5	717.	609.	1794.	42.356	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	7	675.	652.714	685.	606.	1203.571	34.693	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	8	25700.	27087.5	48900.	11100.	167869821.429	12956.459	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	8	0.93	0.908	0.98	0.83	0.003	0.059	**	**	**	**

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Annual Analysis for 1979 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	6	9.	8.833	11.	6.5	2.667	1.633	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	7	11200.	13537.143	23700.	8140.	35514723.81	5959.423	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	7	1000.	1011.429	1200.	865.	10839.286	104.112	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	6	8.1	8.1	8.5	7.7	0.068	0.261	**	**	**	**

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Annual Analysis for 1979 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	6	8.1	8.035	8.5	7.7	0.073	0.27	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	6	0.008	0.009	0.02	0.003	0.	0.006	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	7	130.	125.714	150.	110.	195.238	13.973	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	5	150.	152.	180.	130.	370.	19.235	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	7	0.5	0.4	0.7	0.01	0.066	0.258	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	7	280.	281.429	320.	250.	447.619	21.157	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	7	160.	157.143	180.	140.	157.143	12.536	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	7	72.	71.857	82.	62.	35.476	5.956	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	7	25.	25.	29.	18.	11.667	3.416	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	7	93.	97.857	120.	85.	168.476	12.98	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	7	2.4	2.529	3.2	2.2	0.162	0.403	**	**	**	**
00932	SODIUM, PERCENT	10/16/25-02/14/83	7	41.	44.	50.	39.	22.667	4.761	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	7	4.3	4.057	4.6	2.1	0.783	0.885	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	7	93.	87.286	110.	64.	247.905	15.745	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	7	250.	254.286	280.	230.	295.238	17.182	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	7	0.3	0.314	0.4	0.3	0.001	0.038	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	7	6.5	5.443	8.	0.6	7.436	2.727	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	7	110.	115.714	150.	100.	361.905	19.024	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	7 ##	5.	7.143	20.	5.	32.143	5.669	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	7	652.	638.571	702.	548.	3212.286	56.677	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	7	622.	623.857	668.	587.	806.476	28.399	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	7	20800.	22785.714	37300.	14700.	75308095.238	8678.024	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	7	0.89	0.869	0.95	0.75	0.006	0.076	**	**	**	**

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Annual Analysis for 1980 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	7	9.5	7.714	12.	2.	17.821	4.222	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	7	14300.	16414.286	26300.	6700.	45858095.238	6771.861	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	6	935.	940.	1130.	810.	16160.	127.122	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	6	8.1	8.067	8.3	7.7	0.047	0.216	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	6	8.089	8.018	8.3	7.7	0.05	0.223	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	6	0.008	0.01	0.02	0.005	0.	0.005	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	5	140.	140.	150.	130.	100.	10.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	7	0.4	0.429	0.6	0.3	0.012	0.111	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	2	0.045	0.045	0.06	0.03	0.	0.021	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	7	250.	260.	320.	240.	766.667	27.689	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	7	120.	123.286	180.	91.	891.571	29.859	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	7	64.	66.143	81.	61.	45.81	6.768	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	7	23.	23.429	29.	20.	8.286	2.878	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	7	90.	93.429	120.	76.	292.619	17.106	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	7	2.4	2.529	3.4	2.1	0.266	0.515	**	**	**	**
00932	SODIUM, PERCENT	10/16/25-02/14/83	7	40.	42.857	51.	39.	25.143	5.014	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	7	4.1	4.014	4.8	3.4	0.198	0.445	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	7	81.	74.	87.	57.	130.333	11.416	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	7	210.	210.	250.	190.	366.667	19.149	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	7	0.3	0.329	0.4	0.3	0.002	0.049	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	7	8.	8.657	11.	7.7	1.63	1.277	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	6	105.	106.667	130.	80.	426.667	20.656	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	7	10.	15.	30.	5.	75.	8.66	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	7	591.	598.571	676.	550.	2142.286	46.285	**	**	**	**

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Annual Analysis for 1980 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	7	542.	564.429	646.	518.	2432.952	49.325	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	7	24200.	26100.	40400.	10700.	90893333.333	9533.8	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	7	0.8	0.813	0.92	0.75	0.004	0.064	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	1	5650.	5650.	5650.	5650.	0.	0.	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	1	218000.	218000.	218000.	218000.	0.	0.	**	**	**	**

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Annual Analysis for 1981 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	2	10.5	10.5	11.	10.	0.5	0.707	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	2	19200.	19200.	22900.	15500.	27380000.	5232.59	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	2	895.	895.	930.	860.	2450.	49.497	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	2	8.25	8.25	8.3	8.2	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	2	8.247	8.247	8.3	8.2	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	2	0.006	0.006	0.006	0.005	0.	0.001	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	1	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	2	255.	255.	260.	250.	50.	7.071	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	2	130.	130.	130.	130.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	2	63.5	63.5	64.	63.	0.5	0.707	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	2	23.5	23.5	24.	23.	0.5	0.707	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	2	82.5	82.5	85.	80.	12.5	3.536	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	2	2.25	2.25	2.3	2.2	0.005	0.071	**	**	**	**
00932	SODIUM, PERCENT	10/16/25-02/14/83	2	40.5	40.5	41.	40.	0.5	0.707	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	2	3.45	3.45	3.5	3.4	0.005	0.071	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	2	62.5	62.5	64.	61.	4.5	2.121	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	2	220.	220.	230.	210.	200.	14.142	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	2	8.4	8.4	8.7	8.1	0.18	0.424	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	2	85.	85.	90.	80.	50.	7.071	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	2	65.	65.	120.	10.	6050.	77.782	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	2	565.	565.	566.	564.	2.	1.414	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	2	541.5	541.5	559.	524.	612.5	24.749	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	2	29300.	29300.	34900.	23700.	62720000.	7919.596	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	2	0.77	0.77	0.77	0.77	0.	0.	**	**	**	**

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Annual Analysis for 1982 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	2	12.5	12.5	13.	12.	0.5	0.707	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	2	17450.	17450.	20500.	14400.	18605000.	4313.351	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	2	942.5	942.5	990.	895.	4512.5	67.175	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	2	8.	8.	8.1	7.9	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	2	7.989	7.989	8.1	7.9	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	2	0.01	0.01	0.013	0.008	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	2	130.	130.	130.	130.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	2	0.5	0.5	0.6	0.4	0.02	0.141	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	2 ##	0.018	0.018	0.03	0.005	0.	0.018	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	2	290.	290.	290.	290.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	2	145.	145.	160.	130.	450.	21.213	**	**	**	**

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Annual Analysis for 1982 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	2	71.	71.	72.	70.	2.	1.414	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	2	26.5	26.5	27.	26.	0.5	0.707	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	2	93.5	93.5	96.	91.	12.5	3.536	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	2	2.6	2.6	2.7	2.5	0.02	0.141	**	**	**	**
00932	SODIUM, PERCENT	10/16/25-02/14/83	2	41.	41.	42.	40.	2.	1.414	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	2	4.	4.	4.1	3.9	0.02	0.141	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	2	74.5	74.5	76.	73.	4.5	2.121	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	2	240.	240.	250.	230.	200.	14.142	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	2	7.75	7.75	7.9	7.6	0.045	0.212	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	2	100.	100.	100.	100.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	2 ##	3.25	3.25	5.	1.5	6.125	2.475	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	2	618.	618.	627.	609.	162.	12.728	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	2	603.	603.	617.	589.	392.	19.799	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	2	29200.	29200.	34700.	23700.	60500000.	7778.175	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	2	0.84	0.84	0.85	0.83	0.	0.014	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	1	594.	594.	594.	594.	0.	0.	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	1	23100.	23100.	23100.	23100.	0.	0.	**	**	**	**

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Annual Analysis for 1983 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	5	11.5	11.2	13.	9.	2.825	1.681	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	5	28100.	35772.	62300.	9060.	533390920.	23095.258	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	5	880.	904.6	1025.	803.	7488.3	86.535	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	4	7.9	7.925	8.3	7.6	0.089	0.299	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	4	7.889	7.854	8.3	7.6	0.096	0.31	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	4	0.013	0.014	0.025	0.005	0.	0.009	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	4	145.	140.	150.	120.	200.	14.142	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	5	0.4	0.38	0.5	0.3	0.007	0.084	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	5	0.01	0.017	0.03	0.005	0.	0.012	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	1	270.	270.	270.	270.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	1	120.	120.	120.	120.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	5	68.	67.2	69.	64.	4.7	2.168	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	5	25.	23.8	25.	20.	4.7	2.168	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	5	77.	81.6	100.	72.	121.3	11.014	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/16/25-02/14/83	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	5	3.5	3.46	3.6	3.2	0.028	0.167	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	5	57.	64.2	91.	52.	264.7	16.27	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	5	220.	220.	230.	210.	50.	7.071	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	5	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	5	7.7	7.68	7.9	7.5	0.022	0.148	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	4	95.	95.	100.	90.	33.333	5.774	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	5	15.	14.6	22.	7.	28.3	5.32	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	5	565.	579.4	639.	538.	1623.3	40.29	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	1	610.	610.	610.	610.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	1	15600.	15600.	15600.	15600.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	1	0.87	0.87	0.87	0.87	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	3	1130.	1703.333	2940.	1040.	1149033.333	1071.93	**	**	**	**

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Annual Analysis for 1984 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	3	10.5	11.	13.	9.5	3.25	1.803	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	3	25900.	30566.667	42100.	23700.	100973333.333	10048.549	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	3	780.	776.667	790.	760.	233.333	15.275	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	2	8.15	8.15	8.2	8.1	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	2	8.147	8.147	8.2	8.1	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	2	0.007	0.007	0.008	0.006	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	3	116.	116.333	121.	112.	20.333	4.509	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	3	0.4	0.367	0.4	0.3	0.003	0.058	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	3	0.03	0.035	0.07	0.005	0.001	0.033	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	3	61.	61.333	63.	60.	2.333	1.528	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	3	23.	22.333	24.	20.	4.333	2.082	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	3	67.	67.	69.	65.	4.	2.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	3	3.1	3.1	3.4	2.8	0.09	0.3	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	3	50.	48.667	51.	45.	10.333	3.215	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	3	190.	193.333	200.	190.	33.333	5.774	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	3	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	3	8.3	8.333	8.6	8.1	0.063	0.252	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	3	90.	86.667	90.	80.	33.333	5.774	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	3	7.	5.5	8.	1.5	12.25	3.5	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	3	501.	504.	515.	496.	97.	9.849	**	**	**	**

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Annual Analysis for 1985 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	5	10.	10.32	12.5	8.1	2.962	1.721	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	5	26500.	25000.	27000.	18100.	14930000.	3863.936	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	5	733.	718.6	780.	670.	2127.3	46.123	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	5	8.3	8.1	8.3	7.4	0.155	0.394	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	5	8.3	7.913	8.3	7.4	0.199	0.446	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	5	0.005	0.012	0.04	0.005	0.	0.015	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	5	126.	125.6	132.	121.	22.3	4.722	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	5	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	5 ##	0.005	0.006	0.01	0.005	0.	0.002	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	5	60.	60.	64.	57.	7.5	2.739	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	5	21.	21.4	22.	21.	0.3	0.548	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	5	62.	61.4	64.	59.	5.3	2.302	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	5	3.	3.12	3.5	2.9	0.057	0.239	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	5	44.	46.8	52.	43.	18.7	4.324	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	5	180.	176.	180.	170.	30.	5.477	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	5	0.3	0.26	0.3	0.2	0.003	0.055	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	5	9.	11.98	24.	8.8	45.192	6.722	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	5	80.	98.	210.	40.	4270.	65.345	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	5	10.	10.	15.	5.	17.	4.123	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	5	452.	465.4	508.	439.	894.3	29.905	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	3	888.	711.	952.	293.	132067.	363.41	**	**	**	**

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

Annual Analysis for 1986 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	4	11.65	11.075	13.	8.	4.889	2.211	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	3	23000.	24300.	27100.	22800.	5890000.	2426.932	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	3	720.	760.	900.	660.	15600.	124.9	**	**	**	**
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	3	8.	8.067	8.2	8.	0.013	0.115	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	3	8.	8.057	8.2	8.	0.013	0.116	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	3	0.01	0.009	0.01	0.006	0.	0.002	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	2	136.	136.	140.	132.	32.	5.657	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	4	0.4	0.4	0.5	0.3	0.007	0.082	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	4 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	4	59.5	59.5	65.	54.	21.667	4.655	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	4	21.5	22.25	25.	21.	3.583	1.893	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	4	57.5	59.75	70.	54.	50.917	7.136	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	4	3.05	3.425	4.8	2.8	0.869	0.932	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	4	41.	44.75	60.	37.	107.583	10.372	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	4	160.	172.5	220.	150.	1025.	32.016	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	4	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	4	8.85	8.925	9.3	8.7	0.069	0.263	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	4	75.	75.	80.	70.	33.333	5.774	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	4	8.	8.	8.	8.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	4	461.	470.5	539.	421.	2591.	50.902	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	4	177.5	229.75	433.	131.	19208.917	138.596	**	**	**	**

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

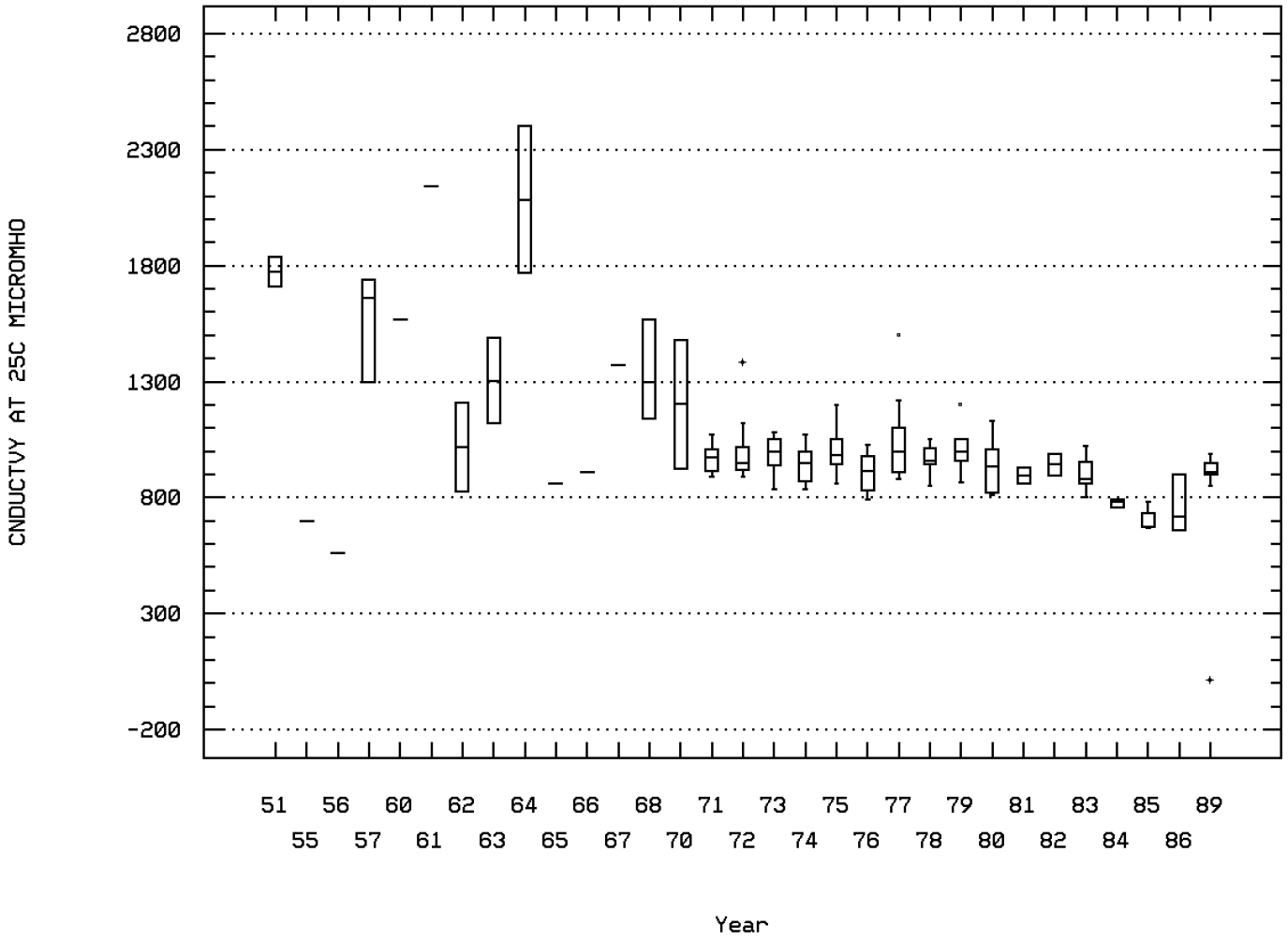
Annual Analysis for 1989 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	38	10.5	10.5	11.	10.	0.149	0.386	10.	10.	11.	11.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	22	5525.	7539.091	16300.	5430.	14260980.087	3776.371	5440.	5467.5	8212.5	15900.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	17	910.	868.294	990.	11.	50380.096	224.455	682.2	895.	950.	978.
00400	PH (STANDARD UNITS)	02/01/45-10/11/89	16	8.345	8.352	8.41	8.31	0.001	0.031	8.317	8.323	8.38	8.403
00400	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	16	8.345	8.351	8.41	8.31	0.001	0.031	8.317	8.322	8.38	8.403
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	16	0.005	0.004	0.005	0.004	0.	0.	0.004	0.004	0.005	0.005
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	15	0.3	0.34	0.4	0.3	0.003	0.051	0.3	0.3	0.4	0.4
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	15 ##	0.005	0.008	0.03	0.005	0.	0.007	0.005	0.005	0.005	0.024
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	6	66.	66.333	69.	64.	3.467	1.862	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	6	24.	24.167	25.	23.	0.567	0.753	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	6	95.5	91.5	100.	80.	83.1	9.116	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	6	3.65	3.65	3.9	3.5	0.023	0.152	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	6	96.5	90.	110.	68.	302.8	17.401	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	6	220.	218.333	220.	210.	16.667	4.082	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	6	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	6	8.05	8.033	8.2	7.8	0.027	0.163	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	6	598.5	596.	625.	564.	763.6	27.633	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	5	61.	144.8	341.	4.	25820.7	160.688	**	**	**	**

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

Station: GRCA0055 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



COLORADO R. NEAR GRAND CANYON, ARIZ.

Seasonal Analysis for Season #1: 10/01 to 3/14 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	122	10.	9.83	21.7	1.7	7.766	2.787	7.	8.45	11.	12.27
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/18/83-10/11/89	16	23.25	23.406	31.	12.	24.341	4.934	16.55	20.125	28.125	30.3
00025	BAROMETRIC PRESSURE (MM OF HG)	02/14/83-10/11/89	42	706.	705.881	710.	700.	3.668	1.915	703.	705.	707.	708.
00060p	FLOW, STREAM, MEAN DAILY CFS	08/23/25-09/29/72	20	10410.	12476.	38300.	2370.	63217930.526	7950.97	5350.	6830.	17150.	20000.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	114	11050.	12132.982	28100.	3300.	41765936.159	6462.657	5440.	5997.5	17725.	21300.
00065	STAGE, STREAM (FEET)	05/18/83-10/11/89	43	3.78	5.749	13.83	3.01	10.736	3.277	3.69	3.71	8.28	11.924
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	83	940.	959.59	1660.	11.	41918.147	204.739	810.	890.	1000.	1132.
00300	OXYGEN, DISSOLVED MG/L	05/18/83-10/11/89	41	10.6	10.583	11.9	9.5	0.138	0.372	10.22	10.4	10.75	11.
00400p	PH (STANDARD UNITS)	02/01/45-10/11/89	76	8.1	8.057	8.5	7.3	0.071	0.267	7.67	7.9	8.3	8.353
00400p	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	76	8.1	7.964	8.5	7.3	0.08	0.283	7.67	7.9	8.3	8.353
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	76	0.008	0.011	0.05	0.003	0.	0.009	0.004	0.005	0.013	0.022
00403	PH, LAB, STANDARD UNITS SU	10/07/80-10/11/89	16	8.15	8.056	8.2	7.4	0.048	0.219	7.68	7.925	8.2	8.2
00403	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-10/11/89	16	8.147	7.986	8.2	7.4	0.053	0.231	7.68	7.925	8.2	8.2
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-10/11/89	16	0.007	0.01	0.04	0.006	0.	0.008	0.006	0.006	0.012	0.023
00405	CARBON DIOXIDE (MG/L AS CO2)	02/01/45-06/01/79	31	2.4	3.477	20.	0.7	12.672	3.56	1.72	1.9	3.2	7.84
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	60	137.5	140.5	203.	110.	244.627	15.641	126.	130.25	147.75	156.7
00440p	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	52	169.	175.788	248.	130.	501.268	22.389	154.3	163.	182.75	215.4
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	40	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	69	0.4	0.46	1.2	0.	0.038	0.195	0.3	0.4	0.5	0.7
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	34	0.03	0.031	0.12	0.	0.001	0.03	0.	0.	0.053	0.075
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	54 ##	0.008	0.011	0.07	0.005	0.	0.011	0.005	0.005	0.01	0.025
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	63	280.	296.302	533.	230.	3198.279	56.553	250.	270.	310.	367.6
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	62	150.	154.919	330.	43.	2169.19	46.575	120.	130.	162.5	200.1
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	75	70.	73.867	141.	54.	226.414	15.047	62.6	66.	77.	88.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	75	25.	25.6	44.	14.	20.946	4.577	21.6	23.	27.	31.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	73	91.	94.945	200.	54.	525.525	22.924	76.	82.	100.	115.6
00931p	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	63	2.4	2.519	5.7	1.9	0.336	0.58	2.1	2.2	2.6	3.16
00932p	SODIUM, PERCENT	10/16/25-02/14/83	57	41.	41.667	64.	36.	20.333	4.509	38.	39.	43.	49.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	65	4.1	4.049	8.4	2.8	0.521	0.722	3.4	3.7	4.3	4.6
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	68	77.5	81.779	220.	37.	772.473	27.793	60.2	67.25	89.75	101.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	68	220.	226.074	443.	160.	1348.875	36.727	190.	210.	240.	251.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	64	0.3	0.316	0.6	0.1	0.007	0.082	0.2	0.3	0.3	0.4
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	71	8.1	8.554	13.	3.7	2.613	1.616	7.1	7.7	9.2	11.
01020p	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	57	100.	105.795	210.	0.3	923.68	30.392	80.	90.	110.	132.
01046p	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	58	10.	37.666	890.	0.	14015.408	118.387	5.	5.	30.	72.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	63	617.	632.857	1080.	421.	14647.931	121.029	548.8	568.	647.	759.2
70301p	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	56	590.	609.946	1060.	518.	8586.561	92.664	538.7	556.75	625.75	675.9
70302p	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	62	23850.	24539.527	94210.	5740.	169547169.348	13021.028	9757.	15562.525	31225.	37210.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	62	0.84	0.884	1.47	0.73	0.027	0.163	0.753	0.79	0.895	1.108
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	01/02/51-10/11/89	34	95.5	87.941	100.	10.	375.209	19.37	61.5	84.	99.	100.
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	01/02/51-07/10/71	23	36.	32.087	68.	2.	415.538	20.385	5.4	11.	52.	55.8
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	38	56.	48.474	85.	3.	545.553	23.357	9.8	24.5	64.75	72.6
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	39	78.	63.41	98.	1.	906.143	30.102	13.	44.	86.	97.
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/07/59-12/24/71	22	71.5	64.727	100.	6.	1011.541	31.805	9.4	45.5	95.25	99.4
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/07/59-12/24/71	20	97.5	86.35	100.	26.	445.082	21.097	41.6	78.25	99.	99.9
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	11/10/59-12/24/71	18	100.	97.667	100.	85.	18.118	4.256	88.6	97.	100.	100.
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/23/25-08/01/75	17	2.4	2.565	4.3	1.9	0.435	0.659	1.9	2.1	2.7	3.74
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	53	1130.	5769.34	29400.	4.	75883944.729	8711.139	259.	591.5	6745.	22160.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	37	5310.	86280.	1180000.	640.47	388763700.	217689.604	1676.	2915.	37500.	283200.

** - Less than 9 observations ## - Computed 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: 3/15 to 6/19 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	54	11.	12.53	24.4	7.	18.309	4.279	9.	9.9	13.25	20.25
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/18/83-10/11/89	5	30.	29.	44.5	18.5	110.375	10.506	**	**	**	**

** - Less than 9 observations ## - Computed 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: 3/15 to 6/19 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00025	BAROMETRIC PRESSURE (MM OF HG)	02/14/83-10/11/89	2	702.	702.	703.	701.	2.	1.414	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	08/23/25-09/29/72	13	20500.	26716.923	63600.	8130.	259847706.41	16119.792	8566.	16800.	35585.	58480.
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	58	18650.	25805.345	120000.	1960.	487983172.686	22090.341	8210.	12125.	30250.	55250.
00065	STAGE, STREAM (FEET)	05/18/83-10/11/89	5	13.65	15.23	20.9	13.2	10.402	3.225	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	32	1000.	1006.719	1500.	563.	25360.66	159.25	801.1	951.25	1071.5	1200.
00300	OXYGEN, DISSOLVED MG/L	05/18/83-10/11/89	2	10.8	10.8	10.9	10.7	0.02	0.141	**	**	**	**
00400p	PH (STANDARD UNITS)	02/01/45-10/11/89	26	8.05	8.023	8.4	7.6	0.041	0.203	7.77	7.875	8.2	8.3
00400p	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	26	8.047	7.977	8.4	7.6	0.043	0.208	7.77	7.875	8.2	8.3
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	26	0.009	0.011	0.025	0.004	0.	0.005	0.005	0.006	0.013	0.017
00403	PH, LAB, STANDARD UNITS SU	10/07/80-10/11/89	6	8.1	8.1	8.2	8.	0.008	0.089	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-10/11/89	6	8.1	8.092	8.2	8.	0.008	0.09	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-10/11/89	6	0.008	0.008	0.01	0.006	0.	0.002	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	02/01/45-06/01/79	13	2.2	4.369	23.	1.4	33.334	5.774	1.44	1.65	4.6	16.08
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	29	145.	145.276	200.	110.	284.635	16.871	120.	140.	153.5	160.
00440p	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	27	180.	182.407	240.	140.	487.481	22.079	157.2	172.	190.	223.4
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	23	0.	0.304	7.	0.	2.13	1.46	0.	0.	0.	0.
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	30	0.5	0.543	1.	0.09	0.037	0.191	0.31	0.4	0.7	0.8
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	13	0.	0.018	0.06	0.	0.001	0.023	0.	0.	0.03	0.06
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	19 ##	0.005	0.01	0.03	0.005	0.	0.008	0.005	0.005	0.01	0.03
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	29	310.	305.793	425.	141.	1932.599	43.961	250.	295.	320.	330.
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	29	160.	155.793	243.	22.	1687.313	41.077	106.	145.	180.	190.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	34	77.5	75.412	89.	35.	102.734	10.136	62.	72.	82.	84.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	34	27.	25.765	32.	13.	18.428	4.293	19.	24.75	28.	29.5
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	34	97.	94.794	200.	28.	847.138	29.106	60.	81.5	102.5	120.
00931p	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	29	2.5	2.531	4.8	0.8	0.437	0.661	1.8	2.3	2.75	3.3
00932p	SODIUM, PERCENT	10/16/25-02/14/83	28	41.	41.179	56.	20.	31.189	5.585	38.	39.25	43.5	47.1
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	32	4.1	4.106	6.2	2.1	0.671	0.819	3.2	3.825	4.375	5.48
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	32	84.5	85.063	210.	22.	1130.06	33.616	50.6	68.5	94.	117.3
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	32	250.	237.531	300.	91.	1558.257	39.475	186.	222.5	260.	270.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	31	0.3	0.342	0.9	0.2	0.015	0.12	0.3	0.3	0.3	0.48
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	32	8.25	8.284	13.	4.2	2.43	1.559	6.68	7.6	9.275	9.88
01020p	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	31	110.	113.226	230.	70.	889.247	29.82	82.	100.	120.	130.
01046p	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	32	12.	41.375	390.	5.	6572.5	81.071	5.	5.	28.	163.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	26	644.	636.231	924.	347.	12840.425	113.316	489.4	561.75	697.5	745.9
70301p	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	26	644.5	650.5	903.	294.	9337.14	96.629	603.3	622.75	677.5	741.7
70302p	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	27	23100.	26904.444	59590.	3830.	204205563.642	14290.051	6514.	17500.	36300.	49852.06
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	28	0.89	0.886	1.26	0.4	0.025	0.159	0.722	0.85	0.958	0.999
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	01/02/51-10/11/89	21	58.	58.524	98.	6.	542.762	23.297	33.	39.	79.	92.2
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	01/02/51-07/10/71	20	13.	16.	48.	1.	145.158	12.048	2.1	6.25	24.25	30.9
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	30	21.	22.633	65.	2.	226.24	15.041	4.	12.75	33.	38.8
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	30	33.	33.467	84.	3.	457.775	21.396	6.	17.25	45.75	62.8
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/07/59-12/24/71	21	35.	43.238	97.	6.	727.19	26.966	10.	24.	61.5	88.8
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/07/59-12/24/71	21	77.	72.19	100.	36.	447.862	21.163	39.6	49.	90.5	99.4
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	11/10/59-12/24/71	19	96.	94.211	100.	76.	46.398	6.812	84.	91.	100.	100.
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/23/25-08/01/75	8	2.3	2.05	3.	0.	0.769	0.877	**	**	**	**
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	39	3460.	5347.128	19200.	131.	32059203.694	5662.085	359.	789.	11100.	15800.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	26	19000.	249788.077	1440000.	1040.178	501664584.154	422494.573	2813.	5095.	388250.	1038500.

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Seasonal Analysis for Season #3: 6/20 to 9/30 - Station GRCA0055

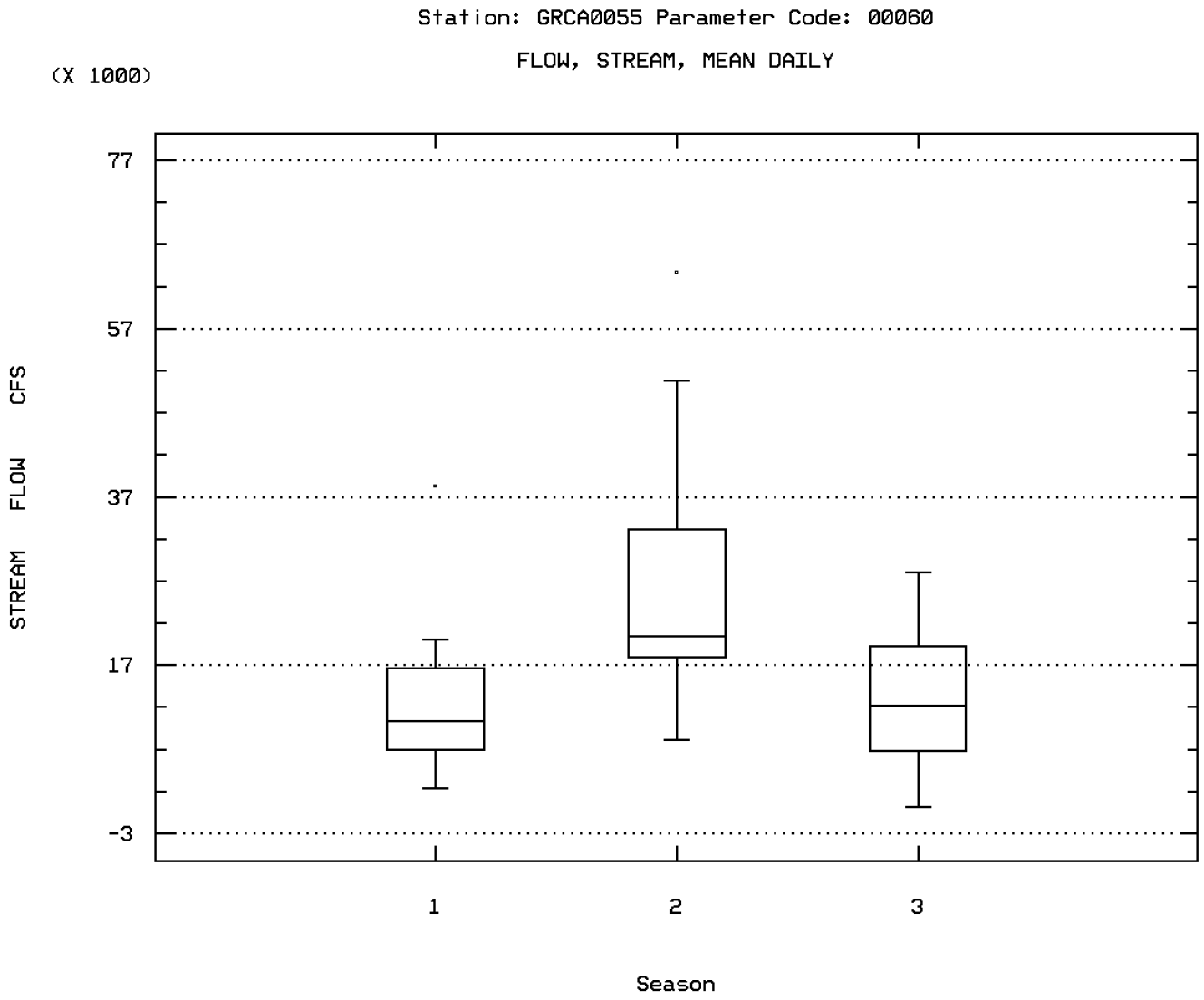
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/01/43-10/11/89	47	13.	15.26	26.7	7.5	25.278	5.028	10.5	11.5	18.	24.52
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/18/83-10/11/89	4	33.5	34.	39.	30.	15.333	3.916	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	02/14/83-10/11/89	2	700.	700.	700.	700.	0.	0.	**	**	**	**
00060p	FLOW, STREAM, MEAN DAILY CFS	08/23/25-09/29/72	16	12250.	13013.75	28000.	210.	62981811.667	7936.108	1729.	6700.	19350.	24430.

** - Less than 9 observations ## - Computed 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: 6/20 to 9/30 - Station GRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/01/48-10/11/89	49	20000.	17844.49	57400.	1560.	132120491.922	11494.368	3440.	9705.	23500.	27500.
00065	STAGE, STREAM (FEET)	05/18/83-10/11/89	5	13.56	14.59	19.98	12.5	9.276	3.046	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/36-10/11/89	43	950.	1090.372	2400.	675.	150527.477	387.979	753.	870.	1050.	1758.
00300	OXYGEN, DISSOLVED MG/L	05/18/83-10/11/89	2	9.85	9.85	9.9	9.8	0.005	0.071	**	**	**	**
00400p	PH (STANDARD UNITS)	02/01/45-10/11/89	37	8.	7.93	8.4	7.2	0.076	0.276	7.48	7.8	8.15	8.22
00400p	CONVERTED PH (STANDARD UNITS)	02/01/45-10/11/89	37	8.	7.833	8.4	7.2	0.086	0.293	7.48	7.8	8.15	8.22
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/01/45-10/11/89	37	0.01	0.015	0.063	0.004	0.	0.012	0.006	0.007	0.016	0.033
00403	PH, LAB, STANDARD UNITS SU	10/07/80-10/11/89	7	8.1	8.071	8.2	7.9	0.009	0.095	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/07/80-10/11/89	7	8.1	8.062	8.2	7.9	0.009	0.096	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/80-10/11/89	7	0.008	0.009	0.013	0.006	0.	0.002	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	02/01/45-06/01/79	17	2.7	3.653	14.	1.1	10.141	3.185	1.34	1.95	3.85	9.76
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/23/25-12/08/86	36	138.5	141.139	189.	116.	312.237	17.67	120.7	130.25	144.	174.3
00440p	BICARBONATE ION (MG/L AS HCO3)	08/23/25-08/02/79	35	171.	189.457	308.	150.	1460.785	38.22	160.	167.	208.	249.
00445	CARBONATE ION (MG/L AS CO3)	10/01/61-06/01/79	26	0.	0.269	6.	0.	1.405	1.185	0.	0.	0.	0.3
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/01/70-10/11/89	29	0.5	0.514	0.9	0.1	0.025	0.157	0.4	0.4	0.6	0.8
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/16/71-02/14/83	15	0.03	0.033	0.25	0.	0.004	0.063	0.	0.	0.03	0.136
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/30/72-10/11/89	21	0.005	0.012	0.08	0.	0.	0.017	0.005	0.005	0.01	0.028
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	08/23/25-11/20/85	37	290.	347.378	965.	190.	23668.797	153.847	258.	280.	337.5	568.8
00902p	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/23/25-02/14/83	37	150.	193.459	801.	31.	20337.033	142.608	104.4	130.	174.5	384.6
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/25-10/11/89	40	73.5	86.375	310.	28.	2343.676	48.412	61.	66.5	79.	138.2
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/25-10/11/89	40	25.	26.225	47.	12.	35.461	5.955	21.	24.	27.	35.6
00930p	SODIUM, DISSOLVED (MG/L AS NA)	10/16/25-10/11/89	37	89.	101.405	320.	59.	2415.581	49.149	63.8	80.5	98.	154.8
00931p	SODIUM ADSORPTION RATIO	10/16/25-11/20/85	35	2.3	2.597	6.1	1.3	0.968	0.984	2.	2.1	2.7	3.98
00932p	SODIUM, PERCENT	10/16/25-02/14/83	31	40.	40.129	61.	20.	41.983	6.479	37.	38.	41.	48.6
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	10/16/25-10/11/89	33	3.9	4.164	8.	2.8	1.006	1.003	3.44	3.6	4.3	5.52
00940p	CHLORIDE,TOTAL IN WATER MG/L	08/23/25-10/11/89	41	75.	84.122	415.	42.	3573.16	59.776	45.	60.5	86.5	94.
00945p	SULFATE, TOTAL (MG/L AS SO4)	08/23/25-10/11/89	41	240.	272.585	785.	150.	15665.899	125.163	172.	215.	269.	492.
00950p	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/33-10/11/89	33	0.3	0.32	0.6	0.05	0.01	0.1	0.2	0.3	0.4	0.46
00955p	SILICA, DISSOLVED (MG/L AS SI02)	08/23/25-10/11/89	38	8.45	9.668	24.	0.6	14.807	3.848	7.28	7.85	10.2	14.3
01020p	BORON, DISSOLVED (UG/L AS B)	10/01/27-12/08/86	34	105.	107.653	260.	0.2	1653.598	40.664	75.	90.	120.	135.
01046p	IRON, DISSOLVED (UG/L AS FE)	08/23/25-12/08/86	32	10.	28.069	280.	0.2	2740.522	52.35	2.55	5.	20.	60.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/36-10/11/89	37	618.	709.649	1790.	444.	83861.401	289.588	483.2	571.5	689.5	1122.
70301p	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/25-02/14/83	29	601.	645.655	1120.	518.	21038.163	145.045	541.	583.	642.5	925.
70302p	SOLIDS, DISSOLVED-TONS PER DAY	08/23/25-02/14/83	36	31250.	32432.539	108301.	3840.	426601091.4	20654.324	10740.	18782.575	39850.	53490.
70303p	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/23/25-02/14/83	37	0.86	0.998	2.43	0.6	0.146	0.382	0.77	0.81	0.95	1.524
70331p	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	01/02/51-10/11/89	12	98.	84.583	100.	44.	460.265	21.454	45.2	66.25	100.	100.
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	01/02/51-07/10/71	13	58.	44.	68.	2.	566.833	23.808	4.	21.	62.5	67.6
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	01/02/51-07/10/71	18	69.	56.	84.	3.	681.176	26.099	7.5	27.75	75.5	79.5
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	01/02/51-12/24/71	18	84.	65.722	98.	0.	1261.389	35.516	3.6	36.75	96.	97.1
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/07/59-12/24/71	12	98.5	71.5	100.	11.	1314.636	36.258	14.9	30.	100.	100.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/07/59-12/24/71	8	73.	77.	100.	45.	458.571	21.414	**	**	**	**
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	11/10/59-12/24/71	5	94.	92.8	98.	84.	27.7	5.263	**	**	**	**
71851p	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/23/25-08/01/75	10	2.25	2.16	4.6	0.5	1.278	1.131	0.52	1.45	2.55	4.41
80154p	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	01/02/51-10/11/89	24	2100.	10555.583	67900.	193.	318261454.341	17839.884	329.5	723.25	14462.5	42900.
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	01/02/51-10/13/82	17	37300.	167051.412	1100000.	844.88	033974131.382	296705.197	2392.8	4340.	186000.	744000.

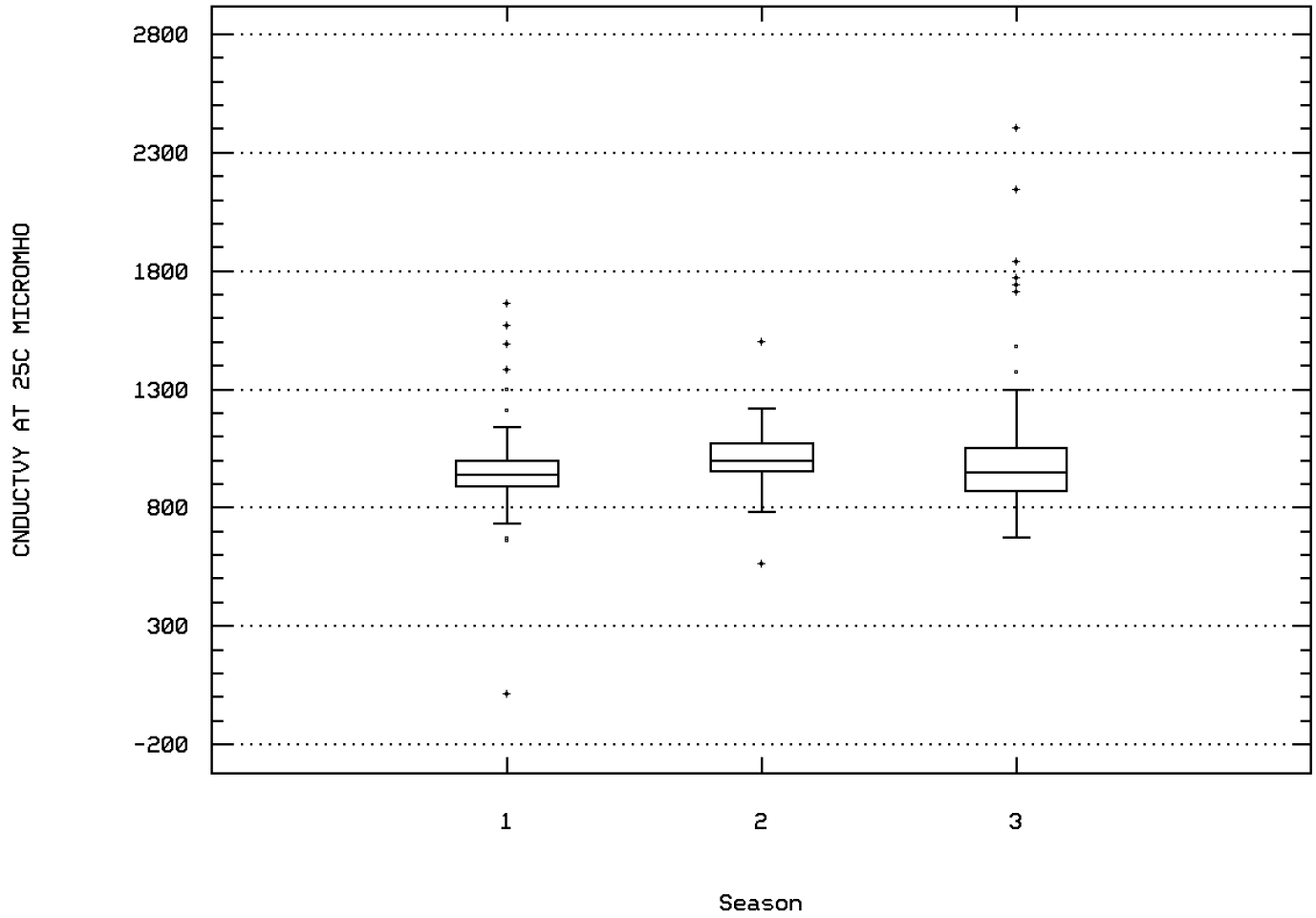
** - Less than 9 observations ## - Computed with 50% or more of the total observations as values that were half the detection limit p - Has a corresponding box-and-whisker plot



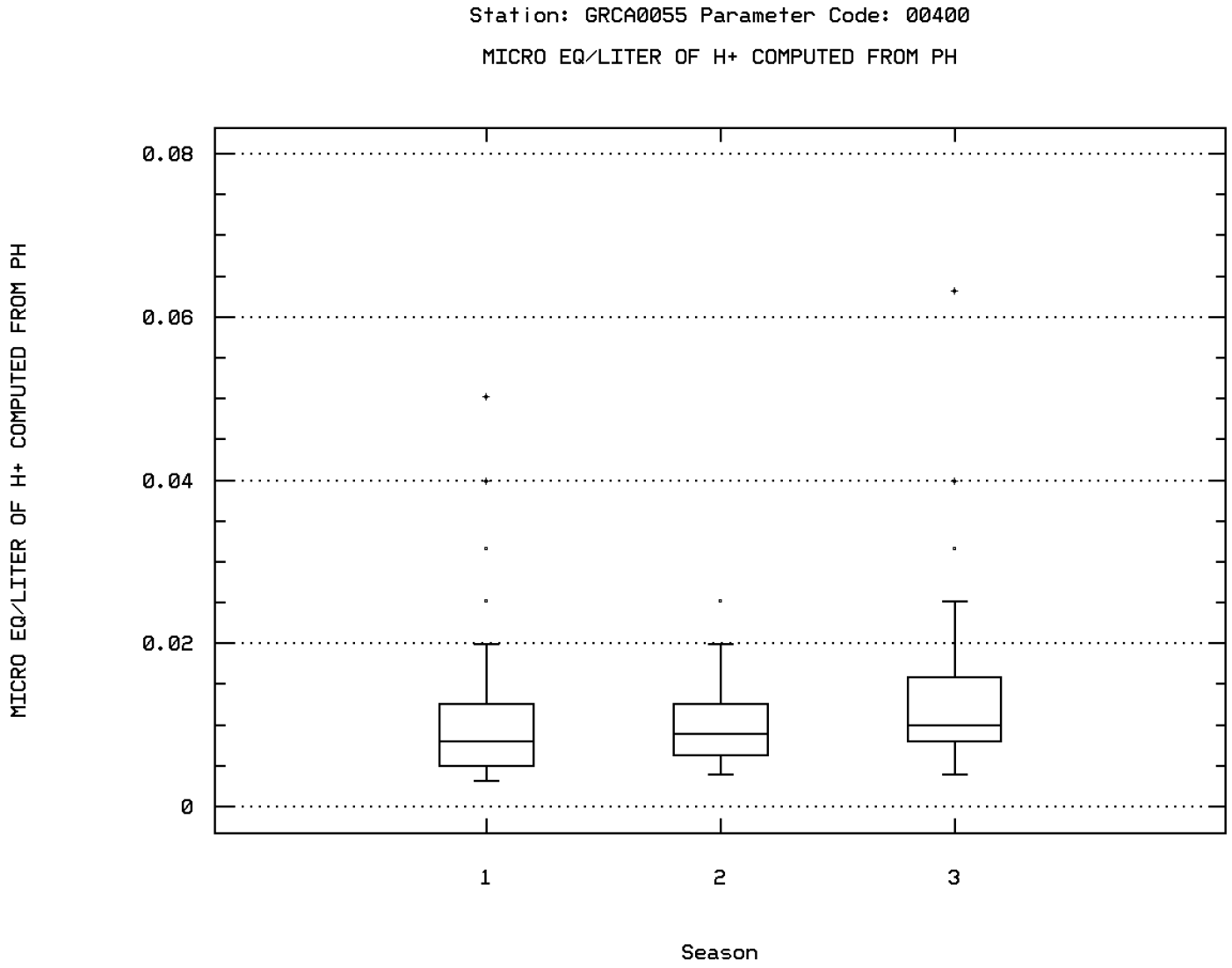
COLORADO R. NEAR GRAND CANYON, ARIZ.

Station: GRCA0055 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



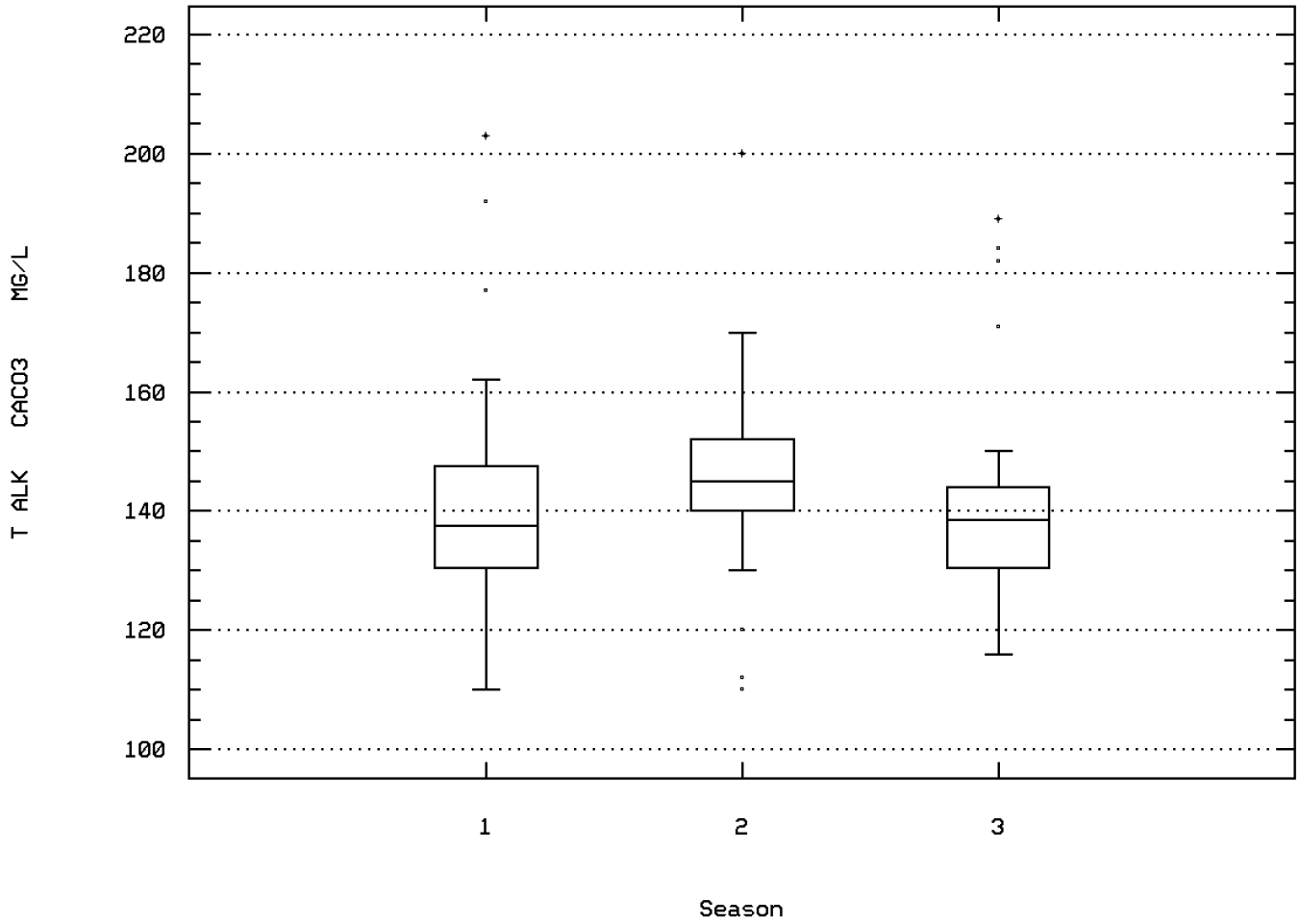
COLORADO R. NEAR GRAND CANYON, ARIZ.



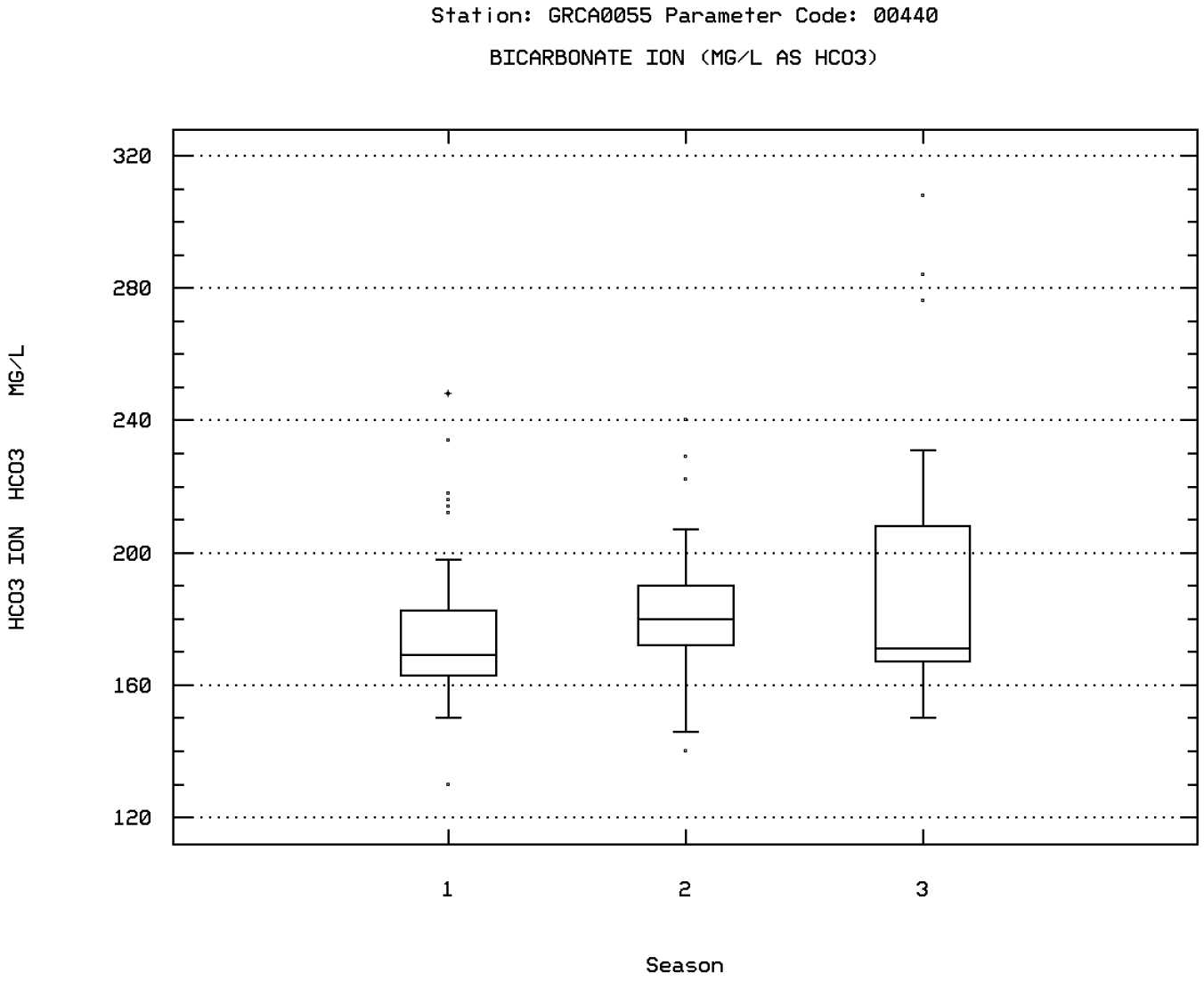
COLORADO R. NEAR GRAND CANYON, ARIZ.

Station: GRCA0055 Parameter Code: 00410

ALKALINITY, TOTAL (MG/L AS CACO3)



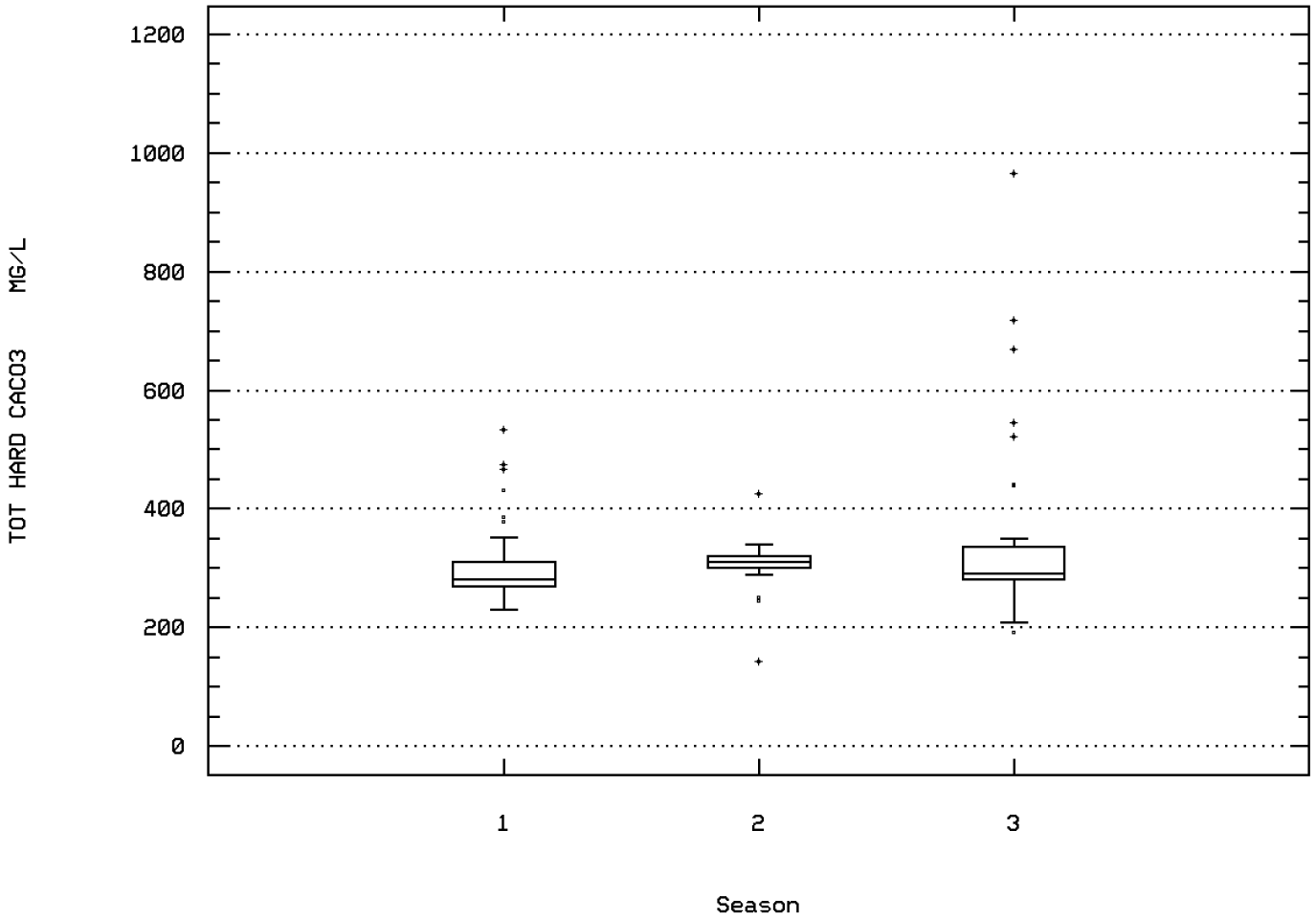
COLORADO R. NEAR GRAND CANYON, ARIZ.



COLORADO R. NEAR GRAND CANYON, ARIZ.

Station: GRCA0055 Parameter Code: 00900

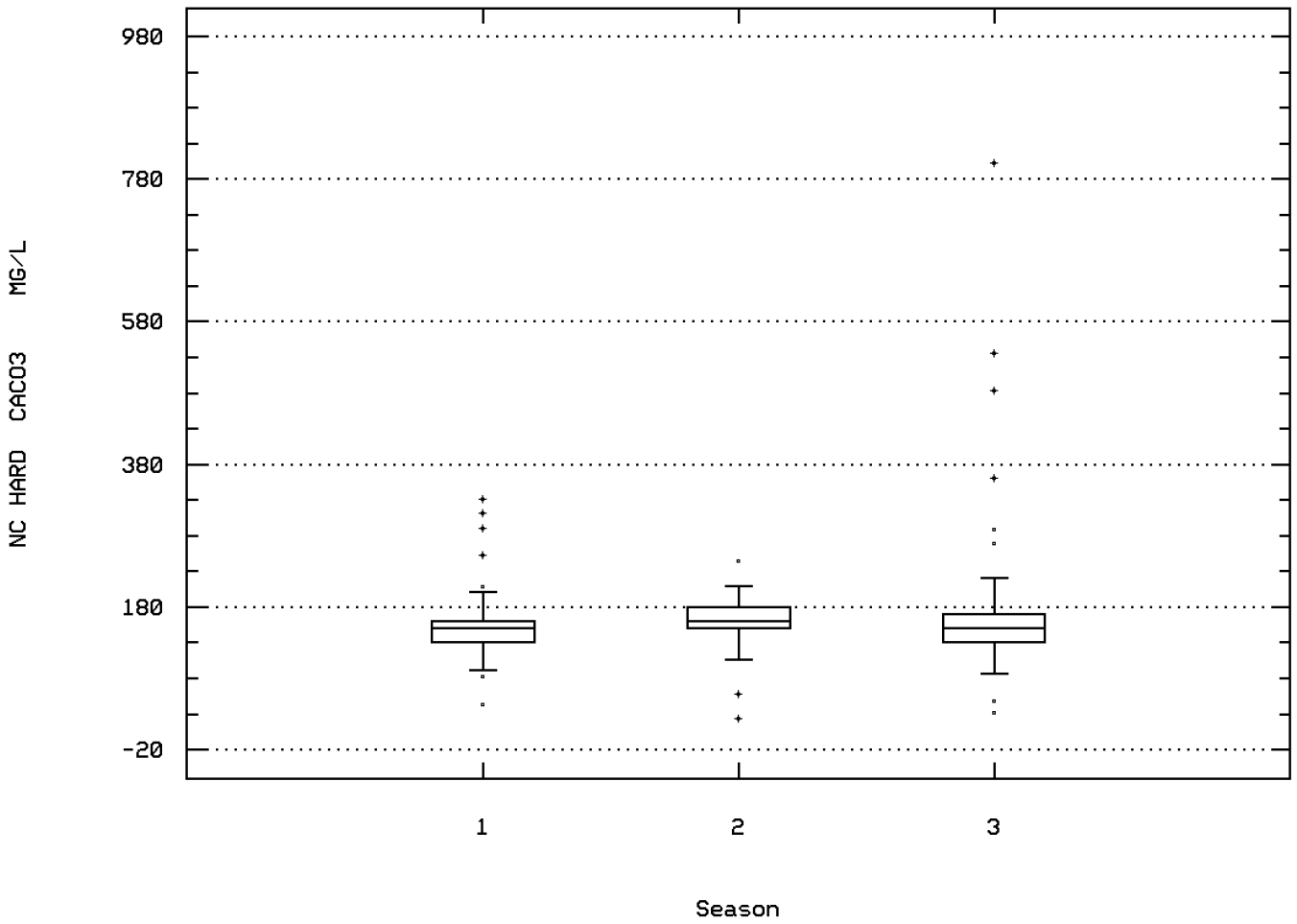
HARDNESS, TOTAL (MG/L AS CACO3)



COLORADO R. NEAR GRAND CANYON, ARIZ.

Station: GRCA0055 Parameter Code: 00902

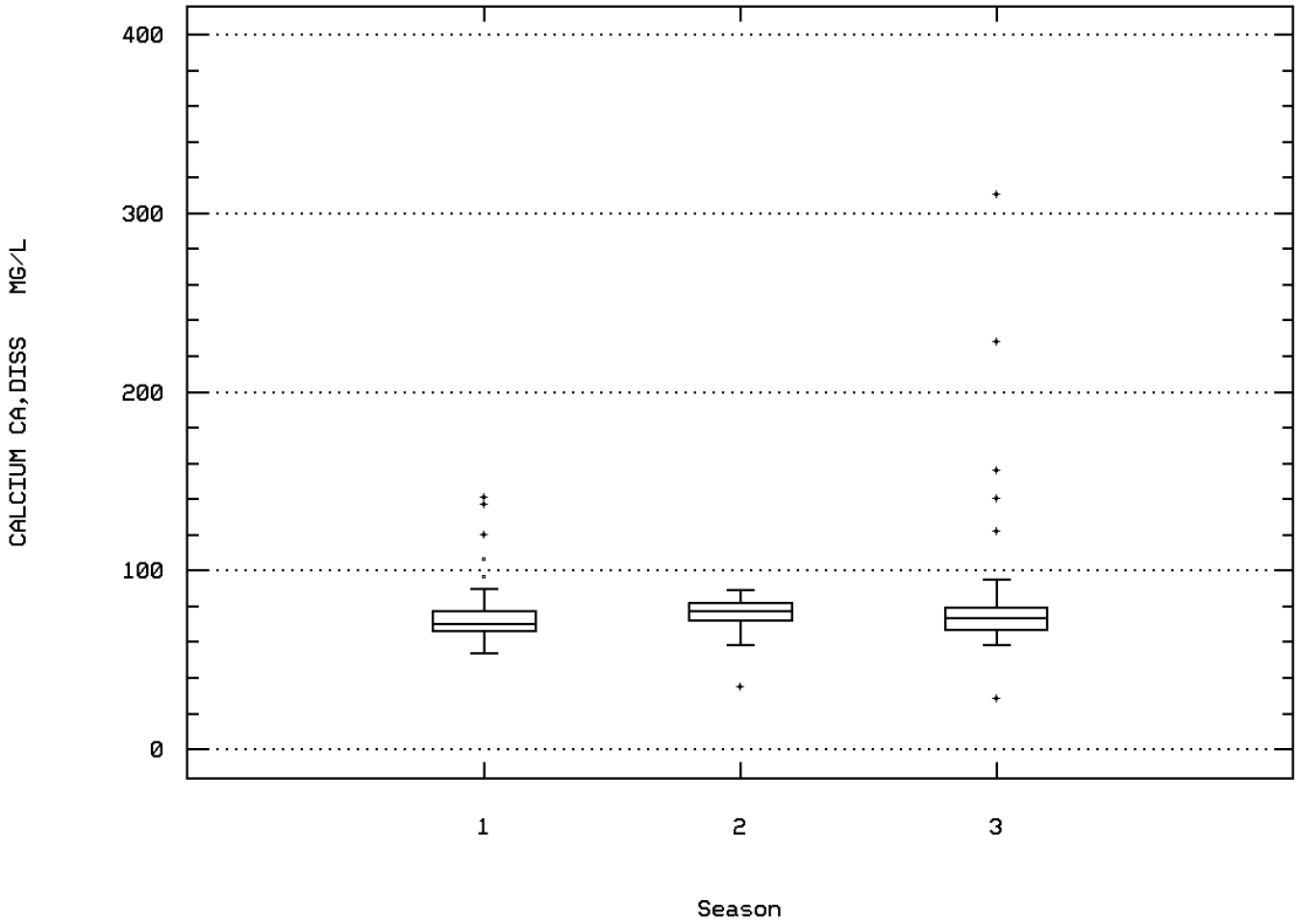
HARDNESS, NON-CARBONATE (MG/L AS CACO3)



COLORADO R. NEAR GRAND CANYON, ARIZ.

Station: GRCA0055 Parameter Code: 00915

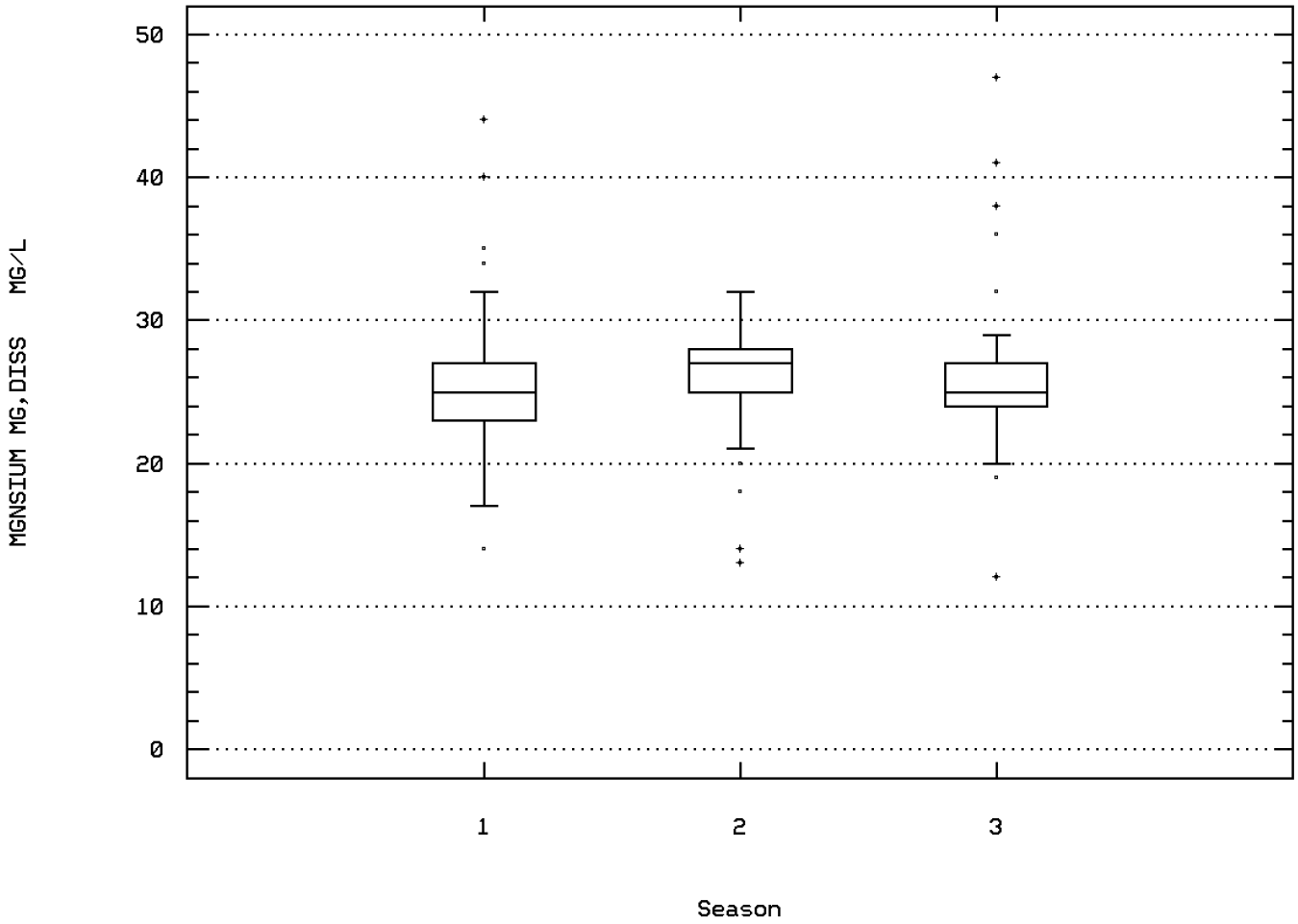
CALCIUM, DISSOLVED (MG/L AS CA)



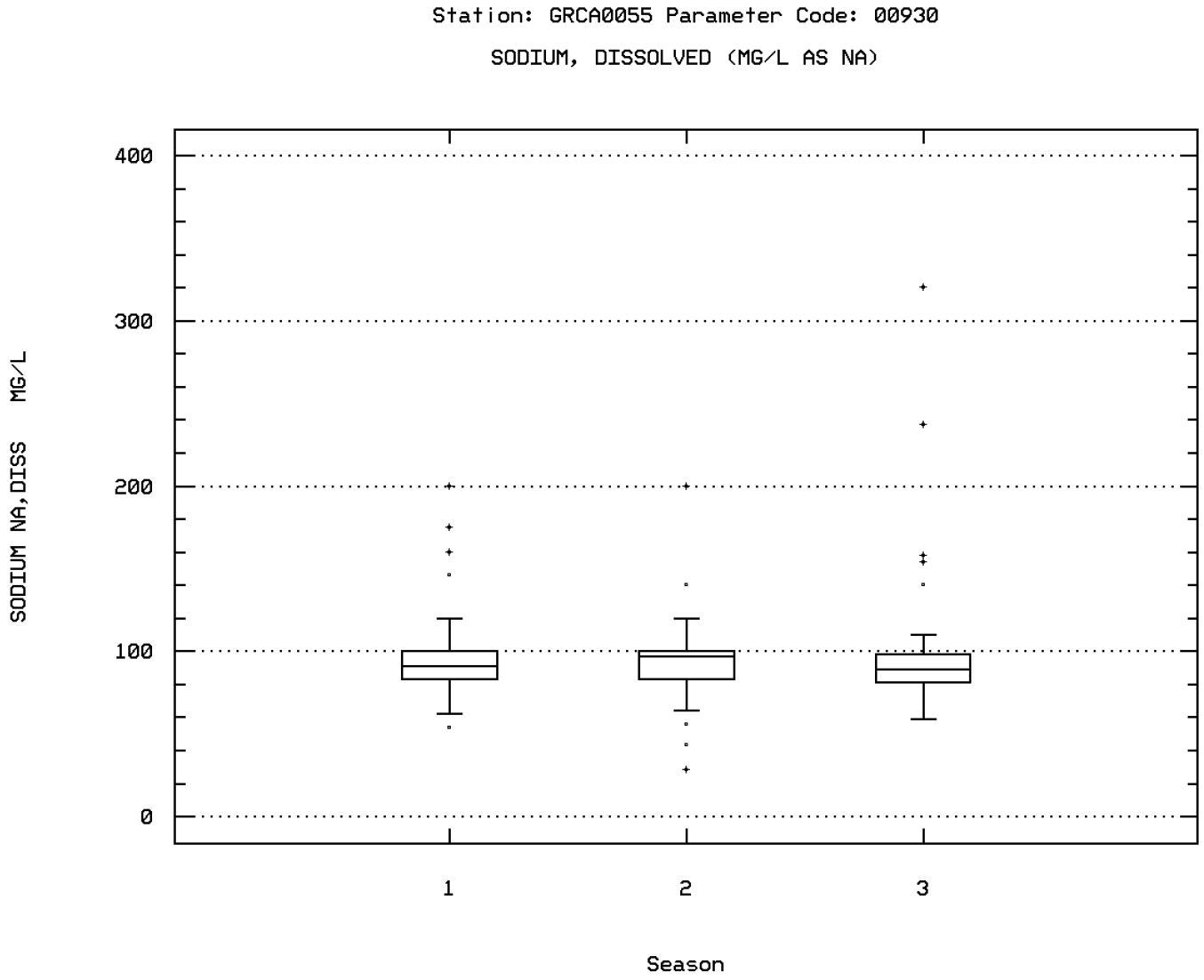
COLORADO R. NEAR GRAND CANYON, ARIZ.

Station: GRCA0055 Parameter Code: 00925

MAGNESIUM, DISSOLVED (MG/L AS MG)



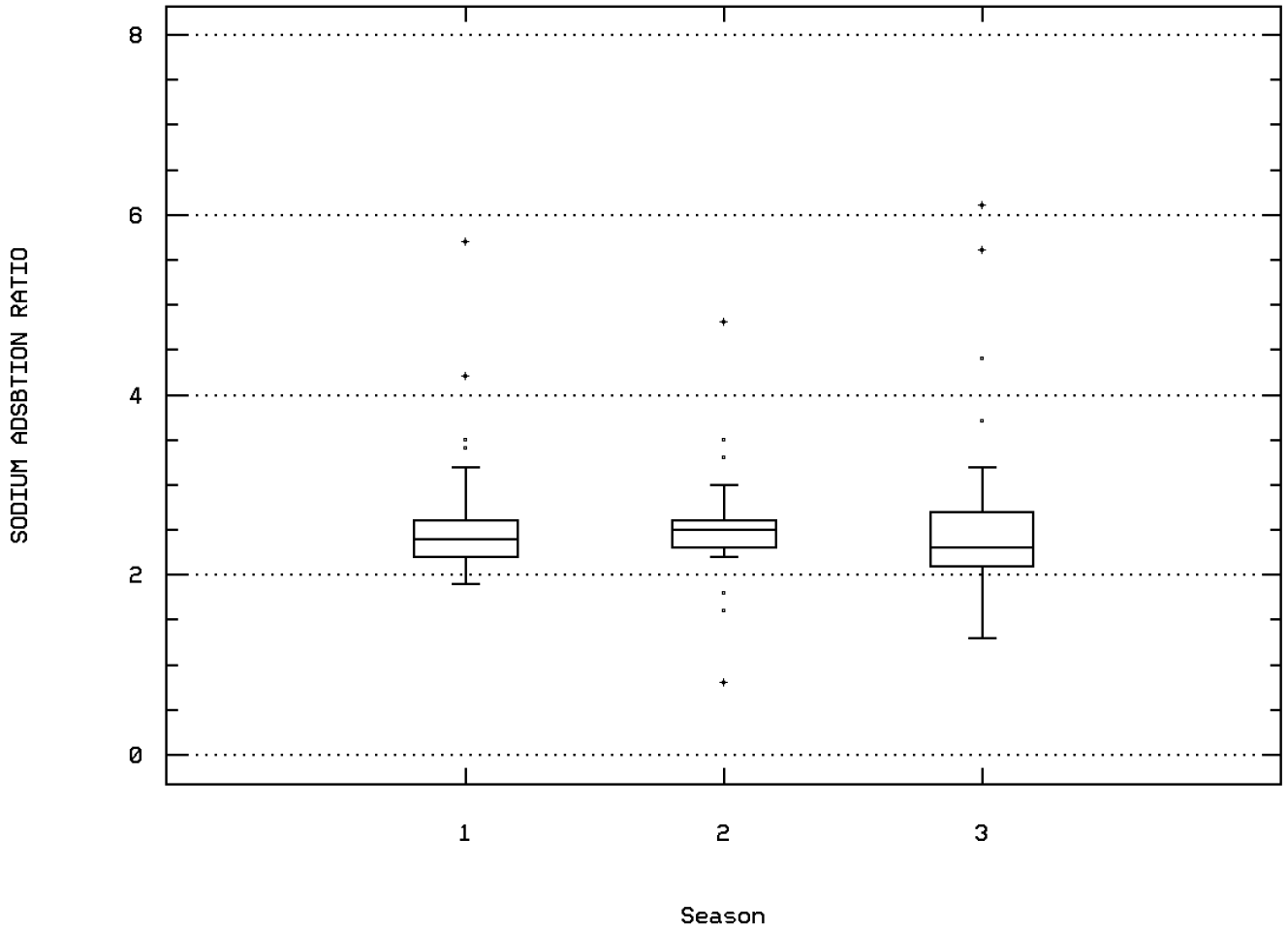
COLORADO R. NEAR GRAND CANYON, ARIZ.



COLORADO R. NEAR GRAND CANYON, ARIZ.

Station: GRCA0055 Parameter Code: 00931

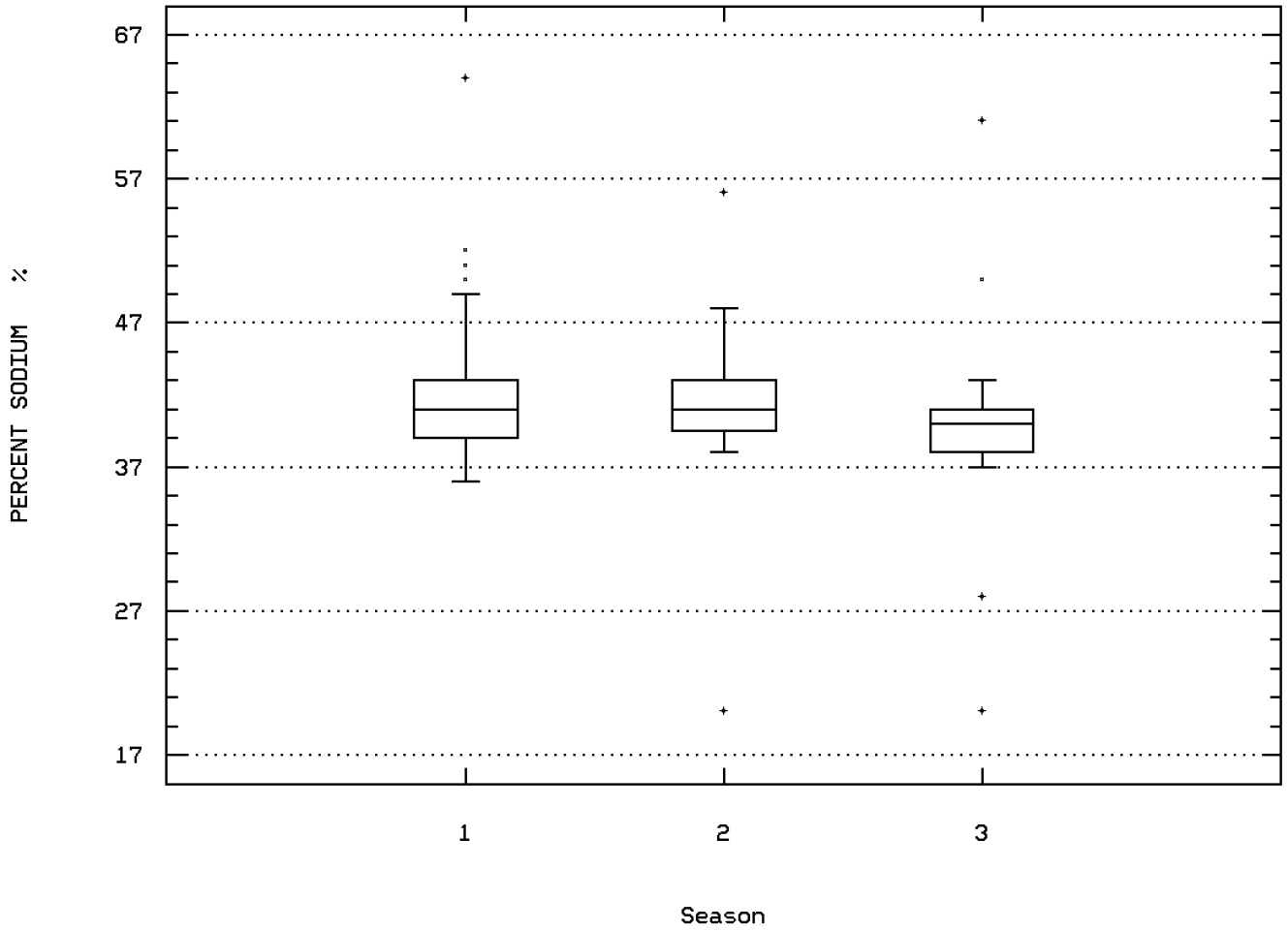
SODIUM ADSORPTION RATIO



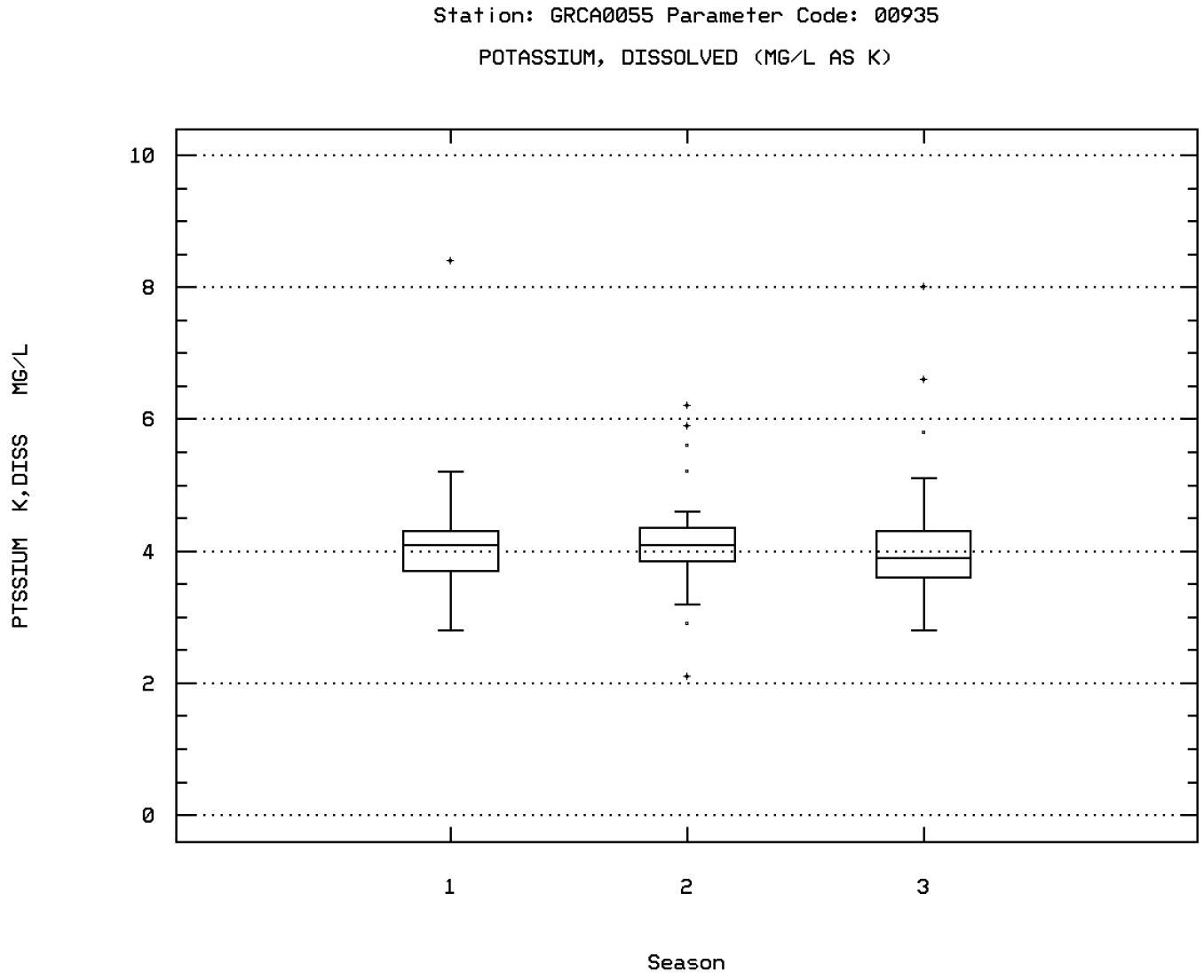
COLORADO R. NEAR GRAND CANYON, ARIZ.

Station: GRCA0055 Parameter Code: 00932

SODIUM, PERCENT



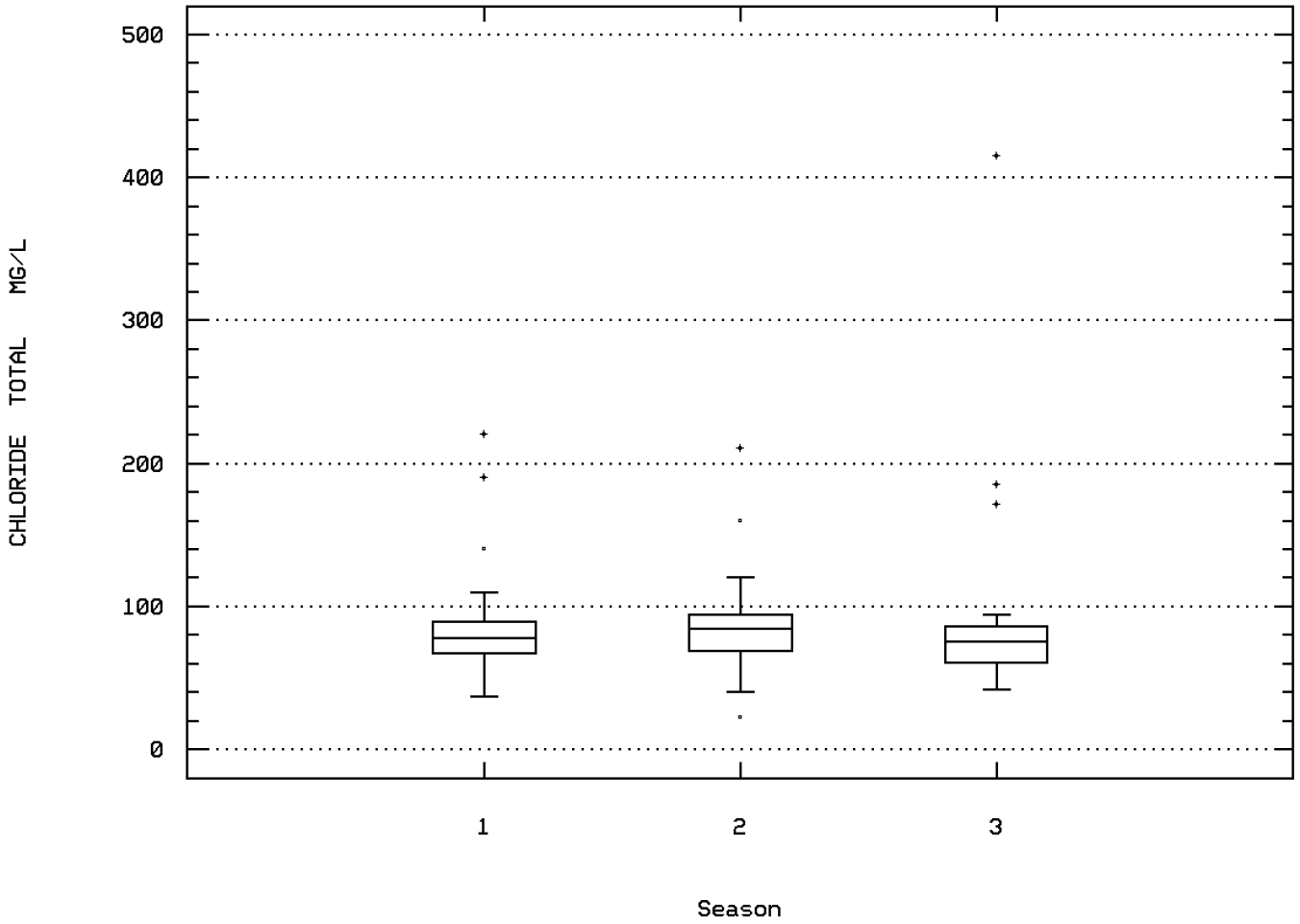
COLORADO R. NEAR GRAND CANYON, ARIZ.



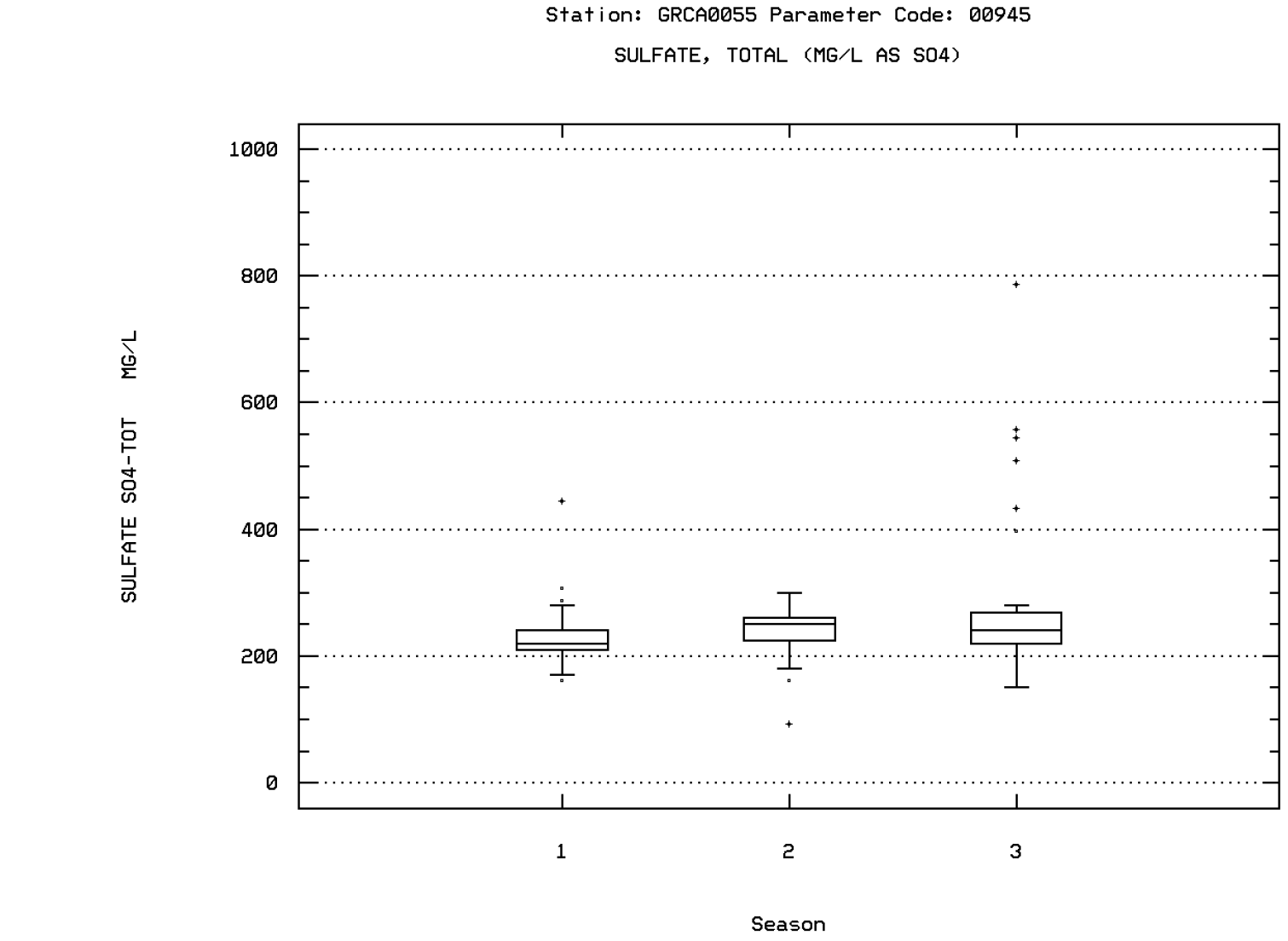
COLORADO R. NEAR GRAND CANYON, ARIZ.

Station: GRCA0055 Parameter Code: 00940

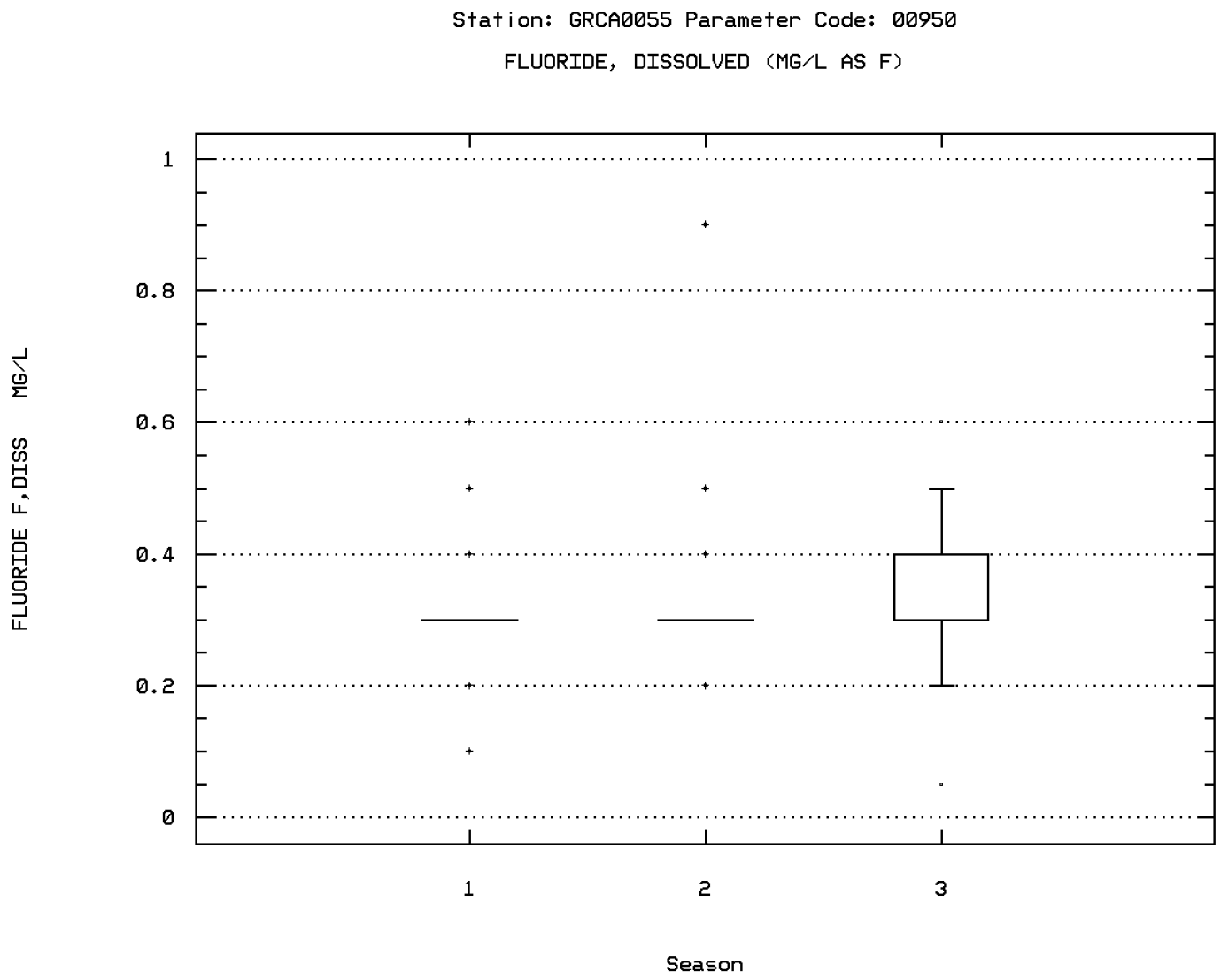
CHLORIDE,TOTAL IN WATER



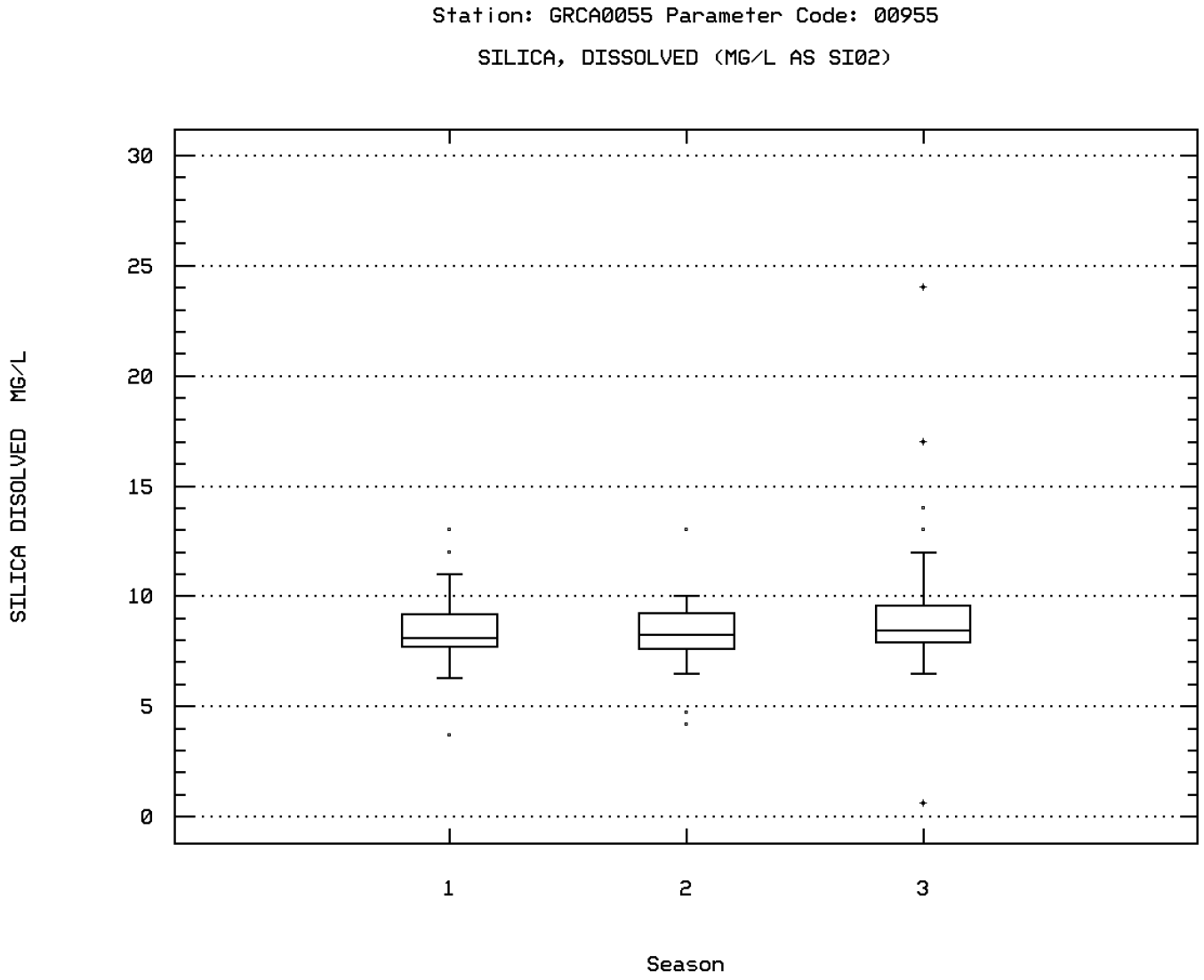
COLORADO R. NEAR GRAND CANYON, ARIZ.



COLORADO R. NEAR GRAND CANYON, ARIZ.



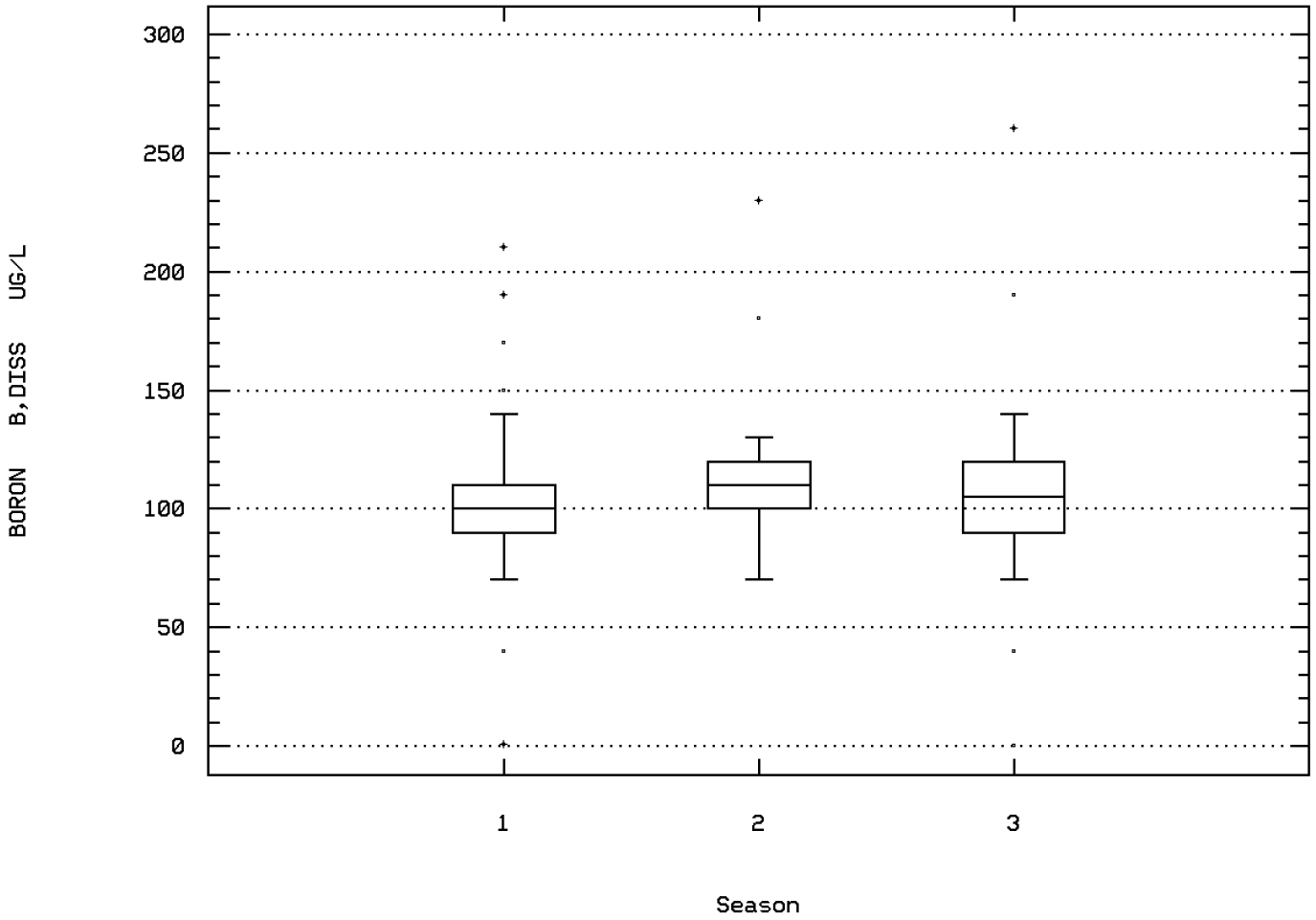
COLORADO R. NEAR GRAND CANYON, ARIZ.



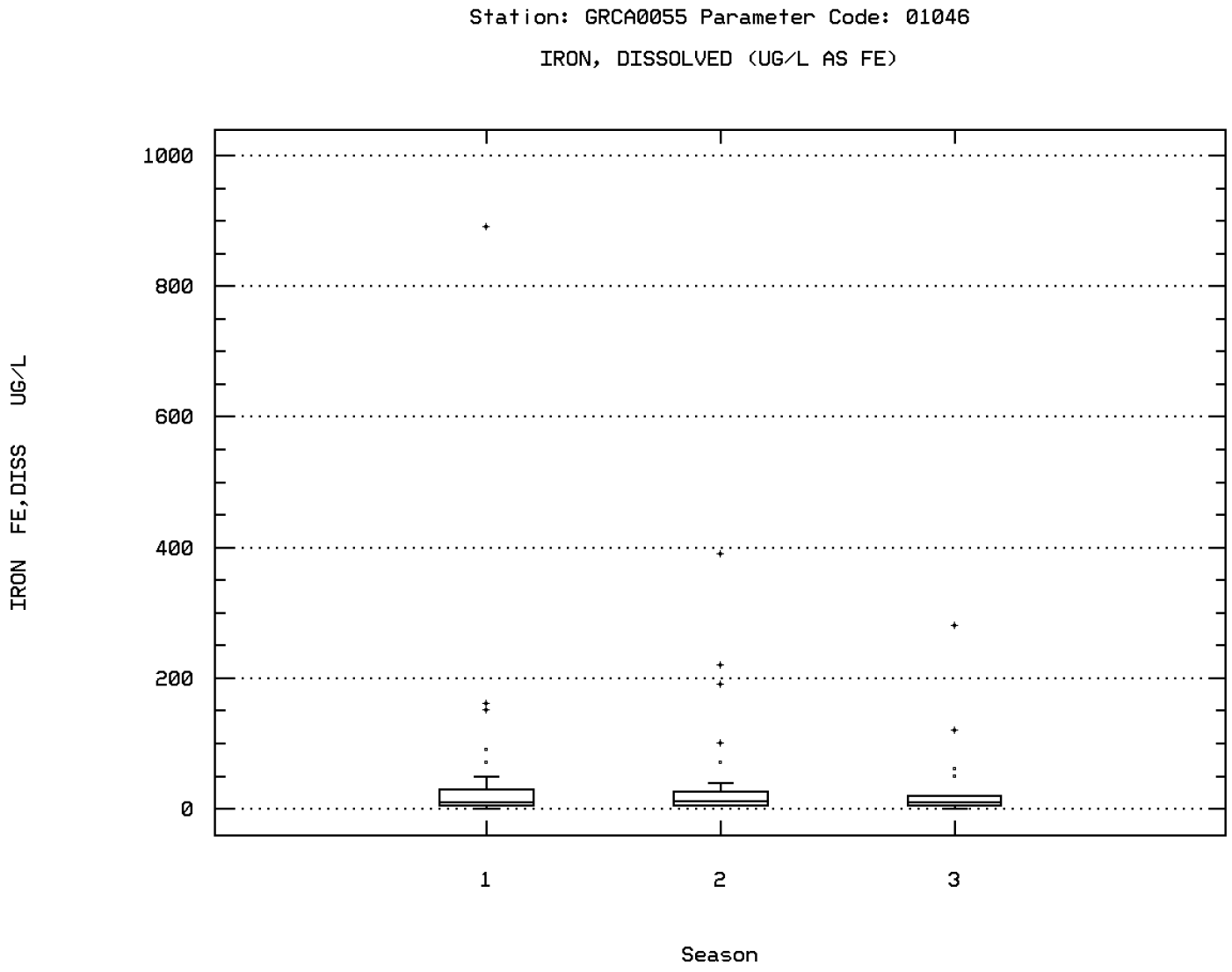
COLORADO R. NEAR GRAND CANYON, ARIZ.

Station: GRCA0055 Parameter Code: 01020

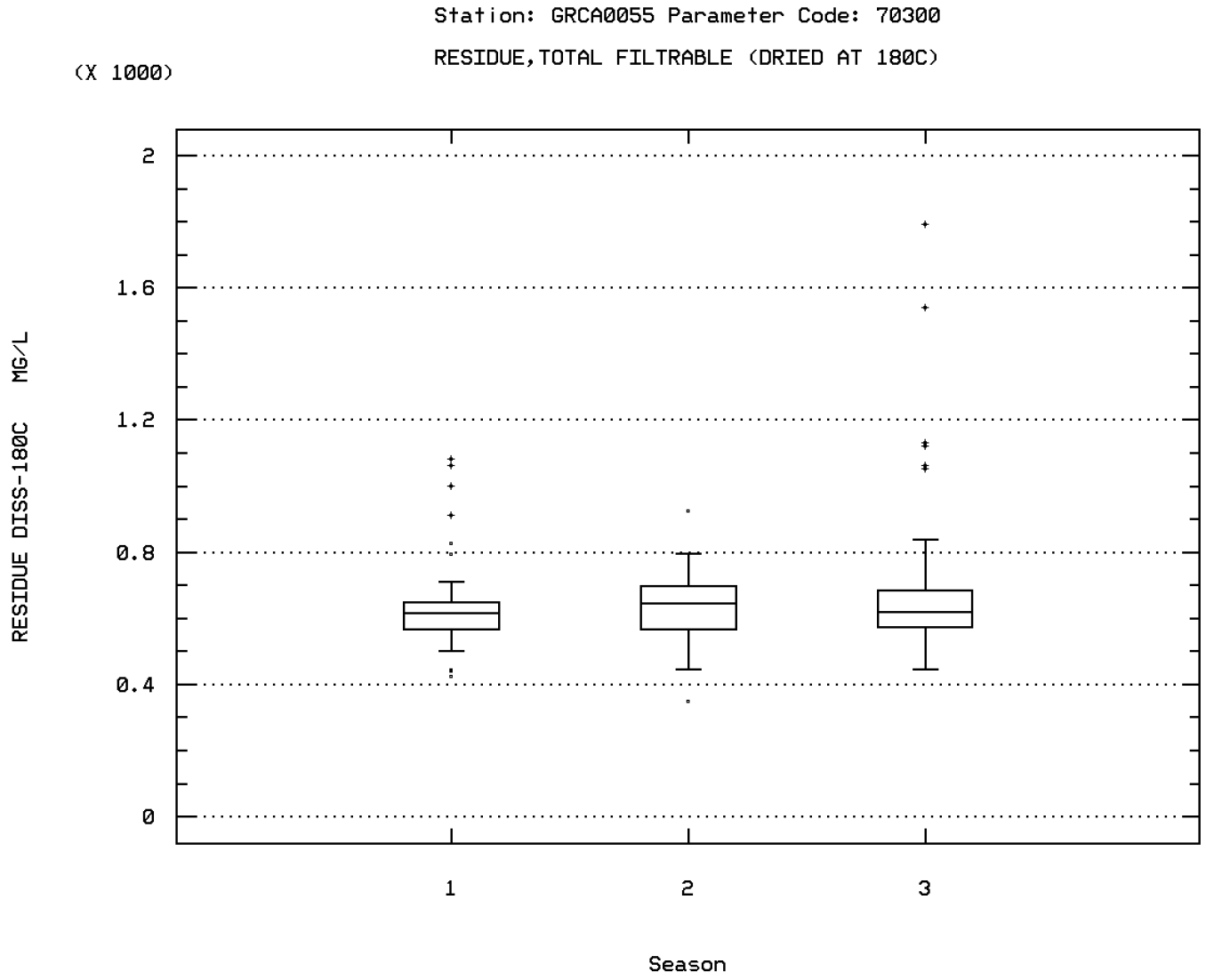
BORON, DISSOLVED (UG/L AS B)



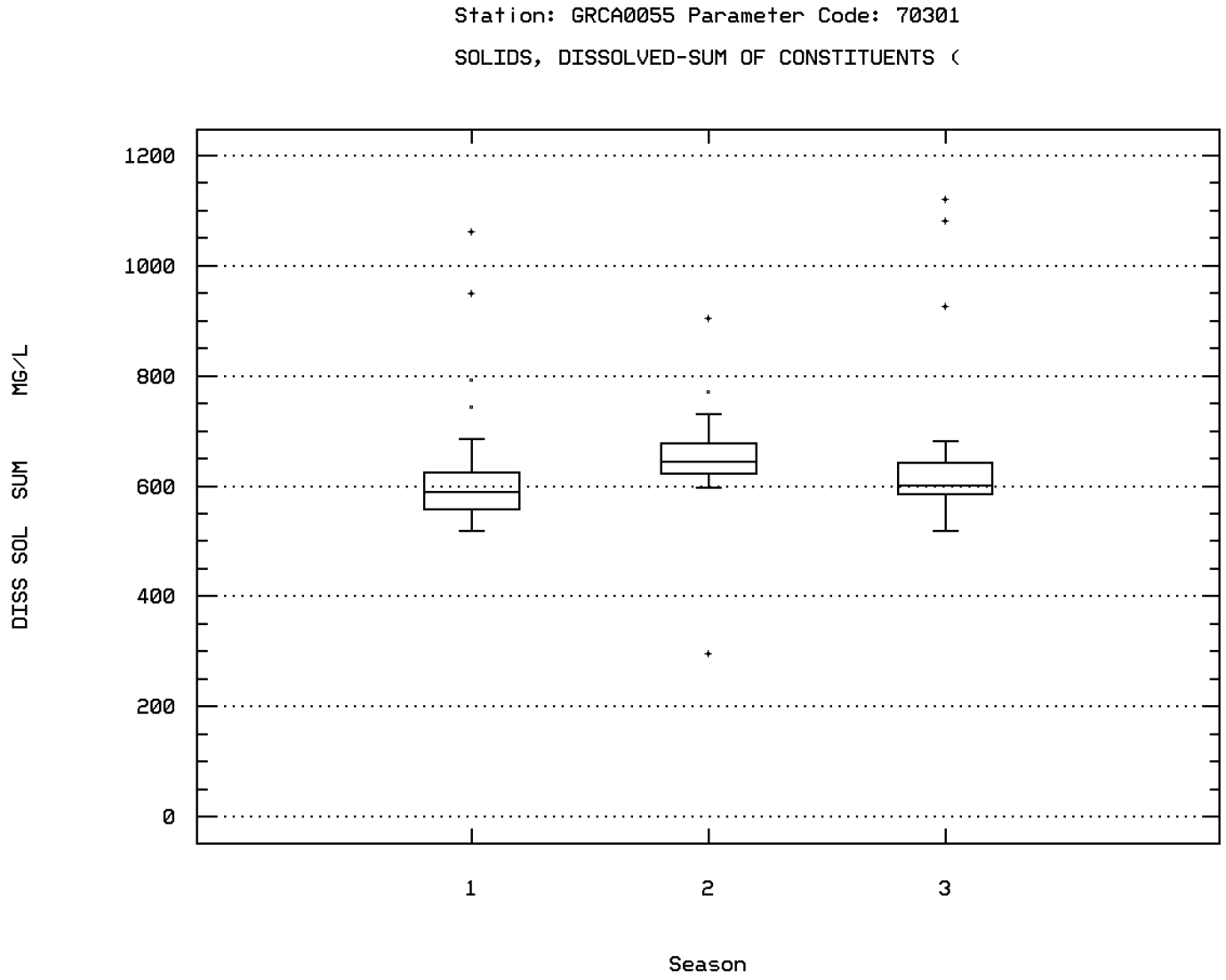
COLORADO R. NEAR GRAND CANYON, ARIZ.



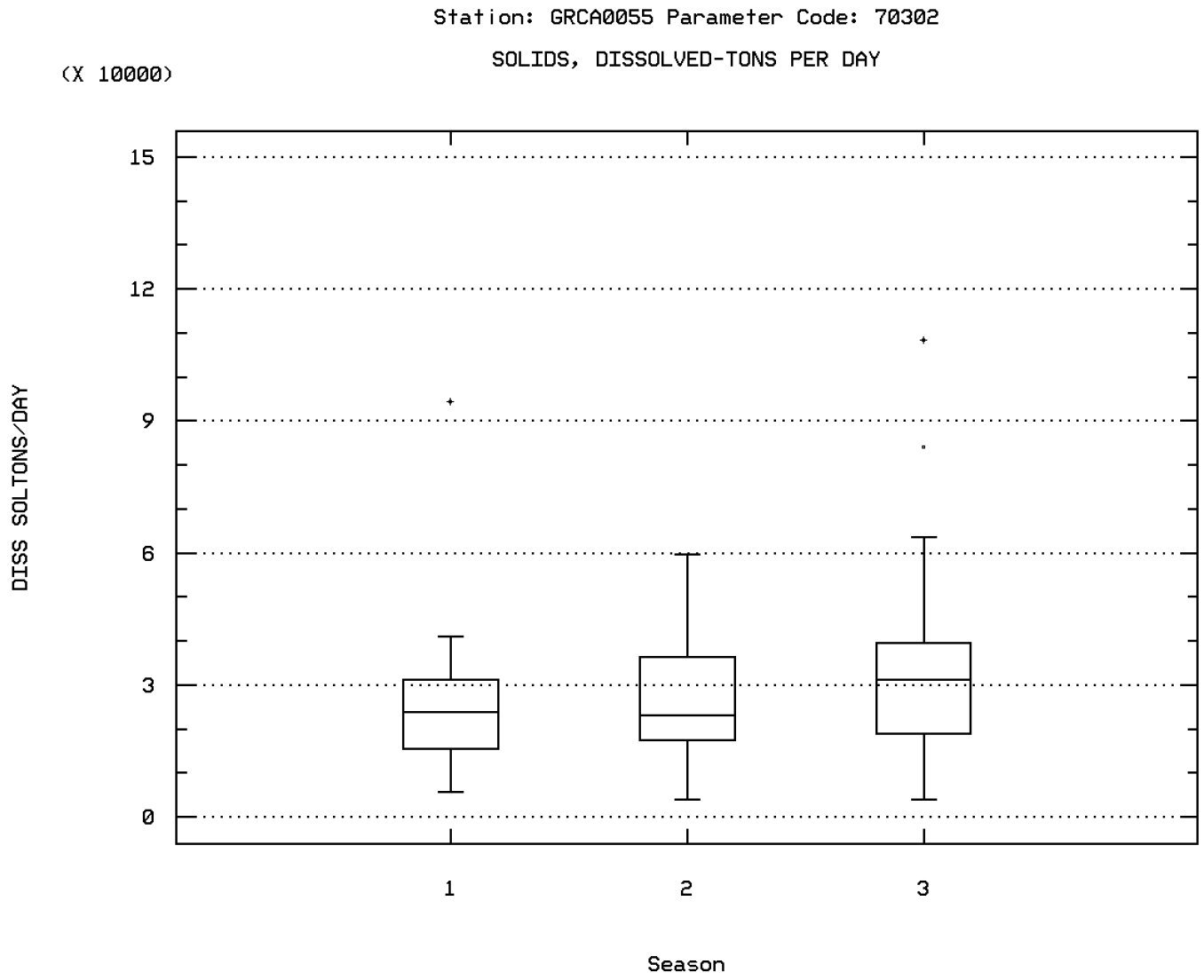
COLORADO R. NEAR GRAND CANYON, ARIZ.



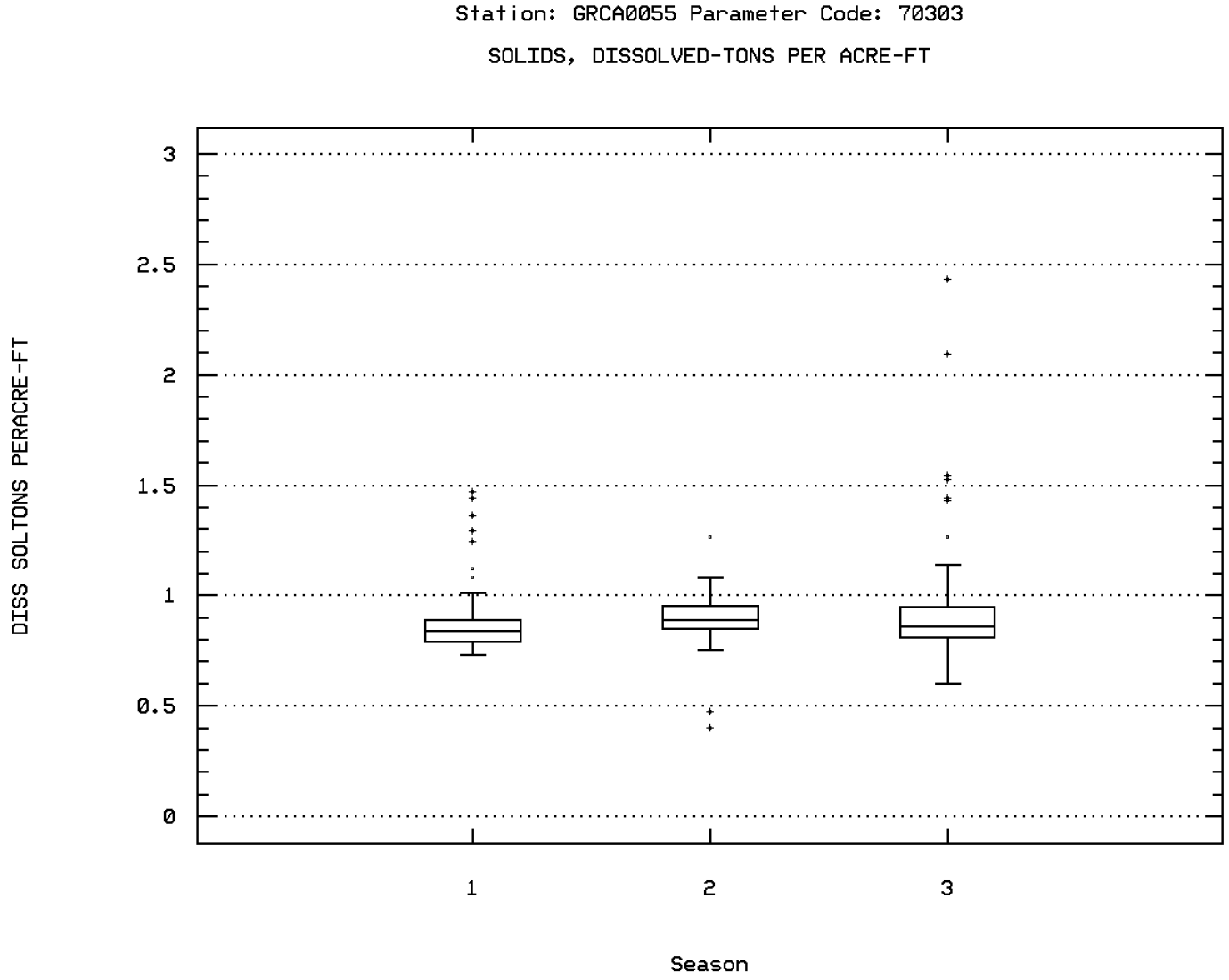
COLORADO R. NEAR GRAND CANYON, ARIZ.



COLORADO R. NEAR GRAND CANYON, ARIZ.



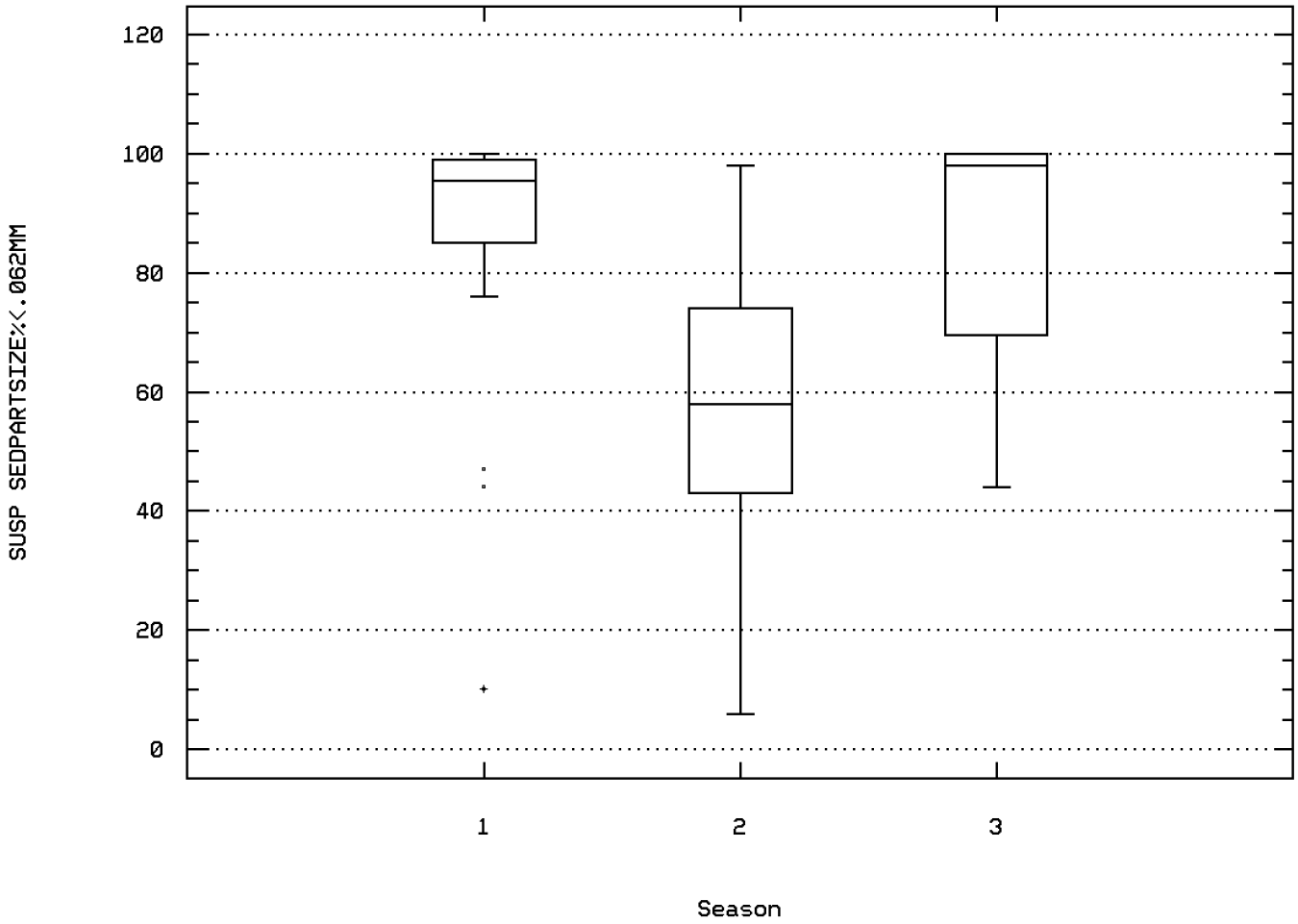
COLORADO R. NEAR GRAND CANYON, ARIZ.



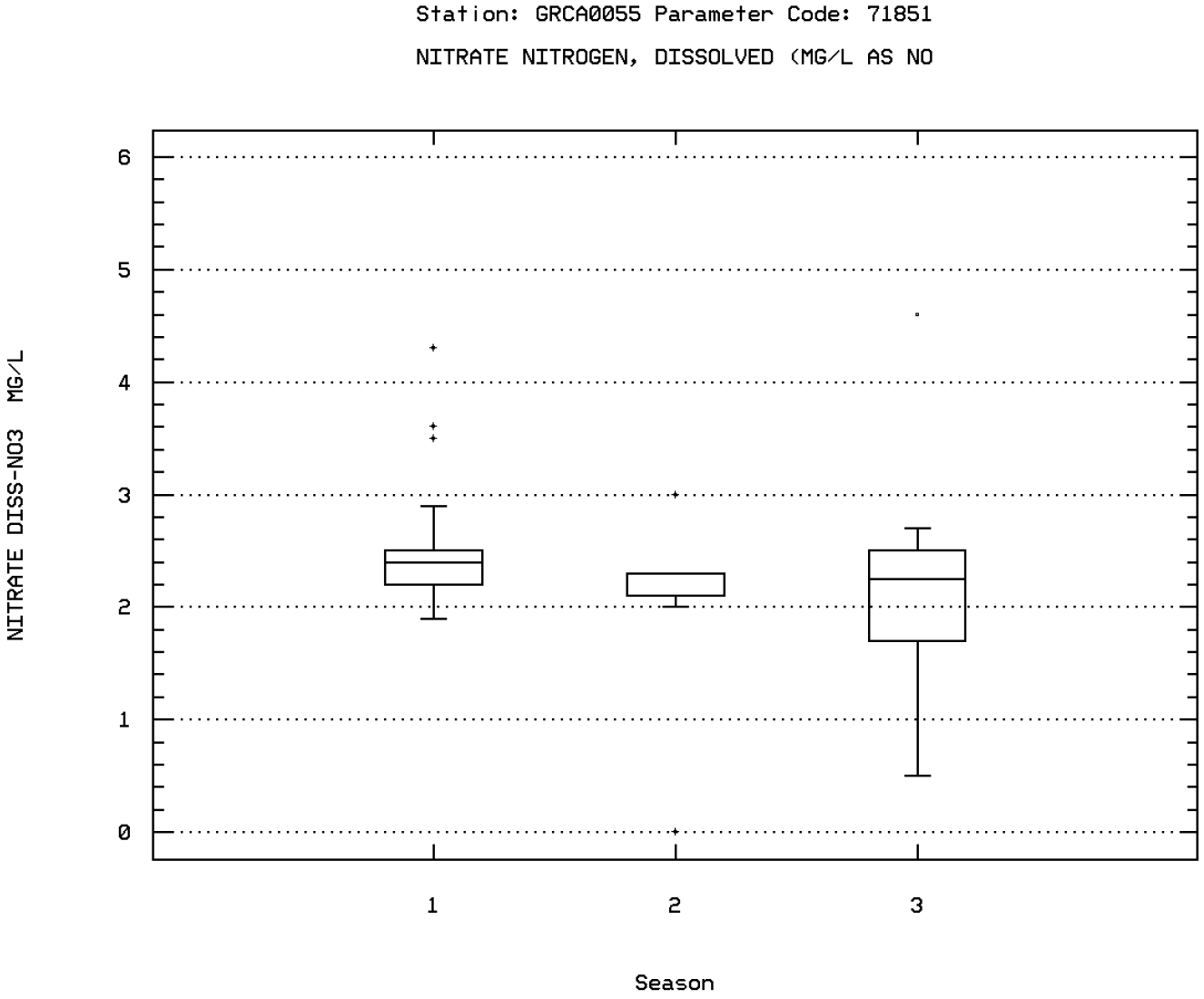
COLORADO R. NEAR GRAND CANYON, ARIZ.

Station: GRCA0055 Parameter Code: 70331

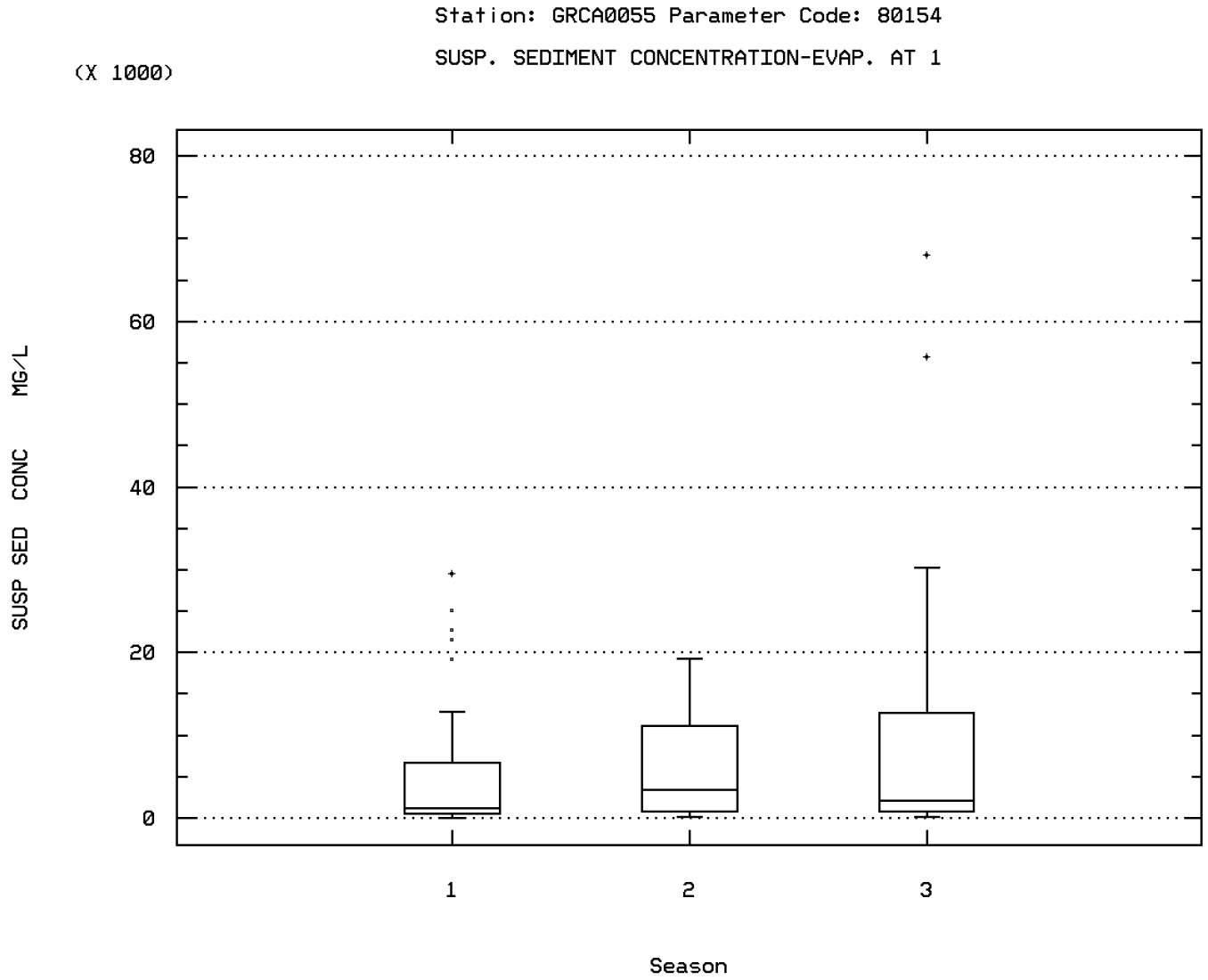
SUSPENDED SED SIEVE DIAMETER,% FINER TH



COLORADO R. NEAR GRAND CANYON, ARIZ.



COLORADO R. NEAR GRAND CANYON, ARIZ.



COLORADO R. NEAR GRAND CANYON, ARIZ.

Station Inventory for Station: GRCA0056

NPS Station ID: GRCA0056 | LAT/LON: 36.280420/-112.087810 | Agency: 11NPSWRD | Date Created: 02/03/96
Location: ROBBERS ROOST SPRING | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): GRCA_PHAN005
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE COLORADO RIVER | ECO Region:
RF1 Index: 15010002 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
ROBBERS ROOST SPRING. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0056

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/22/94-05/22/94	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/22/94-05/22/94	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/22/94-05/22/94	1	214.	214.	214.	214.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/22/94-05/22/94	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/22/94-05/22/94	1	84.	84.	84.	84.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	05/22/94-05/22/94	1	9.38	9.38	9.38	9.38	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/22/94-05/22/94	1	9.38	9.38	9.38	9.38	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/22/94-05/22/94	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/94-05/22/94	1	84.	84.	84.	84.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/22/94-05/22/94	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/22/94-05/22/94	1	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/22/94-05/22/94	1	1.	1.	1.	1.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	05/22/94-05/22/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	05/22/94-05/22/94	1	4.1	4.1	4.1	4.1	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: GRCA0056

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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						
00406	PH, FIELD	Other-Hi Lim.	9.	1	1	1.00				1	1	1.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0057

NPS Station ID: GRCA0057 | LAT/LON: 36.098282/-112.090893 | Agency: 11NPSWRD | Date Created: 02/03/96
Location: BRIGHT ANGEL CREEK AT COLORADO RIVER | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): GRCA_BRIG001
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE COLORADO RIVER | ECO Region:
RF1 Index: 15010001 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
BRIGHT ANGEL CREEK AT COLORADO RIVER. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/92-06/12/92	1	16.2	16.2	16.2	16.2	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/12/92-06/12/92	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/12/92-06/12/92	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/12/92-06/12/92	1	252.	252.	252.	252.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/12/92-06/12/92	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/12/92-06/12/92	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/12/92-06/12/92	1	8.62	8.62	8.62	8.62	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/12/92-06/12/92	1	8.62	8.62	8.62	8.62	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/12/92-06/12/92	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/12/92-06/12/92	1	161.	161.	161.	161.	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/12/92-06/12/92	1	3.3	3.3	3.3	3.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0057

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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						
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0058

NPS Station ID: GRCA0058 LAT/LON: 36.100059/-112.094198 Agency: 11NPSWRD Date Created: 02/03/96
Location: BRIGHT ANGEL CREEK BELOW FIRST BRIDGE FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): GRCA_BRIG002
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010001 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
BRIGHT ANGEL CREEK BELOW FIRST BRIDGE (NEAR ROCKHOUSE). STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0058

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/14/93-08/02/95	7	18.	17.5	25.	8.	32.75	5.723	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/14/93-08/02/95	7	30.5	28.571	40.	13.	98.536	9.927	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/14/93-08/02/95	7	26.	26.714	32.	20.	27.571	5.251	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/14/93-08/02/95	7	320.	308.571	377.	161.	4783.619	69.164	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/14/93-08/02/95	7	9.3	10.114	14.5	8.1	4.758	2.181	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/14/93-08/02/95	7	108.	115.	157.	98.	388.333	19.706	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	05/14/93-08/02/95	7	8.78	8.713	9.64	7.79	0.368	0.607	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/14/93-08/02/95	7	8.78	8.374	9.64	7.79	0.502	0.709	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/14/93-08/02/95	7	0.002	0.004	0.016	0.	0.	0.006	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/14/93-08/02/95	7	224.	206.286	248.	152.	1389.905	37.281	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/14/93-07/03/94	5 ##	5.	23.	90.	5.	1407.5	37.517	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/14/93-07/03/94	5 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/14/93-07/03/94	5 ##	0.1	0.16	0.3	0.1	0.008	0.089	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/14/93-07/03/94	5 ##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/14/93-07/03/94	5 ##	0.025	0.05	0.15	0.025	0.003	0.056	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	05/14/93-07/03/94	5	36.8	34.46	42.5	16.3	109.643	10.471	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/14/93-07/03/94	5	21.2	19.78	23.3	11.5	22.497	4.743	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/14/93-07/03/94	5	3.2	3.18	4.2	1.5	1.142	1.069	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/14/93-07/03/94	5	1.	1.02	1.4	0.5	0.112	0.335	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/14/93-07/03/94	5	3.	3.4	5.	1.	2.8	1.673	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/14/93-07/03/94	5	9.	9.4	14.	4.	14.8	3.847	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	05/14/93-07/03/94	5	0.08	0.069	0.1	0.025	0.001	0.028	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/30/93-02/14/94	3	6.6	6.6	6.8	6.4	0.04	0.2	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/14/93-07/03/94	5 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/14/93-07/03/94	5 ##	2.5	2.4	2.5	2.	0.05	0.224	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/14/93-07/03/94	5 ##	0.25	0.3	0.5	0.25	0.013	0.112	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/14/93-07/03/94	5 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/14/93-07/03/94	5 ##	5.	6.2	11.	5.	7.2	2.683	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/14/93-07/03/94	5	2.	1.8	3.	1.	0.7	0.837	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/14/93-07/03/94	5 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/14/93-07/03/94	5 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/14/93-07/03/94	5 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/14/93-07/03/94	5 ##	10.	14.8	23.	10.	43.7	6.611	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/14/93-07/03/94	5 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/14/93-07/03/94	5 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01501	ALPHA, TOTAL	02/14/94-02/14/94	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0058

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
03501	BETA, TOTAL	02/14/94-02/14/94	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/11/92-08/02/95	9	12.	27.111	128.	0.5	1658.799	40.728	0.5	2.25	39.5	128.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/11/92-08/02/95	9	1.079	0.929	2.107	-0.301	0.682	0.826	-0.301	0.151	1.596	2.107
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			8.49								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/11/92-08/02/95	9	38.	73.111	330.	4.	9803.861	99.014	4.	24.	67.5	330.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/11/92-08/02/95	9	1.58	1.606	2.519	0.602	0.27	0.52	0.602	1.355	1.829	2.519
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			40.329								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/14/93-08/02/95	6	185.	176.5	229.	100.	1925.5	43.881	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/14/93-07/03/94	5 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	05/14/93-08/02/95	7	1.8	10.1	57.7	1.1	443.007	21.048	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0058

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	7	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	7	2	0.29	3	1	0.33	1	0	0.00	3	1	0.33			
		Other-Lo Lim.	6.5	7	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	250.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	50.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	4.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	5.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	1300.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	15.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	100.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	5000.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	50.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	0	0.00	4	0	0.00	2	0	0.00	3	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	2.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	7	1	0.14	3	0	0.00	1	1	1.00	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: GRCA0059

NPS Station ID: GRCA0059 LAT/LON: 36.102115/-112.095116 Agency: 11NPSWRD Date Created: 02/03/96
Location: SUSPENSION BRIDGE ACROSS COLORADO RIVER FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): GRCA_BRIG012
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010001 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
SUSPENSION BRIDGE ACROSS COLORADO RIVER. STATION LOCATED ON THE PHANTOM RANCH USGS 7.5 QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0059

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/92-10/14/92	2	16.1	16.1	16.2	16.	0.02	0.141	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/12/92-10/14/92	2	27.25	27.25	35.	19.5	120.125	10.96	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/12/92-10/14/92	2	22.5	22.5	28.	17.	60.5	7.778	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/12/92-10/14/92	2	301.	301.	350.	252.	4802.	69.296	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/12/92-10/14/92	2	8.9	8.9	9.	8.8	0.02	0.141	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/12/92-10/14/92	2	101.	101.	102.	100.	2.	1.414	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/12/92-10/14/92	2	8.61	8.61	8.62	8.6	0.	0.014	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/12/92-10/14/92	2	8.61	8.61	8.62	8.6	0.	0.014	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/12/92-10/14/92	2	0.002	0.002	0.003	0.002	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/12/92-10/14/92	2	174.5	174.5	188.	161.	364.5	19.092	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/12/92-10/14/92	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/12/92-10/14/92	2 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/12/92-10/14/92	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/12/92-10/14/92	2 ##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/12/92-10/14/92	2 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/12/92-10/14/92	2	37.4	37.4	37.8	37.	0.32	0.566	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/12/92-10/14/92	2	19.6	19.6	21.5	17.7	7.22	2.687	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/12/92-10/14/92	2	3.55	3.55	4.	3.1	0.405	0.636	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/12/92-10/14/92	2	1.2	1.2	1.3	1.1	0.02	0.141	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/12/92-10/14/92	2	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/12/92-10/14/92	2	7.	7.	7.	7.	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/12/92-10/14/92	2	0.085	0.085	0.1	0.07	0.	0.021	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/12/92-10/14/92	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/12/92-10/14/92	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/12/92-10/14/92	2 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/12/92-10/14/92	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/12/92-10/14/92	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/12/92-10/14/92	2 ##	2.	2.	3.	1.	2.	1.414	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/12/92-10/14/92	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/12/92-10/14/92	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/12/92-10/14/92	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/12/92-10/14/92	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/12/92-10/14/92	2 ##	25.	25.	25.	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

Parameter Inventory for Station: GRCA0059

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01147	SELENIUM, TOTAL (UG/L AS SE)	06/12/92-10/14/92	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/12/92-10/14/92	2	170.	170.	190.	150.	800.	28.284	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/12/92-10/14/92	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/12/92-10/14/92	2	3.15	3.15	3.3	3.	0.045	0.212	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0059

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00	1	0	0.00						
00406	PH, FIELD	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00	1	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00	1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	250.	2	0	0.00	1	0	0.00	1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00	1	0	0.00						
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.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	2	0	0.00	1	0	0.00	1	0	0.00						
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	4.	2	0	0.00	1	0	0.00	1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	5.	2	0	0.00	1	0	0.00	1	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	1300.	2	0	0.00	1	0	0.00	1	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	15.	2	0	0.00	1	0	0.00	1	0	0.00						
01059	THALLIUM, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	5000.	2	0	0.00	1	0	0.00	1	0	0.00						
01097	ANTIMONY, TOTAL	Fresh Acute	88.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	2	0	0.00	1	0	0.00	1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	2.	2	0	0.00	1	0	0.00	1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	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: GRCA0060

NPS Station ID: GRCA0060 | LAT/LON: 36.103059/-112.095559 | Agency: 112WRD | Date Created: / /
Location: BRIGHT ANGEL CREEK NEAR GRAND CANYON, ARIZ. | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 09403000
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 | Depth of Water: 0 | Aquifer:
Major Basin: | Elevation: 0 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 15010002013 | RF1 Mile Point: 62.690 | Distance from RF1: 2.50 | On/Off RF1: OFF
RF3 Index: 15010001000200.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.01 | On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	85	13.	13.505	27.	1.	38.756	6.225	5.84	9.	18.	22.52
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	103	20.	32.932	276.	13.	1602.476	40.031	16.	18.	27.	58.
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/14/72-09/02/81	16	21.	31.188	160.	16.	1207.096	34.743	16.7	19.	30.	70.4
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/02/81-09/02/81	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	123	340.	332.927	651.	201.	2509.2	50.092	280.	312.	360.	370.
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	122	8.	7.948	8.7	6.8	0.165	0.406	7.4	7.7	8.2	8.47
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	122	8.	7.723	8.7	6.8	0.216	0.465	7.4	7.7	8.2	8.47
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	122	0.01	0.019	0.158	0.002	0.001	0.027	0.003	0.006	0.02	0.04
00403	PH, LAB, STANDARD UNITS SU	09/02/81-09/02/81	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/02/81-09/02/81	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/02/81-09/02/81	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	11/14/72-03/08/74	17	1.7	1.765	3.5	0.7	0.691	0.831	0.7	1.15	2.2	3.42
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/17/67-03/08/74	70	171.	165.629	191.	97.	510.875	22.603	126.	159.	181.	186.
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	122	210.	203.943	411.	118.	1052.848	32.448	170.	191.5	222.5	226.7
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	112	0.	1.009	11.	0.	5.144	2.268	0.	0.	0.	5.7
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/14/72-03/08/74	17 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/14/72-03/08/74	17	0.03	0.061	0.44	0.	0.011	0.103	0.	0.01	0.07	0.176
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	01/22/71-09/02/81	25	0.04	0.069	0.4	0.01	0.007	0.082	0.01	0.015	0.1	0.14
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/22/71-09/02/81	20	0.03	0.153	2.1	0.	0.212	0.46	0.	0.008	0.09	0.147
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/05/72-09/02/81	19	0.01	0.018	0.05	0.005	0.	0.014	0.005	0.005	0.03	0.04
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/22/71-09/02/81	25	180.	172.8	210.	100.	646.	25.417	134.	160.	190.	194.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/22/71-03/08/74	24	3.	5.833	35.	0.	66.145	8.133	0.	0.	8.	18.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/22/71-09/02/81	25	36.	35.88	46.	24.	30.527	5.525	26.	32.	41.	41.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/22/71-09/02/81	25	21.	20.08	25.	10.	11.077	3.328	14.8	20.	21.	22.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	01/22/71-09/02/81	25	3.8	3.784	5.5	1.4	0.899	0.948	2.44	3.4	4.4	5.2
00931	SODIUM ADSORPTION RATIO	01/22/71-09/02/81	25	0.1	0.112	0.2	0.1	0.001	0.033	0.1	0.1	0.1	0.2
00932	SODIUM, PERCENT	01/22/71-09/02/81	25	5.	4.56	6.	3.	0.673	0.821	3.6	4.	5.	6.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/22/71-09/02/81	25	1.1	1.124	1.7	0.6	0.055	0.235	0.86	1.	1.2	1.52
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	123	4.	3.893	16.	0.8	4.646	2.155	2.	3.	4.	6.
00945	SULFATE, TOTAL (MG/L AS SO4)	01/22/71-09/02/81	25	9.	10.46	25.	2.5	23.332	4.83	6.6	8.	12.	18.4
00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/22/71-09/02/81	25	0.1	0.11	0.7	0.	0.018	0.132	0.	0.05	0.1	0.2
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/22/71-09/02/81	25	6.3	6.268	7.6	4.9	0.46	0.678	5.22	5.8	6.9	7.12
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	01/22/71-09/02/81	25	10.	23.2	100.	0.	422.667	20.559	10.	10.	30.	44.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/02/81-09/02/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/02/81-09/02/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/22/71-09/02/81	25	20.	22.84	110.	0.	587.807	24.245	5.	7.	30.	60.
01049	LEAD, DISSOLVED (UG/L AS PB)	09/02/81-09/02/81	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: GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/02/81-09/02/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/02/81-09/02/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/02/81-09/02/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/02/81-09/02/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/02/81-09/02/81	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/02/81-09/02/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/02/81-09/02/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/02/81-09/02/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/02/81-09/02/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/02/81-09/02/81	1	0.778	0.778	0.778	0.778	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			6.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/02/81-09/02/81	1	89.	89.	89.	89.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/02/81-09/02/81	1	1.949	1.949	1.949	1.949	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			89.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/05/72-09/02/81	19	179.	185.	227.	110.	1033.556	32.149	124.	170.	214.	222.
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/22/71-09/02/81	25	185.	183.16	211.	113.	688.557	26.24	140.2	173.5	205.5	211.
70302	SOLIDS, DISSOLVED-TONS PER DAY	01/22/71-09/02/81	23	9.67	12.212	47.6	5.9	72.023	8.487	6.772	8.22	13.	18.6
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/22/71-09/02/81	25	0.24	0.25	0.31	0.15	0.002	0.041	0.194	0.23	0.29	0.3
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/14/72-03/08/74	17	0.1	0.261	1.9	0.	0.204	0.452	0.	0.	0.35	0.78
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	11/14/72-03/08/74	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/02/81-09/02/81	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

EPA Water Quality Criteria Analysis for Station: GRCA0060

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
00400	PH	Other-Hi Lim.	9.	122	0	0.00	57	0	0.00	35	0	0.00	30	0	0.00			
		Other-Lo Lim.	6.5	122	0	0.00	57	0	0.00	35	0	0.00	30	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	17	0	0.00	11	0	0.00	3	0	0.00	3	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	17	0	0.00	11	0	0.00	3	0	0.00	3	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	25	0	0.00	15	0	0.00	5	0	0.00	5	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	123	0	0.00	58	0	0.00	35	0	0.00	30	0	0.00			
		Drinking Water	250.	123	0	0.00	58	0	0.00	35	0	0.00	30	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	25	0	0.00	15	0	0.00	5	0	0.00	5	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	25	0	0.00	15	0	0.00	5	0	0.00	5	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
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			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	0	0.00							1	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	17	0	0.00	11	0	0.00	3	0	0.00	3	0	0.00			
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	17	0	0.00	11	0	0.00	3	0	0.00	3	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

Annual Analysis for 1961 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	1	354.	354.	354.	354.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	1	215.	215.	215.	215.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	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 box-and-whisker plot

Annual Analysis for 1962 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	7	23.	22.286	28.	16.	12.571	3.546	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	7	363.	399.429	651.	341.	12569.952	112.116	**	**	**	**
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	7	7.7	7.514	8.1	6.9	0.235	0.485	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	7	7.7	7.291	8.1	6.9	0.293	0.541	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	7	0.02	0.051	0.126	0.008	0.003	0.053	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	7	222.	247.714	411.	210.	5211.571	72.191	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	7	8.	8.571	16.	4.	25.286	5.028	**	**	**	**

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

Annual Analysis for 1963 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	7	21.	28.714	80.	15.	517.905	22.758	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	7	347.	356.857	410.	335.	650.476	25.504	**	**	**	**
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	7	7.6	7.843	8.3	7.4	0.163	0.404	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	7	7.6	7.705	8.3	7.4	0.185	0.43	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	7	0.025	0.02	0.04	0.005	0.	0.014	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	7	216.	214.286	224.	186.	171.238	13.086	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	7	0.	1.286	5.	0.	4.905	2.215	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	7	4.	5.429	9.	3.	7.619	2.76	**	**	**	**

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

Annual Analysis for 1964 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	3	7.8	9.467	15.	5.6	24.173	4.917	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	3	16.	16.333	18.	15.	2.333	1.528	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	3	350.	348.667	363.	333.	226.333	15.044	**	**	**	**
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	3	7.8	7.9	8.1	7.8	0.03	0.173	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	3	7.8	7.879	8.1	7.8	0.031	0.175	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	3	0.016	0.013	0.016	0.008	0.	0.005	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	3	218.	219.333	228.	212.	65.333	8.083	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	3	4.	3.667	4.	3.	0.333	0.577	**	**	**	**

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

Annual Analysis for 1965 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	7	14.4	13.314	23.3	7.2	31.031	5.571	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	8	19.	36.75	124.	16.	1411.929	37.576	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	8	352.5	322.375	371.	203.	3916.554	62.582	**	**	**	**
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	8	8.	7.863	8.2	7.4	0.103	0.32	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	8	8.	7.752	8.2	7.4	0.117	0.342	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	8	0.01	0.018	0.04	0.006	0.	0.014	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	8	225.	201.75	236.	122.	1696.786	41.192	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	8	3.5	3.625	5.	2.	1.125	1.061	**	**	**	**

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Annual Analysis for 1966 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	5	21.1	19.	25.6	11.7	33.165	5.759	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	9	19.	30.667	99.	16.	728.75	26.995	16.	17.5	35.	99.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	9	322.	319.222	370.	219.	2224.694	47.167	219.	296.	360.5	370.
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	9	7.9	7.878	8.4	7.3	0.109	0.331	7.3	7.65	8.15	8.4
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	9	7.9	7.765	8.4	7.3	0.124	0.352	7.3	7.65	8.15	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	9	0.013	0.017	0.05	0.004	0.	0.014	0.004	0.007	0.023	0.05
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	9	198.	193.	224.	132.	798.5	28.258	132.	178.5	216.	224.
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	9	0.	0.667	6.	0.	4.	2.	0.	0.	0.	6.
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	9	3.	3.222	4.	2.	0.444	0.667	2.	3.	4.	4.

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Annual Analysis for 1967 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	4	10.	8.5	13.	1.	29.667	5.447	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	21	21.	24.476	39.	16.	60.362	7.769	17.	18.	31.	38.4
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	21	340.	339.	372.	292.	671.9	25.921	299.8	315.	361.	371.
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	20	8.	7.995	8.5	7.6	0.052	0.228	7.61	7.9	8.1	8.3
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	20	8.	7.94	8.5	7.6	0.055	0.235	7.61	7.9	8.1	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	20	0.01	0.011	0.025	0.003	0.	0.006	0.005	0.008	0.013	0.025
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/17/67-03/08/74	4	182.	182.	189.	175.	38.667	6.218	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	21	210.	206.381	230.	174.	294.848	17.171	179.6	191.5	222.5	225.8
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	21	0.	0.571	6.	0.	2.457	1.568	0.	0.	0.	3.6
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	21	4.	4.095	7.	3.	1.09	1.044	3.	3.	4.5	5.8

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Annual Analysis for 1968 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	18	14.	13.944	23.	4.	31.82	5.641	5.8	9.75	18.	22.1
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	18	19.	34.167	202.	16.	1958.382	44.254	16.9	17.	25.	78.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	18	334.	327.222	367.	254.	1123.83	33.524	264.8	313.	355.25	367.
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	18	7.9	7.756	8.5	6.8	0.225	0.474	6.89	7.5	8.025	8.41
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	18	7.9	7.478	8.5	6.8	0.307	0.554	6.89	7.5	8.025	8.41
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	18	0.013	0.033	0.158	0.003	0.002	0.046	0.004	0.009	0.032	0.129
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/17/67-03/08/74	18	170.	167.111	190.	126.	355.163	18.846	126.	163.75	184.	188.2

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Annual Analysis for 1968 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	18	206.	202.111	232.	154.	559.046	23.644	154.	188.	224.	229.3
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	18	0.	0.778	8.	0.	5.242	2.29	0.	0.	0.	6.2
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	18	3.	3.1	6.	0.8	1.921	1.386	0.98	2.	4.	5.1

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Annual Analysis for 1969 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	14	13.	13.786	24.	4.	35.258	5.938	5.5	9.75	19.5	23.
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	14	24.5	66.643	276.	18.	6592.555	81.195	18.5	20.5	78.	227.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	14	335.	317.357	394.	220.	3240.093	56.922	221.	277.	356.5	383.5
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	14	7.8	7.721	8.1	7.1	0.108	0.329	7.1	7.5	8.	8.1
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	14	7.8	7.59	8.1	7.1	0.127	0.356	7.1	7.5	8.	8.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	14	0.016	0.026	0.079	0.008	0.001	0.024	0.008	0.01	0.032	0.079
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/17/67-03/08/74	14	169.	158.5	186.	102.	778.731	27.906	107.	135.5	180.25	185.
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	14	206.	193.214	227.	124.	1168.181	34.179	130.	165.5	220.25	225.5
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	14	2.	2.286	4.	1.	0.681	0.825	1.	2.	3.	3.5

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Annual Analysis for 1970 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	10	12.6	13.57	25.	6.	41.147	6.415	6.	8.25	18.25	24.7
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	8	20.	26.875	74.	16.	376.411	19.401	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	10	314.	312.9	361.	264.	1057.211	32.515	265.4	282.5	344.25	360.3
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	10	8.35	8.27	8.5	7.9	0.051	0.226	7.9	8.05	8.425	8.5
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	10	8.347	8.212	8.5	7.9	0.055	0.235	7.9	8.05	8.425	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	10	0.004	0.006	0.013	0.003	0.	0.004	0.003	0.004	0.009	0.013
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/17/67-03/08/74	10	168.	162.1	184.	121.	394.322	19.858	123.5	148.25	180.25	183.7
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	10	197.	192.5	224.	135.	757.389	27.521	138.9	174.	220.25	223.7
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	10	3.	2.6	6.	0.	4.489	2.119	0.	0.	4.	5.8
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	10	3.	2.4	3.	1.	0.711	0.843	1.	1.75	3.	3.

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

Annual Analysis for 1971 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	3	10.6	12.2	17.	9.	17.92	4.233	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	3	18.	20.	25.	17.	19.	4.359	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	3	340.	326.	344.	294.	772.	27.785	**	**	**	**
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	3	8.2	8.233	8.5	8.	0.063	0.252	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	3	8.2	8.188	8.5	8.	0.066	0.258	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	3	0.006	0.006	0.01	0.003	0.	0.003	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/17/67-03/08/74	3	178.	169.	180.	149.	301.	17.349	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	3	217.	206.333	220.	182.	446.333	21.127	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	3	4.	4.	4.	4.	0.	0.	**	**	**	**

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Annual Analysis for 1972 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	6	13.	14.333	27.	3.	102.267	10.113	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	4	14.	14.	15.	13.	0.667	0.816	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	6	345.	338.333	366.	299.	773.067	27.804	**	**	**	**
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	6	8.2	7.917	8.2	7.2	0.202	0.449	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	6	8.2	7.699	8.2	7.2	0.258	0.508	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	6	0.006	0.02	0.063	0.006	0.001	0.023	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/17/67-03/08/74	6	179.	174.5	190.	147.	301.1	17.352	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	6	218.5	213.	232.	179.	455.2	21.335	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	6	0.	0.	0.	0.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	6	4.5	4.667	7.	3.	1.867	1.366	**	**	**	**

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Annual Analysis for 1973 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	11	14.	13.773	22.	4.5	31.518	5.614	4.9	9.	19.	21.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	12	335.	322.25	387.	201.	3753.295	61.264	202.5	310.	369.75	384.9
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	12	8.25	8.317	8.7	8.	0.078	0.279	8.	8.025	8.65	8.7
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	12	8.247	8.242	8.7	8.	0.084	0.29	8.	8.025	8.65	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	12	0.006	0.006	0.01	0.002	0.	0.003	0.002	0.002	0.009	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/17/67-03/08/74	12	171.5	162.333	191.	97.	931.333	30.518	98.5	161.	180.	189.2
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	12	204.5	192.417	233.	118.	1328.447	36.448	119.8	183.	215.25	230.9
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	12	0.	2.75	11.	0.	15.295	3.911	0.	0.	6.75	9.8
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	12	4.	4.417	7.	2.	2.265	1.505	2.	4.	5.75	6.7

** - 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 1974 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	3	8.5	6.833	9.5	2.5	14.333	3.786	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	3	345.	342.667	359.	324.	310.333	17.616	**	**	**	**
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	3	8.3	8.367	8.5	8.3	0.013	0.115	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	3	8.3	8.357	8.5	8.3	0.013	0.116	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	3	0.005	0.004	0.005	0.003	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/17/67-03/08/74	3	171.	172.	186.	159.	183.	13.528	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	3	208.	205.	213.	194.	97.	9.849	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	3	0.	2.333	7.	0.	16.333	4.041	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	3	4.	4.333	5.	4.	0.333	0.577	**	**	**	**

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

Annual Analysis for 1981 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	1	320.	320.	320.	320.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	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 box-and-whisker plot

Seasonal Analysis for Season #1: 10/01 to 3/14 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	43	9.	9.177	16.	1.	13.748	3.708	4.	6.5	12.	14.24
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	45	19.	19.978	45.	13.	34.659	5.887	16.	17.	21.	23.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	58	354.	352.759	410.	297.	423.379	20.576	323.8	340.	367.	372.1
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	57	8.	8.002	8.7	7.3	0.102	0.32	7.58	7.8	8.2	8.42
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	57	8.	7.884	8.7	7.3	0.117	0.341	7.58	7.8	8.2	8.42
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	57	0.01	0.013	0.05	0.002	0.	0.011	0.004	0.006	0.016	0.026
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/17/67-03/08/74	38	179.5	177.474	191.	139.	102.418	10.12	167.	171.	185.	189.1
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	58	220.	216.328	233.	170.	152.47	12.348	199.6	208.	226.	229.
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	53	0.	0.698	7.	0.	3.715	1.927	0.	0.	0.	4.
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	58	4.	4.448	15.	2.	3.76	1.939	3.	3.	5.	6.1

** - 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 #2: 3/15 to 6/19 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	23	14.4	14.848	25.	6.	18.364	4.285	9.34	11.7	17.	21.6
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	32	31.	59.531	276.	14.	4027.676	63.464	18.6	22.25	63.75	176.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	35	295.	295.8	387.	201.	2853.459	53.418	213.8	256.	346.	361.8
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	35	8.	7.897	8.5	6.8	0.228	0.477	7.06	7.6	8.3	8.5
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	35	8.	7.596	8.5	6.8	0.321	0.567	7.06	7.6	8.3	8.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	35	0.01	0.025	0.158	0.003	0.001	0.037	0.003	0.005	0.025	0.088
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/17/67-03/08/74	18	145.	140.833	184.	97.	788.618	28.082	101.5	118.75	163.75	180.4
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	35	182.	180.429	236.	118.	1233.546	35.122	124.	154.	216.	224.
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	31	0.	1.323	6.	0.	5.159	2.271	0.	0.	2.	6.
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	35	3.	2.794	5.	0.8	1.363	1.168	1.	2.	4.	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: 6/20 to 9/30 - Station GRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/64-09/02/81	19	22.	21.674	27.	14.6	8.846	2.974	18.	19.	23.3	25.6
00060	FLOW, STREAM, MEAN DAILY CFS	12/31/61-10/05/72	26	19.5	22.615	80.	14.	164.406	12.822	15.7	16.75	22.5	31.3
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/31/61-09/02/81	30	325.	337.9	651.	284.	3902.576	62.471	299.7	312.75	341.5	363.6
00400	PH (STANDARD UNITS)	12/31/61-09/02/81	30	7.9	7.903	8.7	6.9	0.213	0.462	7.22	7.6	8.225	8.49
00400	CONVERTED PH (STANDARD UNITS)	12/31/61-09/02/81	30	7.9	7.647	8.7	6.9	0.282	0.531	7.22	7.6	8.225	8.49
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/31/61-09/02/81	30	0.013	0.023	0.126	0.002	0.001	0.031	0.003	0.006	0.025	0.061
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/17/67-03/08/74	14	167.5	165.357	190.	147.	127.324	11.284	148.	157.25	171.	182.
00440	BICARBONATE ION (MG/L AS HCO3)	12/31/61-03/08/74	29	200.	207.552	411.	174.	1719.185	41.463	181.	191.	212.	220.
00445	CARBONATE ION (MG/L AS CO3)	12/31/61-03/08/74	28	0.	1.25	11.	0.	7.898	2.81	0.	0.	0.	6.2
00940	CHLORIDE,TOTAL IN WATER MG/L	12/31/61-09/02/81	30	3.	4.1	16.	1.	8.438	2.905	2.	2.75	4.	8.

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

Station Inventory for Station: GRCA0061

NPS Station ID: GRCA0061
LAT/LON: 36.102226/-112.097227
Agency: 21AZRWTR
Date Created: 08/27/94
Location: BRIGHT ANGEL CR. AZ/NM PLATEAU
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BRA1-00RF
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010001
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 2520
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010001
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0061

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: GRCA0062

NPS Station ID: GRCA0062
LAT/LON: 36.076948/-112.100560
Agency: 112WRD
Date Created: 12/02/81
Location: BA24 BURRO SP AT TONTO TR
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 360437112060210
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 14.30
On/Off RF1:
RF3 Index: 15010001048900.00
RF3 Mile Point: 5.17
Distance from RF3: 0.62
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0062

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/81-09/01/81	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/01/81-09/01/81	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/01/81-09/01/81	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/81-09/01/81	1	650.	650.	650.	650.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/01/81-09/01/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/01/81-09/01/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/81-09/01/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/01/81-09/01/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/01/81-09/01/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/81-09/01/81	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/01/81-09/01/81	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/01/81-09/01/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/01/81-09/01/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/01/81-09/01/81	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/81-09/01/81	1	51.	51.	51.	51.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/81-09/01/81	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/01/81-09/01/81	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/01/81-09/01/81	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/01/81-09/01/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/01/81-09/01/81	1	5.1	5.1	5.1	5.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/01/81-09/01/81	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/01/81-09/01/81	1	57.	57.	57.	57.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/01/81-09/01/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/01/81-09/01/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/01/81-09/01/81	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/01/81-09/01/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/01/81-09/01/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/81-09/01/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/81-09/01/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/01/81-09/01/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/81-09/01/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/01/81-09/01/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/01/81-09/01/81	1	5.	5.	5.	5.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/01/81-09/01/81	1	2.6	2.6	2.6	2.6	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

Parameter Inventory for Station: GRCA0062

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	1	0.477	0.477	0.477	0.477	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			3.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	1	26.	26.	26.	26.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	1	1.415	1.415	1.415	1.415	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			26.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/01/81-09/01/81	1	352.	352.	352.	352.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/01/81-09/01/81	1	343.	343.	343.	343.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/01/81-09/01/81	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

EPA Water Quality Criteria Analysis for Station: GRCA0062

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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			
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			
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			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0063

NPS Station ID: GRCA0063 | LAT/LON: 36.075642/-112.101060 | Agency: 11NPSWRD | Date Created: 02/03/96
Location: BURRO SPRINGS | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): GRCA_PIPE003
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE COLORADO RIVER | ECO Region:
RF1 Index: 15010002 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
BURRO SPRINGS. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/27/94-03/29/94	2	11.45	11.45	12.5	10.4	2.205	1.485	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/27/94-03/29/94	2	21.	21.	25.	17.	32.	5.657	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/27/94-03/29/94	2	540.	540.	570.	510.	1800.	42.426	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	02/27/94-02/27/94	1	11.6	11.6	11.6	11.6	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	02/27/94-02/27/94	1	118.	118.	118.	118.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	02/27/94-03/29/94	2	7.415	7.415	7.54	7.29	0.031	0.177	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	02/27/94-03/29/94	2	7.397	7.397	7.54	7.29	0.032	0.179	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/94-03/29/94	2	0.04	0.04	0.051	0.029	0.	0.016	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/27/94-03/29/94	2	170.	170.	170.	170.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/29/94-03/29/94	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/29/94-03/29/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/27/94-03/29/94	2	74.5	74.5	75.	74.	0.5	0.707	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/27/94-03/29/94	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	02/27/94-03/29/94	2	0.55	0.55	0.9	0.2	0.245	0.495	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0063

				Total	Exceed	Prop.	----------10/01-3/14----------			----------3/15-6/19----------			----------6/20-9/30----------			----------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.	1	0	0.00	1	0	0.00									
00406	PH, FIELD	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00	1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00	1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00	1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	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: GRCA0064

NPS Station ID: GRCA0064
LAT/LON: 36.072949/-112.101699
Agency: 11NPSWRD
Date Created: 02/03/96
Location: PIPE SPRINGS/PIPE CREEK AT TONTO TRAIL
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): GRCA_PIPE002
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
PIPE SPRINGS/PIPE CREEK AT TONTO TRAIL. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0064

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/27/94-03/29/94	2	11.9	11.9	12.	11.8	0.02	0.141	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/27/94-03/29/94	2	17.25	17.25	21.5	13.	36.125	6.01	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/29/94-03/29/94	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/27/94-03/29/94	2	619.	619.	626.	612.	98.	9.899	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	02/27/94-02/27/94	1	12.1	12.1	12.1	12.1	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	02/27/94-02/27/94	1	127.	127.	127.	127.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	02/27/94-03/29/94	2	8.16	8.16	8.82	7.5	0.871	0.933	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	02/27/94-03/29/94	2	7.781	7.781	8.82	7.5	1.159	1.077	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/94-03/29/94	2	0.017	0.017	0.032	0.002	0.	0.021	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/27/94-03/29/94	2	285.	285.	378.	192.	17298.	131.522	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/27/94-03/29/94	2	0.03	0.03	0.05	0.01	0.001	0.028	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/29/94-03/29/94	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/27/94-03/29/94	2	75.	75.	75.	75.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	02/27/94-02/27/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	02/27/94-03/29/94	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0064

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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									
00406	PH, FIELD	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00	1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00	1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	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: GRCA0065

NPS Station ID: GRCA0065
LAT/LON: 36.073337/-112.101949
Agency: 112WRD
Date Created: 12/19/81
Location: BA25 PIPE CRK AT TONTO TR
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360424112060710
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 15.90
On/Off RF1:
RF3 Index: 15010001049402.73
RF3 Mile Point: 2.73
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/81-09/01/81	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/01/81-09/01/81	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/01/81-09/01/81	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/81-09/01/81	1	765.	765.	765.	765.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/01/81-09/01/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/01/81-09/01/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/81-09/01/81	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/01/81-09/01/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/01/81-09/01/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/81-09/01/81	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/01/81-09/01/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/01/81-09/01/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/01/81-09/01/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/01/81-09/01/81	1	380.	380.	380.	380.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/81-09/01/81	1	70.	70.	70.	70.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/81-09/01/81	1	49.	49.	49.	49.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/01/81-09/01/81	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/01/81-09/01/81	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/01/81-09/01/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/01/81-09/01/81	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/01/81-09/01/81	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/01/81-09/01/81	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/01/81-09/01/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/01/81-09/01/81	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/01/81-09/01/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/01/81-09/01/81	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/01/81-09/01/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/01/81-09/01/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/81-09/01/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/81-09/01/81	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/81-09/01/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/81-09/01/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/81-09/01/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/01/81-09/01/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/01/81-09/01/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/01/81-09/01/81	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

Parameter Inventory for Station: GRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			10.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	1	192.	192.	192.	192.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	1	2.283	2.283	2.283	2.283	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			192.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/01/81-09/01/81	1	471.	471.	471.	471.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/01/81-09/01/81	1	450.	450.	450.	450.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/01/81-09/01/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/01/81-09/01/81	1	0.64	0.64	0.64	0.64	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/01/81-09/01/81	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

EPA Water Quality Criteria Analysis for Station: GRCA0065

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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			
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			
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			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0066

NPS Station ID: GRCA0066
LAT/LON: 36.079448/-112.125560
Agency: 112WRD
Date Created: 12/19/81
Location: BA107 GARDEN CRK BELOW PUMPHOUSE
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360446112073211
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 12.40
On/Off RF1:
RF3 Index: 15010002084101.35
RF3 Mile Point: 1.50
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0066

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/81-09/01/81	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/01/81-09/01/81	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/81-09/01/81	1	345.	345.	345.	345.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/01/81-09/01/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/01/81-09/01/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/81-09/01/81	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/01/81-09/01/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/01/81-09/01/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/81-09/01/81	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/01/81-09/01/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/01/81-09/01/81	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/01/81-09/01/81	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/01/81-09/01/81	1	180.	180.	180.	180.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/81-09/01/81	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/81-09/01/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/01/81-09/01/81	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/01/81-09/01/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/01/81-09/01/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/01/81-09/01/81	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/01/81-09/01/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/01/81-09/01/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/01/81-09/01/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/01/81-09/01/81	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/01/81-09/01/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/01/81-09/01/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/01/81-09/01/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/81-09/01/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/01/81-09/01/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/81-09/01/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/81-09/01/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/81-09/01/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/01/81-09/01/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/81-09/01/81	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/01/81-09/01/81	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	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

Parameter Inventory for Station: GRCA0066

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			2.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	1	5.	5.	5.	5.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	1	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			5.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/01/81-09/01/81	1	187.	187.	187.	187.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/01/81-09/01/81	1	182.	182.	182.	182.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/01/81-09/01/81	1	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/01/81-09/01/81	1	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/01/81-09/01/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRCA0066

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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			
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			
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			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0067

NPS Station ID: GRCA0067 | LAT/LON: 36.079920/-112.125616 | Agency: 11NPSWRD | Date Created: 02/03/96
Location: GARDEN CREEK | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): GRCA_GARD004
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE COLORADO RIVER | ECO Region:
RF1 Index: 15010002 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
GARDEN CREEK DOWNSTREAM OF THE SOUTH RIM VISITOR'S CENTER. SITE IS LOCATED ON THE GRAND CANYON USGS 7.5 QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0067

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/28/93-06/22/94	4	18.75	19.025	20.6	18.	1.269	1.127	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/28/93-05/27/94	3	19.	16.	20.	9.	37.	6.083	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/22/94-06/22/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/28/93-06/22/94	4	432.5	434.	487.	384.	1775.333	42.135	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	11/28/93-06/22/94	4	8.6	8.675	10.	7.5	1.589	1.261	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	11/28/93-06/22/94	4	105.5	106.75	122.	94.	220.917	14.863	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	11/28/93-06/22/94	4	7.75	7.82	8.4	7.38	0.207	0.455	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	11/28/93-06/22/94	4	7.705	7.672	8.4	7.38	0.236	0.485	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/93-06/22/94	4	0.02	0.021	0.042	0.004	0.	0.017	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/28/93-06/22/94	4	207.	220.	278.	188.	1725.333	41.537	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/93-06/22/94	2	0.02	0.02	0.03	0.01	0.	0.014	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/28/93-06/22/94	4	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/28/93-06/22/94	4	18.	18.	20.	16.	3.333	1.826	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/27/94-06/22/94	2	314.	314.	331.	297.	578.	24.042	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	11/28/93-06/22/94	4	0.25	0.25	0.4	0.1	0.017	0.129	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	11/28/93-06/22/94	4	0.4	1.35	4.4	0.2	4.143	2.036	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0067

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			

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

Station Inventory for Station: GRCA0068

NPS Station ID: GRCA0068 LAT/LON: 36.078615/-112.126670 Agency: 112WRD Date Created: 12/19/81
Location: BA26 GARDEN CRK AT INDIAN GARDENS RANGER STN FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): 360443112073610
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 12.40 On/Off RF1:
RF3 Index: 15010002084501.19 RF3 Mile Point: 2.28 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0068

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/01/81-09/01/81	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/01/81-09/01/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/01/81-09/01/81	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/01/81-09/01/81	1	480.	480.	480.	480.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/01/81-09/01/81	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/01/81-09/01/81	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/81-09/01/81	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/01/81-09/01/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/01/81-09/01/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/01/81-09/01/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/01/81-09/01/81	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/01/81-09/01/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/01/81-09/01/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/01/81-09/01/81	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/01/81-09/01/81	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/01/81-09/01/81	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/01/81-09/01/81	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/01/81-09/01/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/01/81-09/01/81	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/01/81-09/01/81	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/01/81-09/01/81	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/01/81-09/01/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/01/81-09/01/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/01/81-09/01/81	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/01/81-09/01/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/01/81-09/01/81	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/01/81-09/01/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/01/81-09/01/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/01/81-09/01/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/01/81-09/01/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/01/81-09/01/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/01/81-09/01/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/01/81-09/01/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/01/81-09/01/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/01/81-09/01/81	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/01/81-09/01/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/01/81-09/01/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/01/81-09/01/81	1	2.4	2.4	2.4	2.4	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: GRCA0068

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	1	215.	215.	215.	215.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/01/81-09/01/81	1	2.332	2.332	2.332	2.332	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			215.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	1	1070.	1070.	1070.	1070.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/01/81-09/01/81	1	3.029	3.029	3.029	3.029	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			1070.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/01/81-09/01/81	1	260.	260.	260.	260.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/01/81-09/01/81	1	249.	249.	249.	249.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/01/81-09/01/81	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

EPA Water Quality Criteria Analysis for Station: GRCA0068

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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			
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			
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			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	1	1.00							1	1	1.00			
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: GRCA0069

NPS Station ID: GRCA0069 | LAT/LON: 36.079920/-112.127310 | Agency: 11NPSWRD | Date Created: 02/03/96
Location: GARDEN CREEK BELOW PUMPHOUSE | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): GRCA_GARD002
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE COLORADO RIVER | ECO Region:
RF1 Index: 15010002 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
GARDEN CREEK BELOW PUMPHOUSE. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/28/93-05/26/94	3	17.	17.	19.	15.	4.	2.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/28/93-05/26/94	3	21.	18.	24.	9.	63.	7.937	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/28/93-05/26/94	3	0.3	1.113	3.	0.04	2.687	1.639	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/28/93-05/26/94	3	488.	486.333	495.	476.	92.333	9.609	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	11/28/93-03/17/94	2	9.1	9.1	9.5	8.7	0.32	0.566	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	11/28/93-03/17/94	2	104.5	104.5	111.	98.	84.5	9.192	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	11/28/93-05/26/94	3	7.96	7.973	8.4	7.56	0.177	0.42	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	11/28/93-05/26/94	3	7.96	7.849	8.4	7.56	0.2	0.447	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/28/93-05/26/94	3	0.011	0.014	0.028	0.004	0.	0.012	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/28/93-05/26/94	3	232.	224.667	238.	204.	329.333	18.148	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/93-05/26/94	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/28/93-05/26/94	3	0.06	0.193	0.49	0.03	0.066	0.257	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/28/93-05/26/94	3	19.	18.	20.	15.	7.	2.646	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	11/28/93-11/28/93	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	11/28/93-05/26/94	3	1.2	1.167	1.9	0.4	0.563	0.751	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0069

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00	1	0	0.00						
00406	PH, FIELD	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						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	1	0	0.00	2	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	3	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: GRCA0070

NPS Station ID: GRCA0070 | LAT/LON: 36.084281/-112.141809 | Agency: 11NPSWRD | Date Created: 02/03/96
Location: EAST FORK OF HORN CREEK | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): GRCA_HORN002
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE COLORADO RIVER | ECO Region:
RF1 Index: 15010002 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
EAST FORK OF HORN CREEK. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/94-03/30/94	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/30/94-03/30/94	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/30/94-03/30/94	1	930.	930.	930.	930.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	03/30/94-03/30/94	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	03/30/94-03/30/94	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/94-03/30/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/94-03/30/94	1	428.	428.	428.	428.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/30/94-03/30/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/30/94-03/30/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/94-03/30/94	1	75.	75.	75.	75.	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	03/30/94-03/30/94	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0070

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0071

NPS Station ID: GRCA0071
LAT/LON: 36.084726/-112.161670
Agency: 112WRD
Date Created: 01/23/82
Location: BA28X SALT CRK AT TONTO TR
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360505112094210
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 11.30
On/Off RF1:
RF3 Index: 15010002002000.00
RF3 Mile Point: 1.24
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0071

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/81-09/04/81	1	20.5	20.5	20.5	20.5	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	09/04/81-09/04/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/81-09/04/81	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/04/81-09/04/81	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/04/81-09/04/81	1	1480.	1480.	1480.	1480.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/04/81-09/04/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/04/81-09/04/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/81-09/04/81	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/04/81-09/04/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/04/81-09/04/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/81-09/04/81	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/04/81-09/04/81	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/04/81-09/04/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/04/81-09/04/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/04/81-09/04/81	1	730.	730.	730.	730.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/04/81-09/04/81	1	93.	93.	93.	93.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/04/81-09/04/81	1	120.	120.	120.	120.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/04/81-09/04/81	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/04/81-09/04/81	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/04/81-09/04/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/04/81-09/04/81	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/04/81-09/04/81	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/04/81-09/04/81	1	600.	600.	600.	600.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/04/81-09/04/81	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/04/81-09/04/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/04/81-09/04/81	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/04/81-09/04/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/04/81-09/04/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/04/81-09/04/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/04/81-09/04/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/04/81-09/04/81	1	54.	54.	54.	54.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/04/81-09/04/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/04/81-09/04/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/04/81-09/04/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/04/81-09/04/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/04/81-09/04/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/04/81-09/04/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/04/81-09/04/81	1	13.	13.	13.	13.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0071

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	09/04/81-09/04/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	09/04/81-09/04/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			1.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/04/81-09/04/81	1	32.	32.	32.	32.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/04/81-09/04/81	1	1.505	1.505	1.505	1.505	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			32.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/04/81-09/04/81	1	1160.	1160.	1160.	1160.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/04/81-09/04/81	1	1050.	1050.	1050.	1050.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/04/81-09/04/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/04/81-09/04/81	1	1.58	1.58	1.58	1.58	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/04/81-09/04/81	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

EPA Water Quality Criteria Analysis for Station: GRCA0071

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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	1	1.00							1	1	1.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
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			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0072

NPS Station ID: GRCA0072 | LAT/LON: 36.086809/-112.161809 | Agency: 11NPSWRD | Date Created: 02/03/96
Location: SALT CREEK BELOW TONTO TRAIL | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): GRCA_SALL002
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE COLORADO RIVER | ECO Region:
RF1 Index: 15010002 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
SALT CREEK BELOW TONTO TRAIL. SITE IS LOCATED ON THE GRAND CANYON 7.5 MINUTE USGS QUADRANGLE. STATION IS THE RESPONSIBILITY JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/30/94-03/30/94	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/30/94-03/30/94	1	19.8	19.8	19.8	19.8	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/30/94-03/30/94	1	873.	873.	873.	873.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	03/30/94-03/30/94	1	7.65	7.65	7.65	7.65	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	03/30/94-03/30/94	1	7.65	7.65	7.65	7.65	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/30/94-03/30/94	1	0.022	0.022	0.022	0.022	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/30/94-03/30/94	1	218.	218.	218.	218.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/30/94-03/30/94	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/30/94-03/30/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/30/94-03/30/94	1	75.	75.	75.	75.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/30/94-03/30/94	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	03/30/94-03/30/94	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0072

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0073

NPS Station ID: GRCA0073
LAT/LON: 36.090253/-112.177392
Agency: 11NPSWRD
Date Created: 02/03/96
Location: CEDAR SPRING
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): GRCA_CEDR002
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
CEDAR SPRING. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0073

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061 FLOW, STREAM, INSTANTANEOUS CFS	03/31/94-03/31/94	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

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

Station Inventory for Station: GRCA0074

NPS Station ID: GRCA0074 | LAT/LON: 36.077615/-112.180004 | Agency: 11NPSWRD | Date Created: 02/03/96
Location: MONUMENT CREEK AT TONTO TRAIL | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): GRCA_MONU002
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE COLORADO RIVER | ECO Region:
RF1 Index: 15010002 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
MONUMENT CREEK AT TONTO TRAIL. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0074

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/31/94-03/31/94	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/31/94-03/31/94	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/31/94-03/31/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/31/94-03/31/94	1	1147.	1147.	1147.	1147.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/31/94-03/31/94	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	03/31/94-03/31/94	1	7.49	7.49	7.49	7.49	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	03/31/94-03/31/94	1	7.49	7.49	7.49	7.49	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/31/94-03/31/94	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/31/94-03/31/94	1	256.	256.	256.	256.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/31/94-03/31/94	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/31/94-03/31/94	1	0.13	0.13	0.13	0.13	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/31/94-03/31/94	1	75.	75.	75.	75.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/31/94-03/31/94	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	03/31/94-03/31/94	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: GRCA0074

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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						
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0075

NPS Station ID: GRCA0075
LAT/LON: 36.077781/-112.180004
Agency: 112WRD
Date Created: 12/19/81
Location: BA46 MONUMENT CRK AT TONTO TR
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360440112104810
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 15.00
On/Off RF1:
RF3 Index: 15010002002800.50
RF3 Mile Point: 4.84
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0075

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/81-09/04/81	1	23.5	23.5	23.5	23.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/81-09/04/81	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/04/81-09/04/81	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/04/81-09/04/81	1	1470.	1470.	1470.	1470.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/04/81-09/04/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/04/81-09/04/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/81-09/04/81	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/04/81-09/04/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/04/81-09/04/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/81-09/04/81	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/04/81-09/04/81	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/04/81-09/04/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/04/81-09/04/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/04/81-09/04/81	1	480.	480.	480.	480.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/04/81-09/04/81	1	86.	86.	86.	86.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/04/81-09/04/81	1	64.	64.	64.	64.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/04/81-09/04/81	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/04/81-09/04/81	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/04/81-09/04/81	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/04/81-09/04/81	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/04/81-09/04/81	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/04/81-09/04/81	1	210.	210.	210.	210.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/04/81-09/04/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/04/81-09/04/81	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/04/81-09/04/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/04/81-09/04/81	1	300.	300.	300.	300.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/04/81-09/04/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/04/81-09/04/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/04/81-09/04/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/04/81-09/04/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/04/81-09/04/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/04/81-09/04/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/04/81-09/04/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/04/81-09/04/81	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/04/81-09/04/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/04/81-09/04/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/04/81-09/04/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/04/81-09/04/81	1	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0075

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/04/81-09/04/81	1	66.	66.	66.	66.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/04/81-09/04/81	1	1.82	1.82	1.82	1.82	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			66.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/04/81-09/04/81	1	899.	899.	899.	899.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/04/81-09/04/81	1	857.	857.	857.	857.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/04/81-09/04/81	1	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/04/81-09/04/81	1	1.22	1.22	1.22	1.22	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/04/81-09/04/81	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

EPA Water Quality Criteria Analysis for Station: GRCA0075

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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			
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			
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			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	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: GRCA0076

NPS Station ID: GRCA0076
LAT/LON: 36.099226/-112.182003
Agency: 11NPSWRD
Date Created: 02/03/96
Location: MONUMENT CREEK AT COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): GRCA_MONU001
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
MONUMENT CREEK AT COLORADO RIVER - RM 93.5. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/92-10/18/95	7	24.	25.5	31.	19.5	19.25	4.387	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/14/92-10/18/95	7	27.5	29.286	41.	19.5	51.571	7.181	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/14/92-10/18/95	7	0.02	0.046	0.09	0.01	0.001	0.036	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/14/92-08/02/95	6	2035.	1871.833	2330.	672.	365948.967	604.937	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/14/92-10/18/95	7	7.9	7.643	8.6	5.7	0.863	0.929	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/14/92-10/18/95	7	103.	102.714	116.	84.	111.571	10.563	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/14/92-10/18/95	6	8.05	7.738	8.34	6.25	0.611	0.781	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/14/92-10/18/95	6	8.034	6.985	8.34	6.25	1.291	1.136	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/14/92-10/18/95	6	0.009	0.103	0.562	0.005	0.051	0.225	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/14/92-10/18/95	7	220.	269.429	500.	210.	11424.952	106.888	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/11/94-10/11/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/15/92-10/11/94	2 ##	0.043	0.043	0.07	0.015	0.002	0.039	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/11/94-10/11/94	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/11/94-10/11/94	1 ##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/15/92-07/01/93	2	0.045	0.045	0.07	0.02	0.001	0.035	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/11/94-10/11/94	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/15/92-10/15/92	1	654.	654.	654.	654.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/15/92-10/11/94	2	212.	212.	318.	106.	22472.	149.907	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/15/92-10/11/94	2	144.3	144.3	200.	88.6	6204.98	78.772	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/11/94-10/11/94	1	244.	244.	244.	244.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/11/94-10/11/94	1	22.6	22.6	22.6	22.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/15/92-10/11/94	2	536.	536.	582.	490.	4232.	65.054	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/15/92-10/11/94	3	75.	88.667	168.	23.	5396.333	73.46	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/11/94-10/11/94	1	0.27	0.27	0.27	0.27	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/15/92-10/15/92	1	10.1	10.1	10.1	10.1	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/11/94-10/11/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/11/94-10/11/94	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/11/94-10/11/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/11/94-10/11/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/11/94-10/11/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/11/94-10/11/94	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	10/11/94-10/11/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/11/94-10/11/94	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/11/94-10/11/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/11/94-10/11/94	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	10/11/94-10/11/94	1 ##	25.	25.	25.	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

Parameter Inventory for Station: GRCA0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01147	SELENIUM, TOTAL (UG/L AS SE)	10/11/94-10/11/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/14/92-10/18/95	7	9.	15.643	64.	0.5	473.726	21.765	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/14/92-10/18/95	7	0.954	0.871	1.806	-0.301	0.405	0.636	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			7.437								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/15/92-10/18/95	5	58.	199.2	700.	14.	83261.2	288.55	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/15/92-10/18/95	5	1.763	1.909	2.845	1.146	0.446	0.668	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			81.025								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/11/94-08/02/95	3	1367.	1399.667	1532.	1300.	14256.333	119.4	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/11/94-10/11/94	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/14/92-10/18/95	7	0.6	0.657	1.2	0.2	0.146	0.382	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0076

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	6	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	6	1	0.17	3	1	0.33	1	0	0.00	2	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	2	1.00	2	2	1.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	2	0	0.00				1	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	7	0	0.00	3	0	0.00	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: GRCA0077

NPS Station ID: GRCA0077
LAT/LON: 36.097781/-112.182504
Agency: 112WRD
Date Created: 07/30/76
Location: BA55 MONUMENT CRK AT MOUTH, RM93.3
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360552112105700
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 14.40
On/Off RF1:
RF3 Index: 15010004001602.15
RF3 Mile Point: 2.14
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0077

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/03/76-05/03/76	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/03/76-05/03/76	1	810.	810.	810.	810.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/03/76-05/03/76	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/03/76-05/03/76	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/03/76-05/03/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/03/76-05/03/76	1	590.	590.	590.	590.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/03/76-05/03/76	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/03/76-05/03/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/03/76-05/03/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/03/76-05/03/76	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/03/76-05/03/76	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/03/76-05/03/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/03/76-05/03/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/03/76-05/03/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/03/76-05/03/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/03/76-05/03/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/03/76-05/03/76	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/03/76-05/03/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/03/76-05/03/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01100	TIN, DISSOLVED (UG/L AS SN)	05/03/76-05/03/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/03/76-05/03/76	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/03/76-05/03/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/03/76-05/03/76	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/03/76-05/03/76	1	800.	800.	800.	800.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/03/76-05/03/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/03/76-05/03/76	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	05/03/76-05/03/76	1	7.	7.	7.	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: GRCA0077

			Total	Exceed	Prop.	----------10/01-3/14----------			----------3/15-6/19----------			----------6/20-9/30----------			--------------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						

& - 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: GRCA0077

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						
80020	URANIUM, DISS. BY EXTRACTION FLUOROMETRI	Drinking Water	20.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0078

NPS Station ID: GRCA0078
LAT/LON: 36.100753/-112.208698
Agency: 11NPSWRD
Date Created: 02/03/96
Location: HERMIT CREEK AT COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): GRCA_HERM001
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
HERMIT CREEK AT COLORADO RIVER. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/92-10/18/95	10	20.75	21.45	30.	6.	52.025	7.213	7.1	18.5	29.	29.9
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/14/92-10/18/95	10	25.5	26.5	40.	4.	108.056	10.395	5.8	22.	36.5	39.8
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/14/92-10/18/95	11	0.6	0.718	2.	0.2	0.236	0.485	0.22	0.4	0.8	1.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/14/92-08/02/95	10	875.5	773.7	965.	356.	44211.122	210.264	364.9	634.	900.75	960.9
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/14/92-10/18/95	11	8.	8.282	12.4	6.9	2.148	1.465	6.94	7.5	8.5	11.62
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/14/92-10/18/95	11	100.	101.727	120.	96.	42.218	6.498	96.2	98.	102.	116.8
00406	PH, FIELD, STANDARD UNITS SU	06/14/92-10/18/95	11	8.62	8.467	8.88	7.1	0.265	0.515	7.31	8.16	8.8	8.87
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/14/92-10/18/95	11	8.62	8.003	8.88	7.1	0.502	0.709	7.31	8.16	8.8	8.87
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/14/92-10/18/95	11	0.002	0.01	0.079	0.001	0.001	0.023	0.001	0.002	0.007	0.065
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/14/92-10/18/95	11	192.	192.727	252.	160.	644.218	25.381	162.	170.	206.	243.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/14/92-10/11/94	8 ##	5.	9.875	44.	5.	190.125	13.789	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/14/92-10/11/94	8 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/14/92-10/11/94	8 ##	0.1	0.125	0.3	0.1	0.005	0.071	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/14/92-10/11/94	8	0.225	0.231	0.38	0.03	0.013	0.113	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/14/92-10/11/94	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/14/92-10/11/94	8	39.55	40.7	51.7	34.4	33.671	5.803	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/14/92-10/11/94	8	33.75	33.675	37.2	30.9	4.722	2.173	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/14/92-10/11/94	8	75.85	65.275	115.	6.6	1515.151	38.925	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/14/92-10/11/94	8	7.3	6.675	11.4	2.3	9.619	3.101	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/14/92-10/11/94	8	130.	114.	200.	12.	4637.714	68.101	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/14/92-10/11/94	8	38.	38.25	65.	18.	231.357	15.21	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/14/92-10/11/94	8	0.17	0.17	0.2	0.13	0.001	0.026	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/15/92-05/07/94	5	9.2	9.74	12.	8.	2.258	1.503	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/14/92-10/11/94	8	15.5	12.	18.	2.5	44.214	6.649	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/14/92-10/11/94	8 ##	2.5	2.313	2.5	2.	0.067	0.259	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/14/92-10/11/94	8 ##	0.25	0.281	0.5	0.25	0.008	0.088	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/14/92-10/11/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/14/92-10/11/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/14/92-10/11/94	8 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/14/92-10/11/94	8 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/14/92-10/11/94	8 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/14/92-10/11/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/14/92-10/11/94	8 ##	10.	8.75	10.	5.	5.357	2.315	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/14/92-10/11/94	8 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/14/92-10/11/94	8 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01501	ALPHA, TOTAL	10/15/92-02/15/94	2 ##	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**

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

Parameter Inventory for Station: GRCA0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01502	ALPHA, TOTAL, COUNTING ERROR	02/15/94-02/15/94	1	2.	2.	2.	2.	0.	0.	**	**	**	**
03501	BETA, TOTAL	10/15/92-02/15/94	2	9.5	9.5	12.	7.	12.5	3.536	**	**	**	**
03502	BETA, TOTAL, COUNTING ERROR	10/15/92-02/15/94	2	3.	3.	4.	2.	2.	1.414	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/92-10/18/95	10	3.	14.6	100.	1.	940.711	30.671	1.	1.	11.5	92.2
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/92-10/18/95	10	0.477	0.62	2.	0.	0.423	0.651	0.	0.	1.013	1.934
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			4.168								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/15/92-10/18/95	10	89.5	175.8	880.	4.	67020.844	258.884	6.9	38.25	219.5	815.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/15/92-10/18/95	10	1.929	1.903	2.944	0.602	0.391	0.626	0.694	1.581	2.341	2.886
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			80.07								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/14/92-08/02/95	10	455.	449.1	605.	210.	18679.211	136.672	213.	367.5	581.5	603.1
71900	MERCURY, TOTAL (UG/L AS HG)	06/14/92-10/11/94	8 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/14/92-10/18/95	11	0.8	0.782	1.4	0.3	0.118	0.343	0.32	0.5	1.	1.36

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

EPA Water Quality Criteria Analysis for Station: GRCA0078

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	11	0	0.00	5	0	0.00	3	0	0.00	3	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	11	0	0.00	5	0	0.00	3	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	11	0	0.00	5	0	0.00	3	0	0.00	3	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	250.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	4.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	1300.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	15.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	100.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5000.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	10	0	0.00	5	0	0.00	2	0	0.00	3	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	11	0	0.00	5	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: GRCA0079

NPS Station ID: GRCA0079
LAT/LON: 36.099170/-112.208892
Agency: 112WRD
Date Created: 07/30/76
Location: BA74 HERMIT CRK AT MOUTH, RM94.8
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360557112123200
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 0.40
On/Off RF1:
RF3 Index: 15010002001354.70
RF3 Mile Point: 55.79
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0079

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/03/76-05/03/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/03/76-05/03/76	1	800.	800.	800.	800.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/03/76-05/03/76	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/03/76-05/03/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/03/76-05/03/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/03/76-05/03/76	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/03/76-05/03/76	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/03/76-05/03/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/03/76-05/03/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/03/76-05/03/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/03/76-05/03/76	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/03/76-05/03/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/03/76-05/03/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/03/76-05/03/76	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/03/76-05/03/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/03/76-05/03/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/03/76-05/03/76	1	260.	260.	260.	260.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/03/76-05/03/76	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/03/76-05/03/76	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01100	TIN, DISSOLVED (UG/L AS SN)	05/03/76-05/03/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/03/76-05/03/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/03/76-05/03/76	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/03/76-05/03/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/03/76-05/03/76	1	250.	250.	250.	250.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/03/76-05/03/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/03/76-05/03/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/03/76-05/03/76	1	1.9	1.9	1.9	1.9	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: GRCA0079

			Total	Exceed	Prop.	----------10/01-3/14----------			----------3/15-6/19----------			----------6/20-9/30----------			--------------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						

& - 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: GRCA0079

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0080

NPS Station ID: GRCA0080 | LAT/LON: 36.080892/-112.213392 | Agency: 11NPSWRD | Date Created: 02/03/96
Location: HERMIT CREEK AT TONTO TRAIL | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): GRCA_HERM003
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE COLORADO RIVER | ECO Region:
RF1 Index: 15010002 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
HERMIT CREEK AT TONTO TRAIL. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/31/94-06/09/94	2	20.5	20.5	26.	15.	60.5	7.778	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/31/94-06/09/94	2	26.	26.	32.	20.	72.	8.485	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/31/94-06/09/94	2	0.85	0.85	1.	0.7	0.045	0.212	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/31/94-06/09/94	2	395.	395.	400.	390.	50.	7.071	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/31/94-06/09/94	2	8.85	8.85	11.	6.7	9.245	3.041	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	03/31/94-06/09/94	2	106.5	106.5	120.	93.	364.5	19.092	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	03/31/94-06/09/94	2	8.345	8.345	8.72	7.97	0.281	0.53	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	03/31/94-06/09/94	2	8.2	8.2	8.72	7.97	0.323	0.569	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/31/94-06/09/94	2	0.006	0.006	0.011	0.002	0.	0.006	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/31/94-06/09/94	2	270.	270.	366.	174.	18432.	135.765	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/14/92-06/14/92	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/14/92-06/09/94	3	0.05	0.255	0.7	0.015	0.149	0.386	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/14/92-06/14/92	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/14/92-06/14/92	1	0.26	0.26	0.26	0.26	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/31/94-06/09/94	2	0.02	0.02	0.03	0.01	0.	0.014	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/14/92-06/14/92	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/14/92-06/14/92	1	35.5	35.5	35.5	35.5	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/14/92-06/14/92	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/14/92-06/14/92	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/14/92-06/14/92	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/14/92-06/14/92	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/14/92-06/09/94	3	23.	23.333	29.	18.	30.333	5.508	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/14/92-06/14/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01501	ALPHA, TOTAL	06/14/92-06/14/92	1	41.	41.	41.	41.	0.	0.	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	06/14/92-06/14/92	1	4.	4.	4.	4.	0.	0.	**	**	**	**
03501	BETA, TOTAL	06/14/92-06/14/92	1	164.	164.	164.	164.	0.	0.	**	**	**	**
03502	BETA, TOTAL, COUNTING ERROR	06/14/92-06/14/92	1	8.	8.	8.	8.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/14/92-06/14/92	1	13.	13.	13.	13.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/14/92-06/14/92	1	1.114	1.114	1.114	1.114	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			13.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/14/92-06/14/92	1	88.	88.	88.	88.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/14/92-06/14/92	1	1.944	1.944	1.944	1.944	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			88.								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/14/92-06/09/94	2	241.5	241.5	273.	210.	1984.5	44.548	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/31/94-06/09/94	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	03/31/94-06/09/94	2	0.65	0.65	0.9	0.4	0.125	0.354	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0080

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00				2	0	0.00						
00406	PH, FIELD	Other-Hi Lim.	9.	2	0	0.00				2	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00				2	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	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.	3	0	0.00				3	0	0.00						
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	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						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	2	0	0.00				2	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	2	0	0.00				2	0	0.00						

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

Station Inventory for Station: GRCA0081

NPS Station ID: GRCA0081
LAT/LON: 36.081116/-112.213338
Agency: 112WRD
Date Created: 01/23/82
Location: BAGS2 HERMIT CRK AT HERMIT CAMP
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360452112124810
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 17.50
On/Off RF1:
RF3 Index: 15010001049300.00
RF3 Mile Point: 0.00
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/81-09/04/81	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/04/81-09/04/81	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/04/81-09/04/81	1	450.	450.	450.	450.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/04/81-09/04/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/04/81-09/04/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/81-09/04/81	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/04/81-09/04/81	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/04/81-09/04/81	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/81-09/04/81	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/04/81-09/04/81	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/04/81-09/04/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/04/81-09/04/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/04/81-09/04/81	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/04/81-09/04/81	1	39.	39.	39.	39.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/04/81-09/04/81	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/04/81-09/04/81	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/04/81-09/04/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/04/81-09/04/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/04/81-09/04/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/04/81-09/04/81	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/04/81-09/04/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/04/81-09/04/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/04/81-09/04/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/04/81-09/04/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/04/81-09/04/81	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/04/81-09/04/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/04/81-09/04/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/04/81-09/04/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/04/81-09/04/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/04/81-09/04/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/04/81-09/04/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/04/81-09/04/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/04/81-09/04/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/04/81-09/04/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/04/81-09/04/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/04/81-09/04/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/04/81-09/04/81	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/04/81-09/04/81	1	139.	139.	139.	139.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: GRCA0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/04/81-09/04/81	1	2.143	2.143	2.143	2.143	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			139.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/04/81-09/04/81	1	221.	221.	221.	221.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/04/81-09/04/81	1	236.	236.	236.	236.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/04/81-09/04/81	1	0.36	0.36	0.36	0.36	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/04/81-09/04/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/04/81-09/04/81	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

EPA Water Quality Criteria Analysis for Station: GRCA0081

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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			
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			
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			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	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: GRCA0082

NPS Station ID: GRCA0082
LAT/LON: 36.080559/-112.219449
Agency: 21AZRWTR
Date Created: 08/27/94
Location: HERMIT CR. AZ/NM PLATEAU
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): HER1-00RF
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 2920
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0082

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: GRCA0083

NPS Station ID: GRCA0083
LAT/LON: 36.106670/-112.239170
Agency: 112WRD
Date Created: 12/19/81
Location: BA3F BOUCHER CRK AT BOUCHER CABIN
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360624112142110
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 11.80
On/Off RF1:
RF3 Index: 15010002084101.35
RF3 Mile Point: 1.46
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/81-09/04/81	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/04/81-09/04/81	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/04/81-09/04/81	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/04/81-09/04/81	1	760.	760.	760.	760.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/04/81-09/04/81	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/04/81-09/04/81	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/81-09/04/81	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/04/81-09/04/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/04/81-09/04/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/04/81-09/04/81	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/04/81-09/04/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	09/04/81-09/04/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/04/81-09/04/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/04/81-09/04/81	1	310.	310.	310.	310.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/04/81-09/04/81	1	57.	57.	57.	57.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/04/81-09/04/81	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/04/81-09/04/81	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/04/81-09/04/81	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	09/04/81-09/04/81	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/04/81-09/04/81	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/04/81-09/04/81	1	64.	64.	64.	64.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/04/81-09/04/81	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/04/81-09/04/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/04/81-09/04/81	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	09/04/81-09/04/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/04/81-09/04/81	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/04/81-09/04/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	09/04/81-09/04/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	09/04/81-09/04/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	09/04/81-09/04/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	09/04/81-09/04/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	09/04/81-09/04/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	09/04/81-09/04/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	09/04/81-09/04/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	09/04/81-09/04/81	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	09/04/81-09/04/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	09/04/81-09/04/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	09/04/81-09/04/81	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

Parameter Inventory for Station: GRCA0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/04/81-09/04/81	1	36.	36.	36.	36.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/04/81-09/04/81	1	1.556	1.556	1.556	1.556	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			36.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/04/81-09/04/81	1	420.	420.	420.	420.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/04/81-09/04/81	1	417.	417.	417.	417.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	09/04/81-09/04/81	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/04/81-09/04/81	1	0.57	0.57	0.57	0.57	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	09/04/81-09/04/81	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

EPA Water Quality Criteria Analysis for Station: GRCA0083

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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			
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			
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			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	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: GRCA0084

NPS Station ID: GRCA0084 | LAT/LON: 36.107642/-112.239892 | Agency: 11NPSWRD | Date Created: 02/03/96
Location: BOUCHER CREEK DOWNSTREAM FROM CAMP | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): GRCA_BOUC004
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE COLORADO RIVER | ECO Region:
RF1 Index: 15010002 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
BOUCHER CREEK DOWNSTREAM FROM CAMP AND TRAIL CROSSING. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/94-06/09/94	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/09/94-06/09/94	1	19.5	19.5	19.5	19.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/09/94-06/09/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/09/94-06/09/94	1	720.	720.	720.	720.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/09/94-06/09/94	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/09/94-06/09/94	1	96.	96.	96.	96.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/09/94-06/09/94	1	7.69	7.69	7.69	7.69	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/09/94-06/09/94	1	7.69	7.69	7.69	7.69	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/09/94-06/09/94	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/09/94-06/09/94	1	256.	256.	256.	256.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/09/94-06/09/94	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/09/94-06/09/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/09/94-06/09/94	1	1.	1.	1.	1.	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/09/94-06/09/94	1	489.	489.	489.	489.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/09/94-06/09/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/09/94-06/09/94	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0084

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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						
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0085

NPS Station ID: GRCA0085
LAT/LON: 36.063476/-112.241392
Agency: 11NPSWRD
Date Created: 02/03/96
Location: DRIPPING SPRING
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): GRCA_EREM002
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010004
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010004
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
DRIPPING SPRING. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0085

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/13/94-03/13/94	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/13/94-03/13/94	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	03/13/94-03/13/94	1	342.	342.	342.	342.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	03/13/94-03/13/94	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	03/13/94-03/13/94	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	03/13/94-03/13/94	1	7.56	7.56	7.56	7.56	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	03/13/94-03/13/94	1	7.56	7.56	7.56	7.56	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/13/94-03/13/94	1	0.028	0.028	0.028	0.028	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/13/94-03/13/94	1	134.	134.	134.	134.	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/13/94-03/13/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/13/94-03/13/94	1	8.	8.	8.	8.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/13/94-03/13/94	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	03/13/94-03/13/94	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: GRCA0085

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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									
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRCA0086

NPS Station ID: GRCA0086
LAT/LON: 36.135559/-112.242781
Agency: 112WRD
Date Created: 07/30/76
Location: BA76 CRYSTAL CRK AT MOUTH, RM98
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360808112143400
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 0.90
On/Off RF1:
RF3 Index: 15010002002000.00
RF3 Mile Point: 0.01
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0086

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/76-11/19/81	2	13.	13.	15.	11.	8.	2.828	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/19/81-11/19/81	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/19/81-11/19/81	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/76-11/19/81	2	995.	995.	1490.	500.	490050.	700.036	**	**	**	**
00400	PH (STANDARD UNITS)	11/19/81-11/19/81	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/19/81-11/19/81	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/19/81-11/19/81	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/19/81-11/19/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/19/81-11/19/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/19/81-11/19/81	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/19/81-11/19/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/19/81-11/19/81	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/19/81-11/19/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/19/81-11/19/81	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/19/81-11/19/81	1	47.	47.	47.	47.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/19/81-11/19/81	1	45.	45.	45.	45.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/19/81-11/19/81	1	180.	180.	180.	180.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/19/81-11/19/81	1	5.2	5.2	5.2	5.2	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/19/81-11/19/81	1	55.	55.	55.	55.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/19/81-11/19/81	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/19/81-11/19/81	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/19/81-11/19/81	1	160.	160.	160.	160.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/19/81-11/19/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/19/81-11/19/81	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/19/81-11/19/81	1	58.	58.	58.	58.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/04/76-05/04/76	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/04/76-05/04/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/04/76-05/04/76	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/04/76-11/19/81	2	465.	465.	790.	140.	211250.	459.619	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/04/76-11/19/81	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/04/76-05/04/76	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/04/76-05/04/76	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/04/76-11/19/81	2 ##	2.	2.	3.	1.	2.	1.414	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/76-11/19/81	2 ##	32.5	32.5	60.	5.	1512.5	38.891	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/04/76-11/19/81	2 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/76-11/19/81	2 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/04/76-11/19/81	2 ##	3.25	3.25	5.	1.5	6.125	2.475	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/04/76-11/19/81	2 ##	1.75	1.75	3.	0.5	3.125	1.768	**	**	**	**

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

Parameter Inventory for Station: GRCA0086

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	05/04/76-05/04/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/04/76-05/04/76	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/04/76-11/19/81	2 ##	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/04/76-11/19/81	2	24.5	24.5	30.	19.	60.5	7.778	**	**	**	**
01100	TIN, DISSOLVED (UG/L AS SN)	05/04/76-05/04/76	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/04/76-11/19/81	2 ##	30.	30.	50.	10.	800.	28.284	**	**	**	**
01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/04/76-05/04/76	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/04/76-05/04/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/04/76-05/04/76	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/19/81-11/19/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/04/76-05/04/76	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/04/76-05/04/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/19/81-11/19/81	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/19/81-11/19/81	1	80.	80.	80.	80.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/19/81-11/19/81	1	1.903	1.903	1.903	1.903	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			80.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/19/81-11/19/81	1	19.	19.	19.	19.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/19/81-11/19/81	1	1.279	1.279	1.279	1.279	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			19.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/19/81-11/19/81	1	798.	798.	798.	798.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/19/81-11/19/81	1	829.	829.	829.	829.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/19/81-11/19/81	1	1.75	1.75	1.75	1.75	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/19/81-11/19/81	1	1.09	1.09	1.09	1.09	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	11/19/81-11/19/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/04/76-05/04/76	1	1.2	1.2	1.2	1.2	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: GRCA0086

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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									
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									
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	1	1.00	1	1	1.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	5.	2	0	0.00	1	0	0.00	1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	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						
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						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	5000.	2	0	0.00	1	0	0.00	1	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRCA0086

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0087

NPS Station ID: GRCA0087
LAT/LON: 36.135559/-112.243615
Agency: 11NPSWRD
Date Created: 02/03/96
Location: CRYSTAL CREEK AT COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): GRCA_CRYS001
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
CRYSTAL CREEK AT COLORADO RIVER. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0087

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/14/92-10/19/95	11	20.5	19.6	31.	8.	35.222	5.935	9.36	15.	23.	29.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/14/92-10/19/95	10	26.2	24.39	34.	12.	60.492	7.778	12.2	16.625	31.5	33.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/14/92-10/19/95	11	1.	2.755	11.	0.8	10.227	3.198	0.8	0.8	5.	9.8
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/14/92-08/03/95	10	872.5	1039.9	2080.	275.	355745.656	596.444	287.5	561.25	1645.5	2040.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/14/92-10/19/95	11	8.2	8.645	13.4	7.1	3.123	1.767	7.12	7.5	9.3	12.6
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/14/92-10/19/95	11	102.	102.545	123.	88.	103.273	10.162	88.8	95.	104.	121.8
00406	PH, FIELD, STANDARD UNITS SU	06/14/92-10/19/95	11	8.61	8.495	8.98	7.32	0.197	0.443	7.48	8.49	8.72	8.934
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/14/92-10/19/95	11	8.61	8.162	8.98	7.32	0.319	0.565	7.48	8.49	8.72	8.934
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/14/92-10/19/95	11	0.002	0.007	0.048	0.001	0.	0.014	0.001	0.002	0.003	0.04
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/14/92-10/19/95	11	230.	233.818	324.	96.	4621.164	67.979	113.6	192.	300.	324.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/14/92-10/12/94	8 ##	5.	6.25	10.	5.	5.357	2.315	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/14/92-10/12/94	8 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/14/92-10/12/94	8 ##	0.1	0.175	0.4	0.1	0.014	0.116	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/14/92-10/12/94	8 ##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/14/92-10/12/94	8 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/14/92-10/12/94	8	38.45	36.613	55.1	25.5	105.281	10.261	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/14/92-10/12/94	8	38.9	37.438	46.5	12.8	122.126	11.051	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/14/92-10/12/94	8	176.5	163.9	278.	37.6	7001.634	83.676	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/14/92-10/12/94	8	18.55	17.25	27.3	5.3	55.129	7.425	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/14/92-10/12/94	8	235.	218.875	360.	47.	13116.411	114.527	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/14/92-10/12/94	8	80.5	93.125	170.	18.	4246.125	65.162	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/14/92-10/12/94	8	0.17	0.165	0.2	0.08	0.001	0.038	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/16/92-05/07/94	5	8.8	8.68	10.5	7.	2.097	1.448	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/14/92-10/12/94	8	47.	45.25	66.	21.	246.786	15.709	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/14/92-10/12/94	8 ##	2.5	2.313	2.5	2.	0.067	0.259	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/14/92-10/12/94	8 ##	0.25	0.281	0.5	0.25	0.008	0.088	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/14/92-10/12/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/14/92-10/12/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/14/92-10/12/94	8 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/14/92-10/12/94	8 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/14/92-10/12/94	8 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/14/92-10/12/94	8 ##	5.	5.625	10.	5.	3.125	1.768	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/14/92-10/12/94	8 ##	10.	8.75	10.	5.	5.357	2.315	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/14/92-10/12/94	8 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/14/92-10/12/94	8 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01501	ALPHA, TOTAL	06/14/92-10/16/92	2 ##	2.	2.	3.	1.	2.	1.414	**	**	**	**

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

Parameter Inventory for Station: GRCA0087

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01502	ALPHA, TOTAL, COUNTING ERROR	10/16/92-10/16/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
03501	BETA, TOTAL	06/14/92-10/16/92	2	11.5	11.5	18.	5.	84.5	9.192	**	**	**	**
03502	BETA, TOTAL, COUNTING ERROR	06/14/92-10/16/92	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/08/93-10/19/95	8	5.5	6.688	15.	0.5	18.21	4.267	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/08/93-10/19/95	8	0.739	0.699	1.176	-0.301	0.192	0.438	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.005								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/08/93-10/19/95	7	98.	224.	999.	6.	120977.667	347.818	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/08/93-10/19/95	7	1.991	1.967	3.	0.778	0.453	0.673	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			92.671								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/14/92-08/03/95	10	551.5	650.2	1100.	220.	85192.178	291.877	238.	422.5	937.5	1089.
71900	MERCURY, TOTAL (UG/L AS HG)	06/14/92-10/12/94	8 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/14/92-10/19/95	11	1.	3.264	19.2	0.6	31.327	5.597	0.62	0.8	2.4	16.76

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

EPA Water Quality Criteria Analysis for Station: GRCA0087

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	11	0	0.00	5	0	0.00	3	0	0.00	3	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	11	0	0.00	5	0	0.00	3	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	11	0	0.00	5	0	0.00	3	0	0.00	3	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	250.	8	4	0.50	4	4	1.00	2	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	8	3	0.38	4	1	0.25	2	1	0.50	2	1	0.50			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	4.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	1300.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	15.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	100.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1 &	1	1.00							1	1	1.00			
		Drinking Water	100.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5000.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	11	0	0.00	5	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: GRCA0088

NPS Station ID: GRCA0088
LAT/LON: 36.236309/-112.348698
Agency: 11NPSWRD
Date Created: 02/03/96
Location: SHINUMO CREEK AT COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): GRCA_SHIC001
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
SHINUMO CREEK AT COLORADO RIVER. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0088

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/15/92-08/03/95	9	16.	15.911	23.	7.6	20.274	4.503	7.6	13.1	19.25	23.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/15/92-08/03/95	9	23.	24.056	35.	14.	45.278	6.729	14.	19.	30.25	35.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/15/92-08/03/95	9	9.	25.889	155.	7.	2349.111	48.468	7.	8.	13.	155.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/15/92-08/03/95	9	329.	321.111	395.	176.	3875.361	62.252	176.	301.	360.	395.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/15/92-08/03/95	9	9.1	9.389	12.9	7.6	2.106	1.451	7.6	8.7	9.55	12.9
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/15/92-08/03/95	9	101.	102.889	115.	96.	35.361	5.947	96.	99.	107.5	115.
00406	PH, FIELD, STANDARD UNITS SU	06/15/92-08/03/95	9	8.65	8.58	9.01	8.1	0.091	0.302	8.1	8.315	8.825	9.01
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/15/92-08/03/95	9	8.65	8.488	9.01	8.1	0.101	0.317	8.1	8.315	8.825	9.01
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/15/92-08/03/95	9	0.002	0.003	0.008	0.001	0.	0.002	0.001	0.002	0.005	0.008
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/15/92-08/03/95	9	178.	171.556	194.	126.	382.778	19.565	126.	165.	183.	194.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/15/92-10/13/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/15/92-10/13/94	8 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/15/92-10/13/94	8 ##	0.1	0.2	0.7	0.1	0.043	0.207	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/15/92-10/13/94	8 ##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/15/92-10/13/94	8 ##	0.025	0.032	0.08	0.025	0.	0.019	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/15/92-10/13/94	8	42.6	40.863	47.9	25.1	47.56	6.896	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/15/92-10/13/94	8	20.3	18.95	24.2	7.9	24.129	4.912	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/15/92-10/13/94	8	3.3	3.4	4.6	1.1	1.217	1.103	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/15/92-10/13/94	8	1.05	0.888	1.2	0.5	0.107	0.327	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/15/92-10/13/94	8	3.	2.906	5.	0.25	2.499	1.581	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/15/92-10/13/94	8	7.5	8.813	15.	2.5	24.996	5.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/15/92-10/13/94	8	0.07	0.072	0.12	0.025	0.001	0.027	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/92-05/08/94	5	7.1	7.46	10.1	6.	2.493	1.579	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/15/92-10/13/94	8 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/15/92-10/13/94	8 ##	2.5	2.313	2.5	2.	0.067	0.259	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/15/92-10/13/94	8 ##	0.25	0.281	0.5	0.25	0.008	0.088	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/15/92-10/13/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/15/92-10/13/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/15/92-10/13/94	8 ##	1.	1.125	2.	1.	0.125	0.354	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/15/92-10/13/94	8 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/15/92-10/13/94	8 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/15/92-10/13/94	8 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/15/92-10/13/94	8 ##	10.	10.75	26.	5.	43.071	6.563	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/15/92-10/13/94	8 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/15/92-10/13/94	8 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01501	ALPHA, TOTAL	02/16/94-02/16/94	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0088

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
03501	BETA, TOTAL	02/16/94-02/16/94	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/15/92-08/03/95	9	1.	27.111	230.	0.5	5791.549	76.102	0.5	0.75	4.	230.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/15/92-08/03/95	9	0.	0.349	2.362	-0.301	0.681	0.825	-0.301	-0.151	0.54	2.362
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			2.233								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/15/92-08/03/95	9	130.	142.222	510.	1.	25273.444	158.976	1.	27.5	199.	510.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/15/92-08/03/95	9	2.114	1.781	2.708	0.	0.638	0.799	0.	1.436	2.289	2.708
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			60.416								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/15/92-08/03/95	9	180.	178.111	233.	100.	1259.611	35.491	100.	170.	195.	233.
71900	MERCURY, TOTAL (UG/L AS HG)	06/15/92-10/13/94	8 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/15/92-08/03/95	9	0.6	2.433	14.7	0.2	21.578	4.645	0.2	0.35	1.8	14.7

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EPA Water Quality Criteria Analysis for Station: GRCA0088

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	9	0	0.00	4	0	0.00	2	0	0.00	3	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	9	1	0.11	4	0	0.00	2	1	0.50	3	0	0.00			
		Other-Lo Lim.	6.5	9	0	0.00	4	0	0.00	2	0	0.00	3	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	250.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	4.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	1300.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	15.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	100.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5000.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	1	0.11	4	0	0.00	2	0	0.00	3	1	0.33			
71900	MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	9	0	0.00	4	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: GRCA0089

NPS Station ID: GRCA0089
LAT/LON: 36.240837/-112.349170
Agency: 112WRD
Date Created: 07/30/76
Location: HP67 SHINUMO CRK AT MOUTH, RM108.5
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 361427112205700
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 0.60
On/Off RF1:
RF3 Index: 15010002087100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0089

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/76-11/19/81	2	12.	12.	15.	9.	18.	4.243	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/19/81-11/19/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/19/81-11/19/81	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/76-11/19/81	2	285.	285.	390.	180.	22050.	148.492	**	**	**	**
00400	PH (STANDARD UNITS)	11/19/81-11/19/81	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/19/81-11/19/81	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/19/81-11/19/81	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/19/81-11/19/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/19/81-11/19/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/19/81-11/19/81	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/19/81-11/19/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/19/81-11/19/81	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/19/81-11/19/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/19/81-11/19/81	1	210.	210.	210.	210.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/19/81-11/19/81	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/19/81-11/19/81	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/19/81-11/19/81	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/19/81-11/19/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/19/81-11/19/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/19/81-11/19/81	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/19/81-11/19/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/19/81-11/19/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/19/81-11/19/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/19/81-11/19/81	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/19/81-11/19/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/04/76-05/04/76	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/04/76-05/04/76	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/04/76-05/04/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/04/76-11/19/81	2 ##	15.	15.	20.	10.	50.	7.071	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/04/76-11/19/81	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/04/76-05/04/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/04/76-05/04/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/04/76-11/19/81	2 ##	2.	2.	3.	1.	2.	1.414	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/04/76-11/19/81	2	109.5	109.5	200.	19.	16380.5	127.986	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/04/76-11/19/81	2 ##	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/76-11/19/81	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/04/76-11/19/81	2 ##	2.75	2.75	5.	0.5	10.125	3.182	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/04/76-11/19/81	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**

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Parameter Inventory for Station: GRCA0089

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	05/04/76-05/04/76	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/04/76-05/04/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/04/76-11/19/81	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/04/76-11/19/81	2 ##	0.75	0.75	1.5	0.	1.125	1.061	**	**	**	**
01100	TIN, DISSOLVED (UG/L AS SN)	05/04/76-05/04/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/04/76-11/19/81	2	160.	160.	310.	10.	45000.	212.132	**	**	**	**
01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/04/76-05/04/76	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/04/76-05/04/76	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/04/76-05/04/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/19/81-11/19/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/04/76-05/04/76	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/04/76-05/04/76	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/19/81-11/19/81	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/19/81-11/19/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/19/81-11/19/81	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			2.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/19/81-11/19/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/19/81-11/19/81	1	0.477	0.477	0.477	0.477	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			3.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/19/81-11/19/81	1	193.	193.	193.	193.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/19/81-11/19/81	1	223.	223.	223.	223.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/19/81-11/19/81	1	5.21	5.21	5.21	5.21	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/19/81-11/19/81	1	0.26	0.26	0.26	0.26	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	11/19/81-11/19/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	05/04/76-05/04/76	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRCA0089

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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									
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									
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	5.	2	0	0.00	1	0	0.00	1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	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						
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						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	5000.	2	0	0.00	1	0	0.00	1	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRCA0089

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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									
80020	URANIUM, DISS. BY EXTRACTION FLUOROMETRI	Drinking Water	20.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0090

NPS Station ID: GRCA0090 | LAT/LON: 36.408477/-112.426393 | Agency: 11NPSWRD | Date Created: 02/03/96
Location: TAPEATS SPRING | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): GRCA_TAPS002
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE COLORADO RIVER | ECO Region:
RF1 Index: 15010002 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
TAPEATS SPRING. SITE IS LOCATED ON THE TAPEATS AMPHITHEATER 7.5 MINUTE USGS QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0090

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/19/92-10/19/92	1	375.	375.	375.	375.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	10/19/92-10/19/92	1	7.95	7.95	7.95	7.95	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/19/92-10/19/92	1	7.95	7.95	7.95	7.95	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/92-10/19/92	1	0.011	0.011	0.011	0.011	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/19/92-10/19/92	1	162.	162.	162.	162.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/92-10/19/92	1	166.	166.	166.	166.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/19/92-10/19/92	1	96.	96.	96.	96.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/19/92-10/19/92	1	70.	70.	70.	70.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/92-10/19/92	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/92-10/19/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/19/92-10/19/92	1	1.2	1.2	1.2	1.2	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: GRCA0090

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
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									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRCA0091

NPS Station ID: GRCA0091
LAT/LON: 36.406948/-112.429448
Agency: 112WRD
Date Created: 02/28/78
Location: B-35-01 29B UNSURV
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 362425112254601
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 18.90
On/Off RF1:
RF3 Index: 15010002073200.00
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0091

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/27/51-06/27/51	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/27/51-06/27/51	1	318.	318.	318.	318.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/27/51-06/27/51	1	169.	169.	169.	169.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	06/27/51-06/27/51	1	206.	206.	206.	206.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/27/51-06/27/51	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/27/51-06/27/51	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/27/51-06/27/51	1	188.	188.	188.	188.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/27/51-06/27/51	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/27/51-06/27/51	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/27/51-06/27/51	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	06/27/51-06/27/51	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/27/51-06/27/51	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/27/51-06/27/51	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/27/51-06/27/51	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	06/27/51-06/27/51	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0091

				Total	Exceed	Prop.	10/01-3/14			3/15-6/19			6/20-9/30			n/a		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00							1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: GRCA0092

NPS Station ID: GRCA0092
LAT/LON: 36.197226/-112.450005
Agency: 21AZRWTR
Date Created: 08/27/94
Location: ROYAL ARCH CR. AZ/NM PLATEAU
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): ROY1-00RF
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 2160
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0092

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: GRCA0093

NPS Station ID: GRCA0093 LAT/LON: 36.347615/-112.450699 Agency: 11NPSWRD Date Created: 02/03/96
Location: COLORADO RIVER CONFLUENCE WITH STONE CREEK FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): GRCA_STON003
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
COLORADO RIVER CONFLUENCE WITH STONE CREEK. SITE IS LOCATED ON THE POWELL PLATEAU USGS 7.5 QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/92-08/04/95	9	19.5	19.522	22.2	15.	4.879	2.209	15.	18.5	21.5	22.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/16/92-08/04/95	9	23.5	23.467	32.	14.5	31.86	5.644	14.5	19.75	29.	32.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/16/92-08/04/95	9	0.9	0.978	2.	0.6	0.167	0.409	0.6	0.75	1.	2.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/16/92-08/04/95	9	458.	453.	492.	406.	866.	29.428	406.	424.	477.5	492.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/16/92-08/04/95	9	8.4	8.344	9.8	7.5	0.418	0.646	7.5	7.9	8.45	9.8
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/16/92-08/04/95	9	99.	98.778	105.	93.	13.194	3.632	93.	96.	101.5	105.
00406	PH, FIELD, STANDARD UNITS SU	06/16/92-08/04/95	9	8.56	8.528	8.79	8.26	0.036	0.191	8.26	8.32	8.68	8.79
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/16/92-08/04/95	9	8.56	8.49	8.79	8.26	0.038	0.195	8.26	8.32	8.68	8.79
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/16/92-08/04/95	9	0.003	0.003	0.005	0.002	0.	0.001	0.002	0.002	0.005	0.005
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/16/92-08/04/95	9	236.	272.667	402.	210.	5307.	72.849	210.	216.	340.	402.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/09/94-10/14/94	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/18/92-10/14/94	4 ##	0.015	0.016	0.02	0.015	0.	0.003	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/09/94-10/14/94	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/09/94-10/14/94	3 ##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/18/92-07/03/93	2	0.025	0.025	0.04	0.01	0.	0.021	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/09/94-10/14/94	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/92-10/18/92	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/18/92-10/14/94	4	40.	52.625	94.	36.5	768.789	27.727	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/18/92-10/14/94	4	37.6	62.1	136.	37.2	2427.24	49.267	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	05/09/94-10/14/94	3	8.1	8.1	8.2	8.	0.01	0.1	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	05/09/94-10/14/94	3	1.7	1.9	2.3	1.7	0.12	0.346	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/18/92-10/14/94	4	10.	9.75	10.	9.	0.25	0.5	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/18/92-10/14/94	5	17.	17.8	25.	13.	19.7	4.438	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	05/09/94-10/14/94	3	0.14	0.17	0.26	0.11	0.006	0.079	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/09/94-05/09/94	1	11.3	11.3	11.3	11.3	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/09/94-10/14/94	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/09/94-10/14/94	3 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/09/94-10/14/94	3 ##	0.25	0.333	0.5	0.25	0.021	0.144	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/09/94-10/14/94	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/09/94-10/14/94	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/09/94-10/14/94	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	05/09/94-10/14/94	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	05/09/94-10/14/94	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01077	SILVER, TOTAL (UG/L AS AG)	05/09/94-10/14/94	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/09/94-10/14/94	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/09/94-10/14/94	3 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/09/94-10/14/94	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/16/92-08/04/95	9	6.	9.389	41.	0.5	157.361	12.544	0.5	2.	11.5	41.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/16/92-08/04/95	9	0.778	0.681	1.613	-0.301	0.311	0.558	-0.301	0.301	1.057	1.613
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			4.796								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/16/92-08/04/95	8	104.5	141.75	340.	24.	12551.071	112.032	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/16/92-08/04/95	8	2.019	2.018	2.531	1.38	0.148	0.384	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			104.121								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/09/94-08/04/95	5	250.	265.8	310.	220.	1413.2	37.593	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/09/94-10/14/94	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/16/92-08/04/95	9	0.5	0.744	2.2	0.2	0.36	0.6	0.2	0.4	0.95	2.2

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

EPA Water Quality Criteria Analysis for Station: GRCA0093

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	9	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	9	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	9	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	250.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	4.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	1300.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	2.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	9	0	0.00	3	0	0.00	2	0	0.00	4	0	0.00			

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

Station Inventory for Station: GRCA0094

NPS Station ID: GRCA0094 LAT/LON: 36.195281/-112.451392 Agency: 112WRD Date Created: 07/30/76
Location: HP68 ROYAL ARCH CRK AT MOUTH AT ELVES CHASM FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 361143112270500
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 0.30 On/Off RF1:
RF3 Index: 15020016000100.00 RF3 Mile Point: 0.03 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0094

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/76-11/19/81	2	13.25	13.25	16.	10.5	15.125	3.889	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/19/81-11/19/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/19/81-11/19/81	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/05/76-11/19/81	2	727.5	727.5	805.	650.	12012.5	109.602	**	**	**	**
00400	PH (STANDARD UNITS)	11/19/81-11/19/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/19/81-11/19/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/19/81-11/19/81	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/19/81-11/19/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/19/81-11/19/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/19/81-11/19/81	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/19/81-11/19/81	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/19/81-11/19/81	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/19/81-11/19/81	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/19/81-11/19/81	1	390.	390.	390.	390.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/19/81-11/19/81	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/19/81-11/19/81	1	47.	47.	47.	47.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/19/81-11/19/81	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/19/81-11/19/81	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/19/81-11/19/81	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/19/81-11/19/81	1	3.8	3.8	3.8	3.8	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/19/81-11/19/81	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/19/81-11/19/81	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/19/81-11/19/81	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/19/81-11/19/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/19/81-11/19/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/05/76-05/05/76	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/05/76-05/05/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/05/76-05/05/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/05/76-11/19/81	2	90.	90.	100.	80.	200.	14.142	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/05/76-11/19/81	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/05/76-05/05/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/05/76-05/05/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/05/76-11/19/81	2	3.	3.	3.	3.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/05/76-11/19/81	2 ##	37.5	37.5	70.	5.	2112.5	45.962	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/05/76-11/19/81	2 ##	3.75	3.75	4.5	3.	1.125	1.061	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/05/76-11/19/81	2 ##	2.5	2.5	4.5	0.5	8.	2.828	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/05/76-11/19/81	2 ##	3.5	3.5	5.	2.	4.5	2.121	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/05/76-11/19/81	2 ##	2.5	2.5	4.5	0.5	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: GRCA0094

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075	SILVER, DISSOLVED (UG/L AS AG)	05/05/76-05/05/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/05/76-05/05/76	1	670.	670.	670.	670.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/05/76-11/19/81	2 ##	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/05/76-11/19/81	2	37.	37.	70.	4.	2178.	46.669	**	**	**	**
01100	TIN, DISSOLVED (UG/L AS SN)	05/05/76-05/05/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/05/76-11/19/81	2	25.	25.	40.	10.	450.	21.213	**	**	**	**
01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/05/76-05/05/76	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/05/76-05/05/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/05/76-05/05/76	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/19/81-11/19/81	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/05/76-05/05/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/05/76-05/05/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/19/81-11/19/81	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/19/81-11/19/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/19/81-11/19/81	1	0.778	0.778	0.778	0.778	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			6.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/19/81-11/19/81	1	7.	7.	7.	7.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/19/81-11/19/81	1	0.845	0.845	0.845	0.845	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			7.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/19/81-11/19/81	1	546.	546.	546.	546.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/19/81-11/19/81	1	513.	513.	513.	513.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/19/81-11/19/81	1	0.34	0.34	0.34	0.34	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/19/81-11/19/81	1	0.74	0.74	0.74	0.74	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	11/19/81-11/19/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/05/76-05/05/76	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: GRCA0094

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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									
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									
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	5.	2	0	0.00	1	0	0.00	1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	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						
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						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	5000.	2	0	0.00	1	0	0.00	1	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRCA0094

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0095

NPS Station ID: GRCA0095 LAT/LON: 36.195060/-112.451699 Agency: 11NPSWRD Date Created: 02/03/96
Location: COLORADO RIVER CONFLUENCE WITH ROYAL ARCH CREEK FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): GRCA_ROYA006
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
COLORADO RIVER CONFLUENCE WITH ROYAL ARCH CREEK. SITE IS LOCATED ON THE EXPLORERS MONUMENT USGS 7.5 QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0095

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/15/92-10/19/95	11	16.5	17.	22.	9.5	12.85	3.585	10.5	15.	20.5	21.7
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/15/92-10/19/95	10	23.25	26.17	42.5	11.	104.822	10.238	11.7	19.125	35.625	42.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/15/92-08/03/95	10	0.35	0.367	0.7	0.07	0.066	0.258	0.073	0.1	0.625	0.7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/15/92-10/19/95	11	775.	755.818	800.	660.	2124.964	46.097	669.4	710.	792.	798.6
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/15/92-10/19/95	10	8.55	8.7	11.1	7.4	1.158	1.076	7.44	7.875	9.275	10.94
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/15/92-10/19/95	10	96.	98.5	120.	83.	123.389	11.108	83.4	92.25	105.5	119.3
00406	PH, FIELD, STANDARD UNITS SU	06/15/92-10/19/95	11	8.5	8.279	8.99	6.69	0.375	0.612	6.932	8.11	8.71	8.936
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/15/92-10/19/95	11	8.5	7.642	8.99	6.69	0.822	0.907	6.932	8.11	8.71	8.936
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/15/92-10/19/95	11	0.003	0.023	0.204	0.001	0.004	0.06	0.001	0.002	0.008	0.166
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/15/92-10/19/95	10	148.	171.4	252.	110.	2374.267	48.726	113.4	145.5	229.5	250.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/15/92-07/05/94	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/15/92-07/05/94	7 ##	0.015	0.017	0.03	0.015	0.	0.006	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/15/92-07/05/94	7 ##	0.1	0.314	1.4	0.1	0.235	0.485	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/15/92-07/05/94	7	0.84	0.819	0.89	0.72	0.004	0.064	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/15/92-07/05/94	7 ##	0.025	0.03	0.06	0.025	0.	0.013	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/15/92-07/05/94	7	79.8	80.029	81.7	78.7	1.459	1.208	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/15/92-07/05/94	7	47.2	47.043	48.2	45.5	1.15	1.072	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/15/92-07/05/94	7	17.8	17.914	19.6	16.6	1.261	1.123	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/15/92-07/05/94	7	3.7	3.686	4.	3.3	0.051	0.227	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/15/92-07/05/94	7	32.	35.429	57.	26.	99.286	9.964	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/15/92-07/05/94	7	230.	248.571	390.	210.	3947.619	62.83	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/15/92-07/05/94	7	0.36	0.364	0.41	0.33	0.001	0.033	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/17/92-05/08/94	5	11.6	11.18	12.6	9.	1.962	1.401	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/15/92-07/05/94	7 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/15/92-07/05/94	6 ##	2.5	2.333	2.5	2.	0.067	0.258	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/15/92-07/05/94	7 ##	0.25	0.286	0.5	0.25	0.009	0.094	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/15/92-07/05/94	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/15/92-07/05/94	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/15/92-07/05/94	7 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/15/92-07/05/94	7 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/15/92-07/05/94	7 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/15/92-07/05/94	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/15/92-07/05/94	7 ##	10.	25.	106.	5.	1310.333	36.199	**	**	**	**

** - Less than 9 observations ## - 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: GRCA0095

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/15/92-07/05/94	7 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/15/92-07/05/94	7	8.	7.571	12.5	2.5	9.202	3.034	**	**	**	**
01501	ALPHA, TOTAL	02/16/94-02/16/94	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	02/16/94-02/16/94	1	2.	2.	2.	2.	0.	0.	**	**	**	**
03501	BETA, TOTAL	02/16/94-02/16/94	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/15/92-10/19/95	11	1.	6.773	50.	0.5	219.068	14.801	0.5	0.5	4.	42.6
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/15/92-10/19/95	11	0.	0.228	1.699	-0.301	0.455	0.675	-0.301	-0.301	0.602	1.582
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.692								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/15/92-10/19/95	10	78.5	160.7	504.	4.	34620.233	186.065	5.3	23.75	290.	500.6
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/15/92-10/19/95	10	1.894	1.851	2.702	0.602	0.45	0.671	0.665	1.369	2.439	2.699
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			70.957								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/15/92-10/19/95	10	509.	514.7	540.	494.	318.233	17.839	494.6	500.	536.25	540.
71900	MERCURY, TOTAL (UG/L AS HG)	06/15/92-07/05/94	7 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/15/92-10/19/95	10	1.	1.64	5.4	0.2	2.685	1.639	0.22	0.475	2.375	5.21

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

EPA Water Quality Criteria Analysis for Station: GRCA0095

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	10	0	0.00	5	0	0.00	2	0	0.00	3	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	11	0	0.00	5	0	0.00	3	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	11	0	0.00	5	0	0.00	3	0	0.00	3	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	250.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	7	1	0.14	3	1	0.33	2	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	4.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	1300.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	15.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	100.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5000.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	11	0	0.00	5	0	0.00	3	0	0.00	3	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	10	0	0.00	5	0	0.00	3	0	0.00	2	0	0.00			

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

Station Inventory for Station: GRCA0096

NPS Station ID: GRCA0096 LAT/LON: 36.395670/-112.457004 Agency: 11NPSWRD Date Created: 02/03/96
Location: COLORADO RIVER CONFLUENCE WITH THUNDER RIVER FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): GRCA_THUN003
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
COLORADO RIVER CONFLUENCE WITH THUNDER RIVER. SITE IS LOCATED ON THE TAPEATS AMPHITHEATER USGS 7.5 QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/16/94-10/16/94	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/19/92-10/16/94	2	14.75	14.75	16.5	13.	6.125	2.475	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/19/92-10/16/94	2	314.5	314.5	326.	303.	264.5	16.263	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/19/92-10/16/94	2	9.35	9.35	9.5	9.2	0.045	0.212	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/19/92-10/16/94	2	97.5	97.5	99.	96.	4.5	2.121	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	10/19/92-10/16/94	2	8.465	8.465	8.58	8.35	0.026	0.163	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/19/92-10/16/94	2	8.45	8.45	8.58	8.35	0.027	0.164	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/92-10/16/94	2	0.004	0.004	0.004	0.003	0.	0.001	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/19/92-10/16/94	2	202.	202.	240.	164.	2888.	53.74	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/16/94-10/16/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/16/94-10/16/94	1 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/16/94-10/16/94	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/16/94-10/16/94	1	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/16/94-10/16/94	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/19/92-10/19/92	1	168.	168.	168.	168.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/19/92-10/16/94	2	96.15	96.15	150.	42.3	5799.645	76.155	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/19/92-10/16/94	2	18.1	18.1	18.2	18.	0.02	0.141	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/16/94-10/16/94	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/16/94-10/16/94	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/19/92-10/16/94	2 ##	0.625	0.625	1.	0.25	0.281	0.53	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/19/92-10/16/94	2 ##	2.25	2.25	2.5	2.	0.125	0.354	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/16/94-10/16/94	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/16/94-10/16/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/16/94-10/16/94	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/16/94-10/16/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/16/94-10/16/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/16/94-10/16/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/16/94-10/16/94	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	10/16/94-10/16/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/16/94-10/16/94	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/16/94-10/16/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/16/94-10/16/94	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	10/16/94-10/16/94	1 ##	25.	25.	25.	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

Parameter Inventory for Station: GRCA0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01147	SELENIUM, TOTAL (UG/L AS SE)	10/16/94-10/16/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/19/92-10/16/94	2 ##	1.75	1.75	3.	0.5	3.125	1.768	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/19/92-10/16/94	2 ##	0.088	0.088	0.477	-0.301	0.303	0.55	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.225								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/19/92-10/16/94	2	3.5	3.5	5.	2.	4.5	2.121	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/19/92-10/16/94	2	0.5	0.5	0.699	0.301	0.079	0.281	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			3.162								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/16/94-10/16/94	1	160.	160.	160.	160.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/16/94-10/16/94	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/19/92-10/16/94	2	0.75	0.75	0.9	0.6	0.045	0.212	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0096

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	0	0.00	2	0	0.00									
00406	PH, FIELD	Other-Hi Lim.	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	0	0.00	2	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	2	0	0.00									
		Drinking Water	250.	2	0	0.00	2	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	2	0	0.00									
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01059	THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01097	ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	0	0.00	2	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: GRCA0097

NPS Station ID: GRCA0097
LAT/LON: 36.396115/-112.457781
Agency: 112WRD
Date Created: 02/28/78
Location: B-35-02 25D UNSURV
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 362346112272801
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.00
On/Off RF1:
RF3 Index: 15010001025901.58
RF3 Mile Point: 5.23
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0097

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/27/51-06/27/51	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/27/51-06/27/51	1	311.	311.	311.	311.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/27/51-06/27/51	1	168.	168.	168.	168.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	06/27/51-06/27/51	1	205.	205.	205.	205.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/27/51-06/27/51	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/27/51-06/27/51	1	190.	190.	190.	190.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/27/51-06/27/51	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/27/51-06/27/51	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/27/51-06/27/51	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	06/27/51-06/27/51	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/27/51-06/27/51	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/27/51-06/27/51	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/27/51-06/27/51	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	06/27/51-06/27/51	1	0.	0.	0.	0.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0097

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00							1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: GRCA0098

NPS Station ID: GRCA0098
LAT/LON: 36.372003/-112.462505
Agency: 11NPSWRD
Date Created: 02/03/96
Location: TAPEATS CREEK AT COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): GRCA_TAPE001
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
TAPEATS CREEK AT COLORADO RIVER. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/27/92-10/21/95	12	13.35	13.983	19.	11.	5.02	2.24	11.3	12.2	15.825	18.1
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/27/92-10/21/95	12	21.1	22.283	34.	12.	63.783	7.986	12.3	15.125	30.8	34.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/27/92-10/21/95	11	75.	78.909	127.	40.	541.091	23.261	43.6	63.	98.	121.6
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/27/92-10/21/95	12	313.	328.5	547.	198.	8758.636	93.588	209.1	286.5	342.5	521.2
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/27/92-10/21/95	12	9.5	9.692	11.5	8.4	0.672	0.82	8.49	9.425	10.05	11.26
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/27/92-10/21/95	12	101.	101.583	113.	93.	26.629	5.16	94.2	98.25	104.75	110.9
00406	PH, FIELD, STANDARD UNITS SU	05/27/92-10/21/95	12	8.605	8.521	8.86	7.74	0.088	0.297	7.899	8.368	8.68	8.833
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/27/92-10/21/95	12	8.605	8.392	8.86	7.74	0.106	0.326	7.899	8.368	8.68	8.833
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/27/92-10/21/95	12	0.002	0.004	0.018	0.001	0.	0.005	0.001	0.002	0.004	0.014
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/27/92-10/21/95	12	182.	195.	290.	126.	2647.636	51.455	130.2	162.5	230.	287.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/27/92-10/15/94	9 ##	5.	70.	580.	5.	36581.25	191.262	5.	5.	10.	580.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/27/92-10/15/94	9 ##	0.015	0.015	0.015	0.015	0.	0.	0.015	0.015	0.015	0.015
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/27/92-10/15/94	9 ##	0.1	0.256	1.1	0.1	0.108	0.328	0.1	0.1	0.3	1.1
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/27/92-10/15/94	9	0.08	0.12	0.35	0.03	0.01	0.099	0.03	0.06	0.165	0.35
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/27/92-10/15/94	9	0.06	0.088	0.33	0.025	0.009	0.093	0.025	0.05	0.085	0.33
00916	CALCIUM, TOTAL (MG/L AS CA)	05/27/92-10/15/94	9	42.	40.511	44.2	32.4	13.769	3.711	32.4	38.55	43.35	44.2
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/27/92-10/15/94	9	17.9	17.144	19.7	10.3	8.185	2.861	10.3	16.2	18.95	19.7
00929	SODIUM, TOTAL (MG/L AS NA)	05/27/92-10/15/94	9	1.6	1.7	2.5	1.3	0.105	0.324	1.3	1.6	1.7	2.5
00937	POTASSIUM, TOTAL MG/L AS K)	05/27/92-10/15/94	9 ##	0.5	0.589	1.3	0.5	0.071	0.267	0.5	0.5	0.5	1.3
00940	CHLORIDE,TOTAL IN WATER MG/L	05/27/92-10/15/94	9	2.	1.667	3.	1.	0.5	0.707	1.	1.	2.	3.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/27/92-10/15/94	9	3.	4.333	8.	2.5	4.188	2.046	2.5	2.75	6.	8.
00951	FLUORIDE, TOTAL (MG/L AS F)	05/27/92-10/15/94	9	0.08	0.087	0.13	0.06	0.001	0.027	0.06	0.065	0.115	0.13
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/18/92-02/17/94	4	6.95	6.25	7.1	4.	2.27	1.507	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/27/92-10/15/94	9 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/27/92-10/15/94	9 ##	2.5	2.389	2.5	2.	0.049	0.22	2.	2.25	2.5	2.5
01027	CADMIUM, TOTAL (UG/L AS CD)	05/27/92-10/15/94	9 ##	0.25	0.278	0.5	0.25	0.007	0.083	0.25	0.25	0.25	0.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/27/92-10/15/94	9 ##	5.	6.778	21.	5.	28.444	5.333	5.	5.	5.	21.
01042	COPPER, TOTAL (UG/L AS CU)	05/27/92-10/15/94	9 ##	5.	7.111	24.	5.	40.111	6.333	5.	5.	5.	24.
01051	LEAD, TOTAL (UG/L AS PB)	05/27/92-10/15/94	9 ##	1.	1.889	4.	1.	1.861	1.364	1.	1.	3.5	4.
01059	THALLIUM, TOTAL (UG/L AS TL)	05/27/92-10/15/94	9 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
01067	NICKEL, TOTAL (UG/L AS NI)	05/27/92-10/15/94	9 ##	10.	10.	10.	10.	0.	0.	10.	10.	10.	10.
01077	SILVER, TOTAL (UG/L AS AG)	05/27/92-10/15/94	9 ##	5.	5.778	12.	5.	5.444	2.333	5.	5.	5.	12.
01092	ZINC, TOTAL (UG/L AS ZN)	05/27/92-10/15/94	9 ##	10.	20.222	61.	5.	471.444	21.713	5.	7.5	35.5	61.
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/27/92-10/15/94	9 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01147	SELENIUM, TOTAL (UG/L AS SE)	05/27/92-10/15/94	9 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
01501	ALPHA, TOTAL	05/27/92-02/17/94	4 ##	1.	1.75	4.	1.	2.25	1.5	**	**	**	**

** - 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: GRCA0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01502	ALPHA, TOTAL, COUNTING ERROR	06/16/92-06/16/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
03501	BETA, TOTAL	05/27/92-02/17/94	4	8.5	8.125	14.	1.5	27.729	5.266	**	**	**	**
03502	BETA, TOTAL, COUNTING ERROR	05/27/92-10/18/92	3	3.	3.	3.	3.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/16/92-10/21/95	10 ##	0.75	61.35	600.	0.5	35822.447	189.268	0.5	0.5	3.5	540.5
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/16/92-10/21/95	10 ##	-0.151	0.275	2.778	-0.301	0.914	0.956	-0.301	-0.301	0.533	2.57
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			1.884								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/16/92-10/21/95	9	12.	20.222	77.	2.	540.694	23.253	2.	5.5	27.	77.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/16/92-10/21/95	9	1.079	1.085	1.886	0.301	0.227	0.476	0.301	0.724	1.424	1.886
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			12.164								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/27/92-08/04/95	11	170.	169.818	214.	120.	561.164	23.689	126.	160.	180.	210.
71900	MERCURY, TOTAL (UG/L AS HG)	05/27/92-10/15/94	9 ##	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	05/27/92-10/21/95	10	2.35	2.93	11.2	0.2	9.682	3.112	0.28	1.075	3.25	10.48

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

EPA Water Quality Criteria Analysis for Station: GRCA0098

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	12	0	0.00	5	0	0.00	3	0	0.00	4	0	0.00			
00406	PH, FIELD	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			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	250.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	50.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	4.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	5.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	9	1	0.11	4	0	0.00	3	0	0.00	2	1	0.50			
		Drinking Water	1300.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	15.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	100.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1 &	1	1.00	1	1	1.00									
		Drinking Water	100.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	5000.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	50.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	10	1	0.10	5	1	0.20	1	0	0.00	4	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	2.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	10	0	0.00	4	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: GRCA0099

NPS Station ID: GRCA0099
Location: TAPEATS CR. AZ/NM PLATEAU
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 15010002
Major Basin:
Minor Basin:
RF1 Index: 15010002
RF3 Index: 15010003042900.00
Description:

LAT/LON: 36.370837/-112.463892
Depth of Water: 0
Elevation: 2000
RF1 Mile Point: 0.000
RF3 Mile Point: 0.10

Agency: 21AZRWTR
FIPS State/County: 04005 ARIZONA/COCONINO
STORET Station ID(s): TAP1-00RF
Within Park Boundary: Yes
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 1.70
Distance from RF3: 0.02

Date Created: 08/27/94
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: GRCA0099

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: GRCA0100

NPS Station ID: GRCA0100
LAT/LON: 36.371948/-112.467227
Agency: 112WRD
Date Created: 07/30/76
Location: PP35 TAPEATS CRK AT MOUTH, RM133.6
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 362219112280200
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 0.50
On/Off RF1:
RF3 Index: 15010004000100.00
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/76-11/18/81	2	13.	13.	14.	12.	2.	1.414	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/18/81-11/18/81	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/18/81-11/18/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/06/76-11/18/81	2	265.	265.	320.	210.	6050.	77.782	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/18/81-11/18/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/18/81-11/18/81	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/18/81-11/18/81	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/18/81-11/18/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/18/81-11/18/81	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/18/81-11/18/81	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/18/81-11/18/81	1	180.	180.	180.	180.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/18/81-11/18/81	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/18/81-11/18/81	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/18/81-11/18/81	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/18/81-11/18/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/18/81-11/18/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/18/81-11/18/81	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/18/81-11/18/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/18/81-11/18/81	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/18/81-11/18/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/18/81-11/18/81	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/18/81-11/18/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/06/76-05/06/76	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/06/76-05/06/76	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/06/76-05/06/76	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/06/76-11/18/81	2	9.	9.	10.	8.	2.	1.414	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/06/76-11/18/81	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/06/76-05/06/76	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/06/76-05/06/76	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/06/76-11/18/81	2 ##	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/06/76-11/18/81	2 ##	42.5	42.5	80.	5.	2812.5	53.033	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/06/76-11/18/81	2 ##	2.75	2.75	4.	1.5	3.125	1.768	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/06/76-11/18/81	2 ##	1.	1.	1.5	0.5	0.5	0.707	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/06/76-11/18/81	2 ##	3.	3.	5.	1.	8.	2.828	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/06/76-11/18/81	2 ##	1.25	1.25	1.5	1.	0.125	0.354	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/06/76-05/06/76	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/06/76-05/06/76	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/06/76-11/18/81	2 ##	1.75	1.75	2.	1.5	0.125	0.354	**	**	**	**

** - Less than 9 observations ## - 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: GRCA0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/06/76-11/18/81	2 ##	2.	2.	4.	0.	8.	2.828	**	**	**	**
01100	TIN, DISSOLVED (UG/L AS SN)	05/06/76-05/06/76	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/06/76-11/18/81	2	70.	70.	130.	10.	7200.	84.853	**	**	**	**
01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/06/76-05/06/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/06/76-05/06/76	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/06/76-05/06/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/18/81-11/18/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/06/76-05/06/76	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/06/76-05/06/76	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/18/81-11/18/81	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/18/81-11/18/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/18/81-11/18/81	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/18/81-11/18/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/18/81-11/18/81	1	1.041	1.041	1.041	1.041	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			11.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/18/81-11/18/81	1	169.	169.	169.	169.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/18/81-11/18/81	1	173.	173.	173.	173.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/18/81-11/18/81	1	28.7	28.7	28.7	28.7	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/18/81-11/18/81	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	11/18/81-11/18/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	05/06/76-05/06/76	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: GRCA0100

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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	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									
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	5.	2	0	0.00	1	0	0.00	1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	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						
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						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	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						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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

EPA Water Quality Criteria Analysis for Station: GRCA0100

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
80020	URANIUM, DISS. BY EXTRACTION FLUOROMETRI	Drinking Water	20.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0101

NPS Station ID: GRCA0101 LAT/LON: 36.242142/-112.470893 Agency: 11NPSWRD Date Created: 02/03/96
Location: BLACKTAIL SPRING - POOL BELOW CASCADE FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): GRCA_BLAK001
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
BLACKTAIL SPRING - POOL BELOW CASCADE AT END OF TRAIL FROM RIVER BLACKTAIL SPRING IS LOCATED ON THE HAVASUPAI POINT 15 MINUTE USGS QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0101

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/20/95-10/20/95	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/20/95-10/20/95	1	18.5	18.5	18.5	18.5	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/20/95-10/20/95	1	4830.	4830.	4830.	4830.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/20/95-10/20/95	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/20/95-10/20/95	1	67.	67.	67.	67.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	10/20/95-10/20/95	1	7.51	7.51	7.51	7.51	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/20/95-10/20/95	1	7.51	7.51	7.51	7.51	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/20/95-10/20/95	1	0.031	0.031	0.031	0.031	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/20/95-10/20/95	1	240.	240.	240.	240.	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/20/95-10/20/95	1	5.6	5.6	5.6	5.6	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: GRCA0101

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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									
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRCA0102

NPS Station ID: GRCA0102 | LAT/LON: 36.396698/-112.505393 | Agency: 11NPSWRD | Date Created: 02/03/96
Location: DEER CREEK ABOVE NARROWS | FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): GRCA_DEER002
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE COLORADO RIVER | ECO Region:
RF1 Index: 15010002 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
DEER CREEK ABOVE NARROWS. STATION IS THE RESPONSIBILITY OF JOHN RIHS JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0102

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/94-06/20/94	1	16.5	16.5	16.5	16.5	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/20/94-06/20/94	1	23.5	23.5	23.5	23.5	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/20/94-06/20/94	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/20/94-06/20/94	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/94-06/20/94	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/20/94-06/20/94	1	9.08	9.08	9.08	9.08	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/20/94-06/20/94	1	9.08	9.08	9.08	9.08	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/94-06/20/94	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/94-06/20/94	1	222.	222.	222.	222.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/94-06/20/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/20/94-06/20/94	1	0.11	0.11	0.11	0.11	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/20/94-06/20/94	1	15.	15.	15.	15.	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/20/94-06/20/94	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0102

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
00406	PH, FIELD	Other-Hi Lim.	9.	1	1	1.00							1	1	1.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: GRCA0103

NPS Station ID: GRCA0103
LAT/LON: 36.389476/-112.507504
Agency: 11NPSWRD
Date Created: 02/03/96
Location: DEER CREEK AT COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): GRCA_DEER001
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
DEER CREEK AT COLORADO RIVER AT "TRAIL" CROSSING. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0103

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/17/92-10/21/95	10	15.4	15.76	19.	13.	5.545	2.355	13.03	13.45	18.5	18.95
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/17/92-10/21/95	10	20.65	22.68	33.	11.5	52.957	7.277	11.95	16.75	29.375	32.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/17/92-10/21/95	9	10.	10.	16.	6.	9.25	3.041	6.	7.5	12.	16.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/17/92-10/21/95	10	352.	359.2	425.	304.	1020.844	31.951	307.3	343.75	379.5	420.6
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/17/92-10/21/95	10	9.45	9.76	11.5	8.8	0.863	0.929	8.81	8.975	10.55	11.42
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/17/92-10/21/95	10	101.5	105.5	120.	95.	100.722	10.036	95.1	96.75	118.25	119.9
00406	PH, FIELD, STANDARD UNITS SU	06/17/92-10/21/95	10	8.53	8.198	8.89	5.27	1.142	1.068	5.546	8.09	8.785	8.881
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/17/92-10/21/95	10	8.523	6.267	8.89	5.27	5.284	2.299	5.546	8.09	8.785	8.881
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/17/92-10/21/95	10	0.003	0.54	5.37	0.001	2.88	1.697	0.001	0.002	0.008	4.834
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/17/92-10/21/95	10	190.	205.4	290.	118.	2889.822	53.757	122.2	163.	253.5	286.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/12/93-10/15/94	4 ##	5.	16.25	50.	5.	506.25	22.5	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/20/92-10/15/94	5 ##	0.015	0.092	0.4	0.015	0.03	0.172	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/12/93-10/15/94	4 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/12/93-10/15/94	4	0.185	0.205	0.32	0.13	0.007	0.083	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/20/92-07/03/93	2	0.095	0.095	0.17	0.02	0.011	0.106	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/12/93-10/15/94	4	0.05	0.063	0.1	0.05	0.001	0.025	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/92-10/20/92	1	210.	210.	210.	210.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/20/92-10/15/94	5	45.6	64.88	146.	40.3	2062.837	45.418	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/20/92-10/15/94	5	22.2	28.9	64.	16.5	392.31	19.807	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	10/12/93-10/15/94	4	2.25	2.175	2.5	1.7	0.129	0.359	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	10/12/93-10/15/94	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/20/92-10/15/94	5	3.	2.8	4.	2.	0.7	0.837	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/20/92-10/15/94	6	14.	13.333	16.	8.	8.267	2.875	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	10/12/93-10/15/94	4	0.08	0.093	0.15	0.06	0.002	0.04	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/12/93-05/09/94	2	8.35	8.35	8.6	8.1	0.125	0.354	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	10/12/93-10/15/94	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/12/93-10/15/94	4 ##	2.	2.125	2.5	2.	0.063	0.25	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	10/12/93-10/15/94	4 ##	0.25	0.313	0.5	0.25	0.016	0.125	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/12/93-10/15/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	10/12/93-10/15/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	10/12/93-10/15/94	4 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	10/12/93-10/15/94	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	10/12/93-10/15/94	4 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	10/12/93-10/15/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	10/12/93-10/15/94	4 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	10/12/93-10/15/94	4 ##	25.	25.	25.	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

Parameter Inventory for Station: GRCA0103

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01147	SELENIUM, TOTAL (UG/L AS SE)	10/12/93-10/15/94	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/92-10/21/95	8	5.	58.313	430.	0.5	22569.067	150.23	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/92-10/21/95	8	0.69	0.817	2.633	-0.301	0.723	0.85	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.554								
31648	E. COLI - MTEC-MF N0/100ML	10/12/93-10/12/93	1	52.	52.	52.	52.	0.	0.	**	**	**	**
31648	LOG E. COLI - MTEC-MF N0/1	10/12/93-10/12/93	1	1.716	1.716	1.716	1.716	0.	0.	**	**	**	**
31648	GM E. COLI - MTEC-MF N0/10	GEOMETRIC MEAN =			52.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/17/92-10/21/95	8	83.	187.875	550.	3.	41003.268	202.493	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/17/92-10/21/95	8	1.919	1.941	2.74	0.477	0.512	0.715	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			87.32								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/12/93-10/21/95	7	200.	171.143	248.	5.	6832.81	82.661	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/20/92-07/03/93	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	10/12/93-10/15/94	4 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/17/92-10/21/95	10	2.05	9.89	76.2	1.2	545.39	23.354	1.22	1.475	4.2	69.24

** - 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: GRCA0103

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	10	0	0.00	4	0	0.00	2	0	0.00	4	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	10	0	0.00	4	0	0.00	2	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	10	1	0.10	4	1	0.25	2	0	0.00	4	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	5	0	0.00	3	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	250.	5	0	0.00	3	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	1	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	4.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	1300.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	100.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	5000.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	1	0.13	4	1	0.25	2	0	0.00	2	0	0.00			
31648	E. COLI, MTEC, MF	Other-Hi Lim.	126.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00				1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	2.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	10	1	0.10	4	1	0.25	2	0	0.00	4	0	0.00			

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

Station Inventory for Station: GRCA0104

NPS Station ID: GRCA0104
LAT/LON: 36.389448/-112.507781
Agency: 112WRD
Date Created: 07/30/76
Location: KP26 DEER CRK AT MOUTH, RM136.2
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 362322112302800
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 2.00
On/Off RF1:
RF3 Index: 15010002069600.00
RF3 Mile Point: 0.07
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/07/76-11/18/81	2	13.5	13.5	14.	13.	0.5	0.707	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/18/81-11/18/81	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/18/81-11/18/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/07/76-11/18/81	2	315.	315.	380.	250.	8450.	91.924	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/18/81-11/18/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/18/81-11/18/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/18/81-11/18/81	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/18/81-11/18/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/18/81-11/18/81	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/18/81-11/18/81	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/18/81-11/18/81	1	210.	210.	210.	210.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/18/81-11/18/81	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/18/81-11/18/81	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/18/81-11/18/81	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/18/81-11/18/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/18/81-11/18/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/18/81-11/18/81	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/18/81-11/18/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/18/81-11/18/81	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/18/81-11/18/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/18/81-11/18/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/18/81-11/18/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/07/76-05/07/76	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/07/76-05/07/76	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/07/76-05/07/76	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/07/76-11/18/81	2	4.	4.	8.	0.	32.	5.657	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/07/76-11/18/81	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/07/76-05/07/76	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/07/76-05/07/76	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/07/76-11/18/81	2 ##	2.	2.	3.	1.	2.	1.414	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/07/76-11/18/81	2 ##	107.5	107.5	210.	5.	21012.5	144.957	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/07/76-11/18/81	2 ##	3.	3.	4.	2.	2.	1.414	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/07/76-11/18/81	2 ##	4.25	4.25	8.	0.5	28.125	5.303	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/07/76-11/18/81	2 ##	3.	3.	5.	1.	8.	2.828	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/07/76-11/18/81	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/07/76-05/07/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/07/76-05/07/76	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/07/76-11/18/81	2 ##	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**

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

Parameter Inventory for Station: GRCA0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/07/76-11/18/81	2 ##	20.75	20.75	40.	1.5	741.125	27.224	**	**	**	**
01100	TIN, DISSOLVED (UG/L AS SN)	05/07/76-05/07/76	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/07/76-11/18/81	2	175.	175.	340.	10.	54450.	233.345	**	**	**	**
01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/07/76-05/07/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/07/76-05/07/76	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/07/76-05/07/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/18/81-11/18/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/07/76-05/07/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/07/76-05/07/76	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	11/18/81-11/18/81	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/18/81-11/18/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/18/81-11/18/81	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/18/81-11/18/81	1	94.	94.	94.	94.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/18/81-11/18/81	1	1.973	1.973	1.973	1.973	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			94.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/18/81-11/18/81	1	181.	181.	181.	181.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/18/81-11/18/81	1	192.	192.	192.	192.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/18/81-11/18/81	1	4.54	4.54	4.54	4.54	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/18/81-11/18/81	1	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	11/18/81-11/18/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	05/07/76-05/07/76	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: GRCA0104

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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	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									
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	5.	2	0	0.00	1	0	0.00	1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	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						
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						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	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						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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

EPA Water Quality Criteria Analysis for Station: GRCA0104

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
80020	URANIUM, DISS. BY EXTRACTION FLUOROMETRI	Drinking Water	20.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0105

NPS Station ID: GRCA0105
LAT/LON: 36.392226/-112.628337
Agency: 112WRD
Date Created: 02/27/82
Location: KP27 KANAB CRK AT MOUTH, RM143.5
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 362332112374210
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010003
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010003
RF1 Mile Point: 0.000
Distance from RF1: 17.00
On/Off RF1:
RF3 Index: 15010001003301.84
RF3 Mile Point: 2.12
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/18/81-11/18/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	11/18/81-11/18/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/18/81-11/18/81	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/18/81-11/18/81	1	1350.	1350.	1350.	1350.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	11/18/81-11/18/81	1	10.4	10.4	10.4	10.4	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/18/81-11/18/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/18/81-11/18/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/18/81-11/18/81	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/18/81-11/18/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/18/81-11/18/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/18/81-11/18/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/18/81-11/18/81	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	11/18/81-11/18/81	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/18/81-11/18/81	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/18/81-11/18/81	1	690.	690.	690.	690.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/18/81-11/18/81	1	160.	160.	160.	160.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/18/81-11/18/81	1	70.	70.	70.	70.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/18/81-11/18/81	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/18/81-11/18/81	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/18/81-11/18/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/18/81-11/18/81	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/18/81-11/18/81	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/18/81-11/18/81	1	620.	620.	620.	620.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/18/81-11/18/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/18/81-11/18/81	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/18/81-11/18/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/18/81-11/18/81	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	11/18/81-11/18/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	11/18/81-11/18/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/18/81-11/18/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	11/18/81-11/18/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/18/81-11/18/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/18/81-11/18/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	11/18/81-11/18/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	11/18/81-11/18/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	11/18/81-11/18/81	1	9.	9.	9.	9.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/18/81-11/18/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	11/18/81-11/18/81	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

Parameter Inventory for Station: GRCA0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
22703	URANIUM, NATURAL, DISSOLVED	11/18/81-11/18/81	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	11/18/81-11/18/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	11/18/81-11/18/81	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			0.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/18/81-11/18/81	1	9.	9.	9.	9.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	11/18/81-11/18/81	1	0.954	0.954	0.954	0.954	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			9.								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/18/81-11/18/81	1	1060.	1060.	1060.	1060.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/18/81-11/18/81	1	997.	997.	997.	997.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	11/18/81-11/18/81	1	12.	12.	12.	12.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/18/81-11/18/81	1	1.44	1.44	1.44	1.44	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	11/18/81-11/18/81	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0105

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
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									
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									
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									
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									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0106

NPS Station ID: GRCA0106
LAT/LON: 36.394948/-112.631810
Agency: 11NPSWRD
Date Created: 02/03/96
Location: KANAB CREEK AT COLORADO RIVER
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): GRCA_KANA002
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
KANAB CREEK AT COLORADO RIVER. STATION IS LOCATED ON THE KANAB POINT USGS 7.5 QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0106

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/27/92-10/21/95	12	19.95	19.033	23.5	9.5	20.493	4.527	10.55	16.2	23.	23.41
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/27/92-10/21/95	12	23.85	24.767	37.	11.5	56.953	7.547	12.7	19.875	30.75	36.25
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/27/92-10/21/95	12	5.	6.583	26.	4.	38.265	6.186	4.	4.	5.75	20.3
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/27/92-08/05/95	11	1278.	1308.545	2450.	705.	197989.073	444.96	742.4	1096.	1303.	2279.6
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/27/92-10/21/95	12	8.5	8.483	10.3	7.1	0.829	0.91	7.16	7.825	8.95	10.09
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/27/92-10/21/95	12	98.	98.417	104.	94.	12.083	3.476	94.3	95.	101.	104.
00406	PH, FIELD, STANDARD UNITS SU	05/27/92-10/21/95	12	8.24	8.093	8.67	6.8	0.308	0.555	6.95	7.9	8.528	8.643
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/27/92-10/21/95	12	8.236	7.651	8.67	6.8	0.522	0.722	6.95	7.9	8.528	8.643
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/27/92-10/21/95	12	0.006	0.022	0.158	0.002	0.002	0.045	0.002	0.003	0.013	0.126
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/27/92-10/21/95	12	124.	134.833	290.	62.	3479.606	58.988	63.8	109.	154.5	256.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/27/92-10/17/94	9 ##	5.	503.889	4100.	5.	1835629.861	1354.854	5.	5.	202.5	4100.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/27/92-10/17/94	9 ##	0.015	0.018	0.04	0.015	0.	0.008	0.015	0.015	0.015	0.04
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/27/92-10/17/94	9 ##	0.1	0.2	0.6	0.1	0.028	0.166	0.1	0.1	0.25	0.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/27/92-10/17/94	9	0.22	0.243	0.6	0.03	0.041	0.203	0.03	0.03	0.42	0.6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/27/92-10/17/94	9 ##	0.025	0.897	7.7	0.025	6.511	2.552	0.025	0.025	0.113	7.7
00916	CALCIUM, TOTAL (MG/L AS CA)	05/27/92-10/17/94	9	146.	149.444	195.	109.	481.528	21.944	109.	145.	155.	195.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/27/92-10/17/94	9	64.	60.378	88.	14.8	436.407	20.89	14.8	52.25	70.45	88.
00929	SODIUM, TOTAL (MG/L AS NA)	05/27/92-10/17/94	9	33.6	32.733	54.7	5.3	183.678	13.553	5.3	26.55	38.6	54.7
00937	POTASSIUM, TOTAL MG/L AS K)	05/27/92-10/17/94	9	6.3	6.144	6.8	4.4	0.57	0.755	4.4	5.9	6.8	6.8
00940	CHLORIDE,TOTAL IN WATER MG/L	05/27/92-10/17/94	9	21.	19.889	32.	4.	60.611	7.785	4.	16.5	24.	32.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/27/92-10/17/94	9	510.	512.222	720.	300.	14219.444	119.245	300.	440.	580.	720.
00951	FLUORIDE, TOTAL (MG/L AS F)	05/27/92-10/17/94	9	0.29	0.264	0.33	0.13	0.005	0.071	0.13	0.215	0.315	0.33
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/04/93-02/17/94	3	8.8	8.833	9.8	7.9	0.903	0.95	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/27/92-10/17/94	9 ##	2.5	5.5	22.	2.5	44.438	6.666	2.5	2.5	6.25	22.
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/27/92-10/17/94	9 ##	2.5	2.389	2.5	2.	0.049	0.22	2.	2.25	2.5	2.5
01027	CADMIUM, TOTAL (UG/L AS CD)	05/27/92-10/17/94	9 ##	0.25	0.278	0.5	0.25	0.007	0.083	0.25	0.25	0.25	0.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/27/92-10/17/94	9 ##	5.	17.333	109.	5.	1187.	34.453	5.	5.	8.5	109.
01042	COPPER, TOTAL (UG/L AS CU)	05/27/92-10/17/94	9 ##	5.	20.444	144.	5.	2146.778	46.333	5.	5.	5.	144.
01051	LEAD, TOTAL (UG/L AS PB)	05/27/92-10/17/94	9 ##	1.	7.111	50.	1.	261.361	16.167	1.	1.	4.	50.
01059	THALLIUM, TOTAL (UG/L AS TL)	05/27/92-10/17/94	9 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
01067	NICKEL, TOTAL (UG/L AS NI)	05/27/92-10/17/94	9 ##	10.	21.111	110.	10.	1111.111	33.333	10.	10.	10.	110.
01077	SILVER, TOTAL (UG/L AS AG)	05/27/92-10/17/94	9 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01092	ZINC, TOTAL (UG/L AS ZN)	05/27/92-10/17/94	9	12.	85.222	474.	5.	24542.194	156.659	5.	10.	112.5	474.

** - Less than 9 observations ## - 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: GRCA0106

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/27/92-10/17/94	9 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01147	SELENIUM, TOTAL (UG/L AS SE)	05/27/92-10/17/94	9 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
01501	ALPHA, TOTAL	05/27/92-02/17/94	3	4.	15.667	40.	3.	444.333	21.079	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	05/27/92-05/18/93	2	9.	9.	16.	2.	98.	9.899	**	**	**	**
03501	BETA, TOTAL	05/27/92-02/17/94	3	10.	96.333	274.	5.	23680.333	153.884	**	**	**	**
03502	BETA, TOTAL, COUNTING ERROR	05/27/92-05/18/93	2	12.5	12.5	21.	4.	144.5	12.021	**	**	**	**
22708	URANIUM, NATURAL TOTAL MG/L	06/17/92-10/20/92	2	0.006	0.006	0.007	0.005	0.	0.001	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/92-10/21/95	11	8.	74.773	510.	0.5	26411.568	162.516	0.8	4.	13.	459.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/17/92-10/21/95	11	0.903	1.016	2.708	-0.301	0.738	0.859	-0.181	0.602	1.114	2.647
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			10.385								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/17/92-10/21/95	11	30.	130.182	590.	3.	52526.164	229.186	3.4	7.	103.	590.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/17/92-10/21/95	11	1.477	1.475	2.771	0.477	0.625	0.79	0.521	0.845	2.013	2.771
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			29.845								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/27/92-08/05/95	11	920.	896.818	1300.	520.	41980.164	204.891	540.	837.	1000.	1240.
71900	MERCURY, TOTAL (UG/L AS HG)	05/27/92-10/17/94	9 ##	0.1	0.122	0.3	0.1	0.004	0.067	0.1	0.1	0.1	0.3
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/17/92-10/21/95	11	1.7	9.027	77.5	0.4	522.916	22.867	0.42	0.6	2.3	64.

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

EPA Water Quality Criteria Analysis for Station: GRCA0106

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	12	0	0.00	5	0	0.00	3	0	0.00	4	0	0.00			
00406	PH, FIELD	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			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	250.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	9	9	1.00	4	4	1.00	3	3	1.00	2	2	1.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	50.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	4.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	5.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	9	1	0.11	4	0	0.00	3	1	0.33	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	9	1	0.11	4	0	0.00	3	1	0.33	2	0	0.00			
		Drinking Water	1300.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	15.	9	1	0.11	4	0	0.00	3	1	0.33	2	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	100.	9	1	0.11	4	0	0.00	3	1	0.33	2	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	9	2	0.22	4	0	0.00	3	2	0.67	2	0	0.00			
		Drinking Water	5000.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	50.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
22708	URANIUM, NATURAL, TOTAL	Drinking Water	0.02	2	0	0.00	1	0	0.00	1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	11	2	0.18	5	2	0.40	2	0	0.00	4	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	2.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	11	1	0.09	5	1	0.20	2	0	0.00	4	0	0.00			

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

Station Inventory for Station: GRCA0107

NPS Station ID: GRCA0107
LAT/LON: 36.391670/-112.631671
Agency: 11TOX09
Date Created: 03/17/90
Location: KANAB CREEK AB COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 000288
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 0.30
On/Off RF1:
RF3 Index: 15010002000901.97
RF3 Mile Point: 1.97
Distance from RF3: 0.17
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0107

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/26/89-05/26/89	1	16.7	16.7	16.7	16.7	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/26/89-05/26/89	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/26/89-05/26/89	1	1400.	1400.	1400.	1400.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/26/89-05/26/89	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/26/89-05/26/89	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/26/89-05/26/89	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/26/89-05/26/89	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0107

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0108

NPS Station ID: GRCA0108
LAT/LON: 36.341670/-112.670837
Agency: 21AZRWTR
Date Created: 08/27/94
Location: MATKATAMIBA CR.AZ/NM PLATEAU
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): MAT1-00RF
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 1900
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0108

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: GRCA0109

NPS Station ID: GRCA0109
LAT/LON: 36.345559/-112.670837
Agency: 112WRD
Date Created: 02/28/78
Location: RM147.9, GCNP: SPRING
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 362044112401500
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 15010002054000.00
RF3 Mile Point: 1.09
Distance from RF3: 0.28
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0109

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/07/76-05/07/76	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/07/76-05/07/76	1	1350.	1350.	1350.	1350.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/07/76-05/07/76	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/07/76-05/07/76	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/07/76-05/07/76	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
09511	RADIUM 226, DISSOLVED, RADON METHOD	05/07/76-05/07/76	1	0.36	0.36	0.36	0.36	0.	0.	**	**	**	**
80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/07/76-05/07/76	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0109

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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: GRCA0110

NPS Station ID: GRCA0110
LAT/LON: 36.342198/-112.671392
Agency: 11NPSWRD
Date Created: 02/03/96
Location: MATKATAMIBA CANYON AT COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): GRCA_MATK001
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
MATKATAMIBA CANYON AT COLORADO RIVER AND BELOW CHUTES. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0110

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/18/92-10/22/95	7	18.3	19.614	26.	14.5	18.225	4.269	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/18/92-10/22/95	7	22.	22.971	36.	16.	47.056	6.86	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/18/92-10/22/95	7	0.4	0.367	0.6	0.08	0.042	0.205	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/18/92-08/05/95	6	1361.5	1353.	1424.	1258.	3068.8	55.397	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/18/92-10/22/95	6	8.25	7.933	9.	6.6	0.863	0.929	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/18/92-10/22/95	7	95.	95.143	100.	90.	8.81	2.968	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/18/92-10/22/95	7	8.28	8.081	8.66	7.31	0.286	0.535	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/18/92-10/22/95	7	8.28	7.781	8.66	7.31	0.391	0.625	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/18/92-10/22/95	7	0.005	0.017	0.049	0.002	0.	0.021	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/18/92-10/22/95	7	108.	99.714	120.	40.	776.571	27.867	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/18/92-05/09/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/18/92-05/09/94	4 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/18/92-05/09/94	4 ##	0.1	0.15	0.3	0.1	0.01	0.1	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/18/92-05/09/94	4	0.59	0.573	0.66	0.45	0.009	0.097	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/18/92-05/09/94	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/18/92-05/09/94	4	174.5	171.	181.	154.	142.	11.916	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/18/92-05/09/94	4	79.55	81.6	90.5	76.8	37.26	6.104	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/18/92-05/09/94	4	18.7	18.85	21.5	16.5	5.503	2.346	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/18/92-05/09/94	4	6.35	6.6	7.6	6.1	0.46	0.678	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/18/92-05/09/94	4	23.	23.75	29.	20.	16.917	4.113	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/18/92-05/09/94	4	630.	615.	650.	550.	2233.333	47.258	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/18/92-05/09/94	4	0.52	0.535	0.6	0.5	0.002	0.047	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/04/93-05/09/94	2	13.35	13.35	14.5	12.2	2.645	1.626	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/18/92-05/09/94	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/18/92-05/09/94	4 ##	2.5	2.375	2.5	2.	0.063	0.25	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/18/92-05/09/94	4 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/18/92-05/09/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/18/92-05/09/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/18/92-05/09/94	4 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/18/92-05/09/94	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/18/92-05/09/94	4 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/18/92-05/09/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/18/92-05/09/94	4 ##	10.	39.5	128.	10.	3481.	59.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/18/92-05/09/94	4 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/18/92-05/09/94	4	10.	10.	10.	10.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/18/92-10/22/95	7	3.	95.214	600.	0.5	49708.655	222.954	**	**	**	**

** - Less than 9 observations ## - 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: GRCA0110

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	06/18/92-10/22/95	7	0.477	0.951	2.778	-0.301	1.05	1.025	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			8.928								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/18/92-10/22/95	6	85.5	80.667	150.	12.	3556.667	59.638	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/18/92-10/22/95	6	1.919	1.734	2.176	1.079	0.237	0.487	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			54.182								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/18/92-08/05/95	5	1100.	1044.8	1100.	824.	15235.2	123.431	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/18/92-05/09/94	4 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/18/92-10/22/95	7	1.	1.229	3.4	0.2	1.102	1.05	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0110

				Total	Exceed	Prop.	----------10/01-3/14----------			----------3/15-6/19----------			----------6/20-9/30----------			----------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.	6	0	0.00	2	0	0.00	2	0	0.00	2	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	250.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	4	1.00	1	1	1.00	2	2	1.00	1	1	1.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	4.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	5.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	1300.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	15.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	100.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	1	0.25	1	0	0.00	2	1	0.50	1	0	0.00			
		Drinking Water	5000.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	50.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	7	1	0.14	3	0	0.00	2	0	0.00	2	1	0.50			
71900	MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	2.	4	0	0.00	1	0	0.00	2	0	0.00	1	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	7	0	0.00	3	0	0.00	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: GRCA0111

NPS Station ID: GRCA0111
LAT/LON: 36.217504/-112.686671
Agency: 112WRD
Date Created: 12/10/94
Location: B-33-04 26 UNSURV. HAVASU SPRINGS
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 361303112411200
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010004
Depth of Water: 0
Aquifer:
Major Basin: M
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010004
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/94-08/23/94	1	21.2	21.2	21.2	21.2	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/23/94-08/23/94	1	683.	683.	683.	683.	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	08/23/94-08/23/94	1	28680.	28680.	28680.	28680.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/23/94-08/23/94	1	64.	64.	64.	64.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/94-08/23/94	1	1028.	1028.	1028.	1028.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/23/94-08/23/94	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/23/94-08/23/94	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/23/94-08/23/94	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/94-08/23/94	1	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/23/94-08/23/94	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/23/94-08/23/94	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/94-08/23/94	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	08/23/94-08/23/94	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	08/23/94-08/23/94	1	567.	567.	567.	567.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/23/94-08/23/94	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/23/94-08/23/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/23/94-08/23/94	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/23/94-08/23/94	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/23/94-08/23/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/23/94-08/23/94	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/23/94-08/23/94	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/23/94-08/23/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/23/94-08/23/94	1	130.	130.	130.	130.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/23/94-08/23/94	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/23/94-08/23/94	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/23/94-08/23/94	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/23/94-08/23/94	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/23/94-08/23/94	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/23/94-08/23/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/23/94-08/23/94	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/23/94-08/23/94	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	08/23/94-08/23/94	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	08/23/94-08/23/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/23/94-08/23/94	1	250.	250.	250.	250.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/23/94-08/23/94	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/23/94-08/23/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/23/94-08/23/94	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/23/94-08/23/94	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

Parameter Inventory for Station: GRCA0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01046	IRON, DISSOLVED (UG/L AS FE)	08/23/94-08/23/94	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/23/94-08/23/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/23/94-08/23/94	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/23/94-08/23/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/23/94-08/23/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/23/94-08/23/94	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	08/23/94-08/23/94	1	360.	360.	360.	360.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	08/23/94-08/23/94	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/23/94-08/23/94	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	08/23/94-08/23/94	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/23/94-08/23/94	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/23/94-08/23/94	1	2.	2.	2.	2.	0.	0.	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	08/23/94-08/23/94	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	08/23/94-08/23/94	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	08/23/94-08/23/94	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22603	URANIUM 238, DISSOLVED, PC/L	08/23/94-08/23/94	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
22610	URANIUM 234, DISSOLVED, PC/L	08/23/94-08/23/94	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
22620	URANIUM 235, DISSOLVED. PC/L	08/23/94-08/23/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/23/94-08/23/94	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/23/94-08/23/94	1	36.	36.	36.	36.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	08/23/94-08/23/94	1	1.556	1.556	1.556	1.556	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			36.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/23/94-08/23/94	1	220.	220.	220.	220.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/23/94-08/23/94	1	2.342	2.342	2.342	2.342	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			220.								
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	08/23/94-08/23/94	1	457.	457.	457.	457.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	08/23/94-08/23/94	1	465.	465.	465.	465.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	08/23/94-08/23/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	08/23/94-08/23/94	1	1.	1.	1.	1.	0.	0.	**	**	**	**
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	08/23/94-08/23/94	1	2.31	2.31	2.31	2.31	0.	0.	**	**	**	**
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	08/23/94-08/23/94	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	08/23/94-08/23/94	1	1.86	1.86	1.86	1.86	0.	0.	**	**	**	**
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	08/23/94-08/23/94	1	2.47	2.47	2.47	2.47	0.	0.	**	**	**	**
75990	URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	08/23/94-08/23/94	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
75991	URANIUM 238,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	08/23/94-08/23/94	1	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
75992	URANIUM 234,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	08/23/94-08/23/94	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
75994	URANIUM 235,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	08/23/94-08/23/94	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	08/23/94-08/23/94	1	6.	6.	6.	6.	0.	0.	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	08/23/94-08/23/94	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	08/23/94-08/23/94	1	-86.3	-86.3	-86.3	-86.3	0.	0.	**	**	**	**
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	08/23/94-08/23/94	1	-11.81	-11.81	-11.81	-11.81	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0111

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00							1	0	0.00			
00400	PH	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00							1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			
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			

& - 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: GRCA0111

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00							1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	1	0	0.00							1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	1	0	0.00							1	0	0.00			
		Drinking Water	6.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
07000	TRITIUM, TOTAL	Drinking Water	20000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0112

NPS Station ID: GRCA0112 LAT/LON: 36.218893/-112.691670 Agency: 112WRD Date Created: 09/25/82
Location: SAMPLE POINT #25 HAVASU CREEK NR SUPAI AZ FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 361308112413001
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 15010004 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 15010004 RF1 Mile Point: 0.000 Distance from RF1: 19.60 On/Off RF1:
RF3 Index: 15010001002602.04 RF3 Mile Point: 2.48 Distance from RF3: 0.54 On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0112

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/28/82-03/28/82	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/28/82-03/28/82	1	61.	61.	61.	61.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/28/82-03/28/82	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/28/82-03/28/82	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/28/82-03/28/82	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/28/82-03/28/82	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/28/82-03/28/82	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/28/82-03/28/82	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/28/82-03/28/82	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/28/82-03/28/82	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/28/82-03/28/82	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/28/82-03/28/82	1	130.	130.	130.	130.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/28/82-03/28/82	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/28/82-03/28/82	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	03/28/82-03/28/82	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	03/28/82-03/28/82	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/28/82-03/28/82	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/28/82-03/28/82	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/28/82-03/28/82	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/28/82-03/28/82	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/28/82-03/28/82	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/28/82-03/28/82	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01001	ARSENIC, SUSPENDED (UG/L AS AS)	03/28/82-03/28/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/28/82-03/28/82	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	03/28/82-03/28/82	1	170.	170.	170.	170.	0.	0.	**	**	**	**
01006	BARIUM, SUSPENDED (UG/L AS BA)	03/28/82-03/28/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	03/28/82-03/28/82	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/28/82-03/28/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/28/82-03/28/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	03/28/82-03/28/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/28/82-03/28/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	03/28/82-03/28/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	03/28/82-03/28/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/28/82-03/28/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01041	COPPER, SUSPENDED (UG/L AS CU)	03/28/82-03/28/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/28/82-03/28/82	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	03/28/82-03/28/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/28/82-03/28/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0112

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01046	IRON, DISSOLVED (UG/L AS FE)	03/28/82-03/28/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/28/82-03/28/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01050	LEAD, SUSPENDED (UG/L AS PB)	03/28/82-03/28/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/28/82-03/28/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/28/82-03/28/82	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/28/82-03/28/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/28/82-03/28/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01066	NICKEL, SUSPENDED (UG/L AS NI)	03/28/82-03/28/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/28/82-03/28/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/28/82-03/28/82	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/28/82-03/28/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/28/82-03/28/82	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01091	ZINC, SUSPENDED (UG/L ZN)	03/28/82-03/28/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/28/82-03/28/82	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/28/82-03/28/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01146	SELENIUM, SUSPENDED (UG/L AS SE)	03/28/82-03/28/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/28/82-03/28/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/28/82-03/28/82	1	584.	584.	584.	584.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	03/28/82-03/28/82	1	545.	545.	545.	545.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	03/28/82-03/28/82	1	96.2	96.2	96.2	96.2	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	03/28/82-03/28/82	1	0.79	0.79	0.79	0.79	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	03/28/82-03/28/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/28/82-03/28/82	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0112

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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						
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
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						
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01006	BARIUM, SUSPENDED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01007	BARIUM, TOTAL	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						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01041	COPPER, SUSPENDED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						

& - 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: GRCA0112

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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						
01050	LEAD, SUSPENDED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01066	NICKEL, SUSPENDED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						
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						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
		Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0113

NPS Station ID: GRCA0113
LAT/LON: 36.256670/-112.701115
Agency: 112WRD
Date Created: 12/10/94
Location: B-33-04 11 UNSURV. FERN SPRING
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 361524112420400
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010004
Depth of Water: 0
Aquifer:
Major Basin: N
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010004
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/24/94-08/24/94	1	20.2	20.2	20.2	20.2	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/24/94-08/24/94	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/24/94-08/24/94	1	694.	694.	694.	694.	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	08/24/94-08/24/94	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/24/94-08/24/94	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/24/94-08/24/94	1	934.	934.	934.	934.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/24/94-08/24/94	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/24/94-08/24/94	1	6.94	6.94	6.94	6.94	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/24/94-08/24/94	1	6.94	6.94	6.94	6.94	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/24/94-08/24/94	1	0.115	0.115	0.115	0.115	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/24/94-08/24/94	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/24/94-08/24/94	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/24/94-08/24/94	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	08/24/94-08/24/94	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	08/24/94-08/24/94	1	495.	495.	495.	495.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/24/94-08/24/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/24/94-08/24/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/24/94-08/24/94	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/24/94-08/24/94	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/24/94-08/24/94	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/24/94-08/24/94	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/24/94-08/24/94	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/24/94-08/24/94	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/24/94-08/24/94	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/24/94-08/24/94	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/24/94-08/24/94	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/24/94-08/24/94	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/24/94-08/24/94	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/24/94-08/24/94	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/24/94-08/24/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/24/94-08/24/94	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/24/94-08/24/94	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	08/24/94-08/24/94	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	08/24/94-08/24/94	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/24/94-08/24/94	1	280.	280.	280.	280.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/24/94-08/24/94	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/24/94-08/24/94	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	08/24/94-08/24/94	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01040	COPPER, DISSOLVED (UG/L AS CU)	08/24/94-08/24/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/24/94-08/24/94	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	08/24/94-08/24/94	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/24/94-08/24/94	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	08/24/94-08/24/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	08/24/94-08/24/94	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/24/94-08/24/94	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	08/24/94-08/24/94	1	400.	400.	400.	400.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	08/24/94-08/24/94	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/24/94-08/24/94	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	08/24/94-08/24/94	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	08/24/94-08/24/94	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/24/94-08/24/94	1	1.	1.	1.	1.	0.	0.	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	08/24/94-08/24/94	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	08/24/94-08/24/94	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	08/24/94-08/24/94	1	1.	1.	1.	1.	0.	0.	**	**	**	**
22603	URANIUM 238, DISSOLVED, PC/L	08/24/94-08/24/94	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
22610	URANIUM 234, DISSOLVED, PC/L	08/24/94-08/24/94	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
22620	URANIUM 235, DISSOLVED. PC/L	08/24/94-08/24/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	08/24/94-08/24/94	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/24/94-08/24/94	1	55.	55.	55.	55.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	08/24/94-08/24/94	1	1.74	1.74	1.74	1.74	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			55.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/24/94-08/24/94	1	200.	200.	200.	200.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/24/94-08/24/94	1	2.301	2.301	2.301	2.301	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			200.								
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	08/24/94-08/24/94	1	402.	402.	402.	402.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	08/24/94-08/24/94	1	406.	406.	406.	406.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	08/24/94-08/24/94	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	08/24/94-08/24/94	1	1.	1.	1.	1.	0.	0.	**	**	**	**
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	08/24/94-08/24/94	1	2.27	2.27	2.27	2.27	0.	0.	**	**	**	**
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	08/24/94-08/24/94	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	08/24/94-08/24/94	1	1.66	1.66	1.66	1.66	0.	0.	**	**	**	**
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	08/24/94-08/24/94	1	2.21	2.21	2.21	2.21	0.	0.	**	**	**	**
75990	URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	08/24/94-08/24/94	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
75991	URANIUM 238,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	08/24/94-08/24/94	1	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
75992	URANIUM 234,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	08/24/94-08/24/94	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
75994	URANIUM 235,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	08/24/94-08/24/94	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	08/24/94-08/24/94	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	08/24/94-08/24/94	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	08/24/94-08/24/94	1	-85.4	-85.4	-85.4	-85.4	0.	0.	**	**	**	**
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	08/24/94-08/24/94	1	-11.67	-11.67	-11.67	-11.67	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0113

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00							1	0	0.00			
00400	PH	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00							1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			

& - 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: GRCA0113

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00							1	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00							1	0	0.00			
		Drinking Water	4.	1	0	0.00							1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	1	0	0.00							1	0	0.00			
		Drinking Water	6.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
07000	TRITIUM, TOTAL	Drinking Water	20000.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	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: GRCA0114

NPS Station ID: GRCA0114
LAT/LON: 36.346392/-112.724727
Agency: 112WRD
Date Created: 02/28/78
Location: RM151.5, GCNP: SPRING
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 362047112432900
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.40
On/Off RF1:
RF3 Index: 15010002001206.43
RF3 Mile Point: 6.71
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0114

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/07/76-05/07/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/07/76-05/07/76	1	2130.	2130.	2130.	2130.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/07/76-05/07/76	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/07/76-05/07/76	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/07/76-05/07/76	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
09511	RADIUM 226, DISSOLVED, RADON METHOD	05/07/76-05/07/76	1	0.66	0.66	0.66	0.66	0.	0.	**	**	**	**
80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/07/76-05/07/76	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0114

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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: GRCA0115

NPS Station ID: GRCA0115 LAT/LON: 36.345503/-112.725170 Agency: 11NPSWRD Date Created: 02/03/96
Location: LEDGES AT POUROVER BETWEEN SOURCE AND RIVER FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): GRCA_COLO011
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
LEDGES IS LOCATED ON THE KANAB PT. 15 MINUTE USGS QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0115

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/95-10/22/95	1	14.5	14.5	14.5	14.5	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/95-10/22/95	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	10/22/95-10/22/95	1	7.78	7.78	7.78	7.78	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/22/95-10/22/95	1	7.78	7.78	7.78	7.78	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/22/95-10/22/95	1	0.017	0.017	0.017	0.017	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/22/95-10/22/95	1	88.	88.	88.	88.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/22/95-10/22/95	1	7.	7.	7.	7.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/22/95-10/22/95	1	0.845	0.845	0.845	0.845	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			7.								
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/22/95-10/22/95	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0115

				Total	Exceed	Prop.	----------10/01-3/14----------			----------3/15-6/19----------			----------6/20-9/30----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRCA0116

NPS Station ID: GRCA0116 LAT/LON: 36.326503/-112.754698 Agency: 11NPSWRD Date Created: 02/03/96
Location: PARADISE (SLIME) FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): GRCA_COLO008
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
PARADISE (SLIME) IS LOCATED ON THE TUCKUP CANYON 15 MINUTE USGS QUADRANGLE.
STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0116

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/95-10/22/95	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/22/95-10/22/95	1	17.5	17.5	17.5	17.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/22/95-10/22/95	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	10/22/95-10/22/95	1	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/22/95-10/22/95	1	96.	96.	96.	96.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	10/22/95-10/22/95	1	8.09	8.09	8.09	8.09	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/22/95-10/22/95	1	8.09	8.09	8.09	8.09	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/22/95-10/22/95	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/22/95-10/22/95	1	126.	126.	126.	126.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/22/95-10/22/95	1	30.	30.	30.	30.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/22/95-10/22/95	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.								
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/22/95-10/22/95	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0116

				Total	Exceed	Prop.	----------10/01-3/14----------			----------3/15-6/19----------			----------6/20-9/30----------			--------------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.	1	0	0.00	1	0	0.00									
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRCA0117

NPS Station ID: GRCA0117 LAT/LON: 36.304726/-112.758060 Agency: 112WRD Date Created: 07/30/76
Location: HAVASU CREEK 200 M AB MOUTH WITH COLORADO RIVER FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 361817112452900
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 1.80 On/Off RF1:
RF3 Index: 15010001000310.32 RF3 Mile Point: 10.32 Distance from RF3: 0.16 On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0117

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/08/76-05/08/76	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/08/76-05/08/76	1	670.	670.	670.	670.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/08/76-05/08/76	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/08/76-05/08/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/08/76-05/08/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/08/76-05/08/76	1	220.	220.	220.	220.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/08/76-05/08/76	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/08/76-05/08/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/08/76-05/08/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/08/76-05/08/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/08/76-05/08/76	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/08/76-05/08/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/08/76-05/08/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/08/76-05/08/76	1 ##	2.	2.	2.	2.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/08/76-05/08/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/08/76-05/08/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/08/76-05/08/76	1	240.	240.	240.	240.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/08/76-05/08/76	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/08/76-05/08/76	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01100	TIN, DISSOLVED (UG/L AS SN)	05/08/76-05/08/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/08/76-05/08/76	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/08/76-05/08/76	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/08/76-05/08/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/08/76-05/08/76	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/08/76-05/08/76	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/08/76-05/08/76	1 ##	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/08/76-05/08/76	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: GRCA0117

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						

& - 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: GRCA0117

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0118

NPS Station ID: GRCA0118
LAT/LON: 36.304170/-112.758337
Agency: 21AZRWTR
Date Created: 08/27/94
Location: HAVASU CR. AZ/NM PLATEAU
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): HAV1-00RF
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 1840
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010004
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0118

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: GRCA0119

NPS Station ID: GRCA0119
LAT/LON: 36.307365/-112.761616
Agency: 11NPSWRD
Date Created: 02/03/96
Location: HAVASU CREEK AT COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): GRCA_HAVA001
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
HAVASU CREEK AT COLORADO RIVER - FIRST TRAIL CROSSING. STATION IS THE RESPONSIBILITY OF JOHN RIHS - GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0119

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/28/92-06/23/95	10	19.	19.65	24.	13.5	11.058	3.325	13.85	17.75	23.125	23.95
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/28/92-06/23/95	10	24.25	24.4	40.5	11.5	73.767	8.589	11.75	18.5	30.75	39.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/28/92-07/08/94	8	70.	67.125	81.	35.	222.125	14.904	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/92-06/23/95	10	711.5	708.9	743.	633.	1131.878	33.643	638.7	692.25	739.25	742.7
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	05/28/92-06/23/95	9	8.7	8.756	10.	7.5	0.688	0.829	7.5	8.15	9.6	10.
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	05/28/92-06/23/95	10	102.	102.9	120.	95.	44.544	6.674	95.4	99.	104.25	118.5
00406	PH, FIELD, STANDARD UNITS SU	05/28/92-06/23/95	10	8.36	8.317	8.83	7.51	0.12	0.346	7.574	8.188	8.518	8.807
00406	CONVERTED PH, FIELD, STANDARD UNITS	05/28/92-06/23/95	10	8.36	8.157	8.83	7.51	0.148	0.385	7.574	8.188	8.518	8.807
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/28/92-06/23/95	10	0.004	0.007	0.031	0.001	0.	0.009	0.002	0.003	0.007	0.029
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/28/92-06/23/95	10	289.	294.8	376.	244.	1630.4	40.378	244.4	267.5	325.5	372.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/28/92-10/17/94	9 ##	5.	7.778	30.	5.	69.444	8.333	5.	5.	5.	30.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/92-10/17/94	9 ##	0.015	0.015	0.015	0.015	0.	0.	0.015	0.015	0.015	0.015
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/28/92-10/17/94	9 ##	0.1	0.133	0.3	0.1	0.005	0.071	0.1	0.1	0.15	0.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/28/92-10/17/94	9	0.22	0.18	0.27	0.09	0.005	0.068	0.09	0.105	0.23	0.27
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/28/92-10/17/94	9 ##	0.025	0.074	0.47	0.025	0.022	0.148	0.025	0.025	0.025	0.47
00916	CALCIUM, TOTAL (MG/L AS CA)	05/28/92-10/17/94	9	43.6	45.411	58.	39.5	32.651	5.714	39.5	41.55	48.15	58.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/28/92-10/17/94	9	42.8	43.2	46.	41.3	2.518	1.587	41.3	41.75	44.5	46.
00929	SODIUM, TOTAL (MG/L AS NA)	05/28/92-10/17/94	9	34.	34.033	35.6	32.2	1.742	1.32	32.2	32.7	35.35	35.6
00937	POTASSIUM, TOTAL MG/L AS K)	05/28/92-10/17/94	9	4.5	4.589	5.	4.3	0.051	0.226	4.3	4.45	4.75	5.
00940	CHLORIDE,TOTAL IN WATER MG/L	05/28/92-10/17/94	9	47.	47.667	51.	46.	2.	1.414	46.	47.	48.	51.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/28/92-10/17/94	9	45.	44.111	50.	35.	29.111	5.395	35.	39.	49.5	50.
00951	FLUORIDE, TOTAL (MG/L AS F)	05/28/92-10/17/94	9	0.18	0.187	0.24	0.15	0.001	0.025	0.15	0.175	0.2	0.24
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/04/93-02/18/94	3	17.8	17.833	18.6	17.1	0.563	0.751	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/28/92-10/17/94	9	10.	10.222	11.	9.	0.694	0.833	9.	9.5	11.	11.
01012	BERYLLIUM, TOTAL (UG/L AS BE)	05/28/92-10/17/94	9 ##	2.5	2.389	2.5	2.	0.049	0.22	2.	2.25	2.5	2.5
01027	CADMIUM, TOTAL (UG/L AS CD)	05/28/92-10/17/94	9 ##	0.25	0.278	0.5	0.25	0.007	0.083	0.25	0.25	0.25	0.5
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/28/92-10/17/94	9 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01042	COPPER, TOTAL (UG/L AS CU)	05/28/92-10/17/94	9 ##	5.	6.111	15.	5.	11.111	3.333	5.	5.	5.	15.
01051	LEAD, TOTAL (UG/L AS PB)	05/28/92-10/17/94	9 ##	1.	1.333	3.	1.	0.5	0.707	1.	1.	1.5	3.
01059	THALLIUM, TOTAL (UG/L AS TL)	05/28/92-10/17/94	9 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
01067	NICKEL, TOTAL (UG/L AS NI)	05/28/92-10/17/94	9 ##	10.	10.	10.	10.	0.	0.	10.	10.	10.	10.
01077	SILVER, TOTAL (UG/L AS AG)	05/28/92-10/17/94	9 ##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01092	ZINC, TOTAL (UG/L AS ZN)	05/28/92-10/17/94	9 ##	10.	17.444	50.	5.	227.778	15.092	5.	10.	25.	50.
01097	ANTIMONY, TOTAL (UG/L AS SB)	05/28/92-10/17/94	9 ##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01147	SELENIUM, TOTAL (UG/L AS SE)	05/28/92-10/17/94	9 ##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
01501	ALPHA, TOTAL	05/28/92-02/18/94	3 ##	2.	2.	3.	1.	1.	1.	**	**	**	**

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

Parameter Inventory for Station: GRCA0119

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01502	ALPHA, TOTAL, COUNTING ERROR	05/18/93-05/18/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
03501	BETA, TOTAL	05/28/92-02/18/94	3	4.	4.	5.	3.	1.	1.	**	**	**	**
03502	BETA, TOTAL, COUNTING ERROR	05/28/92-05/18/93	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
22708	URANIUM, NATURAL TOTAL MG/L	06/18/92-10/21/92	2 ##	0.002	0.002	0.003	0.001	0.	0.002	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/18/92-06/23/95	8	5.	12.313	41.	0.5	245.067	15.655	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/18/92-06/23/95	8	0.699	0.729	1.613	-0.301	0.415	0.644	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			5.355								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/18/92-06/23/95	9	17.	18.444	42.	5.	115.778	10.76	5.	11.	22.5	42.
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/18/92-06/23/95	9	1.23	1.198	1.623	0.699	0.072	0.269	0.699	1.025	1.347	1.623
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			15.773								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	05/28/92-06/23/95	10	385.	392.5	495.	360.	1395.833	37.361	361.	377.5	390.	484.5
71900	MERCURY, TOTAL (UG/L AS HG)	05/28/92-10/17/94	9 ##	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	05/28/92-06/23/95	10	4.95	6.77	19.5	1.5	33.453	5.784	1.58	2.45	9.15	18.99

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

EPA Water Quality Criteria Analysis for Station: GRCA0119

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	9	0	0.00	3	0	0.00	3	0	0.00	3	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	10	0	0.00	4	0	0.00	3	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	10	0	0.00	4	0	0.00	3	0	0.00	3	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	250.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	50.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	4.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	5.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	1300.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	15.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	100.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	5000.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	50.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
22708	URANIUM, NATURAL, TOTAL	Drinking Water	0.02	2	0	0.00	1	0	0.00	1	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	0	0.00	3	0	0.00	2	0	0.00	3	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
		Drinking Water	2.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	10	0	0.00	4	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: GRCA0120

NPS Station ID: GRCA0120
LAT/LON: 36.308337/-112.762505
Agency: 11TOX09
Date Created: 03/17/90
Location: HAVASU CREEK AB CFL COLORADO RIVER
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 000289
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010004
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 1760
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010004
RF1 Mile Point: 0.000
Distance from RF1: 1.00
On/Off RF1:
RF3 Index: 15010002001211.50
RF3 Mile Point: 11.50
Distance from RF3: 0.03
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0120

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/27/89-05/27/89	1	18.2	18.2	18.2	18.2	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/27/89-05/27/89	1	24.6	24.6	24.6	24.6	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/27/89-05/27/89	1	749.	749.	749.	749.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/27/89-05/27/89	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/27/89-05/27/89	1	8.24	8.24	8.24	8.24	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/27/89-05/27/89	1	8.24	8.24	8.24	8.24	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/27/89-05/27/89	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0120

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0121

NPS Station ID: GRCA0121
LAT/LON: 36.255003/-112.877504
Agency: 112WRD
Date Created: 04/01/95
Location: B-36-06 24 UNSURV
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 361518112523901
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: U
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0121

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/95-01/06/95	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/06/95-01/06/95	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	01/06/95-01/06/95	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/06/95-01/06/95	1	1870.	1870.	1870.	1870.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/06/95-01/06/95	1	8.19	8.19	8.19	8.19	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/06/95-01/06/95	1	8.19	8.19	8.19	8.19	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/95-01/06/95	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0121

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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: GRCA0122

NPS Station ID: GRCA0122 LAT/LON: 36.255003/-112.877504 Agency: 112WRD Date Created: 10/10/92
Location: NATIONAL CANYON ABV MOUTH AT RM 166.5 IN HUALAPA FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 361518112523900
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 1.80 On/Off RF1:
RF3 Index: 15010002000409.09 RF3 Mile Point: 9.09 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0122

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/10/90-04/01/92	3	13.	16.	22.	13.	27.	5.196	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/01/92-04/01/92	1	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	05/10/90-04/01/92	3	730.	723.667	733.	708.	186.333	13.65	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/10/90-04/01/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/31/92-03/31/92	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/10/90-04/01/92	3	1744.	1809.333	1940.	1744.	12805.333	113.161	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/10/90-04/01/92	3	9.9	9.267	9.9	8.	1.203	1.097	**	**	**	**
00400	PH (STANDARD UNITS)	05/10/90-04/01/92	3	8.32	8.23	8.32	8.05	0.024	0.156	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/10/90-04/01/92	3	8.32	8.21	8.32	8.05	0.025	0.158	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/10/90-04/01/92	3	0.005	0.006	0.009	0.005	0.	0.002	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/10/90-04/01/92	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/10/90-04/01/92	2	108.	108.	113.	103.	50.	7.071	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/10/90-05/10/90	1	92.	92.	92.	92.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/10/90-04/01/92	2	88.5	88.5	93.	84.	40.5	6.364	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0122

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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						
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00				3	0	0.00						
00400	PH	Other-Hi Lim.	9.	3	0	0.00				3	0	0.00						
		Other-Lo Lim.	6.5	3	0	0.00				3	0	0.00						

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

Station Inventory for Station: GRCA0123

NPS Station ID: GRCA0123 LAT/LON: 36.254477/-112.885892 Agency: 11NPSWRD Date Created: 02/03/96
Location: COLORADO RIVER CONFLUENCE WITH NATIONAL CANYON FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): GRCA_NATI002
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
COLORADO RIVER CONFLUENCE WITH NATIONAL CANYON. SITE IS LOCATED ON THE FERN GLEN CANYON USGS 7.5 QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0123

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/92-06/23/95	9	18.	20.289	29.	8.	50.619	7.115	8.	15.45	27.5	29.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/19/92-06/23/95	9	23.	23.889	36.	8.	104.486	10.222	8.	14.5	33.25	36.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/19/92-06/23/95	9	0.3	0.248	0.4	0.03	0.014	0.116	0.03	0.15	0.3	0.4
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/19/92-06/23/95	9	1880.	1662.111	2100.	203.	381301.861	617.496	203.	1443.	2050.	2100.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/19/92-06/23/95	8	8.5	8.588	10.6	6.8	1.578	1.256	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/19/92-06/23/95	8	100.5	101.75	120.	90.	76.214	8.73	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/19/92-06/23/95	9	8.2	8.128	8.55	7.35	0.123	0.351	7.35	7.97	8.37	8.55
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/19/92-06/23/95	9	8.2	7.966	8.55	7.35	0.152	0.39	7.35	7.97	8.37	8.55
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/92-06/23/95	9	0.006	0.011	0.045	0.003	0.	0.013	0.003	0.004	0.011	0.045
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/19/92-06/23/95	9	68.	72.444	136.	28.	855.778	29.254	28.	61.	82.	136.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/19/92-07/09/94	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/19/92-07/09/94	7 ##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/19/92-07/09/94	7 ##	0.1	0.171	0.4	0.1	0.016	0.125	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/19/92-07/09/94	7 ##	0.03	0.101	0.38	0.03	0.018	0.135	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/19/92-07/09/94	7 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/19/92-07/09/94	7	328.	329.286	353.	294.	369.238	19.216	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/19/92-07/09/94	7	103.	104.6	117.	88.8	133.297	11.545	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/19/92-07/09/94	7	22.3	22.186	27.9	14.6	16.378	4.047	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/19/92-07/09/94	7	8.	7.943	8.8	6.9	0.403	0.635	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/19/92-07/09/94	7	23.	21.714	26.	15.	14.571	3.817	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/19/92-07/09/94	7	1100.	1114.286	1300.	1000.	8095.238	89.974	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/19/92-07/09/94	7	0.49	0.48	0.58	0.38	0.005	0.072	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/05/93-05/10/94	4	12.5	12.575	14.6	10.7	3.502	1.871	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/19/92-07/09/94	7 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/19/92-07/09/94	7 ##	2.5	2.357	2.5	2.	0.06	0.244	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/19/92-07/09/94	7 ##	0.25	0.286	0.5	0.25	0.009	0.094	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/19/92-07/09/94	7 ##	5.	5.714	10.	5.	3.571	1.89	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/19/92-07/09/94	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/19/92-07/09/94	7 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/19/92-07/09/94	7 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/19/92-07/09/94	7 ##	10.	12.286	26.	10.	36.571	6.047	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/19/92-07/09/94	7 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/19/92-07/09/94	7 ##	10.	15.857	35.	5.	141.81	11.908	**	**	**	**

** - Less than 9 observations ## - 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: GRCA0123

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/19/92-07/09/94	7 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/19/92-07/09/94	7 ##	2.5	3.5	7.	2.5	3.25	1.803	**	**	**	**
01501	ALPHA, TOTAL	06/19/92-10/22/92	2 ##	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	10/22/92-10/22/92	1	3.	3.	3.	3.	0.	0.	**	**	**	**
03501	BETA, TOTAL	06/19/92-10/22/92	2	7.5	7.5	8.	7.	0.5	0.707	**	**	**	**
03502	BETA, TOTAL, COUNTING ERROR	06/19/92-10/22/92	2	3.	3.	3.	3.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/92-06/23/95	8	3.5	12.313	46.	0.5	305.567	17.48	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/92-06/23/95	8	0.54	0.55	1.663	-0.301	0.657	0.811	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.547								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/19/92-06/23/95	7	18.	47.143	154.	2.	2919.476	54.032	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/19/92-06/23/95	7	1.255	1.377	2.188	0.301	0.381	0.617	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			23.841								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/19/92-06/23/95	8	1750.	1771.125	2100.	1269.	63612.982	252.216	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/19/92-07/09/94	7 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/19/92-06/23/95	9	0.5	0.811	1.4	0.4	0.189	0.434	0.4	0.45	1.3	1.4

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

EPA Water Quality Criteria Analysis for Station: GRCA0123

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	8	0	0.00	3	0	0.00	2	0	0.00	3	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	9	0	0.00	4	0	0.00	2	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	9	0	0.00	4	0	0.00	2	0	0.00	3	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	250.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	7	7	1.00	3	3	1.00	2	2	1.00	2	2	1.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	4.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	1300.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	15.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	100.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	5000.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	50.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	0	0.00	3	0	0.00	2	0	0.00	3	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
		Drinking Water	2.	7	0	0.00	3	0	0.00	2	0	0.00	2	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	9	0	0.00	4	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: GRCA0124

NPS Station ID: GRCA0124 LAT/LON: 36.259726/-112.890004 Agency: 112WRD Date Created: 02/17/90
Location: COLORADO R ABV NATIONAL CANYON NR SUPAI FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 09404120
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 14070006000200.00 RF3 Mile Point: 0.00 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0124

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/07/89-10/11/89	5	248.	253.4	274.	248.	132.8	11.524	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/89-03/30/92	266	12.	11.998	12.5	11.	0.005	0.069	12.	12.	12.	12.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/07/89-03/30/92	5	24.	22.1	26.	16.5	14.55	3.814	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	10/07/89-03/30/92	6	724.	724.167	729.	721.	6.967	2.639	**	**	**	**
00056	FLOW, RATE GALLONS/DAY	10/09/89-10/12/89	7	100.	99.714	100.	99.	0.238	0.488	**	**	**	**
00058	FLOW, RATE GALLONS/MIN	10/09/89-10/12/89	11	98.9	98.609	99.9	96.9	0.735	0.857	97.	98.3	99.2	99.78
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/09/89-10/12/89	27	89.4	89.959	96.3	81.8	16.806	4.1	84.08	86.8	93.6	95.7
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/89-10/12/89	260	5880.	6828.288	12100.	5660.	3926172.059	1981.457	5841.	5880.	5880.	11100.
00065	STAGE, STREAM (FEET)	10/07/89-10/12/89	11	34.7	35.799	38.92	34.65	3.446	1.856	34.654	34.67	38.27	38.904
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/07/89-10/11/89	5	1.	1.1	2.1	0.5	0.365	0.604	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	03/30/92-03/30/92	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	03/30/92-03/30/92	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/89-03/30/92	6	970.	954.333	1031.	820.	5054.667	71.096	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/07/89-03/30/92	10	10.	10.07	10.6	9.8	0.065	0.254	9.8	9.875	10.225	10.57
00400	PH (STANDARD UNITS)	10/07/89-03/30/92	6	8.425	8.433	8.5	8.38	0.003	0.05	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/07/89-03/30/92	6	8.424	8.431	8.5	8.38	0.003	0.051	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/89-03/30/92	6	0.004	0.004	0.004	0.003	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/07/89-10/11/89	5	8.3	8.28	8.3	8.2	0.002	0.045	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/07/89-10/11/89	5	8.3	8.278	8.3	8.2	0.002	0.045	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/89-10/11/89	5	0.005	0.005	0.006	0.005	0.	0.001	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/07/89-10/11/89	5	5.	5.2	6.	4.	0.7	0.837	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/07/89-10/11/89	5	177.	175.8	178.	170.	11.2	3.347	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/07/89-10/11/89	5	0.02	0.023	0.05	0.005	0.	0.018	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/89-10/11/89	5	0.02	0.018	0.03	0.01	0.	0.008	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/07/89-10/11/89	5 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/89-10/11/89	5	0.3	0.32	0.4	0.2	0.007	0.084	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/89-10/11/89	5	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/07/89-10/11/89	5	0.3	0.34	0.4	0.3	0.003	0.055	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/89-10/11/89	5 ##	0.005	0.008	0.02	0.005	0.	0.007	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/07/89-10/11/89	5 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/07/89-10/11/89	5 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/08/89-10/11/89	4	2.75	2.85	3.3	2.6	0.097	0.311	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/07/89-10/11/89	5	69.	68.8	69.	68.	0.2	0.447	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/89-10/11/89	5	25.	25.	25.	25.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/07/89-10/11/89	5	93.	90.2	95.	78.	48.7	6.979	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/07/89-10/11/89	5	3.4	3.44	3.5	3.4	0.003	0.055	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/07/89-10/11/89	5	86.	83.4	93.	64.	129.8	11.393	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/89-10/11/89	5	210.	214.	220.	210.	30.	5.477	**	**	**	**

** - Less than 9 observations ## - 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: GRCA0124

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/07/89-10/11/89	5	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/07/89-10/11/89	5	8.2	8.24	8.4	8.1	0.023	0.152	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	10/07/89-10/11/89	5	152.	150.8	153.	148.	4.7	2.168	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/07/89-10/11/89	5	152.	152.2	155.	149.	5.7	2.387	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/07/89-10/11/89	5	583.	582.6	618.	560.	547.3	23.394	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/07/89-10/12/89	4	70.	68.75	77.	58.	78.917	8.884	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/07/89-10/11/89	5	0.01	0.01	0.02	0.005	0.	0.006	**	**	**	**
71100	SESTON, TOTAL - MG/L	10/09/89-10/12/89	27	28.9	31.189	53.5	20.1	89.073	9.438	20.36	24.6	37.5	46.74
72008	DEPTH, TOTAL OF WELL (FT BELOW LAND SURFACE DATUM)	10/09/89-10/12/89	3	0.	0.067	0.2	0.	0.013	0.115	**	**	**	**
72051	WITHDRAWAL OF GROUNDWATER (MILLIONS OF GALS/YR)	10/09/89-10/12/89	27	0.2	0.27	0.7	0.	0.041	0.202	0.08	0.1	0.4	0.7
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/89-10/12/89	4	7.	6.5	7.	5.	1.	1.	**	**	**	**
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	10/08/89-10/11/89	12	0.	0.85	9.	0.	6.668	2.582	0.	0.	0.1	6.6
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	10/08/89-10/11/89	15	0.2	4.493	49.	0.	166.059	12.886	0.	0.1	0.4	28.6
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	10/08/89-10/11/89	15	6.	16.667	97.	2.	766.238	27.681	2.6	4.	12.	80.2
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	10/08/89-10/11/89	15	72.	74.667	100.	41.	266.238	16.317	48.2	65.	85.	100.
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	10/08/89-10/11/89	14	96.	91.	100.	51.	164.	12.806	64.5	90.25	97.	99.5
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/08/89-10/11/89	13	99.	93.077	100.	51.	191.244	13.829	62.2	95.	99.	100.
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	10/08/89-10/11/89	13	100.	94.077	100.	53.	182.91	13.524	63.8	96.	100.	100.
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	10/08/89-10/11/89	12	100.	95.417	100.	68.	101.174	10.059	72.2	96.75	100.	100.
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	10/08/89-10/11/89	4	100.	100.	100.	100.	0.	0.	**	**	**	**
80226	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .062MM	10/09/89-10/12/89	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
80227	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .125MM	10/09/89-10/12/89	29	0.1	0.076	0.2	0.	0.004	0.064	0.	0.	0.1	0.2
80228	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .250MM	10/09/89-10/12/89	31	3.	2.903	8.	1.	2.224	1.491	1.	2.	4.	4.8
80229	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN .500MM	10/09/89-10/12/89	31	70.	70.129	88.	56.	83.783	9.153	56.8	63.	78.	84.8
80230	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 1.00MM	10/09/89-10/12/89	31	96.	95.452	99.	89.	6.589	2.567	91.	94.	97.	98.8
80231	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 2.00MM	10/09/89-10/12/89	31	99.	98.968	100.	97.	0.699	0.836	97.2	99.	99.	100.
80232	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 4.00MM	10/09/89-10/12/89	30	100.	99.933	100.	99.	0.064	0.254	100.	100.	100.	100.
80233	BEDLOAD SEDIMENT SIEVE DIAM, % FINER THAN 8.00MM	10/09/89-10/12/89	17	100.	100.	100.	100.	0.	0.	100.	100.	100.	100.

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

EPA Water Quality Criteria Analysis for Station: GRCA0124

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	5	0	0.00	5	0	0.00									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	10	0	0.00	9	0	0.00	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	6	0	0.00	5	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	6	0	0.00	5	0	0.00	1	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	5	0	0.00	5	0	0.00									
		Other-Lo Lim.	6.5	5	0	0.00	5	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	5	0	0.00	5	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00	5	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	5	0	0.00	5	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	5	0	0.00	5	0	0.00									
		Drinking Water	250.	5	0	0.00	5	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	5	0	0.00	5	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	5	0	0.00	5	0	0.00									

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

Station Inventory for Station: GRCA0125

NPS Station ID: GRCA0125 LAT/LON: 36.261949/-112.917504 Agency: 112WRD Date Created: 02/28/78
Location: RM168.0, GCNP: SPRING AT FERN GLEN CANYON FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): 361543112550300
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 5.20 On/Off RF1:
RF3 Index: 15010002040700.00 RF3 Mile Point: 1.91 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0125

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/08/76-05/08/76	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/08/76-05/08/76	1	1830.	1830.	1830.	1830.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/08/76-05/08/76	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/08/76-05/08/76	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/08/76-05/08/76	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
09511	RADIUM 226, DISSOLVED, RADON METHOD	05/08/76-05/08/76	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/08/76-05/08/76	1	3.6	3.6	3.6	3.6	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: GRCA0125

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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: GRCA0126

NPS Station ID: GRCA0126 | LAT/LON: 36.262616/-112.920199 | Agency: 11NPSWRD | Date Created: 02/03/96
Location: FERN GLEN | FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): GRCA_FERNGLEN
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 0 | Water Body Id:
Minor Basin: LITTLE COLORADO RIVER | ECO Region:
RF1 Index: 15010002 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:
FERN GLEN IS LOCATED ON THE TUCKUP CANYON 15 MINUTE USGS QUADRANGLE.
STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0126

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/05/95-08/05/95	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/05/95-08/05/95	1	37.5	37.5	37.5	37.5	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/05/95-08/05/95	1	1506.	1506.	1506.	1506.	0.	0.	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	08/05/95-08/05/95	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/05/95-08/05/95	1	82.	82.	82.	82.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/05/95-08/05/95	1	8.48	8.48	8.48	8.48	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/05/95-08/05/95	1	8.48	8.48	8.48	8.48	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/05/95-08/05/95	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/05/95-08/05/95	1	122.	122.	122.	122.	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	08/05/95-08/05/95	1	1014.	1014.	1014.	1014.	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	08/05/95-08/05/95	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0126

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: GRCA0127

NPS Station ID: GRCA0127
LAT/LON: 36.226670/-112.967227
Agency: 112WRD
Date Created: 05/07/94
Location: Mohawk Canyon abv mouth at RM 171.5
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 361336112580200
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0127

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	04/23/93-04/23/93	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/23/93-04/23/93	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/93-04/23/93	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	04/23/93-04/23/93	1	715.	715.	715.	715.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/23/93-04/23/93	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/23/93-04/23/93	1	2120.	2120.	2120.	2120.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/23/93-04/23/93	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	04/23/93-04/23/93	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/23/93-04/23/93	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/23/93-04/23/93	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	04/23/93-04/23/93	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	04/23/93-04/23/93	1	140.	140.	140.	140.	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	04/23/93-04/23/93	1	116.	116.	116.	116.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	04/23/93-04/23/93	1	115.	115.	115.	115.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0127

				Total	Exceed	Prop.	----------10/01-3/14----------			----------3/15-6/19----------			----------6/20-9/30----------			--------------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.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0128

NPS Station ID: GRCA0128
LAT/LON: 36.219448/-112.967781
Agency: 112WRD
Date Created: 04/01/95
Location: B-33-06 30 UNSURV
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 361310112580400
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: U
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0128

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/06/95-01/06/95	1	9.5	9.5	9.5	9.5	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/06/95-01/06/95	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	01/06/95-01/06/95	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/06/95-01/06/95	1	2330.	2330.	2330.	2330.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/06/95-01/06/95	1	8.02	8.02	8.02	8.02	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/06/95-01/06/95	1	8.02	8.02	8.02	8.02	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/06/95-01/06/95	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0128

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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: GRCA0129

NPS Station ID: GRCA0129
LAT/LON: 36.229170/-113.054726
Agency: 112WRD
Date Created: 02/28/78
Location: B-33-07 28C UNSURV
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 361345113031701
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 2.40
On/Off RF1:
RF3 Index: 15010005036300.00
RF3 Mile Point: 12.92
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0129

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/09/76-08/09/76	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/09/76-08/09/76	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/76-08/09/76	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/76-08/09/76	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/76-08/09/76	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/09/76-08/09/76	1	4.8	4.8	4.8	4.8	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/76-08/09/76	1	244.	244.	244.	244.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/09/76-08/09/76	1	297.	297.	297.	297.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/09/76-08/09/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/09/76-08/09/76	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/09/76-08/09/76	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/09/76-08/09/76	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/09/76-08/09/76	1	290.	290.	290.	290.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/09/76-08/09/76	1	45.	45.	45.	45.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/76-08/09/76	1	53.	53.	53.	53.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/76-08/09/76	1	38.	38.	38.	38.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/09/76-08/09/76	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/09/76-08/09/76	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/09/76-08/09/76	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/09/76-08/09/76	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/09/76-08/09/76	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/09/76-08/09/76	1	58.	58.	58.	58.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/76-08/09/76	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/76-08/09/76	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/09/76-08/09/76	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/09/76-08/09/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/09/76-08/09/76	1	324.	324.	324.	324.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/09/76-08/09/76	1	335.	335.	335.	335.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/09/76-08/09/76	1	0.44	0.44	0.44	0.44	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0129

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
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: GRCA0130

NPS Station ID: GRCA0130
LAT/LON: 36.197753/-113.082115
Agency: 11NPSWRD
Date Created: 02/03/96
Location: WARM SPRINGS
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): GRCA_COLO003
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
WARM SPRINGS. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0130

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/19/92-10/23/95	8	25.	25.063	26.	23.5	0.674	0.821	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/19/92-06/24/95	7	29.5	26.357	41.	13.	108.143	10.399	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	07/05/93-10/14/93	2	0.3	0.3	0.5	0.1	0.08	0.283	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/19/92-06/24/95	7	1428.	1416.143	1441.	1385.	567.81	23.829	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/19/92-06/24/95	6	6.7	6.7	7.9	5.7	0.656	0.81	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/19/92-06/24/95	6	90.	88.667	105.	76.	122.667	11.075	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/19/92-06/24/95	7	7.18	7.076	7.45	6.71	0.071	0.267	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/19/92-06/24/95	7	7.18	7.003	7.45	6.71	0.078	0.278	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/19/92-06/24/95	7	0.066	0.099	0.195	0.035	0.004	0.064	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/19/92-06/24/95	7	646.	903.143	2650.	500.	597697.143	773.109	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/05/93-10/18/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/19/92-10/18/94	6 ##	0.015	0.155	0.85	0.015	0.116	0.34	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/05/93-10/18/94	4 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/05/93-10/18/94	4	0.81	0.808	0.84	0.77	0.001	0.038	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/19/92-10/22/92	2	0.085	0.085	0.1	0.07	0.	0.021	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/05/93-10/18/94	4 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/22/92-10/22/92	1	646.	646.	646.	646.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/22/92-10/18/94	5	160.	201.	410.	126.	13919.	117.979	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/22/92-10/18/94	5	59.5	86.9	200.	57.5	3998.345	63.232	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	07/05/93-10/18/94	4	76.15	76.175	77.7	74.7	1.503	1.226	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	07/05/93-10/18/94	4	6.35	6.4	6.7	6.2	0.047	0.216	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/22/92-10/18/94	5	83.	66.65	85.	0.25	1379.988	37.148	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/22/92-10/18/94	5	31.	31.2	32.	31.	0.2	0.447	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	07/05/93-10/18/94	4	0.19	0.195	0.23	0.17	0.001	0.026	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/05/93-10/14/93	2	17.55	17.55	18.2	16.9	0.845	0.919	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	07/05/93-10/18/94	4	12.5	12.25	13.	11.	0.917	0.957	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	07/05/93-10/18/94	4 ##	2.25	2.25	2.5	2.	0.083	0.289	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/05/93-10/18/94	4 ##	0.25	0.313	0.5	0.25	0.016	0.125	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/05/93-10/18/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/05/93-10/18/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/05/93-10/18/94	4 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	07/05/93-10/18/94	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/05/93-10/18/94	4 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	07/05/93-10/18/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/05/93-10/18/94	4 ##	10.	12.5	20.	10.	25.	5.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	07/05/93-10/18/94	4 ##	25.	25.	25.	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

Parameter Inventory for Station: GRCA0130

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01147	SELENIUM, TOTAL (UG/L AS SE)	07/05/93-10/18/94	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/92-10/23/95	8	4.	6.125	22.	0.5	50.339	7.095	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/19/92-10/23/95	8	0.588	0.512	1.342	-0.301	0.332	0.576	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			3.248								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/19/92-10/23/95	7	25.	26.714	45.	10.	137.571	11.729	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/19/92-10/23/95	7	1.398	1.385	1.653	1.	0.046	0.215	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			24.286								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/05/93-06/24/95	5	820.	852.4	972.	810.	4588.8	67.741	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/19/92-10/22/92	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/05/93-10/18/94	4 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/19/92-06/24/95	7	0.7	0.743	1.4	0.3	0.14	0.374	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRCA0130

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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			
00406	PH, FIELD	Other-Hi Lim.	9.	7	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	3	0	0.00	1	0	0.00	3	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	2	0	0.00				2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	5	0	0.00	3	0	0.00				2	0	0.00			
		Drinking Water	250.	5	0	0.00	3	0	0.00				2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	5	0	0.00	3	0	0.00				2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	4	0	0.00	2	0	0.00				2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	50.	4	0	0.00	2	0	0.00				2	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	4.	4	0	0.00	2	0	0.00				2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	5.	4	0	0.00	2	0	0.00				2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00	2	0	0.00				2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	1300.	4	0	0.00	2	0	0.00				2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	15.	4	0	0.00	2	0	0.00				2	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	100.	4	0	0.00	2	0	0.00				2	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	4	0	0.00	2	0	0.00				2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	5000.	4	0	0.00	2	0	0.00				2	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	50.	4	0	0.00	2	0	0.00				2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00	1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	2.	4	0	0.00	2	0	0.00				2	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	7	0	0.00	3	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: GRCA0131

NPS Station ID: GRCA0131
LAT/LON: 36.196670/-113.083059
Agency: 112WRD
Date Created: 03/26/94
Location: B-33-08 31 UNSURV
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 361148113045900
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: U
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0131

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/09/76-01/07/95	7	25.5	25.086	26.	23.8	0.755	0.869	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/02/91-01/07/95	5	19.	18.8	30.	8.5	92.075	9.596	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	01/23/92-01/23/92	1	730.	730.	730.	730.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/11/90-01/07/95	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/09/76-01/07/95	7	1405.	1399.571	1500.	1265.	7009.619	83.723	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	01/23/92-01/23/92	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/09/76-01/07/95	6	7.33	7.303	7.46	7.1	0.018	0.133	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/09/76-01/07/95	6	7.33	7.286	7.46	7.1	0.018	0.134	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/09/76-01/07/95	6	0.047	0.052	0.079	0.035	0.	0.017	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	01/23/92-10/10/93	2	7.3	7.3	7.5	7.1	0.08	0.283	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	01/23/92-10/10/93	2	7.255	7.255	7.5	7.1	0.084	0.29	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/23/92-10/10/93	2	0.056	0.056	0.079	0.032	0.001	0.034	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/23/92-01/23/92	1	695.	695.	695.	695.	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	04/11/90-10/10/93	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	04/11/90-10/10/93	4	825.	828.5	857.	807.	529.	23.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/10/93-10/10/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	10/10/93-10/10/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/10/93-10/10/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/10/93-10/10/93	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/10/93-10/10/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/10/93-10/10/93	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/10/93-10/10/93	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/23/92-10/10/93	2	150.	150.	160.	140.	200.	14.142	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/23/92-10/10/93	2	58.	58.	59.	57.	2.	1.414	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	01/23/92-10/10/93	2	74.5	74.5	75.	74.	0.5	0.707	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/23/92-10/10/93	2	6.8	6.8	7.2	6.4	0.32	0.566	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/23/92-10/10/93	2	86.5	86.5	90.	83.	24.5	4.95	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	01/23/92-10/10/93	2	33.5	33.5	35.	32.	4.5	2.121	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/23/92-10/10/93	2	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/23/92-10/10/93	2	14.	14.	16.	12.	8.	2.828	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/10/93-10/10/93	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/09/76-10/10/93	2	205.	205.	210.	200.	50.	7.071	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/09/76-10/10/93	2 ##	1.375	1.375	2.5	0.25	2.531	1.591	**	**	**	**
01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/09/76-05/09/76	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/09/76-10/10/93	3	1000.	850.	1000.	550.	67500.	259.808	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/09/76-10/10/93	2 ##	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/09/76-10/10/93	2 ##	6.25	6.25	10.	2.5	28.125	5.303	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/09/76-10/10/93	2 ##	5.75	5.75	10.	1.5	36.125	6.01	**	**	**	**

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Parameter Inventory for Station: GRCA0131

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01040	COPPER, DISSOLVED (UG/L AS CU)	05/09/76-10/10/93	2 ##	3.75	3.75	5.	2.5	3.125	1.768	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/09/76-10/10/93	3 ##	1.5	7.667	20.	1.5	114.083	10.681	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/09/76-10/10/93	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/09/76-10/10/93	3 ##	0.5	3.667	10.	0.5	30.083	5.485	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/09/76-10/10/93	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/09/76-10/10/93	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/09/76-10/10/93	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/09/76-10/10/93	2	405.	405.	420.	390.	450.	21.213	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/09/76-10/10/93	2 ##	6.	6.	7.	5.	2.	1.414	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/09/76-10/10/93	2 ##	3.5	3.5	7.	0.	24.5	4.95	**	**	**	**
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	10/10/93-10/10/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01100	TIN, DISSOLVED (UG/L AS SN)	05/09/76-05/09/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/09/76-05/09/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/09/76-05/09/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/09/76-05/09/76	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/09/76-10/10/93	2	230.	230.	230.	230.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/10/93-10/10/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/09/76-05/09/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/09/76-05/09/76	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/10/93-10/10/93	1	13.	13.	13.	13.	0.	0.	**	**	**	**
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	10/10/93-10/10/93	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	10/10/93-10/10/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
09511	RADIUM 226, DISSOLVED, RADON METHOD	05/09/76-05/09/76	1	0.36	0.36	0.36	0.36	0.	0.	**	**	**	**
22603	URANIUM 238, DISSOLVED, PC/L	10/10/93-10/10/93	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
22610	URANIUM 234, DISSOLVED, PC/L	10/10/93-10/10/93	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
22620	URANIUM 235, DISSOLVED. PC/L	10/10/93-10/10/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/10/93-10/10/93	1	5.	5.	5.	5.	0.	0.	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	06/02/91-06/02/91	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	06/02/91-06/02/91	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			2.								
31648	E. COLI - MTEC-MF N0/100ML	06/02/91-06/02/91	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31648	LOG E. COLI - MTEC-MF N0/1	06/02/91-06/02/91	1 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31648	GM E. COLI - MTEC-MF N0/10	GEOMETRIC MEAN =			0.5								
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	07/14/91-01/23/92	2	687.5	687.5	702.	673.	420.5	20.506	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	04/11/90-10/10/93	4	676.	678.75	702.	661.	356.917	18.892	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/10/93-10/10/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	10/10/93-10/10/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	10/10/93-10/10/93	1	2.43	2.43	2.43	2.43	0.	0.	**	**	**	**
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	10/10/93-10/10/93	1	1.71	1.71	1.71	1.71	0.	0.	**	**	**	**
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	10/10/93-10/10/93	1	2.58	2.58	2.58	2.58	0.	0.	**	**	**	**
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	10/10/93-10/10/93	1	3.46	3.46	3.46	3.46	0.	0.	**	**	**	**
75991	URANIUM 238,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	10/10/93-10/10/93	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
75992	URANIUM 234,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	10/10/93-10/10/93	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
75994	URANIUM 235,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	10/10/93-10/10/93	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	10/10/93-10/10/93	1	80.	80.	80.	80.	0.	0.	**	**	**	**
80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/09/76-05/09/76	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/10/93-10/10/93	1	13.	13.	13.	13.	0.	0.	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/10/93-10/10/93	1	9.5	9.5	9.5	9.5	0.	0.	**	**	**	**
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	10/10/93-10/10/93	1	-81.3	-81.3	-81.3	-81.3	0.	0.	**	**	**	**
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	10/10/93-10/10/93	1	-11.18	-11.18	-11.18	-11.18	0.	0.	**	**	**	**
82303	RADON 222, TOTAL IN WATER PC/L	10/10/93-10/10/93	1	420.	420.	420.	420.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0131

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: GRCA0131

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Other-Hi Lim.	9.	2	0	0.00	2	0	0.00									
		Other-Lo Lim.	6.5	2	0	0.00	2	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	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.	2	0	0.00	2	0	0.00									
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	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.	2	0	0.00	1	0	0.00	1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	5.	2	0	0.00	1	0	0.00	1	0	0.00						
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	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	1300.	2	0	0.00	1	0	0.00	1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	15.	2	0	0.00	1	0	0.00	1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
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						
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	0	0.00	1	0	0.00									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
07000	TRITIUM, TOTAL	Drinking Water	20000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	0	0.00				1	0	0.00						
31648	E. COLI, MTEC, MF	Other-Hi Lim.	126.	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: GRCA0132

NPS Station ID: GRCA0132
LAT/LON: 36.194170/-113.083059
Agency: 112WRD
Date Created: 02/28/78
Location: RM179.3, GCNP: LAVA WARM SPRINGS
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 361139113045900
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 15020016003100.00
RF3 Mile Point: 1.04
Distance from RF3: 1.05
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0132

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/09/76-05/09/76	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/09/76-05/09/76	1	1340.	1340.	1340.	1340.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/09/76-05/09/76	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/09/76-05/09/76	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/09/76-05/09/76	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/09/76-05/09/76	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/09/76-05/09/76	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/09/76-05/09/76	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/09/76-05/09/76	1	550.	550.	550.	550.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/09/76-05/09/76	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/09/76-05/09/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/09/76-05/09/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/09/76-05/09/76	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/09/76-05/09/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/09/76-05/09/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/09/76-05/09/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/09/76-05/09/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/09/76-05/09/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/09/76-05/09/76	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/09/76-05/09/76	1	390.	390.	390.	390.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/09/76-05/09/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/09/76-05/09/76	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01100	TIN, DISSOLVED (UG/L AS SN)	05/09/76-05/09/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/09/76-05/09/76	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/09/76-05/09/76	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/09/76-05/09/76	1 ##	20.	20.	20.	20.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/09/76-05/09/76	1	230.	230.	230.	230.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/09/76-05/09/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/09/76-05/09/76	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
09511	RADIUM 226, DISSOLVED, RADON METHOD	05/09/76-05/09/76	1	0.36	0.36	0.36	0.36	0.	0.	**	**	**	**
80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/09/76-05/09/76	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: GRCA0132

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0133

NPS Station ID: GRCA0133
LAT/LON: 36.173615/-113.119727
Agency: 112WRD
Date Created: 10/10/92
Location: B-32-08 10 UNSURV
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 361025113071100
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: C
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 13.20
On/Off RF1:
RF3 Index: 15020016051000.00
RF3 Mile Point: 0.38
Distance from RF3: 0.19
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0133

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/23/92-01/23/92	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/23/92-01/23/92	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	01/23/92-01/23/92	1	730.	730.	730.	730.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/92-01/23/92	1	790.	790.	790.	790.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	01/23/92-01/23/92	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/23/92-01/23/92	1	6.75	6.75	6.75	6.75	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/23/92-01/23/92	1	6.75	6.75	6.75	6.75	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/23/92-01/23/92	1	0.178	0.178	0.178	0.178	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	01/23/92-01/23/92	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	01/23/92-01/23/92	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/23/92-01/23/92	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/23/92-01/23/92	1	631.	631.	631.	631.	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	01/23/92-01/23/92	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	01/23/92-01/23/92	1	776.	776.	776.	776.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/23/92-01/23/92	1	150.	150.	150.	150.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/23/92-01/23/92	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	01/23/92-01/23/92	1	75.	75.	75.	75.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/23/92-01/23/92	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/23/92-01/23/92	1	92.	92.	92.	92.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	01/23/92-01/23/92	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/23/92-01/23/92	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/23/92-01/23/92	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	01/23/92-01/23/92	1	920.	920.	920.	920.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/23/92-01/23/92	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/23/92-01/23/92	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	01/23/92-01/23/92	1	636.	636.	636.	636.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0133

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

& - 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: GRCA0133

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- 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	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: GRCA0134

NPS Station ID: GRCA0134
LAT/LON: 36.076392/-113.179726
Agency: 112WRD
Date Created: 05/07/94
Location: B-31-08 18BAD
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 360435113104700
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: N
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0134

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/20/93-05/20/93	1	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/20/93-05/20/93	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/20/93-05/20/93	1	964.	964.	964.	964.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/20/93-05/20/93	1	8.41	8.41	8.41	8.41	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/20/93-05/20/93	1	8.41	8.41	8.41	8.41	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/93-05/20/93	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/20/93-05/20/93	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/20/93-05/20/93	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/20/93-05/20/93	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/20/93-05/20/93	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/20/93-05/20/93	1	290.	290.	290.	290.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/20/93-05/20/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/20/93-05/20/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/20/93-05/20/93	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/20/93-05/20/93	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/20/93-05/20/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/20/93-05/20/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/20/93-05/20/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/20/93-05/20/93	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/20/93-05/20/93	1	66.	66.	66.	66.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/20/93-05/20/93	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/20/93-05/20/93	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/20/93-05/20/93	1	75.	75.	75.	75.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/20/93-05/20/93	1	190.	190.	190.	190.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/20/93-05/20/93	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/20/93-05/20/93	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/20/93-05/20/93	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/20/93-05/20/93	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/20/93-05/20/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/20/93-05/20/93	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/20/93-05/20/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/20/93-05/20/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/20/93-05/20/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/20/93-05/20/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/20/93-05/20/93	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/20/93-05/20/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/20/93-05/20/93	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/20/93-05/20/93	1	20.	20.	20.	20.	0.	0.	**	**	**	**

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Parameter Inventory for Station: GRCA0134

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/20/93-05/20/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/20/93-05/20/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/20/93-05/20/93	1	500.	500.	500.	500.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/20/93-05/20/93	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/20/93-05/20/93	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	05/20/93-05/20/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/20/93-05/20/93	1	17.	17.	17.	17.	0.	0.	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/20/93-05/20/93	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/20/93-05/20/93	1	12.	12.	12.	12.	0.	0.	**	**	**	**
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/20/93-05/20/93	1	13.	13.	13.	13.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/20/93-05/20/93	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/20/93-05/20/93	1	15.	15.	15.	15.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/20/93-05/20/93	1	254.	254.	254.	254.	0.	0.	**	**	**	**
75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/20/93-05/20/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/20/93-05/20/93	1	4.71	4.71	4.71	4.71	0.	0.	**	**	**	**
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/20/93-05/20/93	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/20/93-05/20/93	1	1.55	1.55	1.55	1.55	0.	0.	**	**	**	**
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/20/93-05/20/93	1	2.08	2.08	2.08	2.08	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/20/93-05/20/93	1	4.15	4.15	4.15	4.15	0.	0.	**	**	**	**
76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	05/20/93-05/20/93	1	37.	37.	37.	37.	0.	0.	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/20/93-05/20/93	1	19.	19.	19.	19.	0.	0.	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/20/93-05/20/93	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/20/93-05/20/93	1	-86.9	-86.9	-86.9	-86.9	0.	0.	**	**	**	**
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/20/93-05/20/93	1	-12.13	-12.13	-12.13	-12.13	0.	0.	**	**	**	**
82303	RADON 222, TOTAL IN WATER PC/L	05/20/93-05/20/93	1	687.	687.	687.	687.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0134

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						

& - 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: GRCA0134

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	1	0	0.00				1	0	0.00						
		Drinking Water	6.	1	0	0.00				1	0	0.00						
07000	TRITIUM, TOTAL	Drinking Water	20000.	1	0	0.00				1	0	0.00						
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00				1	0	0.00						
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRCA0135

NPS Station ID: GRCA0135
LAT/LON: 36.337226/-113.190281
Agency: 112WRD
Date Created: 02/28/78
Location: B-34-08 19ABC
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 362014113112501
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 2.60
On/Off RF1:
RF3 Index: 15010002060500.00
RF3 Mile Point: 0.13
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0135

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/76-08/10/76	1	18.5	18.5	18.5	18.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/07/51-08/10/76	2	448.	448.	451.	445.	18.	4.243	**	**	**	**
00400	PH (STANDARD UNITS)	08/10/76-08/10/76	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/10/76-08/10/76	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/10/76-08/10/76	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/10/76-08/10/76	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/07/51-08/10/76	2	178.	178.	180.	176.	8.	2.828	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	08/07/51-08/10/76	2	217.5	217.5	220.	215.	12.5	3.536	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	08/10/76-08/10/76	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/07/51-08/07/51	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/10/76-08/10/76	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/10/76-08/10/76	1	0.28	0.28	0.28	0.28	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/10/76-08/10/76	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/07/51-08/10/76	2	230.	230.	230.	230.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/07/51-08/10/76	2	50.5	50.5	51.	50.	0.5	0.707	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/07/51-08/10/76	2	61.5	61.5	63.	60.	4.5	2.121	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/07/51-08/10/76	2	18.5	18.5	20.	17.	4.5	2.121	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/10/76-08/10/76	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/10/76-08/10/76	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/07/51-08/10/76	2	8.	8.	10.	6.	8.	2.828	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/07/51-08/07/51	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/10/76-08/10/76	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/07/51-08/10/76	2	10.5	10.5	12.	9.	4.5	2.121	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/07/51-08/10/76	2	56.5	56.5	68.	45.	264.5	16.263	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/07/51-08/10/76	2	0.2	0.2	0.3	0.1	0.02	0.141	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/10/76-08/10/76	1	36.	36.	36.	36.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/10/76-08/10/76	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/10/76-08/10/76	1	110.	110.	110.	110.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/10/76-08/10/76	1	323.	323.	323.	323.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/10/76-08/10/76	1	326.	326.	326.	326.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/10/76-08/10/76	1	0.44	0.44	0.44	0.44	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/07/51-08/07/51	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
72008	DEPTH, TOTAL OF WELL (FT BELOW LAND SURFACE DATUM)	08/10/76-08/10/76	1	205.	205.	205.	205.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0135

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00							1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00							2	0	0.00			
		Drinking Water	250.	2	0	0.00							2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00							2	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00							2	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	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: GRCA0136

NPS Station ID: GRCA0136 LAT/LON: 35.884531/-113.306892 Agency: 11NPSWRD Date Created: 02/03/96
Location: COLORADO RIVER CONFL. WITH THREE SPRING CANYON FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): GRCA_THRE001
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
COLORADO RIVER CONFLUENCE WITH THREE SPRING CANYON. SITE IS LOCATED ON THE GRANITE PEAK USGS 7.5 QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0136

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/21/92-10/25/95	10	22.4	22.83	25.	20.5	2.778	1.667	20.6	21.5	24.625	25.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/21/92-10/25/95	10	29.75	29.72	42.	13.5	124.495	11.158	13.75	19.525	41.25	42.
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/21/92-10/25/95	10	0.55	0.471	0.7	0.05	0.056	0.238	0.051	0.315	0.625	0.7
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/21/92-08/06/95	9	680.	677.556	720.	637.	791.778	28.139	637.	655.5	700.5	720.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/21/92-10/25/95	9	7.8	7.7	8.1	7.1	0.098	0.312	7.1	7.5	7.9	8.1
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/21/92-10/25/95	9	95.	95.444	104.	84.	28.278	5.318	84.	94.	98.	104.
00406	PH, FIELD, STANDARD UNITS SU	06/21/92-10/25/95	10	8.02	8.049	8.47	7.78	0.038	0.196	7.793	7.918	8.128	8.45
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/21/92-10/25/95	10	8.02	8.014	8.47	7.78	0.04	0.199	7.793	7.917	8.128	8.45
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/21/92-10/25/95	10	0.01	0.01	0.017	0.003	0.	0.004	0.004	0.008	0.012	0.016
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/21/92-10/25/95	10	265.	249.2	384.	32.	8121.067	90.117	50.4	219.	288.5	375.8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/16/93-10/20/94	4 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/24/92-10/20/94	6 ##	0.015	0.014	0.015	0.01	0.	0.002	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/06/93-10/20/94	5 ##	0.1	0.14	0.3	0.1	0.008	0.089	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/06/93-10/20/94	5	0.83	0.806	0.96	0.59	0.019	0.136	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/24/92-10/24/92	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/06/93-10/20/94	5 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/24/92-10/24/92	1	356.	356.	356.	356.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/24/92-10/20/94	6	69.7	95.217	238.	59.4	4926.598	70.19	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/24/92-10/20/94	6	41.95	54.183	118.	36.2	990.41	31.471	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	07/06/93-10/20/94	5	16.2	16.7	19.8	13.9	4.75	2.179	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	07/06/93-10/20/94	5	2.8	2.96	3.7	2.4	0.233	0.483	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/24/92-10/20/94	6	26.5	23.667	32.	2.	117.867	10.857	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/24/92-10/20/94	6	81.5	82.	94.	69.	67.6	8.222	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	07/06/93-10/20/94	5	0.37	0.34	0.38	0.28	0.002	0.046	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/06/93-05/11/94	3	18.6	19.967	24.	17.3	12.623	3.553	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	07/06/93-10/20/94	5	8.	9.4	12.	7.	5.8	2.408	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	07/06/93-10/20/94	5 ##	2.	2.2	2.5	2.	0.075	0.274	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/06/93-10/20/94	5 ##	0.25	0.3	0.5	0.25	0.013	0.112	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/06/93-10/20/94	5 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/06/93-10/20/94	5 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/06/93-10/20/94	5 ##	1.	1.8	5.	1.	3.2	1.789	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	07/06/93-10/20/94	5 ##	2.5	4.	10.	2.5	11.25	3.354	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/06/93-10/20/94	5 ##	10.	10.	10.	10.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0136

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01077	SILVER, TOTAL (UG/L AS AG)	07/06/93-10/20/94	5 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/06/93-10/20/94	5 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	07/06/93-10/20/94	5 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	07/06/93-10/20/94	5 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01501	ALPHA, TOTAL	07/06/93-07/06/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	07/06/93-07/06/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
03501	BETA, TOTAL	07/06/93-07/06/93	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/21/92-10/25/95	8	5.	112.563	866.	0.5	92708.174	304.48	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/21/92-10/25/95	8	0.661	0.676	2.938	-0.301	1.193	1.092	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			4.74								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/24/92-10/25/95	7	170.	201.286	530.	28.	30903.571	175.794	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/24/92-10/25/95	7	2.23	2.14	2.724	1.447	0.19	0.436	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			137.925								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	10/16/93-08/06/95	6	405.	412.167	460.	360.	1464.167	38.264	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/24/92-10/24/92	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/06/93-10/20/94	5 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/21/92-10/25/95	10	0.35	0.59	1.2	0.2	0.17	0.412	0.21	0.3	1.125	1.2

** - 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: GRCA0136

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	9	0	0.00	3	0	0.00	1	0	0.00	5	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	10	0	0.00	4	0	0.00	1	0	0.00	5	0	0.00			
		Other-Lo Lim.	6.5	10	0	0.00	4	0	0.00	1	0	0.00	5	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	250.	6	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	3	0	0.00	1	0	0.00	2	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	50.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	4.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	5.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	1300.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	15.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	100.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	5000.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	50.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	1	0.13	2	0	0.00	1	0	0.00	5	1	0.20			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	2.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	10	0	0.00	4	0	0.00	1	0	0.00	5	0	0.00			

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

Station Inventory for Station: GRCA0137

NPS Station ID: GRCA0137
LAT/LON: 35.885559/-113.307227
Agency: 112WRD
Date Created: 03/26/94
Location: B-29-10 25 UNSURV
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 355308113182600
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: U
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0137

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/90-01/08/95	3	21.	19.167	22.	14.5	16.583	4.072	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/11/90-01/08/95	3	26.5	22.833	30.	12.	91.083	9.544	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	05/11/90-05/11/90	1	720.	720.	720.	720.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/11/90-01/08/95	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/90-01/08/95	3	650.	645.	662.	623.	399.	19.975	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/11/90-10/14/93	2	7.5	7.5	8.4	6.6	1.62	1.273	**	**	**	**
00400	PH (STANDARD UNITS)	05/11/90-01/08/95	3	8.19	8.213	8.35	8.1	0.016	0.127	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/11/90-01/08/95	3	8.19	8.201	8.35	8.1	0.016	0.127	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/11/90-01/08/95	3	0.006	0.006	0.008	0.004	0.	0.002	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/14/93-10/14/93	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/14/93-10/14/93	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/14/93-10/14/93	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/11/90-10/14/93	2	5.	5.	10.	0.	50.	7.071	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/11/90-10/14/93	2	293.	293.	315.	271.	968.	31.113	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/14/93-10/14/93	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	10/14/93-10/14/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/14/93-10/14/93	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/14/93-10/14/93	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/14/93-10/14/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/14/93-10/14/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/14/93-10/14/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/14/93-10/14/93	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/14/93-10/14/93	1	39.	39.	39.	39.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/14/93-10/14/93	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/14/93-10/14/93	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/14/93-10/14/93	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/14/93-10/14/93	1	81.	81.	81.	81.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/14/93-10/14/93	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/14/93-10/14/93	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/14/93-10/14/93	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/14/93-10/14/93	1	68.	68.	68.	68.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/14/93-10/14/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/14/93-10/14/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/14/93-10/14/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/14/93-10/14/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	10/14/93-10/14/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/14/93-10/14/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/14/93-10/14/93	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: GRCA0137

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01049	LEAD, DISSOLVED (UG/L AS PB)	10/14/93-10/14/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/14/93-10/14/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/14/93-10/14/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	10/14/93-10/14/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/14/93-10/14/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/14/93-10/14/93	1	220.	220.	220.	220.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	10/14/93-10/14/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/14/93-10/14/93	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	10/14/93-10/14/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/14/93-10/14/93	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/14/93-10/14/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/14/93-10/14/93	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	10/14/93-10/14/93	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	10/14/93-10/14/93	1	3.	3.	3.	3.	0.	0.	**	**	**	**
22603	URANIUM 238, DISSOLVED, PC/L	10/14/93-10/14/93	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
22610	URANIUM 234, DISSOLVED, PC/L	10/14/93-10/14/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
22620	URANIUM 235, DISSOLVED. PC/L	10/14/93-10/14/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	10/14/93-10/14/93	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/11/90-05/11/90	1	254.	254.	254.	254.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/11/90-10/14/93	2	248.	248.	258.	238.	200.	14.142	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/14/93-10/14/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	10/14/93-10/14/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	10/14/93-10/14/93	1	1.22	1.22	1.22	1.22	0.	0.	**	**	**	**
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	10/14/93-10/14/93	1	0.84	0.84	0.84	0.84	0.	0.	**	**	**	**
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	10/14/93-10/14/93	1	1.14	1.14	1.14	1.14	0.	0.	**	**	**	**
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	10/14/93-10/14/93	1	1.49	1.49	1.49	1.49	0.	0.	**	**	**	**
75991	URANIUM 238,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	10/14/93-10/14/93	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
75992	URANIUM 234,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	10/14/93-10/14/93	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
75994	URANIUM 235,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	10/14/93-10/14/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	10/14/93-10/14/93	1	36.	36.	36.	36.	0.	0.	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	10/14/93-10/14/93	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	10/14/93-10/14/93	1	4.2	4.2	4.2	4.2	0.	0.	**	**	**	**
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	10/14/93-10/14/93	1	-81.6	-81.6	-81.6	-81.6	0.	0.	**	**	**	**
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	10/14/93-10/14/93	1	-11.13	-11.13	-11.13	-11.13	0.	0.	**	**	**	**
82303	RADON 222, TOTAL IN WATER PC/L	10/14/93-10/14/93	1	180.	180.	180.	180.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0137

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00	1	0	0.00	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	3	0	0.00	2	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	3	0	0.00	2	0	0.00	1	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	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									
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00	1	0	0.00									
		Drinking Water	4.	1	0	0.00	1	0	0.00									
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00	1	0	0.00									
		Drinking Water	5.	1	0	0.00	1	0	0.00									

& - 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: GRCA0137

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	1	0	0.00	1	0	0.00									
		Drinking Water	6.	1	0	0.00	1	0	0.00									
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00	1	0	0.00									
		Drinking Water	50.	1	0	0.00	1	0	0.00									
07000	TRITIUM, TOTAL	Drinking Water	20000.	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	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: GRCA0138

NPS Station ID: GRCA0138
LAT/LON: 35.815281/-113.309170
Agency: 112WRD
Date Created: 05/07/94
Location: UNSURVEYED
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 354855113183300
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: N
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0138

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/19/93-05/19/93	1	17.6	17.6	17.6	17.6	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/19/93-05/19/93	1	33.5	33.5	33.5	33.5	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	05/19/93-05/19/93	1	685.	685.	685.	685.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/19/93-05/19/93	1	882.	882.	882.	882.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/19/93-05/19/93	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/19/93-05/19/93	1	7.86	7.86	7.86	7.86	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/19/93-05/19/93	1	7.86	7.86	7.86	7.86	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/19/93-05/19/93	1	0.014	0.014	0.014	0.014	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/19/93-05/19/93	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/19/93-05/19/93	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/19/93-05/19/93	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/19/93-05/19/93	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/19/93-05/19/93	1	266.	266.	266.	266.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/19/93-05/19/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/19/93-05/19/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/19/93-05/19/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/19/93-05/19/93	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/19/93-05/19/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/19/93-05/19/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/19/93-05/19/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/19/93-05/19/93	1	67.	67.	67.	67.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/19/93-05/19/93	1	54.	54.	54.	54.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/19/93-05/19/93	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/19/93-05/19/93	1	5.1	5.1	5.1	5.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/19/93-05/19/93	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/19/93-05/19/93	1	190.	190.	190.	190.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/19/93-05/19/93	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/19/93-05/19/93	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/19/93-05/19/93	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/19/93-05/19/93	1	34.	34.	34.	34.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/19/93-05/19/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/19/93-05/19/93	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/19/93-05/19/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/19/93-05/19/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/19/93-05/19/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/19/93-05/19/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/19/93-05/19/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/19/93-05/19/93	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

Parameter Inventory for Station: GRCA0138

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/19/93-05/19/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/19/93-05/19/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/19/93-05/19/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/19/93-05/19/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/19/93-05/19/93	1	310.	310.	310.	310.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/19/93-05/19/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/19/93-05/19/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	05/19/93-05/19/93	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/19/93-05/19/93	1	23.	23.	23.	23.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/19/93-05/19/93	1	5.	5.	5.	5.	0.	0.	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/19/93-05/19/93	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/19/93-05/19/93	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/19/93-05/19/93	1	4.	4.	4.	4.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/19/93-05/19/93	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/19/93-05/19/93	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/19/93-05/19/93	1	218.	218.	218.	218.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/19/93-05/19/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/19/93-05/19/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/19/93-05/19/93	1	1.42	1.42	1.42	1.42	0.	0.	**	**	**	**
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/19/93-05/19/93	1	0.94	0.94	0.94	0.94	0.	0.	**	**	**	**
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/19/93-05/19/93	1	0.74	0.74	0.74	0.74	0.	0.	**	**	**	**
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/19/93-05/19/93	1	0.98	0.98	0.98	0.98	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/19/93-05/19/93	1	0.48	0.48	0.48	0.48	0.	0.	**	**	**	**
76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	05/19/93-05/19/93	1	34.	34.	34.	34.	0.	0.	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/19/93-05/19/93	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/19/93-05/19/93	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/19/93-05/19/93	1	-75.1	-75.1	-75.1	-75.1	0.	0.	**	**	**	**
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/19/93-05/19/93	1	-10.48	-10.48	-10.48	-10.48	0.	0.	**	**	**	**
82303	RADON 222, TOTAL IN WATER PC/L	05/19/93-05/19/93	1	272.	272.	272.	272.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRCA0138

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						

& - 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: GRCA0138

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	1	0	0.00				1	0	0.00						
		Drinking Water	6.	1	0	0.00				1	0	0.00						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
07000	TRITIUM, TOTAL	Drinking Water	20000.	1	0	0.00				1	0	0.00						
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00				1	0	0.00						
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	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: GRCA0139

NPS Station ID: GRCA0139
LAT/LON: 35.963892/-113.310005
Agency: 112WRD
Date Created: 03/26/94
Location: B-30-10 25UNSURV GRANITE SPG @ RM 209
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 355750113183601
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: U
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0139

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/13/93-10/13/93	1	23.6	23.6	23.6	23.6	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/13/93-10/13/93	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/13/93-10/13/93	1	904.	904.	904.	904.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/13/93-10/13/93	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/13/93-10/13/93	1	8.35	8.35	8.35	8.35	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/13/93-10/13/93	1	8.35	8.35	8.35	8.35	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/13/93-10/13/93	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/13/93-10/13/93	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/13/93-10/13/93	1	308.	308.	308.	308.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/13/93-10/13/93	1	272.	272.	272.	272.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0139

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRCA0140

NPS Station ID: GRCA0140
LAT/LON: 35.804170/-113.322226
Agency: 112WRD
Date Created: 12/10/94
Location: 222 MILE CANYON SPRINGS
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 354815113192000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: U
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0140

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/25/92-10/25/92	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/25/92-10/25/92	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/25/92-10/25/92	1	1580.	1580.	1580.	1580.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/25/92-10/25/92	1	8.07	8.07	8.07	8.07	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/25/92-10/25/92	1	8.07	8.07	8.07	8.07	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/25/92-10/25/92	1	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/25/92-10/25/92	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/25/92-10/25/92	1	548.	548.	548.	548.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/25/92-10/25/92	1	437.	437.	437.	437.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0140

			Total	Exceed	Prop.	----------10/01-3/14----------			----------3/15-6/19----------			----------6/20-9/30----------			----------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.	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: GRCA0141

NPS Station ID: GRCA0141
LAT/LON: 35.917226/-113.333059
Agency: 112WRD
Date Created: 04/01/95
Location: B-29-10 14 UNSURV
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 355502113195900
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: U
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0141

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/08/95-01/08/95	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/08/95-01/08/95	1	14.5	14.5	14.5	14.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	01/08/95-01/08/95	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/08/95-01/08/95	1	12840.	12840.	12840.	12840.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	01/08/95-01/08/95	1	6.88	6.88	6.88	6.88	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	01/08/95-01/08/95	1	6.88	6.88	6.88	6.88	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/08/95-01/08/95	1	0.132	0.132	0.132	0.132	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0141

			Total	Exceed	Prop.	----------10/01-3/14----------			----------3/15-6/19----------			----------6/20-9/30----------			----------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.	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: GRCA0142

NPS Station ID: GRCA0142
LAT/LON: 35.917226/-113.333059
Agency: 112WRD
Date Created: 03/26/94
Location: B-29-10 14UNSURV PUMPKIN SPG @ RM 213
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 355502113195901
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: U
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0142

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/13/93-10/13/93	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/13/93-10/13/93	1	25.7	25.7	25.7	25.7	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/13/93-10/13/93	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/13/93-10/13/93	1	14100.	14100.	14100.	14100.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/13/93-10/13/93	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/13/93-10/13/93	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/13/93-10/13/93	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/13/93-10/13/93	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/13/93-10/13/93	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/13/93-10/13/93	1	2170.	2170.	2170.	2170.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/13/93-10/13/93	1	1780.	1780.	1780.	1780.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0142

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00	1	0	0.00									
00400	PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRCA0143

NPS Station ID: GRCA0143
LAT/LON: 35.916392/-113.333059
Agency: 112WRD
Date Created: 02/28/78
Location: RM212.9, GCNP: PUMKIN SPRING
FIPS State/County: 04005 ARIZONA/COCONINO
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 355459113195900
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 15010004091400.99
RF3 Mile Point: 1.36
Distance from RF3: 0.40
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0143

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/76-05/11/76	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/11/76-05/11/76	1	11900.	11900.	11900.	11900.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/11/76-05/11/76	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/11/76-05/11/76	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/11/76-05/11/76	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/11/76-05/11/76	1 ##	50.	50.	50.	50.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/11/76-05/11/76	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01015	BISMUTH, DISSOLVED (UG/L AS BI)	05/11/76-05/11/76	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/11/76-05/11/76	1	12000.	12000.	12000.	12000.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/11/76-05/11/76	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/11/76-05/11/76	1 ##	65.	65.	65.	65.	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/11/76-05/11/76	1 ##	65.	65.	65.	65.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/11/76-05/11/76	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/11/76-05/11/76	1	1200.	1200.	1200.	1200.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/11/76-05/11/76	1 ##	70.	70.	70.	70.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/11/76-05/11/76	1	210.	210.	210.	210.	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/11/76-05/11/76	1 ##	30.	30.	30.	30.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/11/76-05/11/76	1 ##	65.	65.	65.	65.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/11/76-05/11/76	1 ##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/11/76-05/11/76	1	10000.	10000.	10000.	10000.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/11/76-05/11/76	1 ##	30.	30.	30.	30.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/11/76-05/11/76	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01100	TIN, DISSOLVED (UG/L AS SN)	05/11/76-05/11/76	1 ##	70.	70.	70.	70.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/11/76-05/11/76	1	210.	210.	210.	210.	0.	0.	**	**	**	**
01120	GALLIUM, DISSOLVED (UG/L AS GA)	05/11/76-05/11/76	1 ##	30.	30.	30.	30.	0.	0.	**	**	**	**
01125	GERMANIUM, DISSOLVED (UG/L AS GE)	05/11/76-05/11/76	1 ##	125.	125.	125.	125.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/11/76-05/11/76	1	3000.	3000.	3000.	3000.	0.	0.	**	**	**	**
01150	TITANIUM, DISSOLVED (UG/L AS TI)	05/11/76-05/11/76	1 ##	45.	45.	45.	45.	0.	0.	**	**	**	**
01160	ZIRCONIUM, DISSOLVED (UG/L AS ZR)	05/11/76-05/11/76	1 ##	100.	100.	100.	100.	0.	0.	**	**	**	**
09511	RADIUM 226, DISSOLVED, RADON METHOD	05/11/76-05/11/76	1	23.	23.	23.	23.	0.	0.	**	**	**	**
80010	URANIUM,DISS.,BY DIRECT FLUOROMETRIC METHOD,PC/L	05/11/76-05/11/76	1	7.1	7.1	7.1	7.1	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: GRCA0143

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	0 &	0	0.00												
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	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						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	0 &	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: GRCA0144

NPS Station ID: GRCA0144
LAT/LON: 35.918587/-113.335809
Agency: 11NPSWRD
Date Created: 02/03/96
Location: PUMPKIN SPRING RM 212.9
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): GRCA_COLO002
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LITTLE COLORADO RIVER
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:
PUMPKIN SPRING RM 212.9. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0144

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/21/92-10/24/92	2	28.95	28.95	30.9	27.	7.605	2.758	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/21/92-10/24/92	2	25.1	25.1	28.5	21.7	23.12	4.808	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/21/92-10/24/92	2	14575.	14575.	14750.	14400.	61250.	247.487	**	**	**	**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/21/92-10/24/92	2	0.6	0.6	0.8	0.4	0.08	0.283	**	**	**	**
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/21/92-10/24/92	2	10.5	10.5	14.	7.	24.5	4.95	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/21/92-10/24/92	2	6.785	6.785	6.86	6.71	0.011	0.106	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/21/92-10/24/92	2	6.779	6.779	6.86	6.71	0.011	0.106	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/21/92-10/24/92	2	0.167	0.167	0.195	0.138	0.002	0.04	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/21/92-10/25/95	3	1760.	1759.333	1872.	1646.	12769.333	113.001	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/24/92-10/24/92	1	1.21	1.21	1.21	1.21	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/24/92-10/24/92	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/24/92-10/24/92	1	912.	912.	912.	912.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/24/92-10/24/92	1	660.	660.	660.	660.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/24/92-10/24/92	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/24/92-10/24/92	1	3920.	3920.	3920.	3920.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/24/92-10/24/92	1	320.	320.	320.	320.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/21/92-10/24/92	2	1140.	1140.	1180.	1100.	3200.	56.569	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/21/92-10/24/92	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/21/92-10/24/92	2 ##	0.575	0.575	0.9	0.25	0.211	0.46	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/21/92-10/24/92	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/21/92-10/24/92	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/21/92-10/24/92	2	11.5	11.5	20.	3.	144.5	12.021	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/21/92-10/24/92	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/21/92-10/24/92	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/21/92-10/24/92	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/21/92-10/24/92	2 ##	101.5	101.5	198.	5.	18624.5	136.472	**	**	**	**
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/21/92-10/24/92	2 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/21/92-10/24/92	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
22708	URANIUM, NATURAL TOTAL MG/L	06/21/92-10/24/92	2	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/24/92-10/24/92	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/21/92-10/24/92	2 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/21/92-10/24/92	2	30.55	30.55	30.7	30.4	0.045	0.212	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0144

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	2	2	1.00	1	1	1.00				1	1	1.00			
00406	PH, FIELD	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	1	1.00	1	1	1.00									
		Drinking Water	250.	1	1	1.00	1	1	1.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	2	1.00	1	1	1.00				1	1	1.00			
		Drinking Water	50.	2	2	1.00	1	1	1.00				1	1	1.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5.	2	0	0.00	1	0	0.00				1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	1300.	2	0	0.00	1	0	0.00				1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	15.	2	1	0.50	1	0	0.00				1	1	1.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	2	0	0.00	1	0	0.00				1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	2	1	0.50	1	0	0.00				1	1	1.00			
		Drinking Water	5000.	2	0	0.00	1	0	0.00				1	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
22708	URANIUM, NATURAL, TOTAL	Drinking Water	0.02	2	0	0.00	1	0	0.00				1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	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: GRCA0145

NPS Station ID: GRCA0145
LAT/LON: 36.018616/-113.352503
Agency: 21AZRWTR
Date Created: 08/27/94
Location: SPRING CANYON SOUTHERN BASIN & RANGE
FIPS State/County: 04013 ARIZONA/MARICOPA
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): SPC1-00RF
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 1500
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0145

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: GRCA0146

NPS Station ID: GRCA0146 LAT/LON: 36.018253/-113.355809 Agency: 11NPSWRD Date Created: 02/03/96
Location: COLORADO RIVER CONFLUENCE WITH SPRING CANYON FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): GRCA_SPRI002
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
COLORADO RIVER CONFLUENCE WITH SPRING CANYON. SITE IS LOCATED ON THE WHITMORE POINT SE USGS 7.5 QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0146

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/92-10/24/95	11	26.	25.873	28.	22.8	2.28	1.51	23.24	25.	27.	28.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/20/92-10/24/95	11	28.	26.727	40.	13.	76.568	8.75	13.7	18.	35.	39.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/20/92-10/24/95	11	0.6	0.573	0.8	0.4	0.018	0.135	0.4	0.4	0.7	0.78
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/20/92-08/06/95	10	640.	634.7	695.	561.	1413.344	37.594	563.5	622.75	652.	692.2
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE MG/L	06/20/92-10/24/95	11	8.	8.055	10.8	6.1	1.269	1.126	6.32	7.7	8.2	10.36
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/92-10/24/95	11	105.	106.455	149.	83.	262.473	16.201	85.2	100.	109.	141.4
00406	PH, FIELD, STANDARD UNITS SU	06/20/92-10/24/95	11	7.89	7.843	8.26	7.21	0.124	0.352	7.216	7.68	8.14	8.236
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/20/92-10/24/95	11	7.89	7.695	8.26	7.21	0.148	0.385	7.216	7.68	8.14	8.236
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/92-10/24/95	11	0.013	0.02	0.062	0.005	0.	0.02	0.006	0.007	0.021	0.061
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/92-10/24/95	11	182.	186.545	318.	148.	2119.273	46.036	148.	160.	184.	292.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/20/92-10/19/94	8	## 5.	5.	5.	5.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/92-10/19/94	8	## 0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/92-10/19/94	8	## 0.1	0.125	0.3	0.1	0.005	0.071	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/20/92-10/19/94	8	0.795	0.801	0.93	0.64	0.009	0.094	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/92-10/19/94	8	## 0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/20/92-10/19/94	8	72.15	73.675	81.6	67.8	28.602	5.348	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/20/92-10/19/94	8	35.15	34.913	39.	29.3	8.081	2.843	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/20/92-10/19/94	8	12.8	12.463	14.	9.1	2.177	1.475	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/20/92-10/19/94	8	2.3	2.388	3.6	1.7	0.324	0.569	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/20/92-10/19/94	8	19.	18.625	19.	18.	0.268	0.518	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/20/92-10/19/94	8	125.	125.	140.	110.	85.714	9.258	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	06/20/92-10/19/94	8	0.245	0.251	0.31	0.2	0.001	0.034	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/06/93-05/11/94	4	16.9	17.125	18.4	16.3	0.829	0.911	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/20/92-10/19/94	8	10.	9.75	11.	8.	1.071	1.035	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/20/92-10/19/94	8	## 2.5	2.313	2.5	2.	0.067	0.259	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/20/92-10/19/94	8	## 0.25	0.281	0.5	0.25	0.008	0.088	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/20/92-10/19/94	8	## 5.	5.	5.	5.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/20/92-10/19/94	8	## 5.	6.75	13.	5.	10.786	3.284	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/20/92-10/19/94	8	## 1.	1.	1.	1.	0.	0.	**	**	**	**
01059	THALLIUM, TOTAL (UG/L AS TL)	06/20/92-10/19/94	8	## 2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/20/92-10/19/94	8	## 10.	10.	10.	10.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/20/92-10/19/94	8	## 5.	5.	5.	5.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/20/92-10/19/94	8	## 10.	10.25	22.	5.	27.643	5.258	**	**	**	**

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

Parameter Inventory for Station: GRCA0146

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/20/92-10/19/94	8 ##	25.	25.	25.	25.	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/20/92-10/19/94	8 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01501	ALPHA, TOTAL	07/06/93-02/20/94	2 ##	1.25	1.25	1.5	1.	0.125	0.354	**	**	**	**
01502	ALPHA, TOTAL, COUNTING ERROR	07/06/93-07/06/93	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
03501	BETA, TOTAL	07/06/93-02/20/94	2 ##	1.5	1.5	2.5	0.5	2.	1.414	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/06/93-10/24/95	9	6.	11.167	37.	0.5	145.75	12.073	0.5	2.5	18.5	37.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/06/93-10/24/95	9	0.778	0.78	1.568	-0.301	0.33	0.574	-0.301	0.389	1.247	1.568
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =			6.02								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/06/93-10/24/95	8	390.	353.375	510.	81.	23809.982	154.305	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/06/93-10/24/95	8	2.584	2.492	2.708	1.908	0.073	0.27	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			310.22								
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/20/92-08/06/95	10	410.	410.1	434.	377.	351.656	18.752	378.3	397.5	430.	433.6
71900	MERCURY, TOTAL (UG/L AS HG)	06/20/92-10/19/94	8 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	06/20/92-10/24/95	11	0.4	0.427	1.	0.2	0.054	0.233	0.2	0.3	0.6	0.92

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: GRCA0146

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			
		Other-Lo Lim.	6.5	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	250.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	50.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	4.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	5.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	1300.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	15.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	2.	0 &	0	0.00												
01067	NICKEL, TOTAL	Fresh Acute	1400.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	100.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	0 &	0	0.00												
		Drinking Water	100.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	5000.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	6.	0 &	0	0.00												
01147	SELENIUM, TOTAL	Fresh Acute	20.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	50.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	0	0.00	4	0	0.00	1	0	0.00	4	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
		Drinking Water	2.	8	0	0.00	4	0	0.00	1	0	0.00	3	0	0.00			
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	11	0	0.00	5	0	0.00	1	0	0.00	5	0	0.00			

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

Station Inventory for Station: GRCA0147

NPS Station ID: GRCA0147 LAT/LON: 35.773615/-113.362781 Agency: 112WRD Date Created: 02/17/90
Location: COLORADO R ABV DIAMOND CR NR PEACH SPRINGS FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 09404200
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 1.50 On/Off RF1:
RF3 Index: 15010005005310.90 RF3 Mile Point: 12.76 Distance from RF3: 0.04 On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0147

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	10/09/89-10/11/89	9	205.	204.333	205.	202.	1.75	1.323	202.	203.5	205.	205.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/89-10/12/89	37	14.	13.77	14.	13.	0.092	0.303	13.5	13.5	14.	14.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/07/89-10/12/89	34	24.	23.853	32.	16.5	21.841	4.673	18.	19.	28.	30.
00025	BAROMETRIC PRESSURE (MM OF HG)	10/07/89-10/12/89	37	732.	731.757	735.	728.	3.578	1.892	729.8	730.	733.5	734.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/07/89-10/12/89	24	6065.	7822.917	16300.	5820.	9582508.514	3095.563	5840.	5865.	8002.5	13800.
00065	STAGE, STREAM (FEET)	10/07/89-10/12/89	37	45.17	46.022	49.93	44.98	2.091	1.446	45.14	45.15	46.335	48.97
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/08/89-10/12/89	6	1.1	1.233	2.	0.7	0.299	0.547	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/08/89-10/12/89	13	931.	937.538	984.	886.	1258.269	35.472	891.6	907.5	979.	984.
00300	OXYGEN, DISSOLVED MG/L	10/07/89-10/12/89	37	10.	9.976	10.2	9.7	0.012	0.112	9.8	9.9	10.	10.1
00400	PH (STANDARD UNITS)	10/08/89-10/12/89	8	8.3	8.287	8.35	8.25	0.001	0.035	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/08/89-10/12/89	8	8.3	8.286	8.35	8.25	0.001	0.035	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/08/89-10/12/89	8	0.005	0.005	0.006	0.004	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/08/89-10/12/89	6	8.3	8.233	8.3	8.	0.015	0.121	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/08/89-10/12/89	6	8.3	8.218	8.3	8.	0.015	0.122	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/08/89-10/12/89	6	0.005	0.006	0.01	0.005	0.	0.002	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/08/89-10/12/89	7	0.	1.143	7.	0.	6.81	2.61	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	10/08/89-10/12/89	8	186.	183.125	193.	171.	67.839	8.236	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/08/89-10/12/89	13 ##	0.005	0.01	0.02	0.005	0.	0.006	0.005	0.005	0.015	0.02
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/08/89-10/12/89	13	0.01	0.01	0.02	0.005	0.	0.004	0.005	0.01	0.01	0.016
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/08/89-10/12/89	13 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/08/89-10/12/89	13	0.3	0.238	0.4	0.1	0.009	0.096	0.1	0.15	0.3	0.36
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/08/89-10/12/89	13	0.3	0.3	0.3	0.3	0.	0.	0.3	0.3	0.3	0.3
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/08/89-10/12/89	13	0.3	0.3	0.3	0.3	0.	0.	0.3	0.3	0.3	0.3
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/08/89-10/12/89	13 ##	0.005	0.008	0.04	0.005	0.	0.01	0.005	0.005	0.005	0.028
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/08/89-10/12/89	13 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/08/89-10/12/89	13 ##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/08/89-10/12/89	13	2.8	2.792	3.	2.7	0.012	0.112	2.7	2.7	2.85	3.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/08/89-10/12/89	6	70.	70.333	72.	69.	1.067	1.033	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/08/89-10/12/89	6	25.	25.333	26.	25.	0.267	0.516	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/08/89-10/12/89	6	85.5	86.5	94.	80.	23.9	4.889	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/08/89-10/12/89	6	3.5	3.5	3.6	3.4	0.008	0.089	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/08/89-10/12/89	6	76.	78.167	94.	66.	110.967	10.534	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/08/89-10/12/89	6	215.	215.	220.	210.	30.	5.477	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/08/89-10/12/89	6	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/08/89-10/12/89	6	8.25	8.283	8.5	8.1	0.022	0.147	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	10/08/89-10/12/89	8	151.	150.	156.	141.	24.857	4.986	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/08/89-10/12/89	8	153.5	151.875	158.	140.	32.982	5.743	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/08/89-10/12/89	6	579.5	581.167	601.	564.	166.167	12.891	**	**	**	**

** - Less than 9 observations ## - 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: GRCA0147

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/08/89-10/12/89	13 ##	0.005	0.005	0.01	0.005	0.	0.001	0.005	0.005	0.005	0.008

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

EPA Water Quality Criteria Analysis for Station: GRCA0147

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	6	0	0.00	6	0	0.00									
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	37	0	0.00	37	0	0.00									
00400	PH	Other-Hi Lim.	9.	8	0	0.00	8	0	0.00									
		Other-Lo Lim.	6.5	8	0	0.00	8	0	0.00									
00403	PH, LAB	Other-Hi Lim.	9.	6	0	0.00	6	0	0.00									
		Other-Lo Lim.	6.5	6	0	0.00	6	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	13	0	0.00	13	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	13	0	0.00									
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	13	0	0.00	13	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	6	0	0.00									
		Drinking Water	250.	6	0	0.00	6	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	6	0	0.00	6	0	0.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	6	0	0.00	6	0	0.00									

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

Station Inventory for Station: GRCA0148

NPS Station ID: GRCA0148
LAT/LON: 35.765281/-113.372505
Agency: 112WRD
Date Created: 12/10/94
Location: DIAMOND CREEK ABV MOUTH AT RM 225.7
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 354555113222100
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/14/90-04/05/92	6	19.75	21.083	28.	14.5	27.342	5.229	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/14/90-11/20/91	4	21.	25.375	43.	16.5	143.229	11.968	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	05/14/90-04/05/92	6	729.	731.167	740.	725.	43.367	6.585	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/14/90-04/05/92	5	800.	829.6	998.	767.	9150.3	95.657	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/14/90-04/05/92	6	9.15	9.117	9.9	8.2	0.414	0.643	**	**	**	**
00400	PH (STANDARD UNITS)	05/14/90-04/05/92	5	8.44	8.474	8.65	8.4	0.01	0.102	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/14/90-04/05/92	5	8.44	8.465	8.65	8.4	0.011	0.103	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/14/90-04/05/92	5	0.004	0.003	0.004	0.002	0.	0.001	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/14/90-04/05/92	5	11.	11.8	23.	1.	62.7	7.918	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/14/90-04/05/92	5	354.	359.	387.	334.	487.	22.068	**	**	**	**
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	07/11/90-07/11/90	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31625	LOG FECAL COLIFORM, MF,M-FC, 0.7 UM	07/11/90-07/11/90	1	0.301	0.301	0.301	0.301	0.	0.	**	**	**	**
31625	GM FECAL COLIFORM, MF,M-FC, 0.7 UM	GEOMETRIC MEAN =			2.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/11/90-07/11/90	1	360.	360.	360.	360.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/11/90-07/11/90	1	2.556	2.556	2.556	2.556	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			360.								
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	05/14/90-02/11/91	3	308.	312.667	333.	297.	340.333	18.448	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/14/90-04/05/92	5	312.	313.8	335.	298.	179.2	13.387	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0148

				Total	Exceed	Prop.	----------10/01-3/14----------			----------3/15-6/19----------			----------6/20-9/30----------			----------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.	6	0	0.00	2	0	0.00	2	0	0.00	2	0	0.00			
00400	PH	Other-Hi Lim.	9.	5	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	5	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: GRCA0149

NPS Station ID: GRCA0149 LAT/LON: 35.765892/-113.373504 Agency: 11NPSWRD Date Created: 02/03/96
Location: COLORADO RIVER CONFLUENCE WITH DIAMOND CREEK FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): GRCA_DIAM001
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 15010002 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE COLORADO RIVER ECO Region:
RF1 Index: 15010002 RF1 Mile Point: 0.000 Distance from RF1: 1.70 On/Off RF1:
RF3 Index: 15010003042900.00 RF3 Mile Point: 0.10 Distance from RF3: 0.02 On/Off RF3:
Description:
COLORADO RIVER CONFLUENCE WITH DIAMOND CREEK. SITE IS LOCATED ON THE DIAMOND PEAK USGS 7.5 QUADRANGLE. STATION IS THE RESPONSIBILITY OF JOHN RIHS GRAND CANYON NATIONAL PARK - 520-638-7905.

Parameter Inventory for Station: GRCA0149

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/25/92-10/25/92	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/25/92-10/25/92	1	16.5	16.5	16.5	16.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/25/92-10/25/92	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/25/92-10/25/92	1	960.	960.	960.	960.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	10/25/92-10/25/92	1	8.55	8.55	8.55	8.55	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	10/25/92-10/25/92	1	8.55	8.55	8.55	8.55	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/25/92-10/25/92	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/25/92-10/25/92	1	322.	322.	322.	322.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/25/92-10/25/92	1	234.	234.	234.	234.	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	10/25/92-10/25/92	1	166.	166.	166.	166.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/25/92-10/25/92	1	68.	68.	68.	68.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/25/92-10/25/92	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/25/92-10/25/92	1	36.	36.	36.	36.	0.	0.	**	**	**	**
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	10/25/92-10/25/92	1	12.2	12.2	12.2	12.2	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: GRCA0149

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00406	PH, FIELD	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
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									
82078	TURBIDITY, FIELD	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRCA0150

NPS Station ID: GRCA0150
LAT/LON: 35.750837/-113.423892
Agency: 112WRD
Date Created: 11/20/93
Location: TRAVERTINE CANYON ABV. MOUTH AT RM229
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 354503113252600
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0150

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	08/22/91-08/22/91	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/22/91-12/08/94	4	23.2	21.225	26.	12.5	35.636	5.97	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/15/93-12/08/94	3	37.	28.333	38.	10.	252.333	15.885	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/22/91-05/15/93	2	727.5	727.5	730.	725.	12.5	3.536	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/22/91-12/08/94	3	2.	1.533	2.	0.6	0.653	0.808	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/22/91-12/08/94	4	827.	852.5	998.	758.	13459.667	116.016	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/22/91-05/15/93	2	7.85	7.85	7.9	7.8	0.005	0.071	**	**	**	**
00400	PH (STANDARD UNITS)	08/22/91-12/08/94	3	8.63	8.623	8.68	8.56	0.004	0.06	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/22/91-12/08/94	3	8.63	8.621	8.68	8.56	0.004	0.06	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/22/91-12/08/94	3	0.002	0.002	0.003	0.002	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/15/93-05/15/93	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/15/93-05/15/93	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/15/93-05/15/93	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	08/22/91-05/15/93	2	26.	26.	28.	24.	8.	2.828	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	08/22/91-05/15/93	2	339.	339.	366.	312.	1458.	38.184	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/15/93-05/15/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/93-05/15/93	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/93-05/15/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/93-05/15/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/93-05/15/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/93-05/15/93	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/93-05/15/93	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/93-05/15/93	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/93-05/15/93	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/93-05/15/93	1	81.	81.	81.	81.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/93-05/15/93	1	53.	53.	53.	53.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/93-05/15/93	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/93-05/15/93	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/15/93-05/15/93	1	42.	42.	42.	42.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/15/93-05/15/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/15/93-05/15/93	1	870.	870.	870.	870.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/15/93-05/15/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/15/93-05/15/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/15/93-05/15/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/15/93-05/15/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/15/93-05/15/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0150

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01049	LEAD, DISSOLVED (UG/L AS PB)	05/15/93-05/15/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/15/93-05/15/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/15/93-05/15/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/15/93-05/15/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/15/93-05/15/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/15/93-05/15/93	1	260.	260.	260.	260.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/15/93-05/15/93	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/15/93-05/15/93	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/15/93-05/15/93	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/15/93-05/15/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/15/93-05/15/93	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/15/93-05/15/93	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/15/93-05/15/93	1	7.	7.	7.	7.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/15/93-05/15/93	1	3.8	3.8	3.8	3.8	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/15/93-05/15/93	1	3.7	3.7	3.7	3.7	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	08/22/91-08/22/91	1	340.	340.	340.	340.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	08/22/91-05/15/93	2	321.	321.	346.	296.	1250.	35.355	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/15/93-05/15/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/15/93-05/15/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/15/93-05/15/93	1	1.39	1.39	1.39	1.39	0.	0.	**	**	**	**
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/15/93-05/15/93	1	0.96	0.96	0.96	0.96	0.	0.	**	**	**	**
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/15/93-05/15/93	1	1.29	1.29	1.29	1.29	0.	0.	**	**	**	**
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/15/93-05/15/93	1	1.72	1.72	1.72	1.72	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/15/93-05/15/93	1	1.15	1.15	1.15	1.15	0.	0.	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/15/93-05/15/93	1	5.2	5.2	5.2	5.2	0.	0.	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/15/93-05/15/93	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/15/93-05/15/93	1	-77.1	-77.1	-77.1	-77.1	0.	0.	**	**	**	**
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/15/93-05/15/93	1	-10.4	-10.4	-10.4	-10.4	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRCA0150

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00				1	0	0.00	1	0	0.00			
00400	PH	Other-Hi Lim.	9.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRCA0150

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
07000	TRITIUM, TOTAL	Drinking Water	20000.	1	0	0.00				1	0	0.00						
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00				1	0	0.00						
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	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: GRCA0151

NPS Station ID: GRCA0151
LAT/LON: 35.735003/-113.442782
Agency: 112WRD
Date Created: 03/26/94
Location: B-27-11 10UNSURV
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 354406113263400
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: N
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/93-12/08/94	3	24.	24.033	24.6	23.5	0.303	0.551	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/06/94-12/08/94	2	19.75	19.75	32.	7.5	300.125	17.324	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	05/15/93-05/15/93	1	708.	708.	708.	708.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/15/93-12/08/94	2	2.	2.	2.	2.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/93-12/08/94	3	662.	714.667	852.	630.	14401.333	120.006	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/15/93-05/15/93	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/15/93-12/08/94	2	7.695	7.695	7.76	7.63	0.008	0.092	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/15/93-12/08/94	2	7.69	7.69	7.76	7.63	0.008	0.092	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/15/93-12/08/94	2	0.02	0.02	0.023	0.017	0.	0.004	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/15/93-05/15/93	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/15/93-05/15/93	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/15/93-05/15/93	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/15/93-05/15/93	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/15/93-05/15/93	1	350.	350.	350.	350.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/15/93-05/15/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/93-05/15/93	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/93-05/15/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/93-05/15/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/93-05/15/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/93-05/15/93	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/93-05/15/93	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/93-05/15/93	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/93-05/15/93	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/93-05/15/93	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/93-05/15/93	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/93-05/15/93	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/93-05/15/93	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/15/93-05/15/93	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/15/93-05/15/93	1	45.	45.	45.	45.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/15/93-05/15/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/15/93-05/15/93	1	330.	330.	330.	330.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/15/93-05/15/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/15/93-05/15/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/15/93-05/15/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/15/93-05/15/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/15/93-05/15/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01049	LEAD, DISSOLVED (UG/L AS PB)	05/15/93-05/15/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/15/93-05/15/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/15/93-05/15/93	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/15/93-05/15/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/15/93-05/15/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/15/93-05/15/93	1	250.	250.	250.	250.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/15/93-05/15/93	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/15/93-05/15/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/15/93-05/15/93	1	43.	43.	43.	43.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/15/93-05/15/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/15/93-05/15/93	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/15/93-05/15/93	1	3.	3.	3.	3.	0.	0.	**	**	**	**
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/15/93-05/15/93	1	6.	6.	6.	6.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/15/93-05/15/93	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/15/93-05/15/93	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/15/93-05/15/93	1	287.	287.	287.	287.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/15/93-05/15/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/15/93-05/15/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/15/93-05/15/93	1	1.77	1.77	1.77	1.77	0.	0.	**	**	**	**
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/15/93-05/15/93	1	1.23	1.23	1.23	1.23	0.	0.	**	**	**	**
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/15/93-05/15/93	1	1.09	1.09	1.09	1.09	0.	0.	**	**	**	**
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/15/93-05/15/93	1	1.43	1.43	1.43	1.43	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/15/93-05/15/93	1	0.74	0.74	0.74	0.74	0.	0.	**	**	**	**
76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	05/15/93-05/15/93	1	34.	34.	34.	34.	0.	0.	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/15/93-05/15/93	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/15/93-05/15/93	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/15/93-05/15/93	1	-76.9	-76.9	-76.9	-76.9	0.	0.	**	**	**	**
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/15/93-05/15/93	1	-10.64	-10.64	-10.64	-10.64	0.	0.	**	**	**	**
82303	RADON 222, TOTAL IN WATER PC/L	05/15/93-05/15/93	1	245.	245.	245.	245.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRCA0151

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00	1	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						

& - 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: GRCA0151

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
07000	TRITIUM, TOTAL	Drinking Water	20000.	1	0	0.00				1	0	0.00						
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00				1	0	0.00						
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	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: GRCA0152

NPS Station ID: GRCA0152
LAT/LON: 35.756115/-113.446670
Agency: 112WRD
Date Created: 09/04/93
Location: B-27-11 03UNSURV
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 354522113264800
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: N
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0152

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	08/23/91-08/23/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/93-06/05/94	2	21.45	21.45	22.4	20.5	1.805	1.344	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/23/91-06/05/94	2	36.25	36.25	38.	34.5	6.125	2.475	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/23/91-05/15/93	2	729.5	729.5	732.	727.	12.5	3.536	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/23/91-06/05/94	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/91-06/05/94	3	1620.	1660.667	1742.	1620.	4961.333	70.437	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/23/91-05/15/93	2	7.35	7.35	7.5	7.2	0.045	0.212	**	**	**	**
00400	PH (STANDARD UNITS)	08/23/91-05/15/93	2	8.115	8.115	8.14	8.09	0.001	0.035	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/23/91-05/15/93	2	8.114	8.114	8.14	8.09	0.001	0.035	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/91-05/15/93	2	0.008	0.008	0.008	0.007	0.	0.001	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/15/93-05/15/93	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/15/93-05/15/93	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/15/93-05/15/93	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	08/23/91-05/15/93	2	6.	6.	12.	0.	72.	8.485	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	08/23/91-05/15/93	2	661.	661.	678.	644.	578.	24.042	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/15/93-05/15/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/93-05/15/93	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/93-05/15/93	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/93-05/15/93	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/93-05/15/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/93-05/15/93	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/93-05/15/93	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/93-05/15/93	1	270.	270.	270.	270.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/93-05/15/93	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/93-05/15/93	1	170.	170.	170.	170.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/93-05/15/93	1	59.	59.	59.	59.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/93-05/15/93	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/93-05/15/93	1	48.	48.	48.	48.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/15/93-05/15/93	1	81.	81.	81.	81.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/15/93-05/15/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/15/93-05/15/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/15/93-05/15/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/15/93-05/15/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/15/93-05/15/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/15/93-05/15/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/15/93-05/15/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**

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Parameter Inventory for Station: GRCA0152

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/15/93-05/15/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/15/93-05/15/93	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/15/93-05/15/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/15/93-05/15/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/15/93-05/15/93	1	390.	390.	390.	390.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/15/93-05/15/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/15/93-05/15/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/15/93-05/15/93	1	320.	320.	320.	320.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/15/93-05/15/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/15/93-05/15/93	1	21.	21.	21.	21.	0.	0.	**	**	**	**
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/15/93-05/15/93	1	9.9	9.9	9.9	9.9	0.	0.	**	**	**	**
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/15/93-05/15/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/15/93-05/15/93	1	11.	11.	11.	11.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/15/93-05/15/93	1	23.	23.	23.	23.	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	08/23/91-08/23/91	1	551.	551.	551.	551.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	08/23/91-05/15/93	2	552.	552.	556.	548.	32.	5.657	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/15/93-05/15/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/15/93-05/15/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/15/93-05/15/93	1	5.35	5.35	5.35	5.35	0.	0.	**	**	**	**
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/15/93-05/15/93	1	3.75	3.75	3.75	3.75	0.	0.	**	**	**	**
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/15/93-05/15/93	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/15/93-05/15/93	1	4.32	4.32	4.32	4.32	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/15/93-05/15/93	1	6.61	6.61	6.61	6.61	0.	0.	**	**	**	**
76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	05/15/93-05/15/93	1	35.	35.	35.	35.	0.	0.	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/15/93-05/15/93	1	14.	14.	14.	14.	0.	0.	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/15/93-05/15/93	1	16.	16.	16.	16.	0.	0.	**	**	**	**
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/15/93-05/15/93	1	-76.9	-76.9	-76.9	-76.9	0.	0.	**	**	**	**
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/15/93-05/15/93	1	-10.44	-10.44	-10.44	-10.44	0.	0.	**	**	**	**
82303	RADON 222, TOTAL IN WATER PC/L	05/15/93-05/15/93	1	298.	298.	298.	298.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0152

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	0	0.00				1	0	0.00	1	0	0.00			
00400	PH	Other-Hi Lim.	9.	2	0	0.00				1	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00				1	0	0.00	1	0	0.00			
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRCA0152

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
07000	TRITIUM, TOTAL	Drinking Water	20000.	1	0	0.00				1	0	0.00						
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00				1	0	0.00						
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	1	1	1.00				1	1	1.00						
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: GRCA0153

NPS Station ID: GRCA0153
LAT/LON: 35.763337/-113.502781
Agency: 112WRD
Date Created: 12/10/94
Location: 234 MILE CANYON ABV MOUTH AT RM234
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 354548113301000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0153

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/91-08/23/91	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/23/91-08/23/91	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/23/91-08/23/91	1	729.	729.	729.	729.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/23/91-08/23/91	1 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/91-08/23/91	1	1066.	1066.	1066.	1066.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/23/91-08/23/91	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/23/91-08/23/91	1	8.57	8.57	8.57	8.57	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/23/91-08/23/91	1	8.57	8.57	8.57	8.57	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/91-08/23/91	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	08/23/91-08/23/91	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	08/23/91-08/23/91	1	422.	422.	422.	422.	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	08/23/91-08/23/91	1	413.	413.	413.	413.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	08/23/91-08/23/91	1	420.	420.	420.	420.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0153

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00							1	0	0.00			
00400	PH	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: GRCA0154

NPS Station ID: GRCA0154 | LAT/LON: 35.770281/-113.525559 | Agency: 112WRD | Date Created: 12/10/94
Location: BRIDGE CANYON ABV MOUTH AT RM235.3 | FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 354613113313200
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 15010002 | Depth of Water: 0 | Aquifer:
Major Basin: | Elevation: 0 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 15010002 | RF1 Mile Point: 0.000 | Distance from RF1: 1.70 | On/Off RF1:
RF3 Index: 15010003042900.00 | RF3 Mile Point: 0.10 | Distance from RF3: 0.02 | On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0154

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/23/91-08/23/91	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/23/91-08/23/91	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/23/91-08/23/91	1	725.	725.	725.	725.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/23/91-08/23/91	1	674.	674.	674.	674.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/23/91-08/23/91	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/23/91-08/23/91	1	8.05	8.05	8.05	8.05	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/23/91-08/23/91	1	8.05	8.05	8.05	8.05	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/23/91-08/23/91	1	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	08/23/91-08/23/91	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	08/23/91-08/23/91	1	376.	376.	376.	376.	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	08/23/91-08/23/91	1	302.	302.	302.	302.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	08/23/91-08/23/91	1	308.	308.	308.	308.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRCA0154

			Total	Exceed	Prop.	10/01-3/14			3/15-6/19			6/20-9/30			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.	1	0	0.00							1	0	0.00			
00400	PH	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: GRCA0155

NPS Station ID: GRCA0155
LAT/LON: 35.763892/-113.526115
Agency: 112WRD
Date Created: 05/07/94
Location: B-28-12 35UNSURV
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 354550113313400
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin: N
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0155

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/15/93-12/08/94	3	22.5	19.9	22.7	14.5	21.88	4.678	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/15/93-12/08/94	3	30.	25.167	34.	11.5	144.083	12.003	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/15/93-12/08/94	2	0.075	0.075	0.09	0.06	0.	0.021	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/15/93-12/08/94	3	631.	621.333	643.	590.	772.333	27.791	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/15/93-05/15/93	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/15/93-12/08/94	2	8.295	8.295	8.35	8.24	0.006	0.078	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/15/93-12/08/94	2	8.292	8.292	8.35	8.24	0.006	0.078	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/15/93-12/08/94	2	0.005	0.005	0.006	0.004	0.	0.001	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/15/93-05/15/93	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/15/93-05/15/93	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/15/93-05/15/93	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/15/93-05/15/93	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/15/93-05/15/93	1	288.	288.	288.	288.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/15/93-05/15/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/15/93-05/15/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/15/93-05/15/93	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/15/93-05/15/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/15/93-05/15/93	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/15/93-05/15/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/15/93-05/15/93	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/15/93-05/15/93	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/15/93-05/15/93	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/15/93-05/15/93	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/15/93-05/15/93	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/15/93-05/15/93	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/15/93-05/15/93	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/15/93-05/15/93	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/15/93-05/15/93	1	35.	35.	35.	35.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/15/93-05/15/93	1	96.	96.	96.	96.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/15/93-05/15/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/15/93-05/15/93	1	170.	170.	170.	170.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/15/93-05/15/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/15/93-05/15/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/15/93-05/15/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/15/93-05/15/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/15/93-05/15/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/15/93-05/15/93	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

Parameter Inventory for Station: GRCA0155

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/15/93-05/15/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/15/93-05/15/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/15/93-05/15/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/15/93-05/15/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/15/93-05/15/93	1	250.	250.	250.	250.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/15/93-05/15/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/15/93-05/15/93	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/15/93-05/15/93	1	23.	23.	23.	23.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/15/93-05/15/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/15/93-05/15/93	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/15/93-05/15/93	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/15/93-05/15/93	1	8.	8.	8.	8.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/15/93-05/15/93	1	5.7	5.7	5.7	5.7	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/15/93-05/15/93	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/15/93-05/15/93	1	260.	260.	260.	260.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/15/93-05/15/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/15/93-05/15/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/15/93-05/15/93	1	1.97	1.97	1.97	1.97	0.	0.	**	**	**	**
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/15/93-05/15/93	1	1.41	1.41	1.41	1.41	0.	0.	**	**	**	**
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/15/93-05/15/93	1	1.18	1.18	1.18	1.18	0.	0.	**	**	**	**
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/15/93-05/15/93	1	1.58	1.58	1.58	1.58	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/15/93-05/15/93	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	05/15/93-05/15/93	1	34.	34.	34.	34.	0.	0.	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/15/93-05/15/93	1	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/15/93-05/15/93	1	5.1	5.1	5.1	5.1	0.	0.	**	**	**	**
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/15/93-05/15/93	1	-78.8	-78.8	-78.8	-78.8	0.	0.	**	**	**	**
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/15/93-05/15/93	1	-10.91	-10.91	-10.91	-10.91	0.	0.	**	**	**	**
82303	RADON 222, TOTAL IN WATER PC/L	05/15/93-05/15/93	1	156.	156.	156.	156.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0155

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00	1	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						

& - 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: GRCA0155

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
07000	TRITIUM, TOTAL	Drinking Water	20000.	1	0	0.00				1	0	0.00						
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00				1	0	0.00						
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	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: GRCA0156

NPS Station ID: GRCA0156
LAT/LON: 35.783059/-113.650005
Agency: 112WRD
Date Created: 04/01/95
Location: B-28-13 26 UNSURV.
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 354659113390000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010005
Depth of Water: 0
Aquifer:
Major Basin: U
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010005
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0156

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/08/94-06/08/94	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/08/94-06/08/94	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/08/94-06/08/94	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/08/94-06/08/94	1	731.	731.	731.	731.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: GRCA0157

NPS Station ID: GRCA0157
LAT/LON: 35.820559/-113.651392
Agency: 112WRD
Date Created: 12/10/94
Location: SPENCER CANYON ABV MOUTH AT RM246
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 354914113390500
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010002
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0157

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	08/24/91-08/24/91	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/24/91-08/24/91	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/24/91-08/24/91	1	37.5	37.5	37.5	37.5	0.	0.	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	08/24/91-08/24/91	1	731.	731.	731.	731.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	08/24/91-08/24/91	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/24/91-08/24/91	1	642.	642.	642.	642.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/24/91-08/24/91	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/24/91-08/24/91	1	8.48	8.48	8.48	8.48	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/24/91-08/24/91	1	8.48	8.48	8.48	8.48	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/24/91-08/24/91	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	08/24/91-08/24/91	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	08/24/91-08/24/91	1	308.	308.	308.	308.	0.	0.	**	**	**	**
39036	ALKALINITY,FILTERED SAMPLE AS CACO3 MG/L	08/24/91-08/24/91	1	287.	287.	287.	287.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	08/24/91-08/24/91	1	292.	292.	292.	292.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0157

				Total	Exceed	Prop.	----------10/01-3/14----------			----------3/15-6/19----------			----------6/20-9/30----------			----------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.	1	0	0.00							1	0	0.00			
00400	PH	Other-Hi Lim.	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: GRCA0158

NPS Station ID: GRCA0158
LAT/LON: 35.856670/-113.677782
Agency: 112WRD
Date Created: 05/07/94
Location: B-29-13 33UNSURV
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 355124113404000
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010005
Depth of Water: 0
Aquifer:
Major Basin: N
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010005
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0158

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/17/93-12/06/94	3	24.4	21.967	24.5	17.	18.503	4.302	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/17/93-12/06/94	3	30.5	25.	32.	12.5	117.75	10.851	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	05/17/93-05/17/93	1	723.	723.	723.	723.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/17/93-12/06/94	2	0.4	0.4	0.6	0.2	0.08	0.283	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/17/93-12/06/94	3	657.	656.	683.	628.	757.	27.514	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/17/93-05/17/93	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/17/93-12/06/94	2	8.245	8.245	8.3	8.19	0.006	0.078	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/17/93-12/06/94	2	8.242	8.242	8.3	8.19	0.006	0.078	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/17/93-12/06/94	2	0.006	0.006	0.006	0.005	0.	0.001	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/17/93-05/17/93	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/17/93-05/17/93	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/17/93-05/17/93	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/17/93-05/17/93	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/17/93-05/17/93	1	332.	332.	332.	332.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/17/93-05/17/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/17/93-05/17/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/17/93-05/17/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/17/93-05/17/93	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/17/93-05/17/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/17/93-05/17/93	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/17/93-05/17/93	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/17/93-05/17/93	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/17/93-05/17/93	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/17/93-05/17/93	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/17/93-05/17/93	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/17/93-05/17/93	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/17/93-05/17/93	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/17/93-05/17/93	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/17/93-05/17/93	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/17/93-05/17/93	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/17/93-05/17/93	1	69.	69.	69.	69.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/17/93-05/17/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/17/93-05/17/93	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/17/93-05/17/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/17/93-05/17/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/17/93-05/17/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/17/93-05/17/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/17/93-05/17/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0158

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01049	LEAD, DISSOLVED (UG/L AS PB)	05/17/93-05/17/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/17/93-05/17/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/17/93-05/17/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/17/93-05/17/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/17/93-05/17/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/17/93-05/17/93	1	210.	210.	210.	210.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/17/93-05/17/93	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/17/93-05/17/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	05/17/93-05/17/93	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/17/93-05/17/93	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/17/93-05/17/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/17/93-05/17/93	1	4.8	4.8	4.8	4.8	0.	0.	**	**	**	**
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/17/93-05/17/93	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/17/93-05/17/93	1	15.	15.	15.	15.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/17/93-05/17/93	1	3.	3.	3.	3.	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/17/93-05/17/93	1	14.	14.	14.	14.	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/17/93-05/17/93	1	284.	284.	284.	284.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/17/93-05/17/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/17/93-05/17/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/17/93-05/17/93	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/17/93-05/17/93	1	1.09	1.09	1.09	1.09	0.	0.	**	**	**	**
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/17/93-05/17/93	1	1.06	1.06	1.06	1.06	0.	0.	**	**	**	**
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/17/93-05/17/93	1	1.39	1.39	1.39	1.39	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/17/93-05/17/93	1	3.86	3.86	3.86	3.86	0.	0.	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/17/93-05/17/93	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/17/93-05/17/93	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/17/93-05/17/93	1	-80.	-80.	-80.	-80.	0.	0.	**	**	**	**
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/17/93-05/17/93	1	-10.83	-10.83	-10.83	-10.83	0.	0.	**	**	**	**
82303	RADON 222, TOTAL IN WATER PC/L	05/17/93-05/17/93	1	122.	122.	122.	122.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0158

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00	1	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						

& - 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: GRCA0158

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	1	0	0.00				1	0	0.00						
		Drinking Water	6.	1	0	0.00				1	0	0.00						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
07000	TRITIUM, TOTAL	Drinking Water	20000.	1	0	0.00				1	0	0.00						
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00				1	0	0.00						
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	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: GRCA0159

NPS Station ID: GRCA0159
Location: LAKE MEAD
Station Type: /TYPA/AMBNT/LAKE
RMI-Indexes:
RMI-Miles:
HUC: 15010005
Major Basin:
Minor Basin:
RF1 Index: 15010005027
RF3 Index: 15010005005308.51
Description:

LAT/LON: 35.965281/-113.751393
Depth of Water: 999
Elevation: 0
RF1 Mile Point: 21.140
RF3 Mile Point: 8.51

Agency: 11EPALES
FIPS State/County: 04015 ARIZONA/MOHAVE
STORET Station ID(s): 320111
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.03

Date Created: 11/25/75
On/Off RF1: ON
On/Off RF3:

Parameter Inventory for Station: GRCA0159

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/26/75-05/23/76	6	11.25	10.75	14.	6.5	9.075	3.012	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/26/75-05/23/76	7	1000.	996.429	1100.	900.	5922.619	76.959	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	10/26/75-05/23/76	7	12.	11.529	13.2	9.2	1.989	1.41	**	**	**	**
00400	PH (STANDARD UNITS)	10/26/75-05/23/76	7	8.25	8.243	8.4	8.1	0.012	0.11	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/26/75-05/23/76	7	8.25	8.231	8.4	8.1	0.012	0.11	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/26/75-05/23/76	7	0.006	0.006	0.008	0.004	0.	0.002	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/26/75-05/23/76	7	140.	127.143	166.	0.	3279.476	57.267	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/26/75-05/23/76	7	0.03	0.027	0.05	0.	0.	0.018	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/26/75-05/23/76	7	0.4	0.386	0.8	0.1	0.061	0.248	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/26/75-05/23/76	7	0.45	0.394	0.57	0.	0.035	0.188	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/26/75-05/23/76	7	0.065	0.147	0.488	0.013	0.032	0.178	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/26/75-05/23/76	7	0.007	0.007	0.016	0.	0.	0.005	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	01/03/76-05/23/76	6	999.	999.	999.	999.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0159

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	7	0	0.00	4	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	0	0.00	4	0	0.00	3	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	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

Station Inventory for Station: GRCA0160

NPS Station ID: GRCA0160
LAT/LON: 35.963337/-113.762505
Agency: 112WRD
Date Created: 05/07/94
Location: B-30-14 26UNSURV
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 355748113454500
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010005
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0160

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/17/93-12/07/94	3	21.8	21.6	22.	21.	0.28	0.529	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/17/93-12/07/94	3	29.5	25.5	31.	16.	68.25	8.261	**	**	**	**
00025	BAROMETRIC PRESSURE (MM OF HG)	05/17/93-05/17/93	1	732.	732.	732.	732.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/17/93-12/07/94	2	4.5	4.5	5.	4.	0.5	0.707	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/17/93-12/07/94	3	737.	751.333	784.	733.	804.333	28.361	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/17/93-05/17/93	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/17/93-12/07/94	2	7.78	7.78	7.87	7.69	0.016	0.127	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/17/93-12/07/94	2	7.771	7.771	7.87	7.69	0.016	0.128	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/17/93-12/07/94	2	0.017	0.017	0.02	0.013	0.	0.005	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	05/17/93-05/17/93	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	05/17/93-05/17/93	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/17/93-05/17/93	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	05/17/93-05/17/93	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	05/17/93-05/17/93	1	478.	478.	478.	478.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/17/93-05/17/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	05/17/93-05/17/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/17/93-05/17/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/17/93-05/17/93	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/17/93-05/17/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/17/93-05/17/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/17/93-05/17/93	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/17/93-05/17/93	1	64.	64.	64.	64.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/17/93-05/17/93	1	59.	59.	59.	59.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/17/93-05/17/93	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/17/93-05/17/93	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/17/93-05/17/93	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/17/93-05/17/93	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/17/93-05/17/93	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/17/93-05/17/93	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/17/93-05/17/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/17/93-05/17/93	1	45.	45.	45.	45.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	05/17/93-05/17/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/17/93-05/17/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/17/93-05/17/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/17/93-05/17/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	05/17/93-05/17/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/17/93-05/17/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/17/93-05/17/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRCA0160

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01049	LEAD, DISSOLVED (UG/L AS PB)	05/17/93-05/17/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/17/93-05/17/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	05/17/93-05/17/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	05/17/93-05/17/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/17/93-05/17/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	05/17/93-05/17/93	1	180.	180.	180.	180.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	05/17/93-05/17/93	1 ##	3.	3.	3.	3.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/17/93-05/17/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	05/17/93-05/17/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	05/17/93-05/17/93	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/17/93-05/17/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	05/17/93-05/17/93	1	2.9	2.9	2.9	2.9	0.	0.	**	**	**	**
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	05/17/93-05/17/93	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	05/17/93-05/17/93	1	18.	18.	18.	18.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	05/17/93-05/17/93	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	05/17/93-05/17/93	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	05/17/93-05/17/93	1	392.	392.	392.	392.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/17/93-05/17/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	05/17/93-05/17/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	05/17/93-05/17/93	1	1.32	1.32	1.32	1.32	0.	0.	**	**	**	**
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	05/17/93-05/17/93	1	0.97	0.97	0.97	0.97	0.	0.	**	**	**	**
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	05/17/93-05/17/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	05/17/93-05/17/93	1	1.33	1.33	1.33	1.33	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	05/17/93-05/17/93	1	0.61	0.61	0.61	0.61	0.	0.	**	**	**	**
76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	05/17/93-05/17/93	1	33.	33.	33.	33.	0.	0.	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	05/17/93-05/17/93	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	05/17/93-05/17/93	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	05/17/93-05/17/93	1	-81.1	-81.1	-81.1	-81.1	0.	0.	**	**	**	**
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	05/17/93-05/17/93	1	-11.2	-11.2	-11.2	-11.2	0.	0.	**	**	**	**
82303	RADON 222, TOTAL IN WATER PC/L	05/17/93-05/17/93	1	196.	196.	196.	196.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRCA0160

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00				1	0	0.00						
00400	PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00	1	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						

& - 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: GRCA0160

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	1	0	0.00				1	0	0.00						
		Drinking Water	6.	1	0	0.00				1	0	0.00						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
07000	TRITIUM, TOTAL	Drinking Water	20000.	1	0	0.00				1	0	0.00						
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00				1	0	0.00						
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	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: GRCA0161

NPS Station ID: GRCA0161
LAT/LON: 35.958892/-113.765281
Agency: 112WRD
Date Created: 04/01/95
Location: B-30-14 27 UNSURV
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 355732113455501
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010005
Depth of Water: 0
Aquifer:
Major Basin: U
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010005
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0161

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/07/94-12/07/94	1	780.	780.	780.	780.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	12/07/94-12/07/94	1	7.39	7.39	7.39	7.39	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/07/94-12/07/94	1	7.39	7.39	7.39	7.39	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/07/94-12/07/94	1	0.041	0.041	0.041	0.041	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0161

			Total	Exceed	Prop.	----------10/01-3/14----------			----------3/15-6/19----------			----------6/20-9/30----------			----------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.	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: GRCA0162

NPS Station ID: GRCA0162
LAT/LON: 36.053337/-113.876115
Agency: 112WRD
Date Created: 04/01/95
Location: B-31-15 26 UNSURV.
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 360312113523400
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010005
Depth of Water: 0
Aquifer:
Major Basin: U
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010005
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/05/94-12/06/94	2	24.	24.	25.	23.	2.	1.414	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/05/94-12/06/94	2	23.5	23.5	32.	15.	144.5	12.021	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/05/94-12/06/94	2	0.045	0.045	0.06	0.03	0.	0.021	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/05/94-06/05/94	1	600.	600.	600.	600.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	12/06/94-12/06/94	1	8.38	8.38	8.38	8.38	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	12/06/94-12/06/94	1	8.38	8.38	8.38	8.38	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/06/94-12/06/94	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRCA0162

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 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: GRCA0163

NPS Station ID: GRCA0163
Location: COLUMBINE FALLS
Station Type: /TYPA/AMBNT/LAKE
RMI-Indexes:
RMI-Miles:
HUC: 15010005
Major Basin: COLORADO RIVER
Minor Basin: LOWER COLORADO
RF1 Index: 15010005
RF3 Index: 15010005114300.00
Description:

LAT/LON: 36.093503/-113.912420
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 0.59

Agency: 11USBRLC
FIPS State/County: 04015 ARIZONA/MOHAVE
STORET Station ID(s): LM13 /85
Within Park Boundary: Yes
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 5.80
Distance from RF3: 0.20

Date Created: 02/28/87
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: GRCA0163

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: GRCA0164

NPS Station ID: GRCA0164
LAT/LON: 35.968615/-113.938337
Agency: 112WRD
Date Created: 09/04/93
Location: B-30-15 19CCA
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 355807113561800
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010005
Depth of Water: 0
Aquifer:
Major Basin: U
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010005
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010003042900.00
RF3 Mile Point: 0.10
Distance from RF3: 0.02
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0164

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/93-11/17/93	2	14.45	14.45	14.5	14.4	0.005	0.071	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/11/93-06/11/93	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/11/93-11/17/93	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/11/93-11/17/93	2	704.5	704.5	734.	675.	1740.5	41.719	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/11/93-11/17/93	2	4.75	4.75	9.1	0.4	37.845	6.152	**	**	**	**
00400	PH (STANDARD UNITS)	06/11/93-11/17/93	2	7.885	7.885	8.04	7.73	0.048	0.219	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/11/93-11/17/93	2	7.858	7.858	8.04	7.73	0.05	0.223	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/11/93-11/17/93	2	0.014	0.014	0.019	0.009	0.	0.007	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/11/93-06/11/93	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/11/93-06/11/93	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/11/93-06/11/93	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	06/11/93-11/17/93	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	06/11/93-11/17/93	2	434.5	434.5	448.	421.	364.5	19.092	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	06/11/93-06/11/93	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/11/93-06/11/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/11/93-06/11/93	1 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/11/93-06/11/93	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/11/93-06/11/93	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/11/93-06/11/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/93-06/11/93	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/11/93-06/11/93	1	58.	58.	58.	58.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/11/93-06/11/93	1	55.	55.	55.	55.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/11/93-06/11/93	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/11/93-06/11/93	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/11/93-06/11/93	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/11/93-06/11/93	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/11/93-06/11/93	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/11/93-06/11/93	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/11/93-06/11/93	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	06/11/93-06/11/93	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	06/11/93-06/11/93	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	06/11/93-06/11/93	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	06/11/93-06/11/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/11/93-06/11/93	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01035	COBALT, DISSOLVED (UG/L AS CO)	06/11/93-06/11/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/11/93-06/11/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/11/93-06/11/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/11/93-06/11/93	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

Parameter Inventory for Station: GRCA0164

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/11/93-06/11/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	06/11/93-06/11/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	06/11/93-06/11/93	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	06/11/93-06/11/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	06/11/93-06/11/93	1	150.	150.	150.	150.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	06/11/93-06/11/93	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/11/93-06/11/93	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	06/11/93-06/11/93	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01130	LITHIUM, DISSOLVED (UG/L AS LI)	06/11/93-06/11/93	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	06/11/93-06/11/93	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	06/11/93-11/17/93	2	1.55	1.55	2.	1.1	0.405	0.636	**	**	**	**
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	06/11/93-11/17/93	2	1.25	1.25	1.6	0.9	0.245	0.495	**	**	**	**
07000	TRITIUM (1H3),TOTAL (PICOCURIES/LITER)	06/11/93-11/17/93	2	29.5	29.5	32.	27.	12.5	3.536	**	**	**	**
22603	URANIUM 238, DISSOLVED, PC/L	11/17/93-11/17/93	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
22610	URANIUM 234, DISSOLVED, PC/L	11/17/93-11/17/93	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
22620	URANIUM 235, DISSOLVED. PC/L	11/17/93-11/17/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	06/11/93-11/17/93	2	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
28011	URANIUM,NATURAL,TOTAL UG/L AS U	06/11/93-06/11/93	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	06/11/93-11/17/93	2	356.	356.	367.	345.	242.	15.556	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	06/11/93-06/11/93	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
75985	TRITIUM,1 SIGMA PRC EST, TOTAL, WATER PC/L	06/11/93-11/17/93	2	2.	2.	2.	2.	0.	0.	**	**	**	**
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	06/11/93-11/17/93	2	1.015	1.015	1.35	0.68	0.224	0.474	**	**	**	**
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	06/11/93-11/17/93	2	0.705	0.705	0.94	0.47	0.11	0.332	**	**	**	**
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	06/11/93-11/17/93	2	0.76	0.76	0.76	0.76	0.	0.	**	**	**	**
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	06/11/93-11/17/93	2	1.01	1.01	1.02	1.	0.	0.014	**	**	**	**
75991	URANIUM 238,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	11/17/93-11/17/93	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
75992	URANIUM 234,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	11/17/93-11/17/93	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
75993	URANIUM,NATURAL,1 SIGMA PRC EST,TOTAL,WATER UG/L	06/11/93-06/11/93	1	0.54	0.54	0.54	0.54	0.	0.	**	**	**	**
75994	URANIUM 235,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	11/17/93-11/17/93	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
76002	RADON 222,1 SIGMA PRC EST,TOTAL,WATER PC/L	06/11/93-06/11/93	1	47.	47.	47.	47.	0.	0.	**	**	**	**
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	06/11/93-11/17/93	2	1.8	1.8	2.3	1.3	0.5	0.707	**	**	**	**
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	06/11/93-11/17/93	2	1.15	1.15	1.5	0.8	0.245	0.495	**	**	**	**
82082	DEUTERIUM/PROTIUM (H-2/H-1) STABLE ISOTOPE RATIO	06/11/93-11/17/93	2	-84.4	-84.4	-84.2	-84.6	0.08	0.283	**	**	**	**
82085	OXYGEN-18/OXYGEN-16 STABLE ISOTOPE RATIO PER MIL	06/11/93-11/17/93	2	-11.74	-11.74	-11.68	-11.8	0.007	0.085	**	**	**	**
82303	RADON 222, TOTAL IN WATER PC/L	06/11/93-06/11/93	1	210.	210.	210.	210.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRCA0164

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	1	0.50	1	0	0.00	1	1	1.00						
00400	PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00	1	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
		Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	1	0	0.00				1	0	0.00						
		Drinking Water	4.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						

& - 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: GRCA0164

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	1	0	0.00				1	0	0.00						
		Drinking Water	6.	1	0	0.00				1	0	0.00						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
07000	TRITIUM, TOTAL	Drinking Water	20000.	2	0	0.00	1	0	0.00	1	0	0.00						
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	2	0	0.00	1	0	0.00	1	0	0.00						
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	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						

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Station Inventory for Station: GRCA0165

NPS Station ID: GRCA0165 | LAT/LON: 36.141670/-113.973060 | Agency: 11EPALES | Date Created: / /
Location: LAKE MEAD | FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): 320145
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 15010005 | Depth of Water: 25 | Aquifer:
Major Basin: | Elevation: 0 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 15010005006 | RF1 Mile Point: 3.910 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: 15010005006400.00 | RF3 Mile Point: 0.00 | Distance from RF3: 0.25 | On/Off RF3:
Description:
IN MAIN RIVER CHANNEL, AT MOUTH OF COLORADO WITHIN PLUME; 2/3 OF WAY TO N SHORE, ABOUT 230 DEGREES TO PIERCE FERRY ROAD (CURVE ON HILLSIDE) COVE W/VISIBLE SUBMERGED SHRUBS ON N SHORE. COMMENTS: 2-24 NO ULE; PROBE RESULTS FOR D.O.; PH LAB RESULTS. 6-12 NO ULE; NO LIGHT METER; NO TURB; INTEG 12 FT.

Parameter Inventory for Station: GRCA0165

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/24/75-11/21/75	10	8.45	10.34	15.8	7.8	12.778	3.575	7.8	7.875	15.325	15.76
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	02/24/75-11/21/75	7	93.2	83.757	98.	30.	576.753	24.016	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	02/24/75-11/21/75	3	22.	25.333	36.	18.	89.333	9.452	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	02/24/75-11/21/75	10	624.	712.7	929.	561.	23158.456	152.179	561.9	609.	919.25	928.1
00300	OXYGEN, DISSOLVED MG/L	02/24/75-11/21/75	10	10.4	11.37	14.	9.2	3.649	1.91	9.24	9.75	13.5	13.98
00400	PH (STANDARD UNITS)	02/24/75-11/21/75	10	8.3	8.305	8.4	8.2	0.004	0.064	8.205	8.25	8.363	8.4
00400	CONVERTED PH (STANDARD UNITS)	02/24/75-11/21/75	10	8.3	8.301	8.4	8.2	0.004	0.064	8.205	8.25	8.362	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/24/75-11/21/75	10	0.005	0.005	0.006	0.004	0.	0.001	0.004	0.004	0.006	0.006
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/24/75-11/21/75	10	152.5	151.8	155.	147.	9.733	3.12	147.2	149.	155.	155.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/24/75-11/21/75	10	0.02	0.02	0.05	0.01	0.	0.012	0.01	0.01	0.023	0.048
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	02/24/75-11/21/75	10	0.3	0.28	0.6	0.1	0.028	0.169	0.1	0.1	0.35	0.59
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/24/75-11/21/75	10	0.49	0.489	0.5	0.47	0.	0.01	0.471	0.48	0.5	0.5
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/24/75-11/21/75	10	0.019	0.019	0.035	0.009	0.	0.007	0.009	0.015	0.022	0.034
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/24/75-11/21/75	10	0.007	0.007	0.018	0.003	0.	0.005	0.003	0.004	0.009	0.017
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	02/24/75-11/21/75	3	0.7	0.833	1.1	0.7	0.053	0.231	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	02/24/75-11/21/75	3	20.	20.333	25.	16.	20.333	4.509	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRCA0165

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	10	0	0.00	7	0	0.00	3	0	0.00						
00400	PH	Other-Hi Lim.	9.	10	0	0.00	7	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	10	0	0.00	7	0	0.00	3	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	10	0	0.00	7	0	0.00	3	0	0.00						

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Station Inventory for Station: GRCA0166

NPS Station ID: GRCA0166
LAT/LON: 36.130559/-113.983337
Agency: 11USBRLC
Date Created: 02/28/87
Location: PIERCE FERRY BAY
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): PF
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010005
Depth of Water: 0
Aquifer:
Major Basin: COLORADO RIVER
Elevation: 0
Water Body Id:
Minor Basin: LOWER COLORADO
ECO Region:
RF1 Index: 15010005
RF1 Mile Point: 0.000
Distance from RF1: 1.00
On/Off RF1:
RF3 Index: 15010005002702.23
RF3 Mile Point: 2.31
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	104	19.	19.106	29.	7.	31.513	5.614	12.	14.	24.	27.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	102	980.	924.941	1690.	390.	79684.65	282.285	459.3	745.	1065.	1151.
00400	PH (STANDARD UNITS)	11/01/43-07/01/52	84	8.	7.957	8.6	7.1	0.098	0.313	7.6	7.7	8.2	8.3
00400	CONVERTED PH (STANDARD UNITS)	11/01/43-07/01/52	84	8.	7.838	8.6	7.1	0.112	0.335	7.6	7.7	8.2	8.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/01/43-07/01/52	84	0.01	0.015	0.079	0.003	0.	0.013	0.005	0.006	0.02	0.025
00440	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	119	154.	154.756	318.	74.	1116.254	33.41	116.	138.	165.	182.
00445	CARBONATE ION (MG/L AS CO3)	11/01/43-07/01/49	13	2.	4.615	13.	1.	16.756	4.093	1.	2.	7.5	12.2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	109	81.	74.45	127.	32.	457.879	21.398	40.	61.	88.	94.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	109	28.	29.073	305.	9.	782.124	27.966	14.	21.5	31.	35.
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/01/43-07/01/52	46	91.	90.109	174.	20.	1616.455	40.205	31.4	66.5	108.5	154.5
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/50-07/01/52	21	5.	4.19	6.	2.	2.062	1.436	2.	3.	5.	6.
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	110	74.	69.909	164.	14.	957.313	30.94	22.2	53.75	87.	102.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	107	268.	240.43	454.	27.	8704.946	93.3	90.8	173.	299.	324.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	104	632.	585.202	1115.	73.	41768.551	204.374	264.	507.	688.	762.

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

EPA Water Quality Criteria Analysis for Station: GRCA0166

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Other-Hi Lim.	9.	84	0	0.00	43	0	0.00	24	0	0.00	17	0	0.00			
		Other-Lo Lim.	6.5	84	0	0.00	43	0	0.00	24	0	0.00	17	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	110	0	0.00	55	0	0.00	30	0	0.00	25	0	0.00			
		Drinking Water	250.	110	0	0.00	55	0	0.00	30	0	0.00	25	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	107	65	0.61	54	51	0.94	29	10	0.34	24	4	0.17			

& - 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 1941 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	2	18.	18.	19.	17.	2.	1.414	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	2	960.	960.	970.	950.	200.	14.142	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	2	149.	149.	150.	148.	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 box-and-whisker plot

Annual Analysis for 1942 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	9	19.	20.333	27.	14.	24.75	4.975	14.	16.	25.5	27.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	10	1000.	892.	1090.	540.	47573.333	218.113	543.	630.	1060.	1087.
00440p	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	10	153.5	149.3	163.	120.	174.678	13.217	121.8	140.25	160.	162.7
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	5	76.	68.8	79.	47.	172.7	13.142	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	5	34.	30.2	36.	17.	61.7	7.855	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	3	87.	87.333	88.	87.	0.333	0.577	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	3	300.	298.	304.	290.	52.	7.211	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	3	680.	681.	689.	674.	57.	7.55	**	**	**	**

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

Annual Analysis for 1943 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	5	19.	19.2	28.	14.	33.7	5.805	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	10	840.	842.	1090.	470.	46417.778	215.448	485.	627.5	1042.5	1086.
00400	PH (STANDARD UNITS)	11/01/43-07/01/52	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/01/43-07/01/52	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/01/43-07/01/52	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	10	144.5	146.2	167.	116.	231.289	15.208	118.	136.75	161.5	166.6
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	6	83.5	79.333	90.	65.	133.067	11.535	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	6	30.5	29.833	34.	24.	17.767	4.215	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	9	65.	61.778	78.	26.	349.444	18.693	26.	48.	77.5	78.
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	7	291.	248.143	307.	102.	5452.81	73.843	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	7	658.	543.571	692.	73.	48167.952	219.472	**	**	**	**

** - 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 1944 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	8	17.5	18.875	27.	13.	21.554	4.643	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	11	1020.	870.909	1090.	390.	71929.091	268.196	394.	610.	1050.	1084.
00400	PH (STANDARD UNITS)	11/01/43-07/01/52	6	8.25	8.15	8.4	7.7	0.083	0.288	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/01/43-07/01/52	6	8.247	8.064	8.4	7.7	0.092	0.303	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/01/43-07/01/52	6	0.006	0.009	0.02	0.004	0.	0.006	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	11	151.	137.909	171.	74.	889.691	29.828	79.8	116.	160.	169.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	11	75.	70.364	93.	38.	373.055	19.315	39.	50.	87.	92.2
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	11	29.	25.091	35.	9.	80.091	8.949	9.2	17.	31.	34.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	11	74.	70.273	89.	18.	480.818	21.928	22.6	69.	88.	88.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	11	267.	226.091	314.	79.	7357.491	85.776	79.8	139.	287.	309.2
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	10	641.5	543.6	723.	136.	47435.378	217.797	136.8	438.	662.	718.1

** - 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 1945 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	12	19.	19.333	28.	12.	30.788	5.549	12.3	14.	24.	27.7
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	12	1030.	920.833	1090.	450.	56317.424	237.313	453.	795.	1075.	1087.
00400	PH (STANDARD UNITS)	11/01/43-07/01/52	10	7.9	7.86	8.2	7.3	0.094	0.306	7.33	7.6	8.125	8.2
00400	CONVERTED PH (STANDARD UNITS)	11/01/43-07/01/52	10	7.889	7.758	8.2	7.3	0.105	0.325	7.33	7.6	8.125	8.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/01/43-07/01/52	10	0.013	0.017	0.05	0.006	0.	0.014	0.006	0.008	0.025	0.048
00440p	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	12	153.	150.25	192.	112.	442.932	21.046	115.3	134.25	161.	183.9
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	12	82.	73.917	88.	32.	361.356	19.009	34.4	66.25	85.	87.7
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	12	29.	26.417	31.	14.	26.265	5.125	16.1	22.5	29.	31.
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	12	78.	67.917	86.	24.	514.083	22.673	24.	54.75	82.25	85.4
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	12	278.5	246.917	302.	92.	5857.174	76.532	94.1	210.25	295.	300.2
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	12	661.5	581.	689.	261.	25703.091	160.322	262.8	500.	678.75	686.6

** - 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 1946 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	9	17.	18.444	29.	12.	38.028	6.167	12.	13.5	24.	29.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	9	1040.	976.667	1160.	510.	43275.	208.026	510.	860.	1130.	1160.
00400	PH (STANDARD UNITS)	11/01/43-07/01/52	8	8.2	8.225	8.3	8.1	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/01/43-07/01/52	8	8.2	8.22	8.3	8.1	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/01/43-07/01/52	8	0.006	0.006	0.008	0.005	0.	0.001	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	9	165.	155.778	172.	110.	398.944	19.974	110.	147.5	169.5	172.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	9	86.	78.556	94.	40.	334.528	18.29	40.	65.	93.	94.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	9	29.	26.667	31.	14.	30.25	5.5	14.	24.5	30.5	31.
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	9	75.	73.667	94.	27.	419.	20.469	27.	66.5	89.5	94.
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	9	287.	256.778	323.	102.	5743.444	75.786	102.	198.5	320.	323.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	9	677.	615.556	749.	285.	22998.528	151.653	285.	522.5	738.5	749.

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

Annual Analysis for 1947 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	8	21.5	21.625	27.	15.	16.268	4.033	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	11	960.	820.	1130.	400.	73380.	270.887	404.	480.	980.	1128.
00400	PH (STANDARD UNITS)	11/01/43-07/01/52	7	8.	8.014	8.5	7.6	0.098	0.313	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/01/43-07/01/52	7	8.	7.926	8.5	7.6	0.107	0.327	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/01/43-07/01/52	7	0.01	0.012	0.025	0.003	0.	0.008	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	11	153.	145.818	182.	110.	525.364	22.921	111.6	122.	155.	180.8
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	11	74.	70.364	94.	42.	362.055	19.028	42.8	50.	84.	93.6
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	11	24.	22.818	31.	13.	35.364	5.947	13.2	17.	27.	30.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	11	61.	57.909	91.	20.	614.891	24.797	20.2	31.	84.	90.
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	11	229.	199.455	355.	27.	11196.673	105.814	38.6	96.	282.	346.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	11	614.	536.091	771.	254.	32411.091	180.031	258.2	308.	633.	763.4

** - 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 1948 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	11	17.	18.545	27.	11.	36.273	6.023	11.2	13.	26.	26.8
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	2	965.	965.	970.	960.	50.	7.071	**	**	**	**

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

Annual Analysis for 1948 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	11/01/43-07/01/52	11	8.1	8.027	8.6	7.6	0.082	0.287	7.62	7.7	8.2	8.52
00400	CONVERTED PH (STANDARD UNITS)	11/01/43-07/01/52	11	8.1	7.946	8.6	7.6	0.089	0.299	7.62	7.7	8.2	8.52
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/01/43-07/01/52	11	0.008	0.011	0.025	0.003	0.	0.007	0.003	0.006	0.02	0.024
00440p	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	11	153.	144.	166.	99.	440.	20.976	102.4	134.	161.	165.4
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	11	84.	71.727	92.	37.	474.818	21.79	37.	48.	88.	91.4
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	11	25.	23.636	32.	11.	54.655	7.393	11.2	17.	30.	31.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	11	64.	63.636	100.	15.	846.455	29.094	16.4	32.	89.	98.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	11	268.	224.273	319.	67.	8647.418	92.991	70.	132.	294.	316.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	11	620.	546.909	743.	226.	36578.491	191.255	229.	361.	698.	738.6

** - 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 1949 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	11	21.	19.455	29.	10.	35.873	5.989	10.4	13.	23.	28.4
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	3	947.	983.	1060.	942.	4453.	66.731	**	**	**	**
00400	PH (STANDARD UNITS)	11/01/43-07/01/52	11	8.	8.045	8.6	7.1	0.143	0.378	7.26	8.	8.3	8.56
00400	CONVERTED PH (STANDARD UNITS)	11/01/43-07/01/52	11	8.	7.839	8.6	7.1	0.19	0.436	7.26	8.	8.3	8.56
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/01/43-07/01/52	11	0.01	0.014	0.079	0.003	0.	0.022	0.003	0.005	0.01	0.066
00440p	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	11	157.	145.545	166.	100.	448.473	21.177	103.2	133.	161.	165.4
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	11	74.	69.364	88.	38.	297.455	17.247	39.2	56.	84.	87.8
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	11	24.	22.727	30.	11.	37.618	6.133	12.	16.	28.	29.8
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	11	70.	60.727	89.	14.	655.818	25.609	15.6	37.	78.	88.6
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	11	251.	221.727	311.	87.	5512.218	74.244	91.	161.	274.	307.4
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	11	595.	532.545	743.	237.	24165.873	155.454	250.8	400.	643.	724.6

** - 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 1950 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	11	17.	19.727	29.	10.	40.618	6.373	10.6	16.	26.	29.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	12	958.5	891.5	1100.	448.	42411.545	205.941	468.1	857.	1027.5	1094.
00400	PH (STANDARD UNITS)	11/01/43-07/01/52	12	7.8	7.783	8.1	7.4	0.047	0.217	7.43	7.6	7.975	8.07
00400	CONVERTED PH (STANDARD UNITS)	11/01/43-07/01/52	12	7.8	7.732	8.1	7.4	0.05	0.223	7.43	7.6	7.975	8.07
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/01/43-07/01/52	12	0.016	0.019	0.04	0.008	0.	0.01	0.009	0.011	0.025	0.037
00440p	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	12	165.	158.	179.	112.	358.	18.921	118.6	149.5	170.5	176.6
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	12	77.5	73.583	112.	36.	390.629	19.764	38.7	64.	83.5	104.2
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	12	28.5	49.5	305.	15.	6509.727	80.683	15.3	23.5	31.5	224.
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	12	68.	63.75	98.	25.	490.386	22.145	25.3	51.25	80.	93.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	12	252.5	237.833	322.	96.	4453.97	66.738	105.	216.	279.25	316.6
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	12	604.5	574.75	758.	277.	19914.932	141.12	296.2	532.	671.75	742.1

** - 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 1951 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	11	17.	18.273	29.	8.	52.218	7.226	8.4	12.	26.	28.4
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	11	1089.	1047.	1550.	435.	130130.8	360.736	467.8	668.	1290.	1540.
00400	PH (STANDARD UNITS)	11/01/43-07/01/52	11	7.8	7.791	8.2	7.2	0.087	0.295	7.28	7.6	8.1	8.18
00400	CONVERTED PH (STANDARD UNITS)	11/01/43-07/01/52	11	7.8	7.694	8.2	7.2	0.097	0.312	7.28	7.6	8.1	8.18

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

Annual Analysis for 1951 - Station GRCA0166

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	11/01/43-07/01/52	11	0.016	0.02	0.063	0.006	0.	0.016	0.007	0.008	0.025	0.056
00440p	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	11	181.	178.091	238.	121.	1637.891	40.471	122.4	141.	216.	234.2
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	12	91.5	84.5	122.	38.	688.455	26.238	41.	60.75	96.	121.7
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	12	33.	31.333	47.	13.	118.606	10.891	14.2	21.	39.5	46.4
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	12	102.	88.167	134.	22.	1481.606	38.492	25.	55.	122.75	132.8
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	11	310.	281.182	453.	91.	13165.164	114.74	99.8	155.	333.	448.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	11	708.	688.273	1040.	267.	63805.818	252.598	285.6	417.	840.	1034.

** - Less than 9 observations ## - Computed with 50% or 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 GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	5	18.	14.8	20.	7.	34.7	5.891	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	7	1350.	1109.429	1690.	402.	322014.619	567.463	**	**	**	**
00400	PH (STANDARD UNITS)	11/01/43-07/01/52	7	7.7	7.814	8.3	7.5	0.091	0.302	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/01/43-07/01/52	7	7.7	7.736	8.3	7.5	0.099	0.314	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/01/43-07/01/52	7	0.02	0.018	0.032	0.005	0.	0.011	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	7	228.	210.	318.	113.	6125.667	78.267	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	7	101.	81.857	127.	38.	1689.81	41.107	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	7	32.	32.143	51.	13.	287.81	16.965	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	7	128.	90.429	164.	18.	4538.619	67.369	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	7	329.	266.571	454.	77.	29509.952	171.785	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	7	864.	689.429	1115.	241.	166312.286	407.814	**	**	**	**

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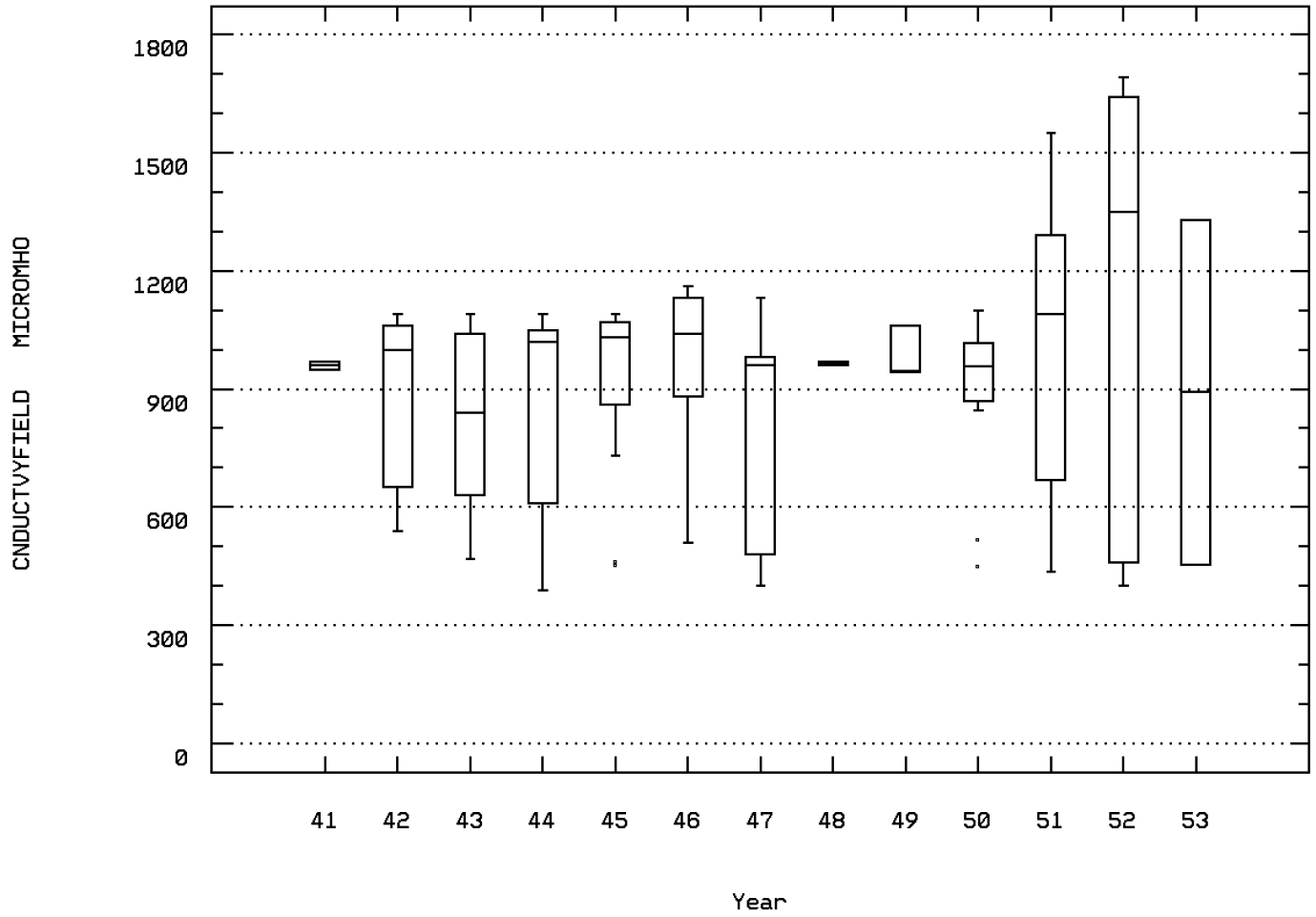
Annual Analysis for 1953 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	2	20.	20.	24.	16.	32.	5.657	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	2	892.	892.	1330.	454.	383688.	619.426	**	**	**	**
00440p	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	2	163.5	163.5	212.	115.	4704.5	68.589	**	**	**	**
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	2	65.5	65.5	92.	39.	1404.5	37.477	**	**	**	**
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	2	25.	25.	35.	15.	200.	14.142	**	**	**	**
00940p	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	2	80.	80.	132.	28.	5408.	73.539	**	**	**	**
00945p	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	2	210.5	210.5	331.	90.	29040.5	170.413	**	**	**	**

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Station: GRCA0166 Parameter Code: 00094

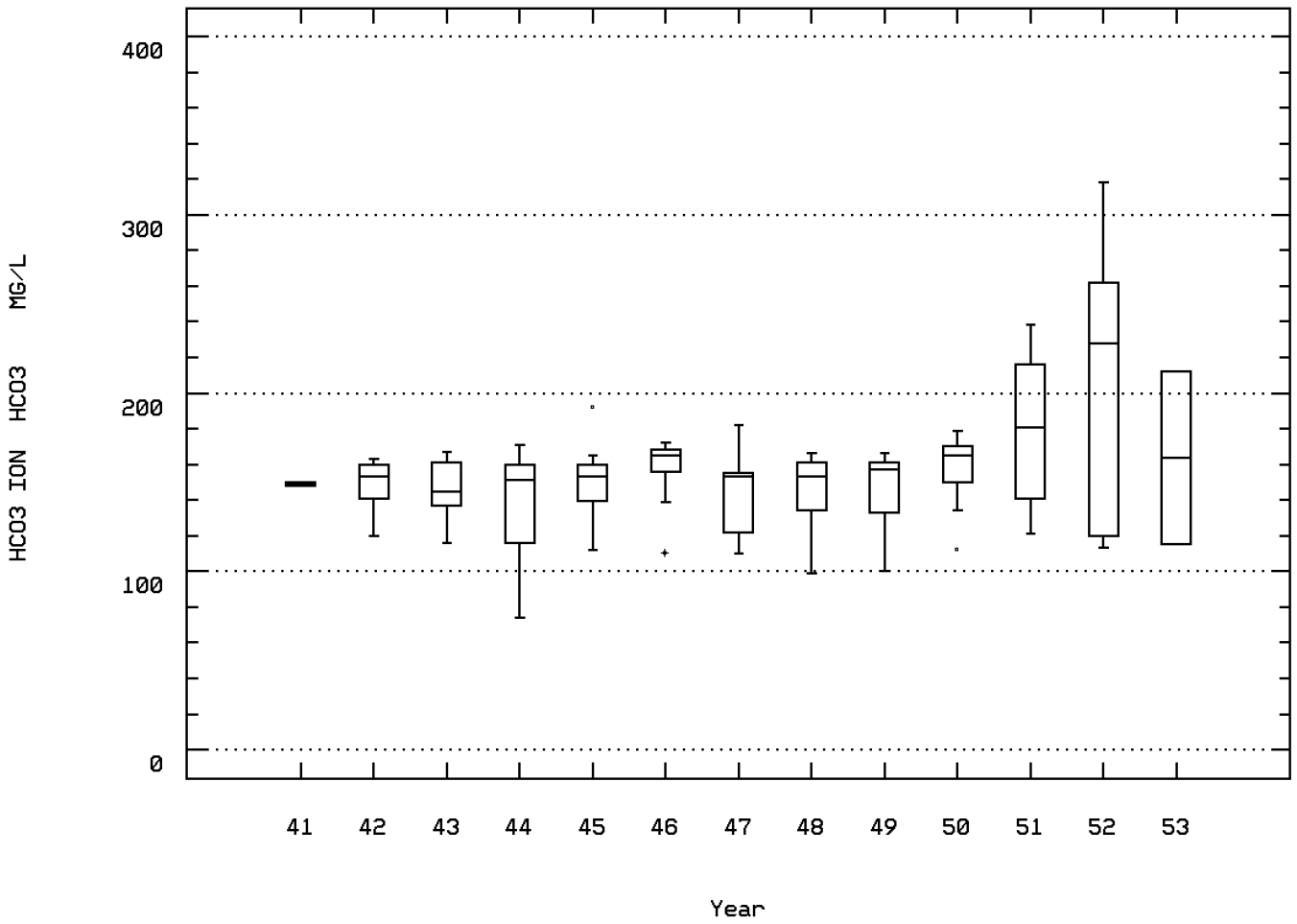
SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @



PIERCE FERRY BAY

Station: GRCA0166 Parameter Code: 00440

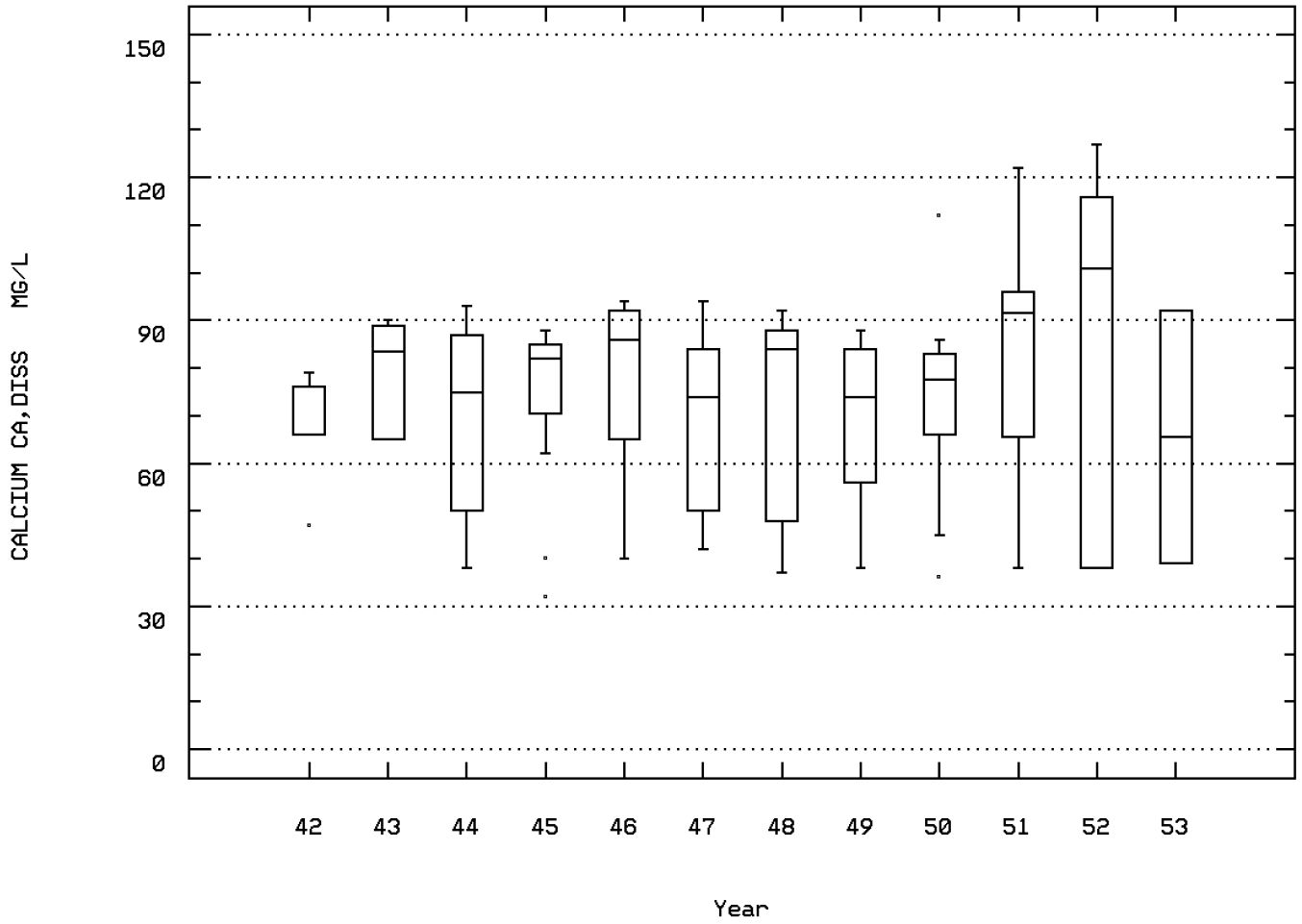
BICARBONATE ION (MG/L AS HCO3)



PIERCE FERRY BAY

Station: GRCA0166 Parameter Code: 00915

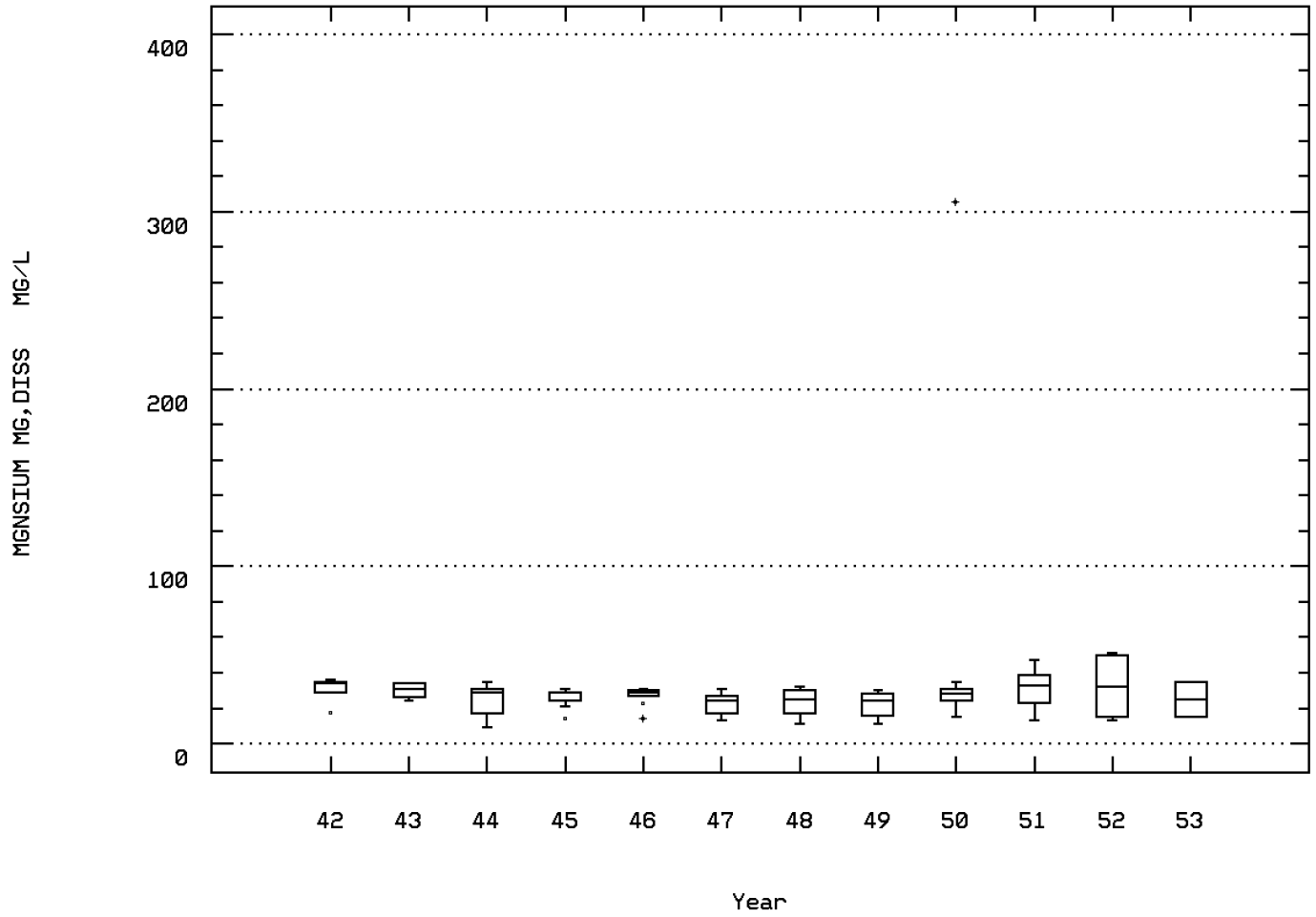
CALCIUM, DISSOLVED (MG/L AS CA)



PIERCE FERRY BAY

Station: GRCA0166 Parameter Code: 00925

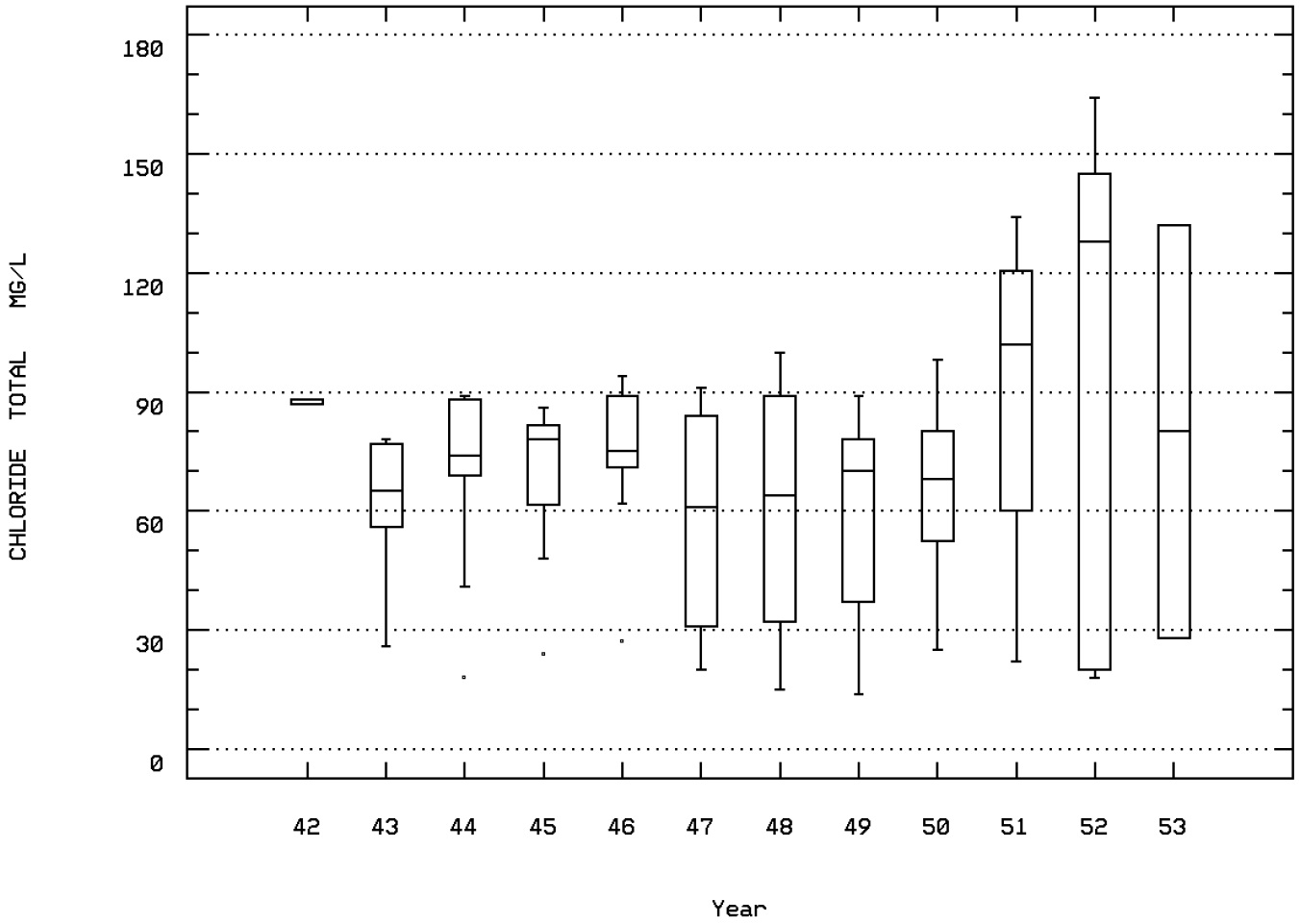
MAGNESIUM, DISSOLVED (MG/L AS MG)



PIERCE FERRY BAY

Station: GRCA0166 Parameter Code: 00940

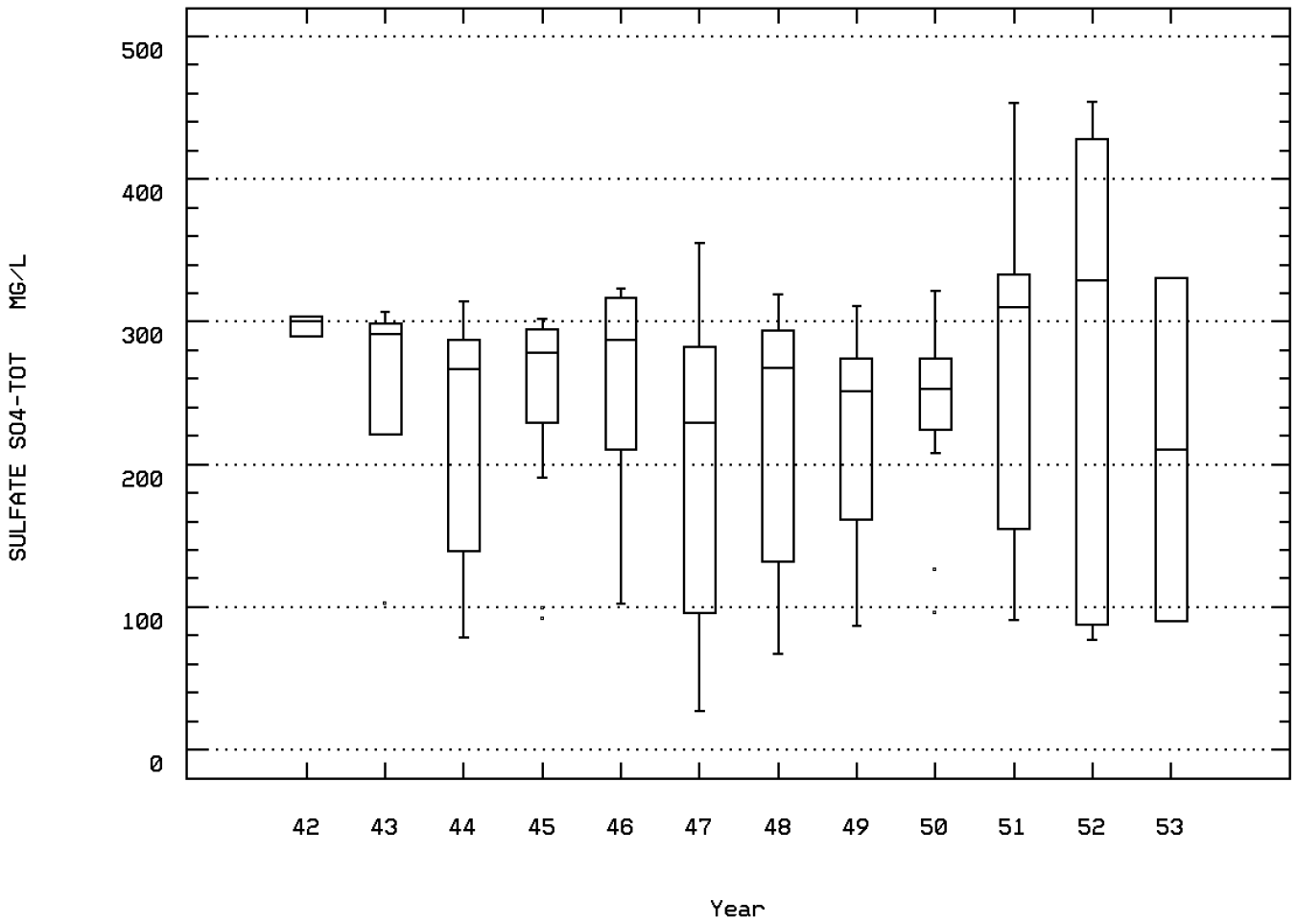
CHLORIDE,TOTAL IN WATER



PIERCE FERRY BAY

Station: GRCA0166 Parameter Code: 00945

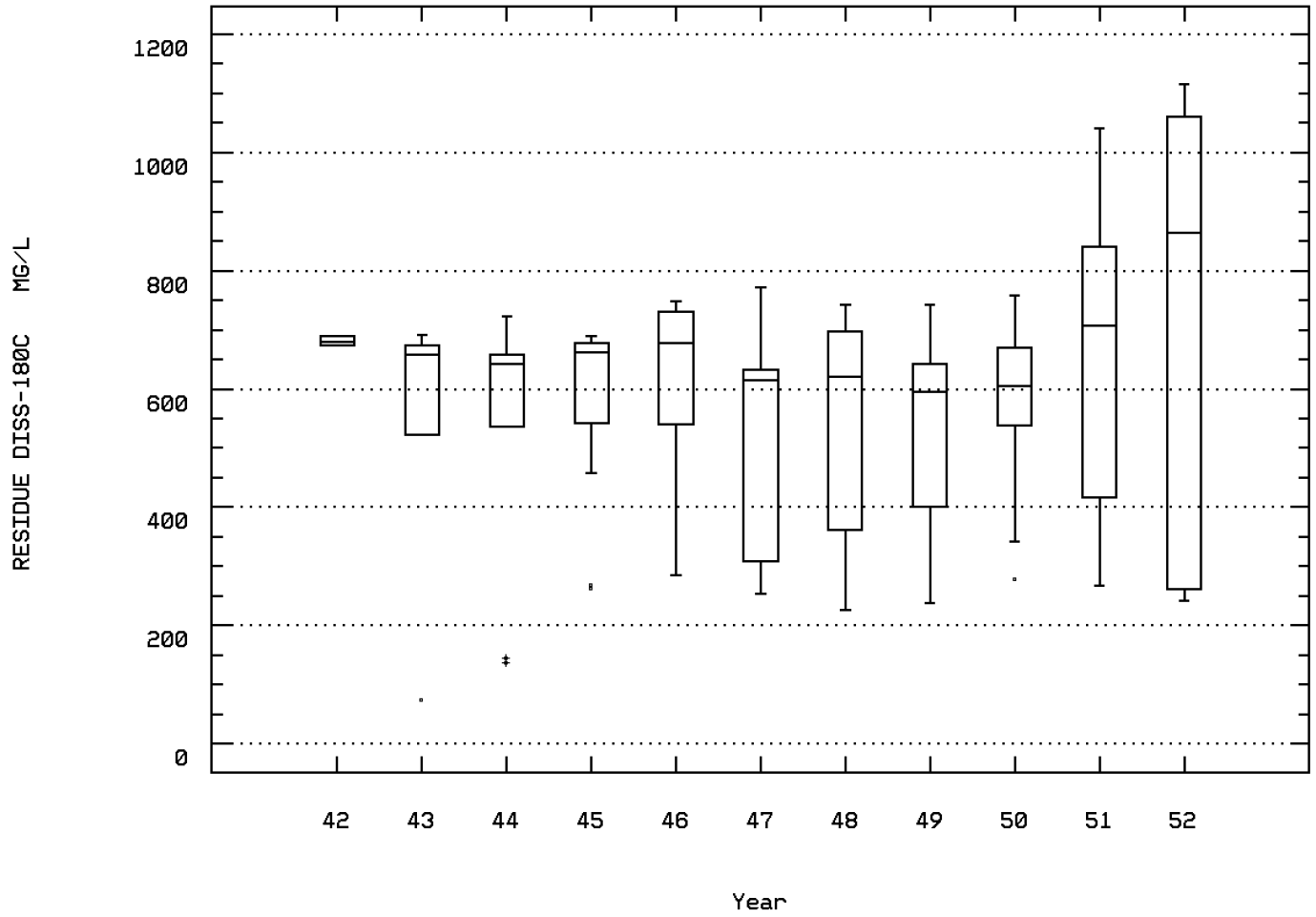
SULFATE, TOTAL (MG/L AS SO4)



PIERCE FERRY BAY

Station: GRCA0166 Parameter Code: 70300

RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



PIERCE FERRY BAY

Seasonal Analysis for Season #1: 10/01 to 3/14 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	53	15.	16.038	28.	7.	22.075	4.698	10.	13.	19.	23.2
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	52	1040.	1080.077	1690.	830.	27395.131	165.515	951.8	980.	1090.	1326.
00400	PH (STANDARD UNITS)	11/01/43-07/01/52	43	8.1	8.07	8.6	7.5	0.072	0.269	7.64	7.9	8.2	8.4
00400	CONVERTED PH (STANDARD UNITS)	11/01/43-07/01/52	43	8.1	7.988	8.6	7.5	0.079	0.281	7.64	7.9	8.2	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/01/43-07/01/52	43	0.008	0.01	0.032	0.003	0.	0.007	0.004	0.006	0.013	0.023
00440	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	59	160.	166.153	262.	134.	668.407	25.854	150.	153.	166.	209.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	55	86.	88.018	127.	65.	141.055	11.877	76.	83.	91.	105.4
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	55	30.	35.818	305.	24.	1399.744	37.413	24.6	27.	34.	40.8
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/01/43-07/01/52	24	96.	108.542	174.	76.	865.824	29.425	84.5	87.5	127.	162.
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	55	80.	85.455	164.	59.	451.993	21.26	63.2	74.	89.	120.8
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	54	290.5	294.37	454.	27.	3409.823	58.394	256.	271.5	310.	342.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	54	668.5	698.611	1115.	522.	13427.714	115.878	613.	629.75	731.5	845.

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

Seasonal Analysis for Season #2: 3/15 to 6/19 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	30	19.5	19.133	26.	12.	10.12	3.181	14.2	17.	21.	23.9
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	27	845.	823.037	1640.	400.	110244.96	332.032	418.	515.	1080.	1298.
00400	PH (STANDARD UNITS)	11/01/43-07/01/52	24	7.75	7.804	8.3	7.1	0.108	0.329	7.35	7.6	8.1	8.25
00400	CONVERTED PH (STANDARD UNITS)	11/01/43-07/01/52	24	7.747	7.684	8.3	7.1	0.123	0.351	7.35	7.6	8.1	8.25
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/01/43-07/01/52	24	0.018	0.021	0.079	0.005	0.	0.017	0.006	0.008	0.025	0.045
00440	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	33	147.	152.485	318.	74.	2001.008	44.733	104.	121.	171.	205.2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	29	62.	61.724	113.	37.	498.064	22.317	38.	40.	80.	93.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	29	23.	23.103	51.	10.	103.096	10.154	11.	14.5	31.	35.
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/01/43-07/01/52	13	94.	79.692	171.	29.	2258.564	47.524	30.2	34.	112.5	159.
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	30	47.5	55.6	138.	14.	1428.248	37.792	18.	21.75	84.	123.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	29	207.	191.172	428.	67.	10393.576	101.949	83.	91.	281.	331.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	27	526.	485.37	1060.	136.	54740.242	233.966	234.8	267.	675.	746.4

** - 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: 6/20 to 9/30 - Station GRCA0166

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/01/41-06/01/53	21	27.	26.81	29.	23.	2.962	1.721	24.	26.	28.5	29.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/01/41-06/01/53	23	730.	693.826	1040.	390.	46556.059	215.769	415.2	470.	890.	998.8
00400	PH (STANDARD UNITS)	11/01/43-07/01/52	17	8.	7.888	8.4	7.2	0.089	0.298	7.52	7.65	8.1	8.32
00400	CONVERTED PH (STANDARD UNITS)	11/01/43-07/01/52	17	8.	7.784	8.4	7.2	0.1	0.317	7.52	7.65	8.1	8.32
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/01/43-07/01/52	17	0.01	0.016	0.063	0.004	0.	0.014	0.005	0.008	0.023	0.033
00440	BICARBONATE ION (MG/L AS HCO3)	11/01/41-06/01/53	27	134.	132.63	169.	103.	302.55	17.394	111.6	116.	143.	159.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/01/42-06/01/53	25	60.	59.36	96.	32.	307.24	17.528	37.2	44.5	69.	87.8
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/01/42-06/01/53	25	21.	21.16	32.	9.	37.307	6.108	13.	16.5	26.5	29.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/01/43-07/01/52	9	56.	56.	97.	20.	711.	26.665	20.	28.	77.	97.
00940	CHLORIDE,TOTAL IN WATER MG/L	10/01/42-06/01/53	25	56.	52.88	100.	20.	493.193	22.208	23.2	29.	70.5	81.2
00945	SULFATE, TOTAL (MG/L AS SO4)	10/01/42-06/01/53	24	180.	178.583	319.	77.	5726.254	75.672	85.	102.	232.	305.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/42-07/01/52	23	469.	436.13	743.	73.	31477.846	177.42	182.8	277.	550.	688.4

** - 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: GRCA0167

NPS Station ID: GRCA0167
Location: LAKE MEAD
Station Type: /TYPA/AMBNT/LAKE
RMI-Indexes:
RMI-Miles:
HUC: 15010005
Major Basin:
Minor Basin:
RF1 Index: 15010005023
RF3 Index: 15010005002601.45
Description:

LAT/LON: 36.127227/-113.984726
Depth of Water: 999
Elevation: 0
RF1 Mile Point: 5.640
RF3 Mile Point: 1.45

Agency: 11EPALES
FIPS State/County: 04015 ARIZONA/MOHAVE
STORET Station ID(s): 320110
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.10

Date Created: 11/17/75
On/Off RF1: ON
On/Off RF3:

Parameter Inventory for Station: GRCA0167

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/27/75-06/10/76	8	13.75	13.838	19.	7.	14.526	3.811	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/27/75-06/10/76	9	950.	960.	1000.	900.	1150.	33.912	900.	945.	1000.	1000.
00300	OXYGEN, DISSOLVED MG/L	09/27/75-06/10/76	9	11.	11.222	13.1	9.2	2.127	1.458	9.2	10.	12.9	13.1
00400	PH (STANDARD UNITS)	09/27/75-06/10/76	9	8.2	8.133	8.4	7.8	0.035	0.187	7.8	8.	8.25	8.4
00400	CONVERTED PH (STANDARD UNITS)	09/27/75-06/10/76	9	8.2	8.095	8.4	7.8	0.037	0.191	7.8	8.	8.25	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/27/75-06/10/76	9	0.006	0.008	0.016	0.004	0.	0.004	0.004	0.006	0.01	0.016
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/27/75-05/23/76	7	151.	130.429	158.	0.	3328.952	57.697	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/27/75-05/23/76	7	0.03	0.064	0.17	0.	0.005	0.069	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/27/75-05/23/76	7	0.2	0.357	0.8	0.1	0.083	0.288	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/27/75-05/23/76	7	0.46	0.394	0.55	0.	0.034	0.184	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/27/75-05/23/76	7	0.143	0.144	0.32	0.017	0.018	0.133	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	09/27/75-05/23/76	7	0.018	0.03	0.104	0.	0.001	0.036	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	09/27/75-06/10/76	9	999.	999.	999.	999.	0.	0.	999.	999.	999.	999.

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

EPA Water Quality Criteria Analysis for Station: GRCA0167

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	0	0.00	4	0	0.00	4	0	0.00	1	0	0.00			
00400	PH	Other-Hi Lim.	9.	9	0	0.00	4	0	0.00	4	0	0.00	1	0	0.00			
		Other-Lo Lim.	6.5	9	0	0.00	4	0	0.00	4	0	0.00	1	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			

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

Station Inventory for Station: GRCA0168

NPS Station ID: GRCA0168
LAT/LON: 36.044448/-114.025005
Agency: 112WRD
Date Created: 06/27/81
Location: B-31-16 29CAD
FIPS State/County: 04015 ARIZONA/MOHAVE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 360240114013001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 15010005
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 15010005
RF1 Mile Point: 0.000
Distance from RF1: 1.70
On/Off RF1:
RF3 Index: 15010005109300.00
RF3 Mile Point: 0.39
Distance from RF3: 0.06
On/Off RF3:
Description:

Parameter Inventory for Station: GRCA0168

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/01/73-06/01/73	1	19.	19.	19.	19.	0.	0.	**	**	**	**

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

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

EPA Water Quality Criteria Analysis for Entire GRCA Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	344	170	0.49	159	80	0.50	99	47	0.47	86	43	0.50			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	246	15	0.06	124	5	0.04	50	6	0.12	72	4	0.06			
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	250	3	0.01	108	2	0.02	70	0	0.00	72	1	0.01			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	565	7	0.01	322	1	0.00	130	3	0.02	113	3	0.03			
00400	PH	Other-Hi Lim.	9.	1164	1	0.00	570	0	0.00	297	1	0.00	297	0	0.00			
		Other-Lo Lim.	6.5	1164	17	0.01	570	8	0.01	297	5	0.02	297	4	0.01			
00403	PH, LAB	Other-Hi Lim.	9.	209	2	0.01	106	0	0.00	46	1	0.02	57	1	0.02			
		Other-Lo Lim.	6.5	209	1	0.00	106	1	0.01	46	0	0.00	57	0	0.00			
00406	PH, FIELD	Other-Hi Lim.	9.	264	10	0.04	116	5	0.04	75	2	0.03	73	3	0.04			
		Other-Lo Lim.	6.5	264	4	0.02	116	4	0.03	75	0	0.00	73	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	171	0	0.00	77	0	0.00	52	0	0.00	42	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	91	0	0.00	72	0	0.00	11	0	0.00	8	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	112	0	0.00	52	0	0.00	31	0	0.00	29	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	14	0	0.00	5	0	0.00	7	0	0.00	2	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	435	0	0.00	232	0	0.00	105	0	0.00	98	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	395	0	0.00	212	0	0.00	87	0	0.00	96	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1261	15	0.01	600	6	0.01	327	5	0.02	334	4	0.01			
		Drinking Water	250.	1261	30	0.02	600	17	0.03	327	7	0.02	334	6	0.02			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	27	0	0.00	12	0	0.00	8	0	0.00	7	0	0.00			
		Drinking Water	250.	27	1	0.04	12	1	0.08	8	0	0.00	7	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1027	422	0.41	484	202	0.42	271	129	0.48	272	91	0.33			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	48	18	0.38	21	5	0.24	12	7	0.58	15	6	0.40			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	507	0	0.00	242	0	0.00	121	0	0.00	144	0	0.00			
00951	FLUORIDE, TOTAL AS F	Drinking Water	4.	148	0	0.00	69	0	0.00	41	0	0.00	38	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	210	0	0.00	95	0	0.00	49	0	0.00	66	0	0.00			
		Drinking Water	50.	210	1	0.00	95	1	0.01	49	0	0.00	66	0	0.00			
01001	ARSENIC, SUSPENDED	Fresh Acute	360.	28	2	0.07	12	0	0.00	4	0	0.00	12	2	0.17			
		Drinking Water	50.	28	2	0.07	12	0	0.00	4	0	0.00	12	2	0.17			
01002	ARSENIC, TOTAL	Fresh Acute	360.	300 &	4	0.01	141	1	0.01	74	0	0.00	85	3	0.04			
		Drinking Water	50.	300 &	14	0.05	141	5	0.04	74	4	0.05	85	5	0.06			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	195	0	0.00	84	0	0.00	62	0	0.00	49	0	0.00			
01006	BARIUM, SUSPENDED	Drinking Water	2000.	20	0	0.00	10	0	0.00	4	0	0.00	6	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	59	0	0.00	28	0	0.00	14	0	0.00	17	0	0.00			
01010	BERYLLIUM, DISSOLVED	Fresh Acute	130.	72	0	0.00	23	0	0.00	34	0	0.00	15	0	0.00			
		Drinking Water	4.	69 &	0	0.00	22	0	0.00	33	0	0.00	14	0	0.00			
01012	BERYLLIUM, TOTAL	Fresh Acute	130.	161	0	0.00	77	0	0.00	43	0	0.00	41	0	0.00			
		Drinking Water	4.	148 &	2	0.01	70	2	0.03	40	0	0.00	38	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	171 &	11	0.06	66	5	0.08	50	3	0.06	55	3	0.05			
		Drinking Water	5.	171 &	8	0.05	66	4	0.06	50	1	0.02	55	3	0.05			
01026	CADMIUM, SUSPENDED	Fresh Acute	3.9	29 &	5	0.17	13	1	0.08	5	2	0.40	11	2	0.18			
		Drinking Water	5.	30 &	5	0.17	13	1	0.08	5	2	0.40	12	2	0.17			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	287 &	15	0.05	133	7	0.05	72	5	0.07	82	3	0.04			
		Drinking Water	5.	287 &	12	0.04	133	4	0.03	72	5	0.07	82	3	0.04			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	154	0	0.00	60	0	0.00	53	0	0.00	41	0	0.00			
01031	CHROMIUM, SUSPENDED	Drinking Water	100.	30	2	0.07	12	0	0.00	6	1	0.17	12	1	0.08			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	11	0	0.00	4	0	0.00	5	0	0.00	2	0	0.00			
		Drinking Water	100.	11	0	0.00	4	0	0.00	5	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	297	6	0.02	137	2	0.01	75	2	0.03	85	2	0.02			
01040	COPPER, DISSOLVED	Fresh Acute	18.	223	4	0.02	94	1	0.01	64	2	0.03	65	1	0.02			
		Drinking Water	1300.	223	0	0.00	94	0	0.00	64	0	0.00	65	0	0.00			
01041	COPPER, SUSPENDED	Fresh Acute	18.	34	7	0.21	14	3	0.21	7	1	0.14	13	3	0.23			
		Drinking Water	1300.	34	0	0.00	14	0	0.00	7	0	0.00	13	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	296 &	39	0.13	136	14	0.10	75	11	0.15	85	14	0.16			
		Drinking Water	1300.	297	0	0.00	136	0	0.00	75	0	0.00	86	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	220	0	0.00	90	0	0.00	64	0	0.00	66	0	0.00			
		Drinking Water	15.	212 &	8	0.04	86	4	0.05	61	1	0.02	65	3	0.05			
01050	LEAD, SUSPENDED	Fresh Acute	82.	33	4	0.12	13	1	0.08	7	1	0.14	13	2	0.15			
		Drinking Water	15.	27 &	9	0.33	11	3	0.27	5	2	0.40	11	4	0.36			
01051	LEAD, TOTAL	Fresh Acute	82.	290 &	6	0.02	136	3	0.02	72	1	0.01	82	2	0.02			
		Drinking Water	15.	290 &	22	0.08	136	11	0.08	72	5	0.07	82	6	0.07			
01059	THALLIUM, TOTAL	Fresh Acute	1400.	154	0	0.00	74	0	0.00	40	0	0.00	40	0	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 GRCA Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------10/01-3/14---------- Obs	Exceed	Prop.	----------3/15-6/19---------- Obs	Exceed	Prop.	----------6/20-9/30---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	126	0	0.00	47	0	0.00	41	0	0.00	38	0	0.00			
		Drinking Water	100.	126	0	0.00	47	0	0.00	41	0	0.00	38	0	0.00			
01066	NICKEL, SUSPENDED	Fresh Acute	1400.	12	0	0.00	6	0	0.00	2	0	0.00	4	0	0.00			
		Drinking Water	100.	12	0	0.00	6	0	0.00	2	0	0.00	4	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	194	0	0.00	92	0	0.00	52	0	0.00	50	0	0.00			
		Drinking Water	100.	194	3	0.02	92	2	0.02	52	1	0.02	50	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	143 &	0	0.00	59	0	0.00	50	0	0.00	34	0	0.00			
		Drinking Water	100.	144	0	0.00	59	0	0.00	51	0	0.00	34	0	0.00			
01076	SILVER, SUSPENDED	Fresh Acute	4.1	15	0	0.00	8	0	0.00	3	0	0.00	4	0	0.00			
		Drinking Water	100.	15	0	0.00	8	0	0.00	3	0	0.00	4	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	58 &	3	0.05	28	1	0.04	14	1	0.07	16	1	0.06			
		Drinking Water	100.	206	0	0.00	98	0	0.00	54	0	0.00	54	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	224	1	0.00	94	1	0.01	64	0	0.00	66	0	0.00			
		Drinking Water	5000.	224	0	0.00	94	0	0.00	64	0	0.00	66	0	0.00			
01091	ZINC, SUSPENDED	Fresh Acute	120.	32	7	0.22	12	4	0.33	6	1	0.17	14	2	0.14			
		Drinking Water	5000.	32	0	0.00	12	0	0.00	6	0	0.00	14	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	298	18	0.06	137	8	0.06	75	5	0.07	86	5	0.06			
		Drinking Water	5000.	298	0	0.00	137	0	0.00	75	0	0.00	86	0	0.00			
01095	ANTIMONY, DISSOLVED	Fresh Acute	88.	11	0	0.00	3	0	0.00	5	0	0.00	3	0	0.00			
		Drinking Water	6.	11	1	0.09	3	1	0.33	5	0	0.00	3	0	0.00			
01097	ANTIMONY, TOTAL	Fresh Acute	88.	161 &	0	0.00	77	0	0.00	43	0	0.00	41	0	0.00			
		Drinking Water	6.	12 &	0	0.00	7	0	0.00	3	0	0.00	2	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	203	0	0.00	93	0	0.00	47	0	0.00	63	0	0.00			
		Drinking Water	50.	203	0	0.00	93	0	0.00	47	0	0.00	63	0	0.00			
01146	SELENIUM, SUSPENDED	Fresh Acute	20.	37	0	0.00	14	0	0.00	7	0	0.00	16	0	0.00			
		Drinking Water	50.	37	0	0.00	14	0	0.00	7	0	0.00	16	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	300	0	0.00	139	0	0.00	75	0	0.00	86	0	0.00			
		Drinking Water	50.	300	0	0.00	139	0	0.00	75	0	0.00	86	0	0.00			
07000	TRITIUM, TOTAL	Drinking Water	20000.	19	0	0.00	4	0	0.00	10	0	0.00	5	0	0.00			
07005	TRITIUM, DISSOLVED	Drinking Water	20000.	1	0	0.00	1	0	0.00									
13501	STRONTIUM 90, TOTAL	Drinking Water	8.	17	0	0.00	10	0	0.00	4	0	0.00	3	0	0.00			
13503	STRONTIUM 90, DISSOLVED	Drinking Water	8.	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	128	0	0.00	52	0	0.00	34	0	0.00	42	0	0.00			
22708	URANIUM, NATURAL, TOTAL	Drinking Water	0.02	9	2	0.22	5	1	0.20	3	1	0.33	1	0	0.00			
28011	URANIUM, NATURAL, TOTAL	Drinking Water	20.	9	1	0.11				9	1	0.11						
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	9	5	0.56				5	3	0.60	4	2	0.50			
31503	COLIFORM, TOTAL, MEMBR FILTER, DELAYED	Other-Hi Lim.	1000.	242	40	0.17	117	10	0.09	70	17	0.24	55	13	0.24			
31506	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C	Other-Hi Lim.	1000.	7	0	0.00	2	0	0.00	2	0	0.00	3	0	0.00			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	6	1	0.17	2	0	0.00	1	0	0.00	3	1	0.33			
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	231	10	0.04	97	4	0.04	57	1	0.02	77	5	0.06			
31625	FECAL COLIFORM, MF	Other-Hi Lim.	200.	199	10	0.05	92	2	0.02	46	3	0.07	61	5	0.08			
31648	E. COLI, MTEC, MF	Other-Hi Lim.	126.	2	0	0.00	1	0	0.00	1	0	0.00						
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXT	Fresh Acute	28900.	62	0	0.00	34	0	0.00	14	0	0.00	14	0	0.00			
		Drinking Water	100.	62	57	0.92	34	32	0.94	14	12	0.86	14	13	0.93			
32005	CARBON CHLOROFORM EXTRACTABLES	Fresh Acute	28900.	62	0	0.00	33	0	0.00	14	0	0.00	15	0	0.00			
		Drinking Water	100.	62	8	0.13	33	4	0.12	14	2	0.14	15	2	0.13			
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLU	Fresh Acute	28900.	17	0	0.00	8	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	100.	17	0	0.00	8	0	0.00	5	0	0.00	4	0	0.00			
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBL	Fresh Acute	28900.	17	0	0.00	8	0	0.00	5	0	0.00	4	0	0.00			
		Drinking Water	100.	17	0	0.00	8	0	0.00	5	0	0.00	4	0	0.00			
32101	BROMODICHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00							1	0	0.00			
32102	CARBON TETRACHLORIDE, WHOLE WATER	Fresh Acute	35200.	1	0	0.00							1	0	0.00			
32103	1,2-DICHLOROETHANE,WHOLE WATER	Fresh Acute	118000.	1	0	0.00							1	0	0.00			
32104	BROMOFORM, WHOLE WATER	Drinking Water	100.	1	0	0.00							1	0	0.00			
32105	DIBROMOCHLOROMETHANE, WHOLE WATER	Drinking Water	100.	1	0	0.00							1	0	0.00			
32106	CHLOROFORM, WHOLE WATER	Fresh Acute	28900.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE E	Fresh Acute	17500.	1	0	0.00							1	0	0.00			
		Drinking Water	1000.	1	0	0.00							1	0	0.00			
34205	ACENAPHTHENE, TOTAL	Fresh Acute	1700.	1	0	0.00							1	0	0.00			
34210	ACROLEIN, TOTAL	Fresh Acute	68.	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 GRCA Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
34215	ACRYLONITRILE, TOTAL	Fresh Acute	7550.	1	0	0.00							1	0	0.00			
34301	CHLOROBENZENE, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
34346	1,2-DIPHENYLHYDRAZINE, TOTAL	Fresh Acute	270.	1	0	0.00							1	0	0.00			
34371	ETHYLBENZENE, TOTAL	Fresh Acute	32000.	1	0	0.00							1	0	0.00			
		Drinking Water	700.	1	0	0.00							1	0	0.00			
34376	FLUORANTHENE, TOTAL	Fresh Acute	3980.	1	0	0.00							1	0	0.00			
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL	Drinking Water	50.	1	0	0.00							1	0	0.00			
34391	HEXACHLOROBUTADIENE, TOTAL	Fresh Acute	90.	1	0	0.00							1	0	0.00			
34396	HEXACHLOROETHANE, TOTAL	Fresh Acute	980.	1	0	0.00							1	0	0.00			
34408	ISOPHORONE, TOTAL	Fresh Acute	117000.	1	0	0.00							1	0	0.00			
34447	NITROBENZENE, TOTAL	Fresh Acute	27000.	1	0	0.00							1	0	0.00			
34452	PARACHLOROMETA CRESOL, TOTAL	Fresh Acute	30.	1	0	0.00							1	0	0.00			
34461	PHENANTHRENE, TOTAL	Fresh Acute	30.	1	0	0.00							1	0	0.00			
34475	TETRACHLOROETHYLENE, TOTAL	Fresh Acute	5280.	1	0	0.00							1	0	0.00			
34501	1,1-DICHLOROETHYLENE, TOTAL	Drinking Water	7.	1	0	0.00							1	0	0.00			
34506	1,1,1-TRICHLOROETHANE, TOTAL	Drinking Water	200.	1	0	0.00							1	0	0.00			
34536	1,2-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00							1	0	0.00			
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATE	Drinking Water	100.	1	0	0.00							1	0	0.00			
34551	1,2,4-TRICHLOROBENZENE, TOTAL	Drinking Water	70.	1	0	0.00							1	0	0.00			
34566	1,3-DICHLOROBENZENE, TOTAL	Drinking Water	600.	1	0	0.00							1	0	0.00			
34571	1,4-DICHLOROBENZENE, TOTAL	Drinking Water	75.	1	0	0.00							1	0	0.00			
34586	2-CHLOROPHENOL, TOTAL	Fresh Acute	4380.	1	0	0.00							1	0	0.00			
34601	2,4-DICHLOROPHENOL, TOTAL	Fresh Acute	2020.	1	0	0.00							1	0	0.00			
34606	2,4-DIMETHYLPHENOL, TOTAL	Fresh Acute	2120.	1	0	0.00							1	0	0.00			
34611	2,4-DINITROTOLUENE, TOTAL	Fresh Acute	330.	1	0	0.00							1	0	0.00			
34694	PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	Fresh Acute	10200.	1	0	0.00							1	0	0.00			
39025	SIMAZINE, COULSON CONDUCTIVITY WATER SAM	Drinking Water	4.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	1	0	0.00							1	0	0.00			
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE	Fresh Acute	45000.	1	0	0.00							1	0	0.00			
39310	P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	1 &	0	0.00							1	0	0.00			
39320	P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	3	0	0.00							3	0	0.00			
39330	ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	23	0	0.00	7	0	0.00	6	0	0.00	10	0	0.00			
39340	GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	21	0	0.00	7	0	0.00	5	0	0.00	9	0	0.00			
		Drinking Water	0.2	21	0	0.00	7	0	0.00	5	0	0.00	9	0	0.00			
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	17	0	0.00	7	0	0.00	5	0	0.00	5	0	0.00			
		Drinking Water	2.	17	0	0.00	7	0	0.00	5	0	0.00	5	0	0.00			
39360	DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	22	0	0.00	7	0	0.00	6	0	0.00	9	0	0.00			
39365	DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	22	0	0.00	7	0	0.00	6	0	0.00	9	0	0.00			
39370	DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	22	0	0.00	7	0	0.00	6	0	0.00	9	0	0.00			
39380	DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	23	0	0.00	7	0	0.00	6	0	0.00	10	0	0.00			
39388	ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	2	0	0.00	1	0	0.00				1	0	0.00			
39390	ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	22	0	0.00	7	0	0.00	6	0	0.00	9	0	0.00			
		Drinking Water	2.	22	0	0.00	7	0	0.00	6	0	0.00	9	0	0.00			
39400	TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	17	0	0.00	7	0	0.00	5	0	0.00	5	0	0.00			
		Drinking Water	3.	17	0	0.00	7	0	0.00	5	0	0.00	5	0	0.00			
39410	HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	22	0	0.00	7	0	0.00	6	0	0.00	9	0	0.00			
		Drinking Water	0.4	22	0	0.00	7	0	0.00	6	0	0.00	9	0	0.00			
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	22	0	0.00	7	0	0.00	6	0	0.00	9	0	0.00			
		Drinking Water	0.2	22	0	0.00	7	0	0.00	6	0	0.00	9	0	0.00			
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	16	0	0.00	7	0	0.00	5	0	0.00	4	0	0.00			
39540	PARATHION IN WHOLE WATER SAMPLE	Fresh Acute	0.065	15	0	0.00	7	0	0.00	5	0	0.00	3	0	0.00			
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	Drinking Water	3.	5	0	0.00	2	0	0.00	2	0	0.00	1	0	0.00			
39730	2,4-D IN WHOLE WATER SAMPLE	Drinking Water	70.	8	0	0.00	4	0	0.00	3	0	0.00	1	0	0.00			
39760	SILVEX IN WHOLE WATER SAMPLE	Drinking Water	50.	10	0	0.00	4	0	0.00	3	0	0.00	3	0	0.00			
39782	LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	92	0	0.00	45	0	0.00	26	0	0.00	21	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	87	0	0.00	41	0	0.00	23	0	0.00	23	0	0.00			
71856	NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	74	0	0.00	36	0	0.00	20	0	0.00	18	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	119	0	0.00	47	0	0.00	28	0	0.00	44	0	0.00			
		Drinking Water	2.	119	0	0.00	47	0	0.00	28	0	0.00	44	0	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 GRCA Study Area

Parameter			Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01-3/14 Obs	10/01-3/14 Exceed	10/01-3/14 Prop.	3/15-6/19 Obs	3/15-6/19 Exceed	3/15-6/19 Prop.	6/20-9/30 Obs	6/20-9/30 Exceed	6/20-9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.
71895	MERCURY, SUSPENDED		Fresh Acute	2.4	29	0	0.00	12	0	0.00	5	0	0.00	12	0	0.00			
	MERCURY, SUSPENDED	Drinking Water	2. 29			1	0.03	12	0	0.00	5	0		0.00	12	1		0.08	
71900	MERCURY, TOTAL		Fresh Acute	2.4	288	0	0.00	135	0	0.00	71	0	0.00	82	0	0.00			
			Drinking Water	2.	288	1	0.00	135	0	0.00	71	0	0.00	82	1	0.01			
80020	URANIUM, DISS. BY EXTRACTION FLUOROMETRI		Drinking Water	20.	12	0	0.00				12	0	0.00						
82078	TURBIDITY, FIELD		Other-Hi Lim.	50.	255	10	0.04	111	6	0.05	73	2	0.03	71	2	0.03			

& - 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 GRCA 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 GRCA Study Area Exist for These Groups:

Alkalinity		Total Obs.	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	2380	333	225	1822	80
00440	BICARBONATE ION (MG/L AS HCO3)	2762	29	129	2604	21
00445	CARBONATE ION (MG/L AS CO3)	595	30	122	443	20
		5737	392	476	4869	121 (81)[!]

pH		Total Obs.	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400	PH (STANDARD UNITS)	2489	210	260	2019	81
00403	PH, LAB (STANDARD UNITS)	209	134	75	0	46
00406	PH, FIELD (STANDARD UNITS)	264	264	0	0	54
		2962	608	335	2019	181(137)[!]

Conductivity		Total Obs.	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	420	271	47	102	58
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	2587	251	269	2067	90
		3007	522	316	2169	148(146)[!]

Dissolved Oxygen		Total Obs.	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	250	250	0	0	49
00300	OXYGEN, DISSOLVED (MG/L)	565	255	157	153	37
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	281	280	0	1	50
		1096	785	157	154	136 (86)[!]

Water Temperature		Total Obs.	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	2232	848	318	1066	143
		2232	848	318	1066	143(143)[!]

Flow		Total Obs.	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00056	FLOW RATE, GALLONS/DAY	7	7	0	0	1
00058	FLOW RATE, GALLONS/MIN.	11	11	0	0	1
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	34	29	5	0	8
00060	FLOW, STREAM, MEAN DAILY CFS	3105	0	72	3033	5
00061	FLOW, STREAM, INSTANTANEOUS CFS	1818	1105	273	440	98
00065	STAGE, STREAM (FEET)	537	516	21	0	7
		5512	1668	371	3473	120(100)[!]

[!]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 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00070	TURBIDITY, (JACKSON CANDLE UNITS)	344	0	53	291	4
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	246	127	119	0	36
00077	TRANSPARENCY, SECCHI DISC (INCHES)	4	1	3	0	2
00078	TRANSPARENCY, SECCHI DISC (METERS)	1	1	0	0	1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	499	228	17	254	32
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	261	261	0	0	55
		1355	618	192	545	130 (93)[!]

Nitrate/Nitrogen		Total Obs.	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00600	NITROGEN, TOTAL (MG/L AS N)	68	0	59	9	5
00602	NITROGEN, DISSOLVED (MG/L AS N)	20	0	20	0	2
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	37	0	37	0	3
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	19	0	19	0	2
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	170	130	40	0	18
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	457	332	88	37	57
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	1019	14	27	978	8
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	14	0	11	3	2
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	38	1	37	0	3
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	450	310	131	9	53
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	436	286	111	39	42
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	398	139	145	114	48
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	22	0	22	0	3
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	29	0	29	0	2
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	1039	24	3	1012	23
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	1155	0	9	1146	7
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	74	0	10	64	3
		5445	1236	798	3411	281(107)[!]

Phosphate/Phosphorus		Total Obs.	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	41	38	3	0	26
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	173	0	82	91	32
00665	PHOSPHORUS, TOTAL (MG/L AS P)	476	316	134	26	55
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	213	130	60	23	20
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	380	153	147	80	52
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	80	77	3	0	5
		1363	714	429	220	190(101)[!]

Chlorophyll		Total Obs.	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
32217	CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	3	0	3	0	1
32228	CHLOROPHYLL A (MG/M2) PERIPHYTON SPECTRO.	5	0	4	1	1
		8	0	7	1	2 (2)[!]

Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	2969	36	230	2703	59
00945	SULFATE, TOTAL (MG/L AS SO4)	2861	319	220	2322	108
00946	SULFATE, DISSOLVED (MG/L AS SO4)	48	21	27	0	2
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	1995	134	246	1615	42
		7873	510	723	6640	211(111)[!]

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Bacteria		Total Obs.	01/01/85 to 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
31501	COLIFORM, TOT, MEMBRANE FILTER,IMMED.M-ENDOMED,35C	9	0	0	9	2
31503	COLIFORM, TOT, MEMBRANE FILTER,DELAY,M-ENDOMED,35C	242	0	0	242	1
31506	COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG.	7	0	7	0	1
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	6	0	6	0	1
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	241	215	14	12	34
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	200	75	125	0	28
31648	E. COLI - MTEC-MF	2	2	0	0	2
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	404	282	122	0	60
		1111	574	274	263	129 (64)[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 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	11	10	1	0	11
01097	ANTIMONY, TOTAL (UG/L AS SB)	162	161	1	0	30
01000	ARSENIC, DISSOLVED (UG/L AS AS)	210	86	110	14	43
01001	ARSENIC, SUSPENDED (UG/L AS AS)	28	0	26	2	5
01002	ARSENIC, TOTAL (UG/L AS AS)	301	238	61	2	36
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	72	41	22	9	27
01012	BERYLLIUM, TOTAL (UG/L AS BE)	161	160	1	0	30
01025	CADMIUM, DISSOLVED (UG/L AS CD)	179	86	79	14	52
01026	CADMIUM, SUSPENDED (UG/L AS CD)	31	0	29	2	5
01027	CADMIUM, TOTAL (UG/L AS CD)	294	234	58	2	36
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	154	87	55	12	33
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	30	0	28	2	5
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	11	0	11	0	1
01034	CHROMIUM, TOTAL (UG/L AS CR)	297	238	57	2	36
01040	COPPER, DISSOLVED (UG/L AS CU)	223	87	122	14	52
01041	COPPER, SUSPENDED (UG/L AS CU)	34	0	32	2	6
01042	COPPER, TOTAL (UG/L AS CU)	297	237	58	2	36
01049	LEAD, DISSOLVED (UG/L AS PB)	220	87	119	14	52
01050	LEAD, SUSPENDED (UG/L AS PB)	33	0	31	2	6
01051	LEAD, TOTAL (UG/L AS PB)	298	239	57	2	36
71890	MERCURY, DISSOLVED (UG/L AS HG)	119	50	66	3	43
71895	MERCURY, SUSPENDED (UG/L AS HG)	29	0	27	2	5
71900	MERCURY, TOTAL (UG/L AS HG)	288	227	59	2	36
01065	NICKEL, DISSOLVED (UG/L AS NI)	126	55	59	12	47
01066	NICKEL, SUSPENDED (UG/L AS NI)	12	0	12	0	2
01067	NICKEL, TOTAL (UG/L AS NI)	194	161	33	0	32
01145	SELENIUM, DISSOLVED (UG/L AS SE)	203	91	108	4	45
01146	SELENIUM, SUSPENDED (UG/L AS SE)	37	0	35	2	6
01147	SELENIUM, TOTAL (UG/L AS SE)	300	239	59	2	35
01075	SILVER, DISSOLVED (UG/L AS AG)	144	90	42	12	31
01076	SILVER, SUSPENDED (UG/L AS AG)	15	0	15	0	3
01077	SILVER, TOTAL (UG/L AS AG)	206	163	43	0	33
01059	THALLIUM, TOTAL (UG/L AS TL)	154	154	0	0	29
01090	ZINC, DISSOLVED (UG/L AS ZN)	224	88	122	14	52
01091	ZINC, SUSPENDED (UG/L ZN)	32	0	30	2	6
01092	ZINC, TOTAL (UG/L AS ZN)	298	238	58	2	36
34210	ACROLEIN, TOTAL (UG/L)	1	0	1	0	1
34215	ACRYLONITRILE, TOTAL (UG/L)	1	0	1	0	1
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	1	0	1	0	1
32104	BROMOFORM, WHOLE WATER, (UG/L)	1	0	1	0	1
32102	CARBON TETRACHLORIDE, WHOLE WATER, (UG/L)	1	0	1	0	1
34301	CHLOROBENZENE, TOTAL (UG/L)	1	0	1	0	1
32105	DIBROMOCHLOROMETHANE, WHOLE WATER, (UG/L)	1	0	1	0	1
34311	CHLOROETHANE, TOTAL (UG/L)	1	0	1	0	1
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (UG/L)	1	0	1	0	1
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXT. (UG/L)	62	0	0	62	1
32005	CARBON CHLOROFORM EXTRACTABLES (UG/L)	62	0	0	62	1
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLE (UG/L)	17	0	0	17	1
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES (UG/L)	17	0	0	17	1
32106	CHLOROFORM, WHOLE WATER (UG/L)	1	0	1	0	1
32101	BROMODICHLOROMETHANE, WHOLE WATER (UG/L)	1	0	1	0	1
34496	1,1-DICHLOROETHANE, TOTAL (UG/L)	1	0	1	0	1
32103	1,2-DICHLOROETHANE, WHOLE WATER (UG/L)	1	0	1	0	1
34501	1,1-DICHLOROETHYLENE, TOTAL (UG/L)	1	0	1	0	1
34541	1,2-DICHLOROPROPANE, TOTAL (UG/L)	1	0	1	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 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
34561	1,3-DICHLOROPROPENE, TOTAL (UG/L)	1	0	1	0	1
34371	ETHYLBENZENE, TOTAL (UG/L)	1	0	1	0	1
34413	METHYL BROMIDE, TOTAL (UG/L)	1	0	1	0	1
34418	METHYL CHLORIDE, TOTAL (UG/L)	1	0	1	0	1
34423	METHYLENE CHLORIDE, TOTAL (UG/L)	1	0	1	0	1
34506	1,1,1-TRICHLOROETHANE, TOTAL (UG/L)	1	0	1	0	1
34475	TETRACHLOROETHYLENE, TOTAL (UG/L)	1	0	1	0	1
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	1	0	1	0	1
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER (UG/L)	1	0	1	0	1
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L)	1	0	1	0	1
34511	1,1,2-TRICHLOROETHANE, TOTAL (UG/L)	1	0	1	0	1
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
34586	2-CHLOROPHENOL, TOTAL (UG/L)	1	0	1	0	1
34601	2,4-DICHLOROPHENOL, TOTAL (UG/L)	1	0	1	0	1
34606	2,4-DIMETHYLPHENOL, TOTAL (UG/L)	1	0	1	0	1
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL), TOTAL (UG/L)	1	0	1	0	1
34616	2,4-DINITROPHENOL, TOTAL (UG/L)	1	0	1	0	1
34591	2-NITROPHENOL, TOTAL (UG/L)	1	0	1	0	1
34646	4-NITROPHENOL, TOTAL (UG/L)	1	0	1	0	1
34452	PARACHLOROMETA CRESOL, TOTAL (UG/L)	1	0	1	0	1
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTAL (UG/L)	1	0	1	0	1
34621	2,4,6-TRICHLOROPHENOL, TOTAL (UG/L)	1	0	1	0	1
34205	ACENAPHTHENE, TOTAL (UG/L)	1	0	1	0	1
34200	ACENAPHTHYLENE, TOTAL (UG/L)	1	0	1	0	1
34220	ANTHRACENE, TOTAL (UG/L)	1	0	1	0	1
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, TOTAL (UG/L)	1	0	1	0	1
34247	BENZO-A-PYRENE, TOTAL (UG/L)	1	0	1	0	1
34230	BENZO(B)FLUORANTHENE, WHOLE WATER (UG/L)	1	0	1	0	1
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, TOTAL (UG/L)	1	0	1	0	1
34242	BENZO(K)FLUORANTHENE, TOTAL (UG/L)	1	0	1	0	1
34278	BIS (2-CHLOROETHOXY) METHANE, TOTAL (UG/L)	1	0	1	0	1
34273	BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L)	1	0	1	0	1
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER (UG/L)	1	0	1	0	1
34636	4-BROMOPHENYL PHENYL ETHER, TOTAL (UG/L)	1	0	1	0	1
34292	N-BUTYL BENZYL PHTHALATE, WHOLE WATER (UG/L)	1	0	1	0	1
34581	2-CHLORONAPHTHALENE, TOTAL (UG/L)	1	0	1	0	1
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (UG/L)	1	0	1	0	1
34320	CHRYSENE, TOTAL (UG/L)	1	0	1	0	1
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (UG/L)	1	0	1	0	1
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	1	0	1	0	1
34566	1,3-DICHLOROBENZENE, TOTAL (UG/L)	1	0	1	0	1
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	1	0	1	0	1
34631	3,3'-DICHLOROBENZIDINE, TOTAL (UG/L)	1	0	1	0	1
34336	DIETHYL PHTHALATE, TOTAL (UG/L)	1	0	1	0	1
34341	DIMETHYL PHTHALATE, TOTAL (UG/L)	1	0	1	0	1
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER (UG/L)	1	0	1	0	1
34611	2,4-DINITROTOLUENE, TOTAL (UG/L)	1	0	1	0	1
34626	2,6-DINITROTOLUENE, TOTAL (UG/L)	1	0	1	0	1
34596	DI-N-OCTYL PHTHALATE, TOTAL (UG/L)	1	0	1	0	1
34346	1,2-DIPHENYLHYDRAZINE, TOTAL (UG/L)	1	0	1	0	1
34376	FLUORANTHENE, TOTAL (UG/L)	1	0	1	0	1
34381	FLUORENE, TOTAL (UG/L)	1	0	1	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 10/25/95	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
34391	HEXACHLOROBUTADIENE, TOTAL (UG/L)	1	0	1	0	1
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (UG/L)	1	0	1	0	1
34396	HEXACHLOROETHANE, TOTAL (UG/L)	1	0	1	0	1
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (UG/L)	1	0	1	0	1
34408	ISOPHORONE, TOTAL (UG/L)	1	0	1	0	1
34447	NITROBENZENE, TOTAL (UG/L)	1	0	1	0	1
34438	N-NITROSODIMETHYLAMINE, TOTAL (UG/L)	1	0	1	0	1
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (UG/L)	1	0	1	0	1
34433	N-NITROSODIPHENYLAMINE, TOTAL (UG/L)	1	0	1	0	1
34461	PHENANTHRENE, TOTAL (UG/L)	1	0	1	0	1
34469	PYRENE, TOTAL (UG/L)	1	0	1	0	1
34551	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L)	1	0	1	0	1
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	23	1	15	7	3
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	1	0	1	0	1
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	2	1	1	0	2
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	22	0	15	7	2
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1
34259	DELTA BENZENE HEXACHLORIDE, TOTAL (UG/L)	1	0	1	0	1
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	17	1	15	1	3
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	23	1	15	7	3
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	3	2	1	0	2
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	22	0	15	7	2
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	2	1	1	0	2
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	22	0	15	7	2
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	23	1	15	7	3
34361	ENDOSULFAN, ALPHA, TOTAL (UG/L)	1	0	1	0	1
34356	ENDOSULFAN, BETA, TOTAL (UG/L)	1	0	1	0	1
34351	ENDOSULFAN SULFATE, TOTAL (UG/L)	1	0	1	0	1
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	23	1	15	7	3
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	23	1	15	7	3
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	23	1	15	7	3
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE (UG/L)	1	0	1	0	1
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE (UG/L)	2	1	1	0	2
34671	PCB - 1016, TOTAL (UG/L)	1	0	1	0	1
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	17	2	15	0	2
		5928	3562	1990	376	1116 (82)[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	5737	392	6.8	81	52.6	70.8	08/23/25-10/25/95	81.8
pH	2962	608	20.5	137	89.0	21.6	11/01/43-10/25/95	57.0
Conductivity	3007	522	17.4	146	94.8	20.6	07/01/36-10/21/95	50.7
Dissolved Oxygen	1096	785	71.6	86	55.8	12.7	11/13/61-10/25/95	32.3
Water Temperature	2232	848	38.0	143	92.9	15.6	11/01/41-10/25/95	41.3
Flow	5512	1668	30.3	100	64.9	55.1	08/23/25-10/25/95	78.5
Clarity/Turbidity	1355	618	45.6	93	60.4	14.6	11/23/59-10/25/95	37.7
Nitrate/Nitrogen	5445	1236	22.7	107	69.5	50.9	08/23/25-09/21/95	77.7
Phosphate/Phosphorus	1363	714	52.4	101	65.6	13.5	12/07/64-09/21/95	44.3
Chlorophyll	8	0	0.0	2	1.3	4.0	12/30/74-07/26/76	5.1
Sulfates/Total Dissolved Solids/Hardness	7873	510	6.5	111	72.1	70.9	08/23/25-09/21/95	112.3
Bacteria	1111	574	51.7	64	41.6	17.4	11/23/59-10/25/95	30.9
Toxic Elements	5928	3562	60.1	82	53.2	72.3	11/30/59-09/21/95	165.5

Water Quality Observations
Outside STORET Edit Criteria for GRCA

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	600315		5000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	600321		3600.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	600328		3200.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	600411		2000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	600418		5600.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	600906		2700.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	600919		1700.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	601010		8000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	601017		2100.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	601024		6000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	610227		4500.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	610403		2000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	610410		4400.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	610705		1700.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	610724		2000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	610828		2000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	610905		5000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	610911		32000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	610918		16000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	610925		10000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	611002		8000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	611009		1600.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	611015		3900.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	611106		2500.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	620219		11000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	620226		3125.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	620402		4500.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	620409		4000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	620416		3000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	620423		3500.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	620430		3000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	620709		2000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	620716		2000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	620924		5000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	621001		80000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	621008		16000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	621015		7000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	621022		10000.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	621029		4250.0000000	1110NET	030060	
GRCA0001	00070	TURBIDITY, (JACKSON CANDLE UNITS)	621105		2000.0000000	1110NET	030060	
GRCA0001	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	620402		10860.0000000	1110NET	030060	

Water Quality Observations
Outside STORET Edit Criteria for GRCA

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
GRCA0001	01501	ALPHA, TOTAL	600315		267.0000000	1110NET	030060	
GRCA0001	01501	ALPHA, TOTAL	601024		244.0000000	1110NET	030060	
GRCA0001	01501	ALPHA, TOTAL	610912		473.0000000	1110NET	030060	
GRCA0001	01501	ALPHA, TOTAL	610918		260.0000000	1110NET	030060	
GRCA0001	01501	ALPHA, TOTAL	620402		287.0000000	1110NET	030060	
GRCA0001	01501	ALPHA, TOTAL	621015		223.0000000	1110NET	030060	
GRCA0001	01505	ALPHA, SUSPENDED	600315		265.0000000	1110NET	030060	
GRCA0001	01505	ALPHA, SUSPENDED	600329		156.0000000	1110NET	030060	
GRCA0001	01505	ALPHA, SUSPENDED	601024		214.0000000	1110NET	030060	
GRCA0001	01505	ALPHA, SUSPENDED	610912		469.0000000	1110NET	030060	
GRCA0001	01505	ALPHA, SUSPENDED	610918		234.0000000	1110NET	030060	
GRCA0001	01505	ALPHA, SUSPENDED	611002		157.0000000	1110NET	030060	
GRCA0001	01505	ALPHA, SUSPENDED	620402		285.0000000	1110NET	030060	
GRCA0001	01505	ALPHA, SUSPENDED	621015		208.0000000	1110NET	030060	
GRCA0001	03505	BETA, SUSPENDED	610912		1527.0000000	1110NET	030060	
GRCA0001	03505	BETA, SUSPENDED	610918		1824.0000000	1110NET	030060	
GRCA0003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	940706	1015	89.0000000	21UTAH	495852	x
GRCA0003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	940809	1135	42.0000000	21UTAH	495852	x
GRCA0003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	940922	1000	56.0000000	21UTAH	495852	x
GRCA0003	00400	PH (STANDARD UNITS)	940706	1015	0.0000000	21UTAH	495852	x
GRCA0003	00403	PH, LAB, STANDARD UNITS SU	931201	1400	0.0000000	21UTAH	495852	x
GRCA0003	00440	BICARBONATE ION (MG/L AS HCO3)	940120	1130	820.0000000	21UTAH	495852	
GRCA0003	00440	BICARBONATE ION (MG/L AS HCO3)	940323	1030	930.0000000	21UTAH	495852	
GRCA0003	00440	BICARBONATE ION (MG/L AS HCO3)	940504	1715	620.0000000	21UTAH	495852	
GRCA0003	00440	BICARBONATE ION (MG/L AS HCO3)	940706	1015	640.0000000	21UTAH	495852	
GRCA0008	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	800829		50.0000000	11TOX09	000095	x
GRCA0008	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	800829		50.0000000	11TOX09	000095	x
GRCA0008	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	800829		50.0000000	11TOX09	000095	x
GRCA0008	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	800829		50.0000000	11TOX09	000095	x
GRCA0008	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	800829		50.0000000	11TOX09	000095	x
GRCA0008	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	800829		50.0000000	11TOX09	000095	x
GRCA0008	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	800829		50.0000000	11TOX09	000095	x
GRCA0011	00403	PH, LAB, STANDARD UNITS SU	861202	1445	0.0000000	112WRD	09380000	x
GRCA0012	00070	TURBIDITY, (JACKSON CANDLE UNITS)	770915	0930	32000.0000000	112WRD	09382000	
GRCA0012	00070	TURBIDITY, (JACKSON CANDLE UNITS)	780112	1000	7900.0000000	112WRD	09382000	
GRCA0012	00070	TURBIDITY, (JACKSON CANDLE UNITS)	790119	0930	9000.0000000	112WRD	09382000	
GRCA0012	00070	TURBIDITY, (JACKSON CANDLE UNITS)	790222	1700	10000.0000000	112WRD	09382000	
GRCA0012	00070	TURBIDITY, (JACKSON CANDLE UNITS)	790321	1600	7400.0000000	112WRD	09382000	
GRCA0012	00070	TURBIDITY, (JACKSON CANDLE UNITS)	790418	1200	6000.0000000	112WRD	09382000	
GRCA0012	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	790724	1700	15000.0000000	112WRD	09382000	
GRCA0012	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	790816	1000	3300.0000000	112WRD	09382000	

Water Quality Observations
Outside STORET Edit Criteria for GRCA

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
GRCA0012	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	770915	0930	391.0000000	112WRD	09382000	
GRCA0012	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	790321	1600	310.0000000	112WRD	09382000	
GRCA0012	01045	IRON, TOTAL (UG/L AS FE)	770915	0930	240000.0000000	112WRD	09382000	
GRCA0012	01045	IRON, TOTAL (UG/L AS FE)	780314	0930	71000.0000000	112WRD	09382000	
GRCA0012	01045	IRON, TOTAL (UG/L AS FE)	790321	1600	150000.0000000	112WRD	09382000	
GRCA0012	01055	MANGANESE, TOTAL (UG/L AS MN)	770915	0930	8300.0000000	112WRD	09382000	
GRCA0012	01055	MANGANESE, TOTAL (UG/L AS MN)	790321	1600	19000.0000000	112WRD	09382000	
GRCA0017	00070	TURBIDITY, (JACKSON CANDLE UNITS)	770914	0900	48000.0000000	112WRD	09381950	
GRCA0017	00070	TURBIDITY, (JACKSON CANDLE UNITS)	780215	1200	1600.0000000	112WRD	09381950	
GRCA0017	00070	TURBIDITY, (JACKSON CANDLE UNITS)	781102	1130	3700.0000000	112WRD	09381950	
GRCA0017	00070	TURBIDITY, (JACKSON CANDLE UNITS)	790223	1300	7100.0000000	112WRD	09381950	
GRCA0017	00070	TURBIDITY, (JACKSON CANDLE UNITS)	790419	1300	6500.0000000	112WRD	09381950	
GRCA0017	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	790725	0930	1600.0000000	112WRD	09381950	
GRCA0017	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	790815	1300	20000.0000000	112WRD	09381950	
GRCA0017	01045	IRON, TOTAL (UG/L AS FE)	780313	1230	77000.0000000	112WRD	09381950	
GRCA0017	01055	MANGANESE, TOTAL (UG/L AS MN)	770914	0900	10000.0000000	112WRD	09381950	
GRCA0020	00440	BICARBONATE ION (MG/L AS HCO3)	660517		464.0000000	112WRD	361203111452501	
GRCA0020	00440	BICARBONATE ION (MG/L AS HCO3)	660712		494.0000000	112WRD	361203111452501	
GRCA0020	00440	BICARBONATE ION (MG/L AS HCO3)	661102		476.0000000	112WRD	361203111452501	
GRCA0020	00440	BICARBONATE ION (MG/L AS HCO3)	670315		488.0000000	112WRD	361203111452501	
GRCA0055	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	800123	1130	1800.0000000	112WRD	09402500	
GRCA0055	00400	PH (STANDARD UNITS)	450521		74.0000000	112WRD	09402500	x
GRCA0055	00400	PH (STANDARD UNITS)	480301		1350.0000000	112WRD	09402500	x
GRCA0055	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	601001		4370.0000000	112WRD	09402500	
GRCA0055	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	561201		72.0000000	112WRD	09402500	
GRCA0124	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	891011	1427	99.0000000	112WRD	09404120	x
GRCA0130	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	940709		2650.0000000	11NPSWRD	GRCA_COLO003	
GRCA0143	01020	BORON, DISSOLVED (UG/L AS B)	760511	1000	12000.0000000	112WRD	355459113195900	
GRCA0144	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	920621		1872.0000000	11NPSWRD	GRCA_COLO002	
GRCA0144	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	921024		1760.0000000	11NPSWRD	GRCA_COLO002	
GRCA0144	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	951025		1646.0000000	11NPSWRD	GRCA_COLO002	
GRCA0152	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	910823	1000	242.0000000	112WRD	354522113264800	x

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) GRCATABS.ZIP

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

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

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

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

(d) GRCAOV0.DOC - Overview of park and retrieved data.

(e) GRCAOV1.DOC - Station period of record table.

(f) GRCAOV2.DOC - Parameter period of record table.

(g) GRCAOV3.DOC - Station/parameter period of record table.

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

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

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

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

(l) GRCABAD.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 GRCAOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\GRCAOV1.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) GRCAFIGS.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 GRCA0001. 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 GRCA0001) 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) GRCAPARM.ZIP

This file compresses GRCAPARM.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) GRCASITE.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) GRCAWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.

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

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

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

(e) GRCADAMS.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) GRCAMISC.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) GRCAEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

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

(f) GRCAWQ - 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 (GRCAWQA, GRCAWQB, GRCAWQC, etc.) and the index map name will end with an ampersand (&).

(g) GRCAIDG - 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 (GRCAIDGA, GRCAIDGB, GRCAIDGC, 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) GRCASEHY - 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 GRCAFIGS.ZIP and GRCATABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in GRCAMISC.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) GRCARF3.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) GRCAWQMW.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: GRCAPARM.DBF in GRCAPARM.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: GRCAPARM.DBF in GRCAPARM.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: GRCAPARM.DBF in GRCAPARM.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: GRCAWQ.DBF in GRCASITE.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: GRCAWQ.DBF in GRCASITE.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: GRCAIFD.DBF in GRCASITE.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: GRCAIFD.DBF in GRCASITE.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: GRCAIFD.DBF in GRCASITE.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: GRCADRIN.DBF in GRCASITE.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: GRCADRIN.DBF in GRCASITE.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: GRCADRIN.DBF in GRCASITE.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: GRCAGAGE.DBF in GRCASITE.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: GRCAGAGE.DBF in GRCASITE.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: GRCADAMS.DBF in GRCASITE.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: GRCADAMS.DBF in GRCASITE.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: GRCADAMS.DBF in GRCASITE.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: GRCADAMS.DBF in GRCASITE.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 GRCARF3.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 GRCARF3.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 GRCARF3.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 GRCARF3.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 GRCARF3.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 GRCARF3.ZIP
First Line = Catalog Unit Number (8 Characters)
Subsequent Lines:
L=DDMMSS,L=DDDMMSS,L=DDMMSS,L=DDDMMSS,L=DDMMSS,L=DDDMMSS, ...
Example:
02070010
L=391259,L=0770809,L=391220,L=0770749,L=391147,L=0770715,L=391120,L=0770633,
L=391058,L=0770535,L=391042,L=0770520,L=391016,L=0770427,L=390948,L=0770416,
L=390526,L=0765331,L=390500,L=0765149,L=390456,L=0765139,L=390357,L=0765123,
...
L=390744,L=0771007,L=390826,L=0771022,L=390910,L=0771022,L=390950,L=0771003,
L=391107,L=0770922,
There can be as many as four latitude/longitude pairs per line.

The following table provides the DBASE III+ database field structure of the Water Resources Division's "encyclopedia" file that documents the minimum and maximum parameter values found and the park(s) where they occurred. This file is intended for Water Resources Division internal use, but will be available to anyone upon request after Baseline Water Quality Data Inventory and Analysis reports have been completed for all parks.

Encyclopedia File: WRD File For Internal Use Only				
Field Name	**Start**	**Stop**	**Length**	**Field Description**
PARM	1	5	5	STORET Parameter Code
PARMNAME	6	45	40	Parameter Name
MINVAL	46	61	16.7	Minimum Value
MINVALPARK	62	65	4	Park Unit with Minimum Value
MAXVAL	66	71	16.7	Maximum Value
MAXVALPARK	72	75	4	Park Unit with Maximum Value

Appendix C

STORET Water Quality Control/Edit Checking

The following table provides the high and low values used by STORET since November 1983 for 190 common water quality parameters to screen or error check data. Data entered into STORET prior to November 1983, however, were not subjected to this edit/bounds check. Additionally, data from the USGS WATSTORE system that is loaded into STORET is never subjected to these edit criteria and agencies entering data in STORET can override these edit criteria to enter data values that fall outside a range. As a consequence, all data downloaded from STORET for the purposes of this project were filtered through these edit criteria to document values outside the generally accepted ranges. Decisions were then made on a case-by-case basis to retain or discard obviously incorrect data. Refer to the Water Quality Observations Outside STORET Edit Criteria section of the Interpretive Guide To Water Quality Results chapter for more information on this subject.

STORET Code	STORET Parameter Description	High Value	Low Value
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	37.0	-2.0
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	98.0	31.0
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	52.0	-40.0
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	125.0	-40.0
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE	1990.9	1977.0
00032	CLOUD COVER (PERCENT)	101.0	0.0
00035	WIND VELOCITY (MILES PER HOUR)	85.0	0.0
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	361.0	0.0
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	15.0	0.0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	1500.0	0.0
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	101.0	0.0
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	500.0	0.0
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	1000.0	0.0
00077	TRANSPARENCY, SECCHI DISC (INCHES)	600.0	0.0
00080	COLOR (PLATINUM-COBALT UNITS)	500.0	0.0
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	500.0	0.0
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	250.0	0.0
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	60000.0	1.0
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	60000.0	1.0
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	30.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00300	OXYGEN, DISSOLVED (MG/L)	30.0	0.0
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION%	200.0	0.0
00310	BOD, 5 DAY, 20 DEG C (MG/L)	150.0	0.0
00335	COD, .025N K2CR2O7 (MG/L)	1000.0	0.0
00340	COD, .25N K2CR2O7 (MG/L)	1000.0	0.0
00365	CHLORINE DEMAND, 15 MINUTE (MG/L)	15.0	0.0
00400	PH (STANDARD UNITS)	12.0	0.9
00403	PH, LAB, STANDARD UNITS, (STANDARD UNITS)	12.0	0.9
00405	CARBON DIOXIDE (MG/L AS CO2)	100.0	0.0
00406	PH, FIELD (STANDARD UNITS)	12.0	0.9
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	1000.0	0.0
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	750.0	0.0
00435	ACIDITY, TOTAL (MG/L AS CACO3)	1000.0	0.0
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	1000.0	0.0
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	750.0	0.0
00440	BICARBONATE ION (MG/L AS HCO3)	450.0	0.0
00445	CARBONATE ION (MG/L AS CO3)	100.0	0.0
00480	SALINITY - PARTS PER THOUSAND	40.0	0.0
00500	RESIDUE, TOTAL (MG/L)	15000.0	0.0
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10000.0	0.0
00510	RESIDUE, TOTAL FIXED (MG/L)	10000.0	0.0
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), (MG/L)	20000.0	0.0
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	10000.0	0.0
00525	RESIDUE, FIXED FILTRABLE (MG/L)	10000.0	0.0
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10000.0	0.0
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10000.0	0.0
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10000.0	0.0
00545	RESIDUE, SETTLEABLE (ML/L)	1000.0	0.0
00546	RESIDUE, SETTLEABLE (MG/L)	1000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00550	OIL & GREASE (SOXHLET EXTRACTION) TOTAL,REC., (MG/L)	250.0	0.0
00600	NITROGEN, TOTAL (MG/L AS N)	100.0	0.0
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	15.0	0.0
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	25.0	0.0
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	20.0	0.0
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	5.0	0.0
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	50.0	0.0
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	50.0	0.0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	55.0	0.0
00635	NITROGEN, AMMONIA & ORG., TOTAL 1 DET (MG/L AS N)	70.0	0.0
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	30.0	0.0
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	30.0	0.0
00655	PHOSPHATE, POLY (MG/L AS PO4)	30.0	0.0
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	30.0	0.0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10.0	0.0
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10.0	0.0
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	100.0	0.0
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	100.0	0.0
00685	CARBON, TOTAL INORGANIC (MG/L AS C)	100.0	0.0
00690	CARBON, TOTAL (MG/L AS C)	150.0	0.0
00720	CYANIDE, TOTAL (MG/L AS CN)	10.0	0.0
00745	SULFIDE, TOTAL (MG/L AS S)	1500.0	0.0
00746	SULFIDE, DISSOLVED (MG/L AS S)	1500.0	0.0
00760	SULFITE WASTE LIQUOR, PEARL BENSON INDEX (MG/L)	150.0	0.0
00900	HARDNESS, TOTAL (MG/L AS CACO3)	5000.0	0.0
00910	CALCIUM (MG/L AS CACO3)	3000.0	0.0
00915	CALCIUM, DISSOLVED (MG/L AS CA)	1000.0	0.0
00916	CALCIUM, TOTAL (MG/L AS CA)	1000.0	0.0
00920	MAGNESIUM (MG/L AS CACO3)	3000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	1000.0	0.0
00927	MAGNESIUM, TOTAL (MG/L AS MG)	1000.0	0.0
00929	SODIUM, TOTAL (MG/L AS NA)	5000.0	0.0
00930	SODIUM, DISSOLVED (MG/L AS NA)	5000.0	0.0
00931	SODIUM ADSORPTION RATIO	50.0	0.0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	175.0	0.0
00937	POTASSIUM, TOTAL MG/L AS K)	175.0	0.0
00940	CHLORIDE, TOTAL IN WATER, (MG/L)	22000.0	0.0
00945	SULFATE, TOTAL (MG/L AS SO4)	2500.0	0.0
00946	SULFATE, DISSOLVED (MG/L AS SO4)	2500.0	0.0
00950	FLUORIDE, DISSOLVED (MG/L AS F)	15.0	0.0
00951	FLUORIDE, TOTAL (MG/L AS F)	15.0	0.0
00955	SILICA, DISSOLVED (MG/L AS SI02)	2000.0	0.0
00956	SILICA, TOTAL (MG/L AS SI02)	2000.0	0.0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	5000.0	0.0
01002	ARSENIC, TOTAL (UG/L AS AS)	5000.0	0.0
01005	BARIUM, DISSOLVED (UG/L AS BA)	2000.0	0.0
01007	BARIUM, TOTAL (UG/L AS BA)	2000.0	0.0
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	2000.0	0.0
01012	BERYLLIUM, TOTAL (UG/L AS BE)	2000.0	0.0
01020	BORON, DISSOLVED (UG/L AS B)	5000.0	0.0
01022	BORON, TOTAL (UG/L AS B)	5000.0	0.0
01025	CADMIUM, DISSOLVED (UG/L AS CD)	500.0	0.0
01027	CADMIUM, TOTAL (UG/L AS CD)	500.0	0.0
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	2000.0	0.0
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	2000.0	0.0
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	2000.0	0.0
01034	CHROMIUM, TOTAL (UG/L AS CR)	2000.0	0.0
01040	COPPER, DISSOLVED (UG/L AS CU)	2000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
01042	COPPER, TOTAL (UG/L AS CU)	5000.0	0.0
01045	IRON, TOTAL (UG/L AS FE)	56000.0	0.0
01046	IRON, DISSOLVED (UG/L AS FE)	56000.0	0.0
01047	IRON, FERROUS (UG/L AS FE)	56000.0	0.0
01049	LEAD, DISSOLVED (UG/L AS PB)	1000.0	0.0
01051	LEAD, TOTAL (UG/L AS PB)	1000.0	0.0
01055	MANGANESE, TOTAL (UG/L AS MN)	5000.0	0.0
01056	MANGANESE, DISSOLVED (UG/L AS MN)	5000.0	0.0
01065	NICKEL, DISSOLVED (UG/L AS NI)	2000.0	0.0
01067	NICKEL, TOTAL (UG/L AS NI)	2000.0	0.0
01075	SILVER, DISSOLVED (UG/L AS AG)	5000.0	0.0
01077	SILVER, TOTAL (UG/L AS AG)	5000.0	0.0
01090	ZINC, DISSOLVED (UG/L AS ZN)	25000.0	0.0
01092	ZINC, TOTAL (UG/L AS ZN)	25000.0	0.0
01105	ALUMINUM, TOTAL (UG/L AS AL)	20000.0	0.0
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	20000.0	0.0
01145	SELENIUM, DISSOLVED (UG/L AS SE)	100.0	0.0
01501	ALPHA, TOTAL	200.0	0.0
01503	ALPHA, DISSOLVED	75.0	0.0
01505	ALPHA, SUSPENDED	150.0	0.0
03501	BETA, TOTAL	3500.0	0.0
03503	BETA, DISSOLVED	3000.0	0.0
03505	BETA, SUSPENDED	1500.0	0.0
09503	RADIUM 226, DISSOLVED	500.0	0.0
13501	STRONTIUM 90, TOTAL	500.0	0.0
22703	URANIUM, NATURAL, DISSOLVED	500.0	0.0
31501	COLIFORM, TOT,MEMBRANE FILTER,IMMED.M-ENDO MED, 35C	24000000.0	0.0
31502	COLIFORM, TOTAL, 10/ML	24000000.0	0.0
31503	COLIFORM, TOT,MEMBR FILTER, DELAYED,M-ENDO MED, 35C	24000000.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
31504	COLIFORM, TOT,MEMBR FILTER,IMMED,LES ENDO AGAR, 35C	24000000.0	0.0
31613	FECAL COLIFORM, MEMBR FILTER, M-FC AGAR,44.5C, 24HR	10000000.0	0.0
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	10000000.0	0.0
31616	FECAL COLIFORM, MEMBR FILTER,M-FC BROTH, 44.5C	10000000.0	0.0
31672	FECAL STREPTOCOCCI,PLATE COUNT M-ENTER AGAR,35C48HR	500000.0	0.0
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	500000.0	0.0
31677	FECAL STREPTOCOCCI,MPN,AD-EVA, 35C (TUBE 31678)	500000.0	0.0
31679	FECAL STREPTOCOCCI, MF M-ENTEROCOCCUS AGAR,35C,48H	500000.0	0.0
31749	PLATE COUNT, TOTAL, TPC AGAR, 20C, 48 HRS	99999999.0	0.0
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	99999999.0	0.0
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	500.0	0.0
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	750.0	0.0
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	1000.0	0.0
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	200.0	0.0
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	500.0	0.0
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	200.0	0.0
32219	PHEOPHYTIN RATIO(OD 663)SPECTRO,BEFORE/AFTER ACID	2.0	0.0
32221	CHLOROPHYLL A,% OF(PHEOPHYTIN A+CHL A),SPEC-ACID.	101.0	0.0
32230	CHLOROPHYLL A (MG/L)	0.5	0.0
32231	CHLOROPHYLL B (MG/L)	0.8	0.0
32232	CHLOROPHYLL C (MG/L)	0.2	0.0
32234	CHLOROPHYLL, TOTAL (A+B+C) (MG/L)	1.0	0.0
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	5.0	0.0
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	1500.0	0.0
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	10.0	0.0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39340	GAMMA-BHC(LINDANE),WHOLE WATER, (UG/L)	20.0	0.0
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER, (UG/L)	20.0	0.0
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0

STORET Code	STORET Parameter Description	High Value	Low Value
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	20.0	0.0
50060	CHLORINE, TOTAL RESIDUAL (MG/L)	5.0	0.0
60050	ALGAE, TOTAL (CELLS/ML)	700000.0	0.0
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	4000.0	0.0
70505	PHOSPHATE, TOTAL,COLORIMETRIC METHOD (MG/L AS P)	10.0	0.0
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10.0	0.0
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	65.0	0.0
71886	PHOSPHORUS, TOTAL, AS PO4 - (MG/L)	30.0	0.0
71890	MERCURY, DISSOLVED (UG/L AS HG)	10.0	0.0
71895	MERCURY, SUSPENDED (UG/L AS HG)	10.0	0.0
71900	MERCURY, TOTAL (UG/L AS HG)	10.0	0.0
74010	IRON, TOTAL (MG/L AS FE)	56000.0	0.0

Appendix D

STORET Administrative Parameters

STORET Code	Description of STORET Administrative Parameters
00022	LENGTH OF EXPOSURE OF SAMPLE OR TEST - DAYS
00026	TOXICS-IDENTIFY DATA COLLECTION BY EPA DIRECTIVE
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00073	SAMPLE LOC CODE DEFINED BY THERMAL STRUCT & DEPTH
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
00116	INTENSIVE SURVEY IDENTIFICATION NUMBER
00145	TOTAL PRODUCTION OF PRODUCT MANUFACTURED TONS/DAY
01273	TOTAL ACID PRIORITY POLLUTANTS MG/L
01274	TOTAL BASE-NEUTRAL PRIORITY POLLUTANTS MG/L
01275	TOTAL VOLATILE PRIORITY POLLUTANTS MG/L
01365	ANALYSIS DATE (DIOXIN) (YYMMDD)
04177	SAMPLE STABILIZATION, RECOVERY TEST CODE
04178	FIELD PROTOCOL(CONFDNCE ASSIGNED FIELD SAMPLE) CODE
04179	SAMPLE STATION LOCKED CODE
04180	CONDITION OF STATION SITE CODE
04181	LABORATORY QA/QC PLAN CONFIDENCE CODE
04182	SAMPLE TYPE CODE
04183	SAMPLE REMARKS CODE
30333	BAG MESH SIZE, BEDLOAD SAMPLER, MM
34772	NPDES NUMBER, CROSS REFERENCE CODE
34785	GAGE TYPE, METHOD CODE

STORET Code	Description of STORET Administrative Parameters
45575	GC MAKE AND MODEL INFORMATION CODE
45576	GC DETECTOR TYPE CODE
45577	GC COLUMN TYPE CODE
45580	METHOD OF ANALYSIS CODE
45581	LABORATORY LOCATION CODE
46107	SAMPLE LOCATION CODE (TREATMENT PLANT OPERATION)
46390	TOXICITY CHARACTERISTIC LEACHING PROCEDURE P OR F
46396	PROCESS TO SIGNIFICANTLY REDUCE PATHOGENS YES OR NO
46397	PROCESS TO FURTHER REDUCE PATHOGENS YES OR NO
47001	PERMIT EXPIRATION DATE (JULIAN CALENDAR)
47044	OBSERVATIONS,WASTE SITE-SEVERITY OF PROBLEMS CODE
47460	SUBSAMPLE - DECIMAL FRACTION OF WHOLE NUMBER
47477	COMPOSITION AND/OR DISPOSITION OF CATCH NUM CODE
70231	CURRENT DIRECTION (DEGREES FROM DOWNSTREAM FLOW)
71999	SAMPLE PURPOSE CODE
72032	NUMBER OF SPILLWAY GATES OPEN
73672	DATE OF ANALYSIS YYMMDD
73673	DATE OF EXTRACTION YYMMDD
74031	GRANT, PROJECT COST ELIGIBLE FOR CONSTRUCTION
74032	GRANT, AMOUNT OF PL 660 GRANT FOR THIS PROJECT
74033	GRANT, FEDERAL, OTHER THAN PL 660 GRANT
74034	GRANT, FUTURE PL 660 WHICH MAY APPLY TO THIS PROJ
74035	GRANT, TOTAL FEDERAL, WHICH APPLIES TO THIS PROJ
74036	GRANT, PROJ NUMBER ASSIGNED TO THIS APPLICATION
74037	GRANT, TYPE OF PROJECT TO WHICH GRANT APPLIES
74038	GRANT, STATUS OF PROJECT TO WHICH GRANT APPLIES
74039	PCS/STORET WATER QUALITY FILE INTERFACE YR/MO/DAY
74040	SURVEY NUMBER YYMMNO
74041	STORET STORAGE TRANSACTION DATE YR/MO/DAY

STORET Code	Description of STORET Administrative Parameters
74050	RADIOACTIVITY, GENERAL (PERMIT)
74051	ALGICIDES, GENERAL (PERMIT)
74052	CHLORINATED HYDROCARBONS, GENERAL (PERMIT)
74053	PESTICIDES, GENERAL (PERMIT)
74056	COLIFORM, TOTAL, GENERAL (PERMIT)
74065	STREAM FLOW CLASS
74066	ANNUAL RUNOFF
74067	SOIL CLASSIFICATION
74068	WATER QUALITY DESIGNATED USE CLASSIFICATION (IA)
74100	PRIMARY 1972 SIC CODE
74101	SECONDARY 1972 SIC CODE
74102	SECONDARY 1972 SIC CODE
74103	SECONDARY 1972 SIC CODE
74200	SAMPLE PRESERVATION METHODS ONE OR MORE IN COMB.
74205	LAND RESOURCE AREA (IOWA)
74206	SOIL EROSION POTENTIAL (IOWA)
74209	WATER QUALITY INDEX - STATE OF ILLINOIS, EPA
74210	FOREST STREAM WATER QUALITY INDEX CALC. NUMBER
74990	FISH SPECIES NUMERIC CODE - F&W SERVICE
74995	ANATOMY CODE
75000	SPECIES CODE-REMARK=SEX (M=MALE,F=FEMALE,U=UNK.)
81028	WITHDRAWAL OF GROUNDWATER (MILLION GAL/DAY)
82258	WATER CLASSIFICATION CODE (1-9) CODE
82292	DATA RELAY GROUND STATION SOURCE NODE CODE, CODE
82309	CONTAMINATION SOURCE POSSIBLE CODES NUMERIC CODE
82310	DEPTH CONFIDENCE IN REPORTED VALUES NUMERIC CODES
82373	FREQUENCY OF SAMPLING M=MON,Q=QUAR,Y=YR,R=RNFFCODE
82519	DRILLER REGISTRATION NUMBER ALPHA-NUMERIC CODE
82562	NARRATIVE REQUIREMENT EXCEEDANCES INTEGER

STORET Code	Description of STORET Administrative Parameters
82576	DAILY EXCURSION TIME, WATER MIN
82577	MONTHLY EXCURSION TIME, WATER TOTAL MIN
82578	DAY/MAXIMUM EXCURSION TIME, WATER MIN
82579	CODE NUMBER FOR PERSON COLLECTING SAMPLE
84002	CODE, GENERAL INFORMATION - ALPHA, NUMERIC CODE
84003	WATER SHED ID NUMBER (IOWA)
84005	FISH SPECIES CODE-FISH & WILDLIFE SER
84006	OWNERSHIP CLASSIFICATION OF LAKE, ILLINOIS SYSTEM
84010	PUBLIC ACCESS TO LAKE ILLINOIS SYSTEM
84011	CONFIDENCE CODE FOR GLC CONFIRMATION CODE
84012	PATIENT PARAMETERS (AGE, SEX, WT, ETC.) CODE
84013	SAMPLE PARAMETERS D=DESIGN SPECIMEN, S=SURPLUS
84027	CODE NUMBER FOR AGENCY COLLECTING SAMPLE
84028	CODE NO FOR AGENCY ANALYZING SAMPLE
84029	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE FIELD
84033	EGD ANALYTICAL DATA COMPLETENESS Y=YES N=NO CODE
84034	EGD SMPL NO.(SMPL.IDENT) NUMERIC=SCS ALPH+4NUM=JRB
84035	EGD SAMPLE CLASSIFICATION CATEGORY ALPHA CODE
84036	EGD INDUSTRIAL CATEGORY NUMERIC CODE
84037	EGD INDUSTRIAL CATEGORY NAME ALPHA CODE
84038	EGD LABORATORY NUMERIC CODE
84039	EGD LABORATORY NAME ALPHA CODE
84040	EGD SAMPLE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84041	EGD ACID STATUS (1-5,9,AND BLANK) NUMERIC CODE
84042	EGD BASE STATUS (1-5,9AND BLANK) NUMERIC CODE
84043	EGD PESTICIDE STATUS (1-5,9,AND BLANK) NUMERIC CODE
84044	EGD VOA FRACT. STATUS INDICATOR (1-5,9,BLANK) CODE
84045	EGD ACID EXTRACT DATE (YYMMDD) NUMERIC CODE
84046	EGD BASE EXTRACTION DATE (YYMMDD) NUMERIC CODE

STORET Code	Description of STORET Administrative Parameters
84047	EGD PESTICIDE EXTRACTION DATE (YYMMDD) NUMERIC CODE
84048	EGD VOA FRACTION INJECTION DATE YYMMDD NUMERIC CODE
84049	EGD ACID CONC. FACTOR (FIVE NUMERIC DIGITS) CODE
84050	EGD BASE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84051	EGD PESTICIDE CONC.FACTOR (FIVE NUMERIC DIGITS) CODE
84052	EGD VOA FRACTION CONC. FACTOR (5 NUMERIC DIGITS) CODE
84053	SAMPLE TYPE AND FREQUENCY OF COLLECTION CODE
84054	LITHOLOGY ALPHA-NUMERIC CODE
84055	AVAILABLE LOGS ALPHA-NUMERIC CODE
84056	WATER USE CATEGORY ALPHA-NUMERIC CODE
84057	INSPECTION TYPE ALPHA-NUMERIC CODE
84058	HYDROGEOLOGIC SYSTEM ALPHA-NUMERIC CODE
84059	WELL OWNERSHIP ALPHA-NUMERIC CODE
84060	TOPOGRAPHY ALPHA-NUMERIC CODE
84061	WELL USE ALPHA-NUMERIC CODE
84062	MEASURING POINT DESCRIPTION ALPHA-NUMERIC CODE
84063	DRILLING METHOD ALPHA-NUMERIC CODE
84064	WELL DATA AVAILABILITY ALPHA-NUMERIC CODE
84065	PERMIT COMPLIANCE DATA ALPHA-NUMERIC CODE
84067	NATURE OF MONITORING ALPHA-NUMERIC CODE
84073	REPLACES EXISTING WELL ALPHA-NUMERIC CODE
84074	AQUIFER TYPE (SEE USGS HANDBOOK) ALPHA CODE
84075	WELL PERMIT NUMBER ALPHA-NUMERIC CODE
84076	TSD MONITORING WELL TYPE ALPHA CODE
84077	TSD MONITORING WELL SAMPLING METHOD ALPHA CODE
84083	POLLUTION VERIFICATION ALPHA CODE
84084	WELL SAMPLE PURPOSE ALPHA CODE
84090	SAMPLE FILE CONTROL PROJECT IDENTIFICATION A-CODE
84091	INFILTRATION DATE/BEGINNING 'YYMMDD'

STORET Code	Description of STORET Administrative Parameters
84092	INFILTRATION DATE/ENDING 'YYMMDD'
84093	ENFORCEMENT FORM #2-C,DATA IDENTIFICATION CODE
84102	SAMPLE SPECIES-SUB ID ALPHA CODE
84103	DIOXIN LABORATORY ALPHA CODE
84104	DIOXIN STUDY ALPHA CODE
84112	SOURCE OF GEOHYDROLOGIC DATA CODE
84119	SOURCE OF EVACUATION DATA CODE
84121	REGULATING AGENCY CODE
84122	SAMPLE PURPOSE CODE
84126	SOURCE OF DEPTH DATA CODE
84127	METHOD OF DEPTH MEASUREMENT CODE
84128	SOURCE OF WATER-LEVEL DATA CODE
84129	DATA QUALITY
84141	LAKE, PHYSICAL CONDITION AT SAMPLE TIME, 1-5, CODE
84142	LAKE,RECREATIONAL SUITABILITY @ SMPL TIME,1-5, CODE
84164	SAMPLER TYPE, CODE
85300	PROBLEM CODE NES SURVEY
85327	WATER LEVEL AT SAMPLE COLLECTION TIME-CODE-NES
85332	CLOUD COVER AT SAMPLE COLLECTION TIME-CODE-NES
85553	WELL COMPLETION DATE (MONTH/YEAR)
85554	WELL WORKOVER DATE, LATEST (MONTH/YEAR)

Appendix E

STORET Parameters Not Suitable for Statistical Analysis

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00001	X-SEC. LOC., HORIZ (FT. FROM R BANK LOOK UPSTR.)
00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)
00005	X-SEC. LOC., VERTICAL (PERCENT OF TOTAL DEPTH)
00006	DISTANCE FROM LOCATION IN X MILES
00007	DISTANCE FROM LOCATION IN Y MILES
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE
00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)
00027	CODE NO FOR AGENCY COLLECTING SAMPLE
00028	CODE NO FOR AGENCY ANALYZING SAMPLE
00033	WEATHER CODE FOR OCEAN-OBSERV. (WMO CODE 4677)
00037	WIND FORCE (BEAUFORT UNITS)
00038	WIND DIRECTION (WMO CODES 0885 + 0887)
00041	WEATHER (WMO CODE 4501)
00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL
00043	CLOUD TYPE (WMO CODE 0500)
00044	CLOUD AMOUNT (WMO CODE 2700)
00047	TOTAL PARTIAL PRESSURE DISSOLVED GASES (MM HG)
00048	TOTAL PARTIAL PRESSURE DISSOLVED GASES (% SAT)
00049	SURFACE AREA IN SQUARE MILES
00050	EVAPORATION, TOTAL (INCHES PER DAY)
00051	SURFACE AREA IN SQUARE FEET
00053	SURFACE AREA, ACRES
00054	RESERVOIR STORAGE - ACRE FEET
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION
00067	TIDE STAGE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
00069	SEA WAVES(0=NONE;1=0-3";2=4-20";3=21-48";4=4-8')
00097	SAMPLING STATION LOCATION, VERTICAL (FEET)
00098	SAMPLING STATION LOCATION, VERTICAL (METERS)
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)
01300	OIL-GREASE (SEVERITY)
01305	DETERGENT SUDS (SEVERITY)
01310	GAS BUBBLES (SEVERITY)
01315	SLUDGE, FLOATING (SEVERITY)
01320	GARBAGE, FLOATING (SEVERITY)
01325	ALGAE, FLOATING MATS (SEVERITY)
01330	ODOR, ATMOSPHERIC (SEVERITY)
01331	TASTE (SEVERITY)
01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)
01340	FISH, DEAD (SEVERITY)
01345	DEBRIS, FLOATING (SEVERITY)
01350	TURBIDITY (SEVERITY)
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE
01355	ICE COVER, FLOATING OR SOLID (SEVERITY)
03595	BIOASSAY (96 HR), EFFLUENT, TOTAL CODE
03596	BIOASSAY (48 HR), EFFLUENT, TOTAL CODE
03597	BIOASSAY (24 HR), EFFLUENT, TOTAL CODE
03598	TOXICITY, EFFLUENT, TOTAL CODE
03599	TOXICITY, CHOICE OF SPECIES, EFFLUENT CODE
03600	TOXICITY, TROUT, EFFLUENT, TOTAL CODE
03601	TOXICITY, SAND DOLLAR, EFFLUENT CODE
03602	BIOCHEMICAL OXYGEN DEMAND, EFFLUENT, TOTAL CODE
03603	SOLIDS, TOTAL SUSPENDABLE, EFFLUENT, TOTAL CODE
03605	FLOW METER CALIBRATION, WATER CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
03717	ONCORHYNCHUS MYKISS, WATER CODE
04117	TETHER LINE USED FOR COLLECTING SAMPLE CODE
04160	HALOCARBONS, PURGEABLE, SCAN, EFFLUENT CODE
04161	HALOCARBONS, PURGEABLE, SCAN, SLUDGE CODE
04162	AROMATIC, PURGEABLE, SCAN, EFFLUENT CODE
04163	AROMATIC, PURGEABLE, SCAN, SLUDGE CODE
04164	PHENOLIC, TOTAL, SCAN, EFFLUENT CODE
04165	PHENOLIC, TOTAL, SCAN, SLUDGE CODE
04166	PCB, TOTAL, SCAN, EFFLUENT CODE
04167	PCB, TOTAL, SCAN, SLUDGE CODE
04174	FREE LIQUIDS IN SEWAGE SLUDGE CODE
34765	AVIAN NUMERICAL SPECIES CODE (BIRDS)
34766	MAMMALIAN NUMERICAL SPECIES CODE
34771	MACROPHYTE, INSTREAM, VISUAL SIGHTING CODE
34773	ODOR, AMBIENT WATER CODE
34774	FISH, INSTREAM, VISUAL SIGHTING CODE
34775	STREAMBANK CHANNEL ALTERATIONS CODE
34776	HYDRAULIC STRUCTURES, INSTREAM CODE
34780	LAND USE, ADJACENT STREAM CODE
34781	SAMPLE POINTS, # OF LONGTDNL TRANSECTS, REACH CODE
34782	STREAM STAGE TREND CODE
34789	HABITATS, TYPES SAMPLED CODE
45613	FLOATING SOLIDS/VISIBLE FOAM, VISUAL, YES=1, NO=0, CODE
45614	SANITARY WASTE DISCHARGE ASSESSMENT, YES=1, NO=0, CODE
45615	INTERMITTENT DISCHARGE ASSESSMENT, YES=1, NO=0,CODE
46001	WATER APPEARANCE CODE (BASED ON FIELD ASSESSMENT)
46478	EQUIPMENT INSPECTION, VISUAL CODE
46486	TOXICITY,ACUTE 24HR(STATIC)CERIODAPHNIA (P/F) CODE
47454	FLOW METER REVOLUTIONS NUMBER

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
47455	LATITUDE, STARTING, OF A SAMPLE TOW DDMMSS
47456	LONGITUDE, STARTING, OF A SAMPLE TOW DDDMMSS
47457	LATITUDE, FINISHING, OF A SAMPLE TOW DDMMSS
47458	LONGITUDE, FINISHING, OF A SAMPLE TOW DDDMMSS
47459	LENGTH FREQUENCY NUMBER
47461	TIME THAT THE EQUIPMENT WAS SAMPLING MINUTES
47476	DIRECTION OF TOW IN RELATION TO CURRENT NUM CODE
50044	HYDROGRAPH LIMB, 1BASE, 2RISING, 3PEAK, 4FALLING, CODE
61390	DIATOMS,FIRST DOMINANT SPECIES OF UNITS - CODE
61391	DIATOMS,SECOND DOMINANT SPECIES OF UNITS - CODE
61392	DIATOMS,THIRD DOMINANT SPECIES OF UNITS - CODE
61393	DIATOMS,FOURTH DOMINANT SPECIES OF UNITS - CODE
70220	WAVE DIRECTION (WMO CODES 0885 + 0887)
70222	WAVE HEIGHT (WMO CODE 1555)
70223	WAVE PERIOD (WMO CODE 3155)
71090	BIVALVE SPECIES CODE
71500	EQUITABILITY INDEX,BENTHIC MACROINVER CODE
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)
72001	DEPTH, TOTAL OF HOLE (FT BELOW LAND SURFACE DATUM)
72002	DEPTH TO TOP OF WATER-BEARING ZONE SAMPLED (FT)
72003	DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT)
72004	PUMP OR FLOW PERIOD PRIOR TO SAMPLING MINUTES
72005	SAMPLE SOURCE CODE (BM WELL DATA)
72006	SAMPLING CONDITION CODE (BM WELL DATA)
72007	FORMATION NAME CODE (BM WELL DATA)
72017	SERIES CODE (BM WELL DATA)
72018	SYSTEM CODE (BM WELL DATA)
72111	DIRECT READOUT GROUND STATN TRANSMIT EROR CODE NUM
74054	FECAL STREPTOCOCCI, GENERAL (PERMIT)

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
74055	FECAL COLIFORM, GENERAL (PERMIT)
80889	ACTIVATED SLUDGE PROCESS MODIFICATION CODE
81024	DRAINAGE AREA IN SQUARE MILES (SQ. MI.)
81637	SHELLFISH SPECIES NUMERIC CODE
82289	LAGOON OBSERVATION, VISUAL, Y=YES N=NO CODE
82398	SAMPLING METHOD (CODES)
82524	STORAGE COEFFICIENT NUMERICAL CODE
82923	ATMOSPHERIC DEPOSITION TYPE, WET CODE
83205	ATMOSPHERIC DEPOSITION TYPE, BULK CODE
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)
84001	AQUIFER NAME CODE (SEE USGS CATALOG)
84004	LAKE TYPE ILLINOIS CLASSIFICATION SYSTEM
84007	ANATOMY ALPHA CODE
84008	LIFE STYLE/HABITAT OF THE INDIVIDUALS IN THE SAMPLE
84009	SHELLFISH SPECIES ALPHANUMERIC CODE
84014	SPECIES SEX CODE
84030	CLOUD AMOUNT ALPHA WEATHER CODES
84031	PHYSICAL WEATHER ALPHA WEATHER CODES
84032	STREAM CONDITION ALPHA WEATHER CODES
84066	OIL AND GREASE, VISUAL, ALPHA-NUMERIC CODE
84068	SERIES CODE ALPHA-NUMERIC CODE
84069	FORMATION CODE ALPHA-NUMERIC CODE
84070	METHOD OF TESTING WELL YIELD ALPHA-NUMERIC CODE
84071	WATER LEVEL MEASUREMENT CONDITIONS ALPHA-NUM CODE
84072	WATER LEVEL MEASUREMENT METHOD ALPHA-NUMERIC CODE
84078	GIARDIA LAMBLIA, 2HSO4 OR SUC GRAD, MICRO, CODE
84079	BACTERIA, CELLUOLYTIC, AEROBIC-ANAEROBIC, RT 5-7, CODE
84080	BACTERIA, HYDROCARBONOCLASTIC, SHAKE INC 32C/WK, CODE
84081	YERSINIA ENTEROCOLITICA, SB BROTH, MAC AGAR,22C, CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84082	SALMONELLA/SHIGELLA, QUANT OR QUAL, HVF OR SWAB, CODE
84085	ORGANICS, VOLATILE, DETECTED, NUMERIC CODE, CODE
84086	MACROINVERTEBRATE SPECIES NUMERIC CODE
84087	MACROINVERTEBRATE HABITAT CODE
84088	BIOLOGY 1 MACROINVERTEBRATE CODE
84089	BIOLOGY 2 MACROINVERTEBRATE CODE
84094	PHYTOPLANKTON SPECIES CODE, NUMERIC
84095	PHYTOPLANKTON SPECIES CODE, ALPHA
84096	SEVERITY OF NON-PLANKTON ALGAE-MAT COVERAGE CODE
84097	LAGOON MOUTH CONDITION CODE
84098	COLOR OF NON-PLANKTONIC ALGAE CODE
84099	WATER - RELATIVE WATER LEVEL CODE
84100	SEX(1-MALE,2-FEMALE,3-MIXED,4-UNKNOWN) NUM CODE
84101	METAFORM, BENTHIC, ADULT(A), PUPAE(P), LARVAE(L) CODE
84105	OIL-SEPARATOR OBSERVATION ASSESS (0=DID NOT,1=DID)
84106	EVAPORAT/BED OBS ASSESS (0=DID NOT LOOK, 1=DID LOOK)
84107	AREA INSPECTION, VISUAL (0=DID NOT, 1=DID) CODE
84108	DRAIN FIELD INSPECTION ASSESS (0=DID NOT, 1=DID) CODE
84109	SLUDGE BUILD-UP IN WATER (0=DID NOT OBS, 1=OBS) CODE
84110	POND OBSERVATION ASSESS WATER (0=DID NOT, 1=DID) CODE
84111	LITHOLOGIC MODIFIER CODE
84113	WELL INTAKE FINISH CODE
84114	WELL CASING MATERIAL CODE
84115	TYPE OF MATERIAL FROM WHICH OPENING IS MADE CODE
84116	DRILLING FLUID CODE
84117	TYPE OF SURFACE SEAL CODE
84118	METHOD OF DEVELOPMENT CODE
84120	PACKING MATERIAL CODE
84124	METHOD OF EVACUTAION CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84125	METHOD OF WATER-LEVEL MEASUREMENT CODE
84130	OUTFALL OBSERVATION, VISUAL, Y=YES N=NO CODE
84131	SAMPLING METHOD, CONFIDENCE CODE (A,B,C,D) CODE
84132	STREAMBANK, VEGETATIVE STABILITY RATING CODE
84133	STREAMBANK, STABILITY (BANK EROSION) RATING CODE
84134	PARTICLES, DEGREE SURROUNDED BY FINE SEDIMENT, CODE
84135	STREAMSIDE, (SHORELINE) COVER RATING CODE
84136	CANOPY TYPE CODE
84137	CHANNEL STABILITY RATING CODE (E,G,F,P) CODE
84138	COLIFORM, TOTAL, WATER, WHOLE, MPN, PRES=1, ABSNT=2, CODE
84139	ENTEROBACTER AGGLOMERANS, WTR, MF, PRES=1, ABSNT=2, CODE
84140	KLEBSIELLA PNEUMONIAE, WTR, WH, MF, PRES=1, ABSNT=2, CODE
84143	WELL, PURGING CONDITION CODE
84144	WELL, SELECTION CRITERIA CODE
84145	PROJECT COMPONENT CODE
84146	LAND USE, PREDOMINANT, WITHIN 100 FT OF WELL, CODE
84147	LAND USE, PREDOMINANT, 1/4 MI.RADIUS OF WELL, CODE
84148	LAND USE, PREDMNT., FRAC., WITHIN 1/4 MI OF WELL, CODE
84149	LAND USE, CHANGE, LAST 10 YRS, WITHIN 1/4MI WELL, CODE
84150	HABITAT QUALITY INDEX RATING CODE
84151	AQUATIC LIFE, USE CLASSES CODE
84152	STREAM, STAGE CLASS CODE
84153	STREAMBANKS, GRAZING DAMAGE CODE
84154	CHANNEL, MAJOR ALTERATIONS CODE
84155	RIFFLE/RUNS, OCCURRENCE CODE
84156	POOL, DESCRIPTION CODE
84157	SANDBARS, LARGE, OCCURRENCE CODE
84158	LAND USE, NEAR STREAM, PREDOMINANT CODE
84159	STREAM,COVER (INSTREAM SHELTER FOR ADULT FISH), CODE

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
84160	STREAM, DEGRADATION RATING CODE
84161	STREAM, ORDER CODE
84162	LAND RESOURCE AREA CODE
84163	FLOW, STREAM, CLASSIFICATION CODE
84165	DISCHARGE EVENT OBSERVATION, YES=1 NO=0, CODE
84166	STORM HYDROGRAPH, DIRECTION, (RISE,FALL), CODE
84167	MICROSCOPIC EXAMINATION CODE
84168	AVIAN SPECIES ALPHA CODE (BIRDS)
84169	MAMMALIAN ALPHA SPECIES CODE
84170	ALPHA AGE TEXT CODE
84200	LATITUDE/LONGITUDE COORDINATES OF WELL, METHOD CODE
84201	NATIONAL REFERENCE DATUM, ALTITUDE(VERTICAL) CODE
84202	ALTITUDE METHOD CODE
85000	STREAM MILE, ACTUAL MILES
85014	HABITAT, 1970 ACRES THIS TYPE FOR THIS STATION
85015	HAB., ESTIMATED ACRES THIS TYPE THIS STATION
85016	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 1990
85017	HAB., ESTIMATED ACRES THIS TYPE THIS STA. BY 2000
85018	TYPE CODES: 1=CLEAR CUT/2=SELECT CUT/3=RNGE DEVLP
85019	ACRES, NO. ALTERED FROM 1965-1970 (0-5 YEARS OLD)
85020	ACRES, NO. ALTERED 1960-1965 (5-10 YEARS OLD)
85021	ACRES, NO. ALTERED 1955-1960 (10-15 YEARS OLD)
85022	ACRES, NO. ALTERED 1950-1955 (15-20 YEARS OLD)
85023	ACRES, NO. ALTERED BEFORE 1950 (20+ YEARS OLD)
85024	ACRES,PREDICTED YRLY.AVE.TO BE ALTERED IN FUTURE
85025	LANDOWNERS, CODES FOR ALL IN STATE OF OREGON
85026	ACRES, CURRENT OWNED THIS LANDOWNER THIS STATION
85027	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1980
85028	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 1990

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85029	ACRES, ESTIMATED OWNED BY L-O THIS STA. BY 2000
85030	LAND USES, CODES FOR ALL IN STATE OF OREGON
85031	ACRES, CURRENT DEDICATED TO THIS USE THIS STATION
85032	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1980
85033	ACRES, ESTM. DEDICTD TO THIS USE THIS STA BY 1990
85034	ACRES, ESTM. DEDICTD TO THIS USE BY YR.2000 --STA.
85035	HAB., INDICATED ANIMAL USES THIS TYPE IN WINTER
85036	HAB., INDICATED ANIMAL USES THIS TYPE IN SPRING
85037	HAB., INDICATED ANIMAL USES THIS TYPE IN SUMMER
85038	HAB., INDICATED ANIMAL USES THIS TYPE IN FALL
85039	HAB., INDICATED ANML USES THIS TYPE FOR WINTERING
85040	HAB., INDICATED ANML USES THIS TYPE FOR FEEDING
85041	HAB., INDICATED ANML USES TYPE FOR REARING YOUNG
85042	HAB., INDICATED BIRD USES THIS TYPE FOR NESTING
85043	HAB., INDICATED ANML USES THIS TYPE FOR SHELTER
85044	HAB., INDICATED ANML USES THIS TYPE FOR REST AREA
85045	ANML, SHOWS PRESENCE/ABSNC OF COMMENTS ON THIS ANML
85046	HAB.,ACRES OCCUPIED BY THIS ANML THIS UNIT & CO.
85050	ANIMALS ARE NOT PRESENT THIS STATION
85051	ANIMALS, ONLY A FEW ARE PRESENT THIS STATION
85052	ANIMALS COMMONLY SEEN; USE MODERATE THIS STATION
85053	ANIMALS FREQUENTLY SEEN; USE HEAVY THIS STATION
85070	OWNERSHIP (.1) AND ACCESS (.2) BY YEAR
85071	PRIVATE OWNERSHIP AND ACCESS MILEAGE
85072	FEDERAL OWNERSHIP AND ACCESS MILEAGE
85073	STATE OWNERSHIP AND ACCESS MILEAGE
85074	COUNTY OWNERSHIP AND ACCESS MILEAGE
85075	CITY OWNERSHIP AND ACCESS MILEAGE
85076	WATER YEAR DATA REFERS TO

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85077	CALENDAR YEAR DATA REFERS TO
85088	MONTHS POLLUTION IS A PROBLEM JAN THRU JUNE
85089	MONTHS POLLUTION IS A PROBLEM JULY TO DECEMBER
85090	MAN-CAUSED CHANNEL CHANGE IN MILES
85091	STREAM BANK HABITAT DESTROYED IN MILES
85092	STREAMBED SILTED IN MILES
85093	TURBIDITY PROBLEM IN MILES
85094	SEVERITY: 1=ELIMINATES 2=INTERFERES 3=NO PROBLEM
85095	DURATION OF TURBIDITY PROBLEM IN MONTHS
85096	SEASON OF NATURAL DRY CHANNEL 1=SP 2=SU 3=F 4=W
85097	NATURAL DRY CHANNEL IN MILES
85098	MAN-CAUSED DRY CHANNEL SEASON 1=SP 2=SU 3=F 4=W
85099	MAN-CAUSED DRY CHANNEL IN MILES
85100	YEAR BARRIER IS PRESENT
85101	NUMBER OF NATURAL BARRIERS
85102	MILES BLOCKED BY NATURAL BARRIERS
85103	NUMBER OF NATURAL BARRIERS TO BE REMOVED
85104	NUMBER OF DAMS AND MAN CAUSED OBSTRUCTIONS
85105	MILES BLOCKED BY DAMS OR MAN CAUSED OBSTRUCTIONS
85106	NUMBER OF DAMS TO BE ALTERED
85107	MILES OF STREAM OCCUPIED BY IMPOUNDMENT
85108	LOWER END OF SECTION COVERED BY THIS FORM
85109	UPPER END OF SECTION COVERED BY THIS FORM
85110	LOWER LIMIT THIS SPECIES THIS FORM BY RIVER MILE
85111	UPPER LIMIT THIS SPECIES THIS FORM BY RIVER MILE
85112	STREAM SURVEY:1=COMPLETE 2=INCOMPLETE 3=NONE
85113	ABUNDANCE: 1=FSHWY/TAG&R 2=SURVEY 3=EST PLUS 4=EST
85114	ABUNDANCE: N=S&ST 1=ABUNDANT 4=SCARCE RGH FSH 3=SCARCE
85116	SQUARE YARDS OF SPAWNING AREA IN 1970

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85117	SQUARE YARDS OF SPAWNING AREA IN 1980
85118	SQUARE YARDS OF SPAWNING AREA IN 1990
85119	SQUARE YARDS OF SPAWNING AREA IN 2000
85120	MILES OF REARING AREA IN 1970
85121	MILES OF REARING AREA IN 1980
85122	MILES OF REARING AREA IN 1990
85123	MILES OF REARING AREA IN 2000
85124	CATCH BY SPORT ANGLING IN 1970
85125	RECREATION DAYS SPENT ANGLING IN 1970
85126	RECREATION DAYS SPENT ANGLING IN 1980
85127	RECREATION DAYS SPENT ANGLING IN 1990
85128	RECREATION DAYS SPENT ANGLING IN 2000
85129	CONTRIBUTION TO COMMERCIAL CATCH IN 1970
85130	PERCENT OF TOTAL FISHING DONE FROM BOAT IN 1970
85131	PERCENT OF TOTAL FISHING DONE FROM BANK IN 1970
85132	PERCENT OF TOTAL FISHING DONE WITH LURE IN 1970
85133	PERCENT OF TOTAL FISHING DONE WITH BAIT IN 1970
85134	PERCENT OF TOTAL FISHING DONE WITH A FLY IN 1970
85146	YEAR THIS FACTOR HAS A LIMITING EFFECT
85157	MAN DAYS OF WATER SKIING
85158	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85159	MAN DAYS OF BOATING OTHER THAN ANGLING
85160	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85161	MAN DAYS OF SWIMMING
85162	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NO ACTIVITY
85163	SEVERITY: 1=INTERFERES 2=NO INTER. 3=NOT PRESENT
85165	NUMBER OF MONTHS SUSPENDED SOLIDS ARE A PROBLEM
85167	NUMBER OF MONTHS PLANKTON IS A PROBLEM
85168	1=ELIMINATE PROD 2=REDUCE 3=NO INTER. 4=NOT PRES

STORET Code	Description of STORET Parameters Not Suitable for Statistical Analysis
85169	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85170	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85171	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85172	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85173	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85174	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85175	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85176	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85177	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85178	1=ELIMINATE PROD 2=UNDESIRABLE 3=REDUCE 4=NO PROB
85179	YEAR THIS NUMBER OF FACILITIES PRESENT
85180	NUMBER OF BOAT RAMPS
85181	NUMBER OF MOORAGES
85182	NUMBER OF PICNIC AREAS
85183	NUMBER OF CAMP AREAS
85184	NUMBER OF RESORTS
85185	YEAR THIS ZONED AREA PRESENT
85186	ACRES SET ASIDE FOR OTHER BOATING
85187	ACRES SET ASIDE FOR WATER SKIING
85188	MILES OF SHORE LOST TO ACCESS BY HOME SITES
85189	TOTAL MILES OF SHORELINE
85193	WILL RECR BE INC BY RELEASE OF FINGERL 0=NO 1=YES
85195	CATCH AND RECREATION ESTIMATE 1=BEST 4=POOREST
85333	PRECIPITATION-SAMPLE COLLECTION TIME-CODE- NES
85538	GAMMA SCAN DATE (YR,MO,DAY)
85539	DATE OF REPORT (YR,MO,DAY)
85658	TIME NIGHT CO2 HR
85661	TIME, INTERVAL DAY CO2 HR

Appendix F

National EPA Water Quality Criteria Summary[1]

The following table presents the national water quality criteria that were used to assess water quality data on a station-by-station basis and within the entire study area. Criteria are, for the most part, maximum values (except for dissolved oxygen, pH, and as noted). Criteria exist in any of four categories: Fresh Acute, Drinking Water, Marine Acute, and Other. Acute criteria are the highest 1-hour average concentrations which should not result in unacceptable impacts to aquatic organisms in either fresh or marine waters, respectively. The Drinking Water criteria are intended for human consumption; while the Other criteria represents National Park Service or other concerns. Parameters are listed in ascending order by STORET code. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to obtain the criteria for all parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	00070				50[t]	TURBIDITY, JACKSON CANDLE UNITS	JTU	Physical
	00076				50[t]	TURBIDITY, HACH TURBIDIMETER, FORMAZIN TUR. UNITS	FTU	Physical
14808798	00154		250[s]			SULFATE (AS S) WHOLE WATER	MG/L	General Inorganic
7782447	00299				4.0[u]	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	MG/L	Dissolved Oxygen
7782447	00300				4.0[u]	OXYGEN, DISSOLVED	MG/L	Dissolved Oxygen
	00400				≤6.5, ≥9.0[#]	PH	SU	Physical
	00403				≤6.5, ≥9.0[#]	PH, LAB	SU	Physical
	00406				≤6.5, ≥9.0[#]	PH, FIELD	SU	Physical

[1]Sources: (1) U.S. Environmental Protection Agency, Quality Criteria for Water 1995, Final Draft; (2) U.S. Environmental Protection Agency, 40 CFR 141 - National Primary Drinking Water Regulations, and 40 CFR 143 - National Secondary Drinking Water Regulations, July 1, 1994; and (3) Others as Noted in Footnotes.

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
471341	00409				<200[=]	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS	UEQ/L	General Inorganic
17778880	00613		1			NITRITE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00615		1			NITRITE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00618		10			NITRATE NITROGEN, DISSOLVED AS N	MG/L	Nitrogen
17778880	00620		10			NITRATE NITROGEN, TOTAL AS N	MG/L	Nitrogen
17778880	00628		10			NITRITE + NITRATE, SUSPENDED AS N	MG/L	Nitrogen
17778880	00630		10			NITRITE PLUS NITRATE, TOTAL 1 DET.	MG/L	Nitrogen
17778880	00631		10			NITRITE PLUS NITRATE, DISSOLVED 1 DET.	MG/L	Nitrogen
57125	00718	22	200	1.0		CYANIDE, WEAK ACID, DISSOCIABLE, WATER, WHOLE	UG/L	General Inorganic
57125	00719	22	200	1.0		CYANIDE, FREE,IN WATER&WASTEWATERS, HBG METHOD	UG/L	General Inorganic
57125	00720	0.022	0.2	0.001		CYANIDE, TOTAL	MG/L	General Inorganic
57125	00722	0.022	0.2	0.001		CYANIDE, FREE (AMENABLE TO CHLORINATION)	MG/L	General Inorganic
57125	00723	22	200	1.0		CYANIDE, DISSOLVED STD METHOD	UG/L	General Inorganic
57125	00724	22	200	1.0		CYANIDE COMPLEXED TO A RANGE OF COMPNDS, WATER	UG/L	General Inorganic
16887006	00940	860	250[s]			CHLORIDE,TOTAL IN WATER	MG/L	General Inorganic
16887006	00941	860	250[s]			CHLORIDE, DISSOLVED IN WATER	MG/L	General Inorganic
14808798	00945		250[s]			SULFATE, TOTAL (AS SO4)	MG/L	General Inorganic
14808798	00946		250[s]			SULFATE, DISSOLVED (AS SO4)	MG/L	General Inorganic
1332214	00948		7000000			ASBESTOS, WHOLE SAMPLE	CNT/L	General Inorganic
16984488	00950		4.0			FLUORIDE, DISSOLVED AS F	MG/L	General Inorganic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
16984488	00951		4.0			FLUORIDE, TOTAL AS F	MG/L	General Inorganic
7782414	00953		4000			FLUORINE, TOTAL	UG/L	General Inorganic
7440382	00978	360	50	69		ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	UG/L	Metal
7782492	00981	20	50	300		SELENIUM,TOTAL RECOVERABLE IN WATER AS SE	UG/L	Metal
7440280	00982	1400*	2.0	2130*		THALLIUM, TOTAL RECOVERABLE IN WATER AS TL	UG/L	Metal
7782492	00990	20	50	300		SELENITE, TOTAL RECOVERABLE INORGANIC	UG/L	Metal
7440382	00991	360	50	69		ARSENIC, TOTAL RECOVERABLE TRIVALENT INORGANIC	UG/L	Metal
7440382	00995	360	50	69		ARSENIC, INORGANIC DISS	UG/L	Metal
7440382	00996	360	50	69		ARSENIC, INORGANIC SUSP	UG/L	Metal
7440382	00997	360	50	69		ARSENIC, INORGANIC TOT	UG/L	Metal
7440417	00998	130*	4.0			BERYLLIUM,TOTAL RECOVERABLE IN WATER AS BE	UG/L	Metal
7440382	01000	360	50	69		ARSENIC, DISSOLVED	UG/L	Metal
7440382	01001	360	50	69		ARSENIC, SUSPENDED	UG/L	Metal
7440382	01002	360	50	69		ARSENIC, TOTAL	UG/L	Metal
7440393	01005		2000			BARIUM, DISSOLVED	UG/L	Metal
7440393	01006		2000			BARIUM, SUSPENDED	UG/L	Metal
7440393	01007		2000			BARIUM, TOTAL	UG/L	Metal
7440393	01009		2000			BARIUM,TOTAL RECOVERABLE IN WATER AS BA	UG/L	Metal
7440417	01010	130*	4.0			BERYLLIUM, DISSOLVED	UG/L	Metal
7440417	01011	130*	4.0			BERYLLIUM, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440417	01012	130*	4.0			BERYLLIUM, TOTAL	UG/L	Metal
7440439	01025	3.9+	5.0	43		CADMIUM, DISSOLVED	UG/L	Metal
7440439	01026	3.9+	5.0	43		CADMIUM, SUSPENDED	UG/L	Metal
7440439	01027	3.9+	5.0	43		CADMIUM, TOTAL	UG/L	Metal
7440473	01030		100			CHROMIUM, DISSOLVED	UG/L	Metal
7440473	01031		100			CHROMIUM, SUSPENDED	UG/L	Metal
7440473	01032	16	100	1100		CHROMIUM, HEXAVALENT	UG/L	Metal
16065831	01033	1700+	100	10300*		CHROMIUM, TRI-VAL	UG/L	Metal
7440473	01034		100			CHROMIUM, TOTAL	UG/L	Metal
7440508	01040	18+	1300a	2.9		COPPER, DISSOLVED	UG/L	Metal
7440508	01041	18+	1300a	2.9		COPPER, SUSPENDED	UG/L	Metal
7440508	01042	18+	1300a	2.9		COPPER, TOTAL	UG/L	Metal
7439921	01049	82+	15a	220		LEAD, DISSOLVED	UG/L	Metal
7439921	01050	82+	15a	220		LEAD, SUSPENDED	UG/L	Metal
7439921	01051	82+	15a	220		LEAD, TOTAL	UG/L	Metal
7440280	01057	1400*	2.0	2130*		THALLIUM, DISSOLVED	UG/L	Metal
7440280	01058	1400*	2.0	2130*		THALLIUM, SUSPENDED	UG/L	Metal
7440280	01059	1400*	2.0	2130*		THALLIUM, TOTAL	UG/L	Metal
7440020	01065	1400+	100	75		NICKEL, DISSOLVED	UG/L	Metal
7440020	01066	1400+	100	75		NICKEL, SUSPENDED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	01067	1400[+]	100	75		NICKEL, TOTAL	UG/L	Metal
7440020	01074	1400[+]	100	75		NICKEL, TOTAL RECOVERABLE IN WATER AS NI	UG/L	Metal
7440224	01075	4.1[+]	100[s]	0.12		SILVER, DISSOLVED	UG/L	Metal
7440224	01076	4.1[+]	100[s]	0.12		SILVER, SUSPENDED	UG/L	Metal
7440224	01077	4.1[+]	100[s]	0.12		SILVER, TOTAL	UG/L	Metal
7440224	01079	4.1[+]	100[s]	0.12		SILVER, TOTAL RECOVERABLE IN WATER AS AG	UG/L	Metal
7440508	01089	0.018[+]	1.3[a]	0.0029		COPPER AS SUSPENDED BLACK OXIDE IN WATER	MG/L	General Inorganic
7440666	01090	120[+]	5000[s]	95		ZINC, DISSOLVED	UG/L	Metal
7440666	01091	120[+]	5000[s]	95		ZINC, SUSPENDED	UG/L	Metal
7440666	01092	120[+]	5000[s]	95		ZINC, TOTAL	UG/L	Metal
7440666	01094	120[+]	5000[s]	95		ZINC, TOTAL RECOVERABLE IN WATER AS ZN	UG/L	Metal
7440360	01095	88[p]	6.0	1500[p]		ANTIMONY, DISSOLVED	UG/L	Metal
7440360	01096	88[p]	6.0	1500[p]		ANTIMONY, SUSPENDED	UG/L	Metal
7440360	01097	88[p]	6.0	1500[p]		ANTIMONY, TOTAL	UG/L	Metal
7440439	01113	3.9[+]	5.0	43		CADMIUM,TOTAL RECOVERABLE IN WATER AS CD	UG/L	Metal
7439921	01114	82[+]	15[a]	220		LEAD, TOTAL RECOVERABLE IN WATER AS PB	UG/L	Metal
7440473	01118		100			CHROMIUM TOTAL RECOVERABLE IN WATER AS CR	UG/L	Metal
7440508	01119	18[+]	1300[a]	2.9		COPPER, TOTAL RECOVERABLE IN WATER AS CU	UG/L	Metal
7440280	01124	1400[*]	2.0	2130[*]		THALLIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
7440280	01128	1400[*]	2.0	2130[*]		THALLIUM, TOTAL RECOVERABLE <95%	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	01145	20	50	300		SELENIUM, DISSOLVED	UG/L	Metal
7782492	01146	20	50	300		SELENIUM, SUSPENDED	UG/L	Metal
7782492	01147	20	50	300		SELENIUM, TOTAL	UG/L	Metal
7782492	01167	20	50	300		SELENIUM, ACID SOLUBLE, WATER, WHOLE	UG/L	Metal
18540299	01220	16	100	1100		CHROMIUM, HEXAVALENT, DISSOLVED	UG/L	Metal
7440360	01268	88[p]	6.0	1500[p]		ANTIMONY (SB), WATER, TOTAL RECOVERABLE	UG/L	Metal
57125	01291	22	200	1.0		CYANIDE, FILTERABLE, TOTAL IN WATER	UG/L	General Inorganic
7440666	01303	0.120[+]	5.0[s]	0.095		ZINC, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440224	01304	0.0041[+]	0.1[s]	0.00012		SILVER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
7440508	01306	0.018[+]	1.3[a]	0.0029		COPPER, POTENTIALLY DISSOLVED WATER	MG/L	Metal
18540299	01307	0.016	0.1	1.1		CHROMIUM, HEXAVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7440382	01309	0.36	0.05	0.069		ARSENIC, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440393	01311		2.0			BARIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440417	01312	0.13[*]	0.004			BERYLLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440439	01313	0.0039[+]	0.005	0.043		CADMIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
16065831	01314	1.7[+]	0.1	10.3[*]		CHROMIUM, TRIVALENT, POTENTIALLY DISSOLVED	MG/L	Metal
7439921	01318	0.082[+]	0.015[a]	0.220		LEAD, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7439976	01321	0.0024	0.002	0.0021		MERCURY, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440020	01322	1.4[+]	0.1	0.075		NICKEL, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7782492	01323	0.020	0.050	0.300		SELENIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440280	01324	1.4*	0.002	2.13*		THALLIUM, POTENTIALLY, DISSOLVED, WATER	MG/L	Metal
7440611	01326		0.020c			URANIUM, POTENTIALLY DISSOLVED, WATER	MG/L	Metal
7440224	01523	4.1+	100s	0.12		SILVER, IONIC	UG/L	Metal
50328	03648		0.2			BENZO (A) PYRENE, LIQUID FRACTION, ELUTRIATE	UG/L	General Organic
122349	04035		4.0			SIMAZINE, DISSOLVED, WATER, TOTAL RECOVERABLE	UG/L	Pesticide
10028178	04124		20r			TRITIUM, TOTAL, WATER	PC/ML	Radiological
10028178	07000		20000r			TRITIUM, TOTAL	PC/L	Radiological
10028178	07005		20000r			TRITIUM, DISSOLVED	PC/L	Radiological
10028178	07010		20000r			TRITIUM, SUSPENDED	PC/L	Radiological
	09501		5.0			RADIUM 226, TOTAL	PC/L	Radiological
	09503		5.0			RADIUM 226, DISSOLVED	PC/L	Radiological
	09505		5.0			RADIUM 226, SUSPENDED	PC/L	Radiological
	11500		5.0			RADIUM 226 + RADIUM 228, DISSOLVED	PC/L	Radiological
	11501		5.0			RADIUM 228, TOTAL	PC/L	Radiological
	11503		5.0			RADIUM 226 + RADIUM 228, TOTAL	PC/L	Radiological
10098972	13501		8.0r			STRONTIUM 90, TOTAL	PC/L	Radiological
10098972	13503		8.0r			STRONTIUM 90, DISSOLVED	PC/L	Radiological
10098972	13505		8.0r			STRONTIUM 90, SUSPENDED	PC/L	Radiological
7782492	22675	20	50	300		SELENIUM, DISSOLVED ORGANIC	UG/L	Metal
7782492	22676	20	50	300		SELENIUM, HEXAVALENT, DISSOLVED	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782492	22677	20	50	300		SELENIUM, TETRAVALENT, DISSOLVED	UG/L	Metal
7440382	22678	360	50	69		ARSENIC, DISSOLVED ORGANIC	UG/L	Metal
7440382	22679	850*	50	2319*		ARSENIC, PENTAVALENT,DISSOLVED	UG/L	Metal
7440382	22680	360	50	69		ARSENIC, TRIVALENT, DISSOLVED	UG/L	Metal
7440611	22703		20c			URANIUM, NATURAL DISSOLVED	UG/L	Metal
7440611	22705		20c			URANIUM, NATURAL SUSPENDED	UG/L	Metal
7440611	22706		20c			URANIUM, TOTAL AS U308	UG/L	Metal
7440611	22708		0.020c			URANIUM, NATURAL, TOTAL	MG/L	Radiological
7440611	28011		20c			URANIUM, NATURAL, TOTAL	UG/L	Radiological
88857	30191		7.0			DINOSEB, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
75990	30200		200			DALAPON, WATER, WHOLE RECOVERABLE	UG/L	Pesticide
106934	30203		0.05			ETHANE, 1,2-DIBROMO-, WATER, WHOLE, RECOVERABLE	UG/L	Pesticide
	31501		1.0n		1000b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	CFU/100ML	Bacteriological
	31503		1.0n		1000b	COLIFORM, TOTAL, MEMBRANE FILTER, DELAY. M-ENDO	CFU/100ML	Bacteriological
	31504		1.0n		1000b	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED. LES-ENDO	CFU/100ML	Bacteriological
	31505		1.0n		1000b	COLIFORM, TOTAL, MPN, CONF. TEST 35C (TUBE 31506)	MPN/100ML	Bacteriological
	31506		1.0n		1000b	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31507		1.0n		1000b	COLIFORM, TOTAL, MPN, COMP. TEST 35C (TUBE 31508)	MPN/100ML	Bacteriological
	31508		1.0n		1000b	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE CONFIG	MPN/100ML	Bacteriological
	31613				200^	FECAL COLIFORM, MEMBRANE FILTER, AGAR	CFU/100ML	Bacteriological

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
	31614				200^	FECAL COLIFORM, MPN, TUBE CONFIGURATION	MPN/100ML	Bacteriological
	31615				200^	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	MPN/100ML	Bacteriological
	31616				200^	FECAL COLIFORM, MEMBRANE FILTER, BROTH, 44.5C	CFU/100ML	Bacteriological
	31617				200^	FECAL COLIFORM, MPN, EIJKMAN, 44.5C (TUBE 31618)	MPN/100ML	Bacteriological
	31625				200^	FECAL COLIFORM, MF, M-FC, 0.7 UM	CFU/100ML	Bacteriological
	31648				126^	E. COLI, MTEC, MF	CFU/100ML	Bacteriological
	31649				33^	ENTEROCOCCI, ME, MF	CFU/100ML	Bacteriological
67663	32003	28900*	100[t]			CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	UG/L	General Organic
67663	32005	28900*	100[t]			CARBON CHLOROFORM EXTRACTABLES	UG/L	General Organic
67663	32021	28900*	100[t]			CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	UG/L	General Organic
67663	32022	28900*	100[t]			CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	UG/L	General Organic
75274	32101		100[t]			BROMODICHLOROMETHANE, WHOLE WATER	UG/L	General Organic
56235	32102	35200*	5.0	50000*		CARBON TETRACHLORIDE, WHOLE WATER	UG/L	General Organic
107062	32103	118000*	5.0	113000*		1,2-DICHLOROETHANE,WHOLE WATER	UG/L	General Organic
75252	32104		100[t]			BROMOFORM, WHOLE WATER	UG/L	General Organic
124481	32105		100[t]			DIBROMOCHLOROMETHANE, WHOLE WATER	UG/L	General Organic
67663	32106	28900*	100[t]			CHLOROFORM, WHOLE WATER	UG/L	General Organic
56235	32260	35.2*	0.005	50*		CARBON TETRACHLORIDE EXTRACTABLES	MG/L	General Organic
67663	32270	28.9*	0.1[t]			CHLOROFORM EXTRACTABLES TOTAL	MG/L	General Organic
108883	34010	17500*	1000	6300*		TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
1330207	34020		10000			XYLENES IN WTR SMPLE GC-MS, HEXADECONE EXTR.	UG/L	General Organic
83329	34205	1700*		970*		ACENAPHTHENE, TOTAL	UG/L	General Organic
83329	34206	1700*		970*		ACENAPHTHENE, DISSOLVED	UG/L	General Organic
83329	34207	1700*		970*		ACENAPHTHENE, SUSPENDED	UG/L	General Organic
107028	34210	68*		55*		ACROLEIN, TOTAL	UG/L	Pesticide
107028	34211	68*		55*		ACROLEIN, DISSOLVED	UG/L	Pesticide
107028	34212	68*		55*		ACROLEIN, SUSPENDED	UG/L	Pesticide
107131	34215	7550*				ACRYLONITRILE, TOTAL	UG/L	General Organic
107131	34216	7550*				ACRYLONITRILE, DISSOLVED	UG/L	General Organic
107131	34217	7550*				ACRYLONITRILE, SUSPENDED	UG/L	General Organic
71432	34235	5300*	5.0	5100*		BENZENE, DISSOLVED	UG/L	General Organic
71432	34236	5300*	5.0	5100*		BENZENE, SUSPENDED	UG/L	General Organic
92875	34239	2500*				BENZIDINE, DISSOLVED	UG/L	General Organic
92875	34240	2500*				BENZIDINE, SUSPENDED	UG/L	General Organic
58899	34265	2.0	0.2	0.16		R-BHC (LINDANE) GAMMA, DISSOLVED	UG/L	Pesticide
58899	34266	2.0	0.2	0.16		R-BHC (LINDANE) GAMMA, SUSPENDED	UG/L	Pesticide
75252	34288		100[t]			BROMOFORM, DISSOLVED	UG/L	General Organic
75252	34289		100[t]			BROMOFORM, SUSPENDED	UG/L	General Organic
56235	34297	35200*	5.0	50000*		CARBON TETRACHLORIDE, DISSOLVED	UG/L	General Organic
56235	34298	35200*	5.0	50000*		CARBON TETRACHLORIDE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108907	34301		100			CHLOROBENZENE, TOTAL	UG/L	General Organic
108907	34302		100			CHLOROBENZENE, DISSOLVED	UG/L	General Organic
108907	34303		100			CHLOROBENZENE, SUSPENDED	UG/L	General Organic
124481	34306		100[t]			CHLORODIBROMOMETHANE, TOTAL	UG/L	General Organic
124481	34307		100[t]			CHLORODIBROMOMETHANE, DISSOLVED	UG/L	General Organic
124481	34308		100[t]			CHLORODIBROMOMETHANE, SUSPENDED	UG/L	General Organic
67663	34316	28900[*]	100[t]			CHLOROFORM, DISSOLVED	UG/L	General Organic
67663	34317	28900[*]	100[t]			CHLOROFORM, SUSPENDED	UG/L	General Organic
57125	34325	0.022	0.2	0.001		CYANIDE, SUSPENDED	MG/L	General Inorganic
75274	34328		100[t]			DICHLOROBROMOMETHANE, DISSOLVED	UG/L	General Organic
75274	34329		100[t]			DICHLOROBROMOMETHANE, SUSPENDED	UG/L	General Organic
122667	34346	270[*]				1,2-DIPHENYLHYDRAZINE, TOTAL	UG/L	General Organic
122667	34347	270[*]				1,2-DIPHENYLHYDRAZINE, DISSOLVED	UG/L	General Organic
122667	34348	270[*]				1,2-DIPHENYLHYDRAZINE, SUSPENDED	UG/L	General Organic
33213659	34356	0.22		0.034		ENDOSULFAN, BETA, TOTAL	UG/L	Pesticide
33213659	34357	0.22		0.034		ENDOSULFAN, BETA, DISSOLVED	UG/L	Pesticide
33213659	34358	0.22		0.034		ENDOSULFAN, BETA, SUSPENDED	UG/L	Pesticide
959988	34361	0.22		0.034		ENDOSULFAN, ALPHA, TOTAL	UG/L	Pesticide
959988	34362	0.22		0.034		ENDOSULFAN, ALPHA, DISSOLVED	UG/L	Pesticide
959988	34363	0.22		0.034		ENDOSULFAN, ALPHA, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
100414	34371	32000*	700	430*		ETHYLBENZENE, TOTAL	UG/L	General Organic
100414	34372	32000*	700	430*		ETHYLBENZENE, DISSOLVED	UG/L	General Organic
100414	34373	32000*	700	430*		ETHYLBENZENE, SUSPENDED	UG/L	General Organic
206440	34376	3980*		40*		FLUORANTHENE, TOTAL	UG/L	General Organic
206440	34377	3980*		40*		FLUORANTHENE, DISSOLVED	UG/L	General Organic
206440	34378	3980*		40*		FLUORANTHENE, SUSPENDED	UG/L	General Organic
77474	34386	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, TOTAL	UG/L	General Organic
77474	34387	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, DISSOLVED	UG/L	General Organic
77474	34388	7.0*	50	7.0*		HEXACHLOROCYCLOPENTADIENE, SUSPENDED	UG/L	General Organic
87683	34391	90*		32*		HEXACHLOROBUTADIENE, TOTAL	UG/L	General Organic
87683	34392	90*		32*		HEXACHLOROBUTADIENE, DISSOLVED	UG/L	General Organic
87683	34393	90*		32*		HEXACHLOROBUTADIENE, SUSPENDED	UG/L	General Organic
67721	34396	980*		940*		HEXACHLOROETHANE, TOTAL	UG/L	General Organic
67721	34397	980*		940*		HEXACHLOROETHANE, DISSOLVED	UG/L	General Organic
67721	34398	980*		940*		HEXACHLOROETHANE, SUSPENDED	UG/L	General Organic
118741	34401	6.0[p]	1.0			HEXACHLOROBENZENE, DISSOLVED	UG/L	General Organic
118741	34402	6.0[p]	1.0			HEXACHLOROBENZENE, SUSPENDED	UG/L	General Organic
193395	34403		0.40[c]			INDENO (1,2,3-CD) PYRENE, TOTAL	UG/L	General Organic
193395	34404		0.40[c]			INDENO (1,2,3-CD) PYRENE, DISSOLVED	UG/L	General Organic
193395	34405		0.40[c]			INDENO (1,2,3-CD) PYRENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
78591	34408	117000*		12900*		ISOPHORONE, TOTAL	UG/L	Pesticide
78591	34409	117000*		12900*		ISOPHORONE, DISSOLVED	UG/L	Pesticide
78591	34410	117000*		12900*		ISOPHORONE, SUSPENDED	UG/L	Pesticide
75092	34423		5.0			METHYLENE CHLORIDE, TOTAL	UG/L	General Organic
75092	34424		5.0			METHYLENE CHLORIDE, DISSOLVED	UG/L	General Organic
75092	34425		5.0			METHYLENE CHLORIDE, SUSPENDED	UG/L	General Organic
91203	34443	2300*		2350*		NAPHTHALENE, DISSOLVED	UG/L	General Organic
91203	34444	2300*		2350*		NAPHTHALENE, SUSPENDED	UG/L	General Organic
98953	34447	27000*		6680*		NITROBENZENE, TOTAL	UG/L	General Organic
98953	34448	27000*		6680*		NITROBENZENE, DISSOLVED	UG/L	General Organic
98953	34449	27000*		6680*		NITROBENZENE, SUSPENDED	UG/L	General Organic
59507	34452	30*				PARACHLOROMETA CRESOL, TOTAL	UG/L	General Organic
59507	34453	30*				PARACHLOROMETA CRESOL, DISSOLVED	UG/L	General Organic
59507	34454	30*				PARACHLOROMETA CRESOL, SUSPENDED	UG/L	General Organic
87865	34459	20***	1.0	13		PCP (PENTACHLOROPHENOL), DISSOLVED	UG/L	Pesticide
87865	34460	20***	1.0	13		PCP (PENTACHLOROPHENOL), SUSPENDED	UG/L	Pesticide
85018	34461	30p		7.7p		PHENANTHRENE, TOTAL	UG/L	General Organic
85018	34462	30p		7.7p		PHENANTHRENE, DISSOLVED	UG/L	General Organic
85018	34463	30p		7.7p		PHENANTHRENE, SUSPENDED	UG/L	General Organic
108952	34466	10200*		5800*		PHENOL, DISSOLVED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
108952	34467	10200*		5800*		PHENOL, SUSPENDED	UG/L	General Organic
127184	34475	5280*	5.0	10200*		TETRACHLOROETHYLENE, TOTAL	UG/L	General Organic
127184	34476	5280*	5.0	10200*		TETRACHLOROETHYLENE, DISSOLVED	UG/L	General Organic
127184	34477	5280*	5.0	10200*		TETRACHLOROETHYLENE, SUSPENDED	UG/L	General Organic
108883	34481	17500*	1000	6300*		TOLUENE, DISSOLVED	UG/L	General Organic
108883	34482	17500*	1000	6300*		TOLUENE, SUSPENDED	UG/L	General Organic
79016	34485	45000*	5.0	2000*		TRICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
79016	34486	45000*	5.0	2000*		TRICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
75014	34493		2.0			VINYL CHLORIDE, DISSOLVED	UG/L	General Organic
75014	34494		2.0			VINYL CHLORIDE, SUSPENDED	UG/L	General Organic
75354	34501		7.0			1,1-DICHLOROETHYLENE, TOTAL	UG/L	General Organic
75354	34502		7.0			1,1-DICHLOROETHYLENE, DISSOLVED	UG/L	General Organic
75354	34503		7.0			1,1-DICHLOROETHYLENE, SUSPENDED	UG/L	General Organic
71556	34506		200	31200*		1,1,1-TRICHLOROETHANE, TOTAL	UG/L	General Organic
71556	34507		200	31200*		1,1,1-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
71556	34508		200	31200*		1,1,1-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79005	34511		5.0			1,1,2-TRICHLOROETHANE, TOTAL	UG/L	General Organic
79005	34512		5.0			1,1,2-TRICHLOROETHANE, DISSOLVED	UG/L	General Organic
79005	34513		5.0			1,1,2-TRICHLOROETHANE, SUSPENDED	UG/L	General Organic
79345	34516			9020*		1,1,2,2-TETRACHLOROETHANE, TOTAL	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
79345	34517			9020*		1,1,2,2-TETRACHLOROETHANE, DISSOLVED	UG/L	General Organic
79345	34518			9020*		1,1,2,2-TETRACHLOROETHANE, SUSPENDED	UG/L	General Organic
107062	34531	118000*	5.0	113000*		1,2-DICHLOROETHANE, TOTAL	UG/L	General Organic
107062	34532	118000*	5.0	113000*		1,2-DICHLOROETHANE, DISSOLVED	UG/L	General Organic
107062	34533	118000*	5.0	113000*		1,2-DICHLOROETHANE, SUSPENDED	UG/L	General Organic
95501	34536		600			1,2-DICHLOROBENZENE, TOTAL	UG/L	General Organic
95501	34537		600			1,2-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
95501	34538		600			1,2-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
78875	34541		5.0			1,2-DICHLOROPROPANE, TOTAL	UG/L	General Organic
78875	34542		5.0			1,2-DICHLOROPROPANE, DISSOLVED	UG/L	General Organic
78875	34543		5.0			1,2-DICHLOROPROPANE, SUSPENDED	UG/L	General Organic
156605	34546		100			TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER	UG/L	General Organic
156605	34547		100			TRANS-1,2-DICHLOROETHENE, DISSOLVED	UG/L	General Organic
156605	34548		100			TRANS-1,2-DICHLOROETHENE, SUSPENDED	UG/L	General Organic
120821	34551		70			1,2,4-TRICHLOROBENZENE, TOTAL	UG/L	General Organic
120821	34552		70			1,2,4-TRICHLOROBENZENE, DISSOLVED	UG/L	General Organic
120821	34553		70			1,2,4-TRICHLOROBENZENE, SUSPENDED	UG/L	General Organic
541731	34566		600			1,3-DICHLOROBENZENE, TOTAL	UG/L	General Organic
541731	34567		600			1,3-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
541731	34568		600			1,3-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
106467	34571		75			1,4-DICHLOROBENZENE, TOTAL	UG/L	General Organic
106467	34572		75			1,4-DICHLOROBENZENE, DISSOLVED	UG/L	General Organic
106467	34573		75			1,4-DICHLOROBENZENE, SUSPENDED	UG/L	General Organic
95578	34586	4380*				2-CHLOROPHENOL, TOTAL	UG/L	General Organic
95578	34587	4380*				2-CHLOROPHENOL, DISSOLVED	UG/L	General Organic
95578	34588	4380*				2-CHLOROPHENOL, SUSPENDED	UG/L	General Organic
120832	34601	2020*				2,4-DICHLOROPHENOL, TOTAL	UG/L	General Organic
120832	34602	2020*				2,4-DICHLOROPHENOL, DISSOLVED	UG/L	General Organic
120832	34603	2020*				2,4-DICHLOROPHENOL, SUSPENDED	UG/L	General Organic
105679	34606	2120*				2,4-DIMETHYLPHENOL, TOTAL	UG/L	General Organic
105679	34607	2120*				2,4-DIMETHYLPHENOL, DISSOLVED	UG/L	General Organic
105679	34608	2120*				2,4-DIMETHYLPHENOL, SUSPENDED	UG/L	General Organic
121142	34611	330*		590*		2,4-DINITROTOLUENE, TOTAL	UG/L	General Organic
121142	34612	330*		590*		2,4-DINITROTOLUENE, DISSOLVED	UG/L	General Organic
121142	34613	330*		590*		2,4-DINITROTOLUENE, SUSPENDED	UG/L	General Organic
72548	34651	0.6*		3.6*		P,P'-DDD, DISSOLVED	UG/L	Pesticide
72548	34652	0.6*		3.6*		P,P'-DDD, SUSPENDED	UG/L	Pesticide
72559	34653	1050*		14*		P,P'-DDE, DISSOLVED	UG/L	Pesticide
72559	34654	1050*		14*		P,P'-DDE, SUSPENDED	UG/L	Pesticide
50293	34655	1.1		0.13		P,P'-DDT, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
50293	34656	1.1		0.13		P,P'-DDT, SUSPENDED	UG/L	Pesticide
1746016	34675	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), TOT	UG/L	General Organic
1746016	34676	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), DISS	UG/L	General Organic
1746016	34677	0.01*	0.00003			2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN(TCDD), SUSP	UG/L	General Organic
108952	34694	10200*		5800*		PHENOL (C6H5OH) - SINGLE COMPOUND, TOTAL	UG/L	General Organic
91203	34696	2300*		2350*		NAPHTHALENE, TOTAL	UG/L	General Organic
75990	38432		200			DALAPON, WATER, TOTAL	UG/L	Pesticide
75990	38433		200			DALAPON, WATER, DISSOLVED	UG/L	Pesticide
75990	38434		200			DALAPON, WATER, SUSPENDED	UG/L	Pesticide
96128	38437		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL	UG/L	Pesticide
96128	38438		0.2			DIBROMOCHLOROPROPANE, WATER, DISSOLVED	UG/L	Pesticide
96128	38439		0.2			DIBROMOCHLOROPROPANE WATER, SUSPENDED	UG/L	Pesticide
96128	38760		0.2			DBCP, WATER, TOTAL	UG/L	Pesticide
96128	38761		0.2			DBCP, WATER, DISSOLVED	UG/L	Pesticide
96128	38762		0.2			DBCP, WATER, SUSPENDED	UG/L	Pesticide
88857	38779		7.0			DINOSEB, DISSOLVED	UG/L	Pesticide
88857	38780		7.0			DINOSEB, SUSPENDED	UG/L	Pesticide
23135220	38865		200			OXAMYL, TOTAL	UG/L	Pesticide
23135220	38866		200			OXAMYL, DISSOLVED	UG/L	Pesticide
23135220	38867		200			OXAMYL, SUSPENDED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
145733	38926		100			ENDOTHALL, WHOLE WATER SAMPLE	UG/L	Pesticide
2921882	38932	0.083		0.011		CHLORPYRIFOS, TOTAL RECOVERABLE	UG/L	Pesticide
2921882	38933	0.083		0.011		CHLORPYRIFOS, DISSOLVED	UG/L	Pesticide
2163806	38935		50			MONOSODIUM METHANEARSONATE (MSMA)	UG/L	Pesticide
2921882	39012	0.083		0.011		DURSBAN, FLAME PHOTOMETRIC, WATER SAMPLE	UG/L	Pesticide
56382	39015	0.065				ETHYLPARATHION, FLAME IONIFATION, WATER SAMPLE	UG/L	Pesticide
122349	39025		4.0			SIMAZINE, COULSON CONDUCTIVITY WATER SAMPLE	UG/L	Pesticide
87865	39032	20***	1.0	13		PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39033		3.0			ATRAZINE IN WHOLE WATER SAMPLE	UG/L	Pesticide
118741	39039	6.0[p]	1.0			HEXACHLOROBENZENE WATER SAMPLE, ELECTRON CPT	UG/L	Pesticide
93721	39045		50			2,4,5-TP INCLUDES ACIDS & SALTS WATER SAMPLE	UG/L	Pesticide
116063	39053		3.0			ALDICARB IN WHOLE WATER	UG/L	Pesticide
122349	39055		4.0			SIMAZINE IN WHOLE WATER	UG/L	Pesticide
117817	39100	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	UG/L	General Organic
117817	39103	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED	UG/L	General Organic
117817	39104	2000*	6.0			BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED	UG/L	General Organic
	39117	0.94*		2.994*		PHTHLATE ESTERS IN WATER	MG/L	General Organic
75014	39175		2.0			VINYL CHLORIDE-WHOLE WATER SAMPLE	UG/L	General Organic
79016	39180	45000*	5.0	2000*		TRICHLOROETHYLENE-WHOLE WATER SAMPLE	UG/L	General Organic
50293	39300	1.1		0.13		P,P' DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
72548	39310	0.6*		3.6*		P,P' DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39320	1050*		14*		P,P' DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39330	3.0		1.3		ALDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
309002	39331	3.0		1.3		ALDRIN IN FILT. FRAC. OF WAT. SAMP.	UG/L	Pesticide
309002	39332	3.0		1.3		ALDRIN IN SUSP. FRAC. OF WAT. SAMP.	UG/L	Pesticide
58899	39340	2.0	0.2	0.16		GAMMA-BHC(LINDANE), WHOLE WATER	UG/L	Pesticide
58899	39341	2.0	0.2	0.16		GAMMA-BHC(LINDANE), DISSOLVED	UG/L	Pesticide
58899	39342	2.0	0.2	0.16		GAMMA-BHC(LINDANE), SUSPENDED	UG/L	Pesticide
57749	39350	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), WHOLE WATER	UG/L	Pesticide
57749	39352	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), DISSOLVED	UG/L	Pesticide
57749	39353	2.4	2.0	0.09		CHLORDANE(TECH MIX & METABS), SUSPENDED	UG/L	Pesticide
72548	39360	0.6*		3.6*		DDD IN WHOLE WATER SAMPLE	UG/L	Pesticide
72548	39361	0.6*		3.6*		DDD IN FILT. FRAC. OF WATER SMAPLE	UG/L	Pesticide
72548	39362	0.6*		3.6*		DDD IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39365	1050*		14*		DDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
72559	39366	1050*		14*		DDE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72559	39367	1050*		14*		DDE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39370	1.1		0.13		DDT IN WHOLE WATER SAMPLE	UG/L	Pesticide
50293	39371	1.1		0.13		DDT IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
50293	39372	1.1		0.13		DDT IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
60571	39380	2.5		0.71		DIELDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
60571	39381	2.5		0.71		DIELDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
60571	39382	2.5		0.71		DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
115297	39388	0.22		0.034		ENDOSULFAN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39390	0.18	2.0	0.037		ENDRIN IN WHOLE WATER SAMPLE	UG/L	Pesticide
72208	39391	0.18	2.0	0.037		ENDRIN IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
72208	39392	0.18	2.0	0.037		ENDRIN IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39400	0.73	3.0	0.21		TOXAPHENE IN WHOLE WATER SAMPLE	UG/L	Pesticide
8001352	39401	0.73	3.0	0.21		TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
8001352	39402	0.73	3.0	0.21		TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39410	0.52	0.4	0.053		HEPTACHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	39411	0.52	0.4	0.053		HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
76448	39412	0.52	0.4	0.053		HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1024573	39420	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1024573	39421	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN FILT. FRAC. WATER SAMPLE	UG/L	Pesticide
1024573	39422	0.52	0.2	0.053		HEPTACHLOR EPOXIDE IN SUSP. FRAC. WATER SAMPLE	UG/L	Pesticide
72435	39478		40			METHOXYCHLOR IN WHOLE WATER DISSOLVED	UG/L	Pesticide
72435	39479		40			METHOXYCHLOR IN WHOLE WATER SUSPENDED	UG/L	Pesticide
72435	39480		40			METHOXYCHLOR IN WHOLE WATER SAMPLE	UG/L	Pesticide
56382	39540	0.065				PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
56382	39542	0.065				PARATHION IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
56382	39543	0.065				PARATHION IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
1912249	39630		3.0			ATRAZINE(AATREX) IN WHOLE WATER SAMPLE	UG/L	Pesticide
1912249	39632		3.0			ATRAZINE DISSOLVED IN WATER	PPB	Pesticide
118741	39700	6.0[p]	1.0			HEXACHLOROBENZENE IN WHOLE WATER SAMPLE	UG/L	General Organic
87683	39702	90[*]		32[*]		HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE	UG/L	General Organic
1918021	39720		500			PICLORAM IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39730		70			2,4-D IN WHOLE WATER SAMPLE	UG/L	Pesticide
94757	39732		70			2,4-D IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
94757	39733		70			2,4-D IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39760		50			SILVEX IN WHOLE WATER SAMPLE	UG/L	Pesticide
93721	39762		50			SILVEX IN FILT. FRAC. OF WATER SAMPLE	UG/L	Pesticide
93721	39763		50			SILVEX IN SUSP. FRAC. OF WATER SAMPLE	UG/L	Pesticide
58899	39782	2.0	0.2	0.16		LINDANE IN WHOLE WATER SAMPLE	UG/L	Pesticide
1071836	39941		700			ROUNDUP IN WHOLE WATER SAMPLE (GLYPHOSATE)	UG/L	Pesticide
7782505	45650	0.019		0.013		CHLORINE, IN ORGANIC COMPOUNDS, WATER, WHOLE	MG/L	General Inorganic
56382	46315	0.065				ETHYL PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
58899	46322	2.0	0.2	0.16		LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE	UG/L	Pesticide
76448	46326	0.52	0.4	0.053		HEPTACHLOR AND METABOLITES IN WHOLE H2O SAMPLE	UG/L	Pesticide
15972608	46342		2.0			ALACHLOR (LASSO), WATER, DISSOLVED	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7782505	46472	0.019		0.013		CHLORINE, TOTAL RESIDUAL, AVERAGE VALUE, WATER	MG/L	General Inorganic
7782505	46473	0.019		0.013		CHLORINE, FREE AVAILABLE, AVERAGE VALUE, WATER	MG/L	General Inorganic
57125	46479	22	200	1.0		CYANIDE, DISSOLVED, WATER	UG/L	General Inorganic
7440382	46551	360	50	69		ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILTERED	UG/L	Metal
7440393	46558		2000			BARIUM, FIELD ACIDIFIED W/HNO3-LAB FILT	UG/L	Metal
7440439	46559	3.9[+]	5.0	43		CADMIUM,FIELD ACIDIFIED-HNO3-LAB FILTER	UG/L	Metal
7440473	46560		100			CHROMIUM, FIELD ACIDIFIED-HNO3-LAB FILT.	UG/L	Metal
7440508	46562	18[+]	1300[a]	2.9		COPPER, FIELD ACIDIFIED-HNO3- LAB FILTER.	UG/L	Metal
7439921	46564	82[+]	15[a]	220		LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED	UG/L	Metal
7440224	46566	4.1[+]	100[s]	0.12		SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.	UG/L	Metal
7440666	46567	120[+]	5000[s]	95		ZINC, EXTRACTABLE, FIELD ACID W/HNO3,LAB FILTR	UG/L	Metal
56382	49011	0.065				UNKNOWNS AS PARATHION IN WHOLE WATER SAMPLE	UG/L	Pesticide
7782505	50058	0.019		0.013		CHLORINE DOSE	MG/L	General Inorganic
7782505	50060	0.019		0.013		CHLORINE, TOTAL RESIDUAL	MG/L	General Inorganic
7782505	50064	0.019		0.013		CHLORINE, FREE AVAILABLE	MG/L	General Inorganic
7782505	50066	0.019		0.013		CHLORINE, COMBINED AVAILABLE	MG/L	General Inorganic
7782505	50074	0.019		0.013		CHLORITE, WHOLE WATER	MG/L	General Inorganic
	61215				200[^]	FECAL COLIFORM, GENERAL #/100ML	#/100ML	Bacteriological
16887006	70352	860	250[s]			CHLORIDE, ORGANIC	MG/L	General Organic
14797558	71850		44			NITRATE NITROGEN, TOTAL (AS NO3)	MG/L	Nitrogen

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
14797558	71851		44			NITRATE NITROGEN, DISSOLVED (AS NO3)	MG/L	Nitrogen
14797650	71855		3.3			NITRITE NITROGEN, TOTAL (AS NO2)	MG/L	Nitrogen
14797650	71856		3.3			NITRITE NITROGEN, DISSOLVED (AS NO2)	MG/L	Nitrogen
7439976	71890	2.4	2.0	2.1		MERCURY, DISSOLVED	UG/L	Metal
7439976	71895	2.4	2.0	2.1		MERCURY, SUSPENDED	UG/L	Metal
7439976	71900	2.4	2.0	2.1		MERCURY, TOTAL	UG/L	Metal
7439976	71901	2.4	2.0	2.1		MERCURY,TOTAL RECOVERABLE IN WATER AS HG	UG/L	Metal
7440439	71946	3.9[+]	5.0	43		CADMIUM, EXTRACTABLE	UG/L	Metal
7440473	71947		100			CHROMIUM, EXTRACTABLE	UG/L	Metal
7439921	71949	82[+]	15[a]	220		LEAD, EXTRACTABLE	UG/L	Metal
7440666	71950	120[+]	5000[s]	95		ZINC, EXTRACTABLE	UG/L	Metal
7440508	71951	18[+]	1300[a]	2.9		COPPER, EXTRACTABLE	UG/L	Metal
1336363	76011	2000	500	10000		PCBS, SUSPENDED, WATER	NG/L	General Organic
1336363	76012	2000	500	10000		PCBS, TOTAL RECOVERABLE, WATER	NG/L	General Organic
156592	77093		70			CIS-1,2-DICHLOROETHYLENE, WHOLE WATER	UG/L	General Organic
100425	77128		100			STYRENE, WHOLE WATER	UG/L	General Organic
106489	77296			29700[*]		P-CHLOROPHENOL, WHOLE WATER	UG/L	General Organic
106934	77651		0.05			1,2-DIBROMOETHANE, WHOLE WATER	UG/L	General Organic
95954	77687	100[p]		240[p]		2,4,5-TRICHLOROPHENOL, WHOLE WATER	UG/L	General Organic
935955	77769			440[*]		2,3,5,6-TETRACHLOROPHENOL, WHOLE WATER	UG/L	General Organic

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
103231	77903		400			BIS (2-ETHYLHEXYL) ADIPATE, WHOLE WATER	UG/L	General Organic
18540299	78247	16	100	1100		CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE	UG/L	Metal
57125	78248	22	200	1.0		CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE	UG/L	Metal
	78456	11*		12*		HALOMETHANES, SUMMATION, WHOLE WATER	MG/L	General Organic
14808798	78462		250s			SULFATE, WATER, DISSOLVED AS S	MG/L	Metal
85007	78885		20			DIQUAT DIBROMIDE (REGLONE) WHOLE WATER SAMPLE	UG/L	Pesticide
7440611	80020		20c			URANIUM, DISS. BY EXTRACTION FLUOROMETRIC	UG/L	Radiological
16065831	80357	1700	100	10300*		CHROMIUM, TRIVALENT, DISSOLVED	UG/L	Metal
57125	81208	0.022	0.2	0.001		CYANIDE,FREE (NOT AMENABLE TO CHLORINATION)	MG/L	General Inorganic
608731	81283	100*		0.34*		BENZENEHEXACHLORIDE, WHOLE WATER	UG/L	Pesticide
88857	81287		7.0			DNBP(C10H12N2O5), WHOLE WATER SAMPLE	UG/L	Pesticide
26638197	81327	23000*	5.0	10300*		DICHLOROPROPANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81333	1120*		1970*		DICHLOROBENZENE ISOMER, WHOLE WATER SAMPLE	UG/L	General Organic
2921882	81403	0.083		0.011		DURSBAN (CHLOROPYRIFOS) WHOLE WATER SAMPLE	UG/L	Pesticide
1563662	81405		40			CARBOFURAN (EURADAN) WHOLE WATER SAMPLE	UG/L	Pesticide
76017	81501	7240*		390*		PENTACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
25321226	81524	1120*		1970*		DICHLOROBENZENE, WHOLE WATER SAMPLE	UG/L	General Organic
25322207	81549	9320*				TETRACHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
26638197	81703	23*	0.005*	10.3*		DICHLOROPROPANE, WHOLE WATER SAMPLE	MG/L	General Organic
7440508	81750	18+	1300a	2.9		COPPER, INTERSTITIAL WATERFROM SEDIMENTS	UG/L	Metal

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
7440020	81752	1400[+]	100	75		NICKEL, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
7440666	81754	120[+]	5000[s]	95		ZINC, INTERSTITIAL WATER FROM SEDIMENTS	UG/L	Metal
25323891	81853	18000[*]				TRICHLOROETHANE, WHOLE WATER SAMPLE	UG/L	General Organic
7439976	81931	2.4	2.0	2.1		MERCURY (HG) SUSPENDED FRACTION OF WATER	UG/G	Metal
7440666	81933	120[+]	5000[s]	95		ZINC (ZN) SUSPENDED FRACTION OF WATER	UG/G	Metal
7439921	81936	82[+]	15[a]	220		LEAD (PB) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440439	81937	3.9[+]	5.0	43		CADMIUM (CD) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81938		100			CHROMIUM (CR) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440508	81939	18[+]	1300[a]	2.9		COPPER (CU) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440666	81940	120[+]	5000[s]	95		ZINC (ZN) DISSOLVED CATIONIC SPECIES	UG/L	Metal
7440473	81941		100			CHROMIUM (CR) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440508	81942	18[+]	1300[a]	2.9		COPPER (CU) DISSOLVED ANIONIC SPECIES	UG/L	Metal
7440666	81943	120[+]	5000[s]	95		ZINC (ZN) DISSOLVED ANIONIC SPECIES	UG/L	Metal
	82078				50[l]	TURBIDITY, FIELD	NTU	Physical
	82079				50[l]	TURBIDITY, LAB	NTU	Physical
88857	82226		7.0			2 SECONDARY BUTYL 4,6-DINITROPHENOL	UG/L	Pesticide
16887006	82295	860000	250000[s]			CHLORIDE DISSOLVED AS CL IN WATER	UG/L	General Inorganic
72435	82350		40			METHOXYCHLOR, DISSOLVED IN WATER	UG/L	Pesticide
72435	82351		40			METHOXYCHLOR, SUSPENDED IN WATER	UG/L	Pesticide
115297	82354	0.22		0.034		ENDOSULFAN, DISSOLVED IN WATER	UG/L	Pesticide

C.A.S. Number	STORET Code	FRESH ACUTE	DRINKING WATER	MARINE ACUTE	OTHER	PARAMETER DESCRIPTION	UNITS	CATEGORY
115297	82355	0.22		0.034		ENDOSULFAN, SUSPENDED IN WATER	UG/L	Pesticide
57125	82573	0.022	0.2	0.001		CYANIDE/CHLORINATION IN WATER	MG/L	General Inorganic
1646873	82586		4.0			ALDICARB SULFOXIDE, WATER, TOTAL RECOVERABLE	UG/L	General Organic
1646884	82587		2.0			ALDICARB SULFONE, WHOLE WATER, TOTAL RECOVERABLE	UG/L	General Organic
23135220	82613		200			OXAMYL, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
1563662	82615		40			CARBOFURAN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
116063	82619		3.0			ALDICARB, WHOLE WATER, TOTAL RECOVERABLE	UG/L	Pesticide
33213659	82624	0.22		0.034		ENDOSULFAN, BETA, WH WATER, TOTAL RECOVERABLE	UG/L	Pesticide
96128	82625		0.2			DIBROMOCHLOROPROPANE, WATER, TOTAL RECOVERABLE	UG/L	Pesticide

Footnote Key:

[*]Insufficient Data to Develop Criteria. Value Presented is the L.O.E.L. - Lowest Observed Effect Level.

[+]Hardness Dependent Criteria (100 mg/L $CaCO_3$ Used).

[***]pH Dependent Criteria (7.8 pH Used).

[=]Rule of thumb criterion used by the NPS Air Quality Division for determining sensitivity to acid deposition.

[^]Freshwater bathing criterion, EPA geometric mean based on at least 5 samples equally spaced over a 30-day period; Enterococci marine water bathing criterion 35 CFU/100 ml.

[#]EPA freshwater aquatic life chronic criterion; marine criterion is ≤6.5, ≥8.5.

[!]Arizona state standard.

[a]EPA action level, 40 CFR 141.80.

[b]California and Florida state bathing water standards.

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

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

[p]Proposed Criterion.

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

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

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

[u]Coldwater criterion one day minimum; warmwater criterion seven day mean minimum.

Appendix G

Inventory Data Evaluation and Analysis (IDEA)
Servicewide Inventory and Monitoring Program "Level I"
Parameter Groups

The following table provides the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameter groups (National Park Service 1993). In order to determine the presence and/or absence of data for each of these parameter groups in the park, the parameter groups had to be defined by STORET parameter codes. This table provides the STORET codes and parameter descriptions for each parameter comprising one of the Servicewide Inventory and Monitoring Program's "Level I" water quality parameter groups. Additional parameters could have been incorporated into each group, but an effort was made to represent each group with the parameters deemed to most likely occur in STORET and parks. The Toxic Elements Parameter Group was defined as the EPA's Clean Water Act Section 304(a) Priority Toxic Pollutants (40 CFR 131.36). Parameters are listed in ascending order of STORET code within each parameter group. It is important to note that similar parameters often have non-consecutive codes. Consequently, scanning the entire list is necessary to find all the parameters of a particular type (eg. lead, copper, etc.). Refer to the Parameter Period of Record Tabulation to obtain the STORET code for any parameter measured in the park.

STORET Code	Water Temperature Parameter Group	C.A.S. Number
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	-
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	-
STORET Code	**Flow Parameter Group[1]**	**C.A.S. Number**
00056	FLOW RATE, GALLONS/DAY	-
00058	FLOW RATE, GALLONS/MIN.	-
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	-
00060	FLOW, STREAM, MEAN DAILY CFS	-
00061	FLOW, STREAM, INSTANTANEOUS CFS	-
00065	STAGE, STREAM (FEET)	-
00067	TIDE STAGE CODE	-
00072	STAGE, STREAM (METERS)	-

[1]Tide stage is included in the Flow Parameter Group for coastal parks.

STORET Code	Clarity/Turbidity Parameter Group	C.A.S. Number
00070	TURBIDITY, (JACKSON CANDLE UNITS)	-
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	-
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	-
00077	TRANSPARENCY, SECCHI DISC (INCHES)	-
00078	TRANSPARENCY, SECCHI DISC (METERS)	-
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	-
82078	TURBIDITY, FIELD NEPHELOMETRIC TURBIDITY UNITS NTU	-
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	-
STORET Code	**Conductivity Parameter Group**	**C.A.S. Number**
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	-
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	-
00096	SALINITY AT 25 DEGREES C (MG/ML)	-
00480	SALINITY - PARTS PER THOUSAND	-
STORET Code	**Dissolved Oxygen Parameter Group**	**C.A.S. Number**
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE (MG/L)	7782447
00300	OXYGEN, DISSOLVED (MG/L)	7782447
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	7782447
00389	OXYGEN, DISSOLVED, LAB ANAL. BY PROBE OF FIELD SAMPLE (MG/L)	7782447
STORET Code	**pH Parameter Group**	**C.A.S. Number**
00400	PH (STANDARD UNITS)	-
00403	PH, LAB (STANDARD UNITS)	-
00406	PH, FIELD (STANDARD UNITS)	-

STORET Code	Alkalinity Parameter Group	C.A.S. Number
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYSIS (µEQ/L)	471341
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	471341
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	77098
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	471341
00435	ACIDITY, TOTAL (MG/L AS CACO3)	471341
00440	BICARBONATE ION (MG/L AS HCO3)	71523
00445	CARBONATE ION (MG/L AS CO3)	3812326

STORET Code	Nitrate/Nitrogen Parameter Group	C.A.S. Number
00600	NITROGEN, TOTAL (MG/L AS N)	17778880
00602	NITROGEN, DISSOLVED (MG/L AS N)	17778880
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	17778880
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	17778880
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	17778880
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	17778880
00612	AMMONIA, UNIONZED (MG/L AS N)	7664417
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	17778880
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	17778880
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	17778880
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	17778880
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	17778880
00631	NITRITE PLUS NITRATE, DISSOLVED 1 DET. (MG/L AS N)	17778880
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	14798039
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	14798039
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	14797558
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	14797558
71855	NITRITE NITROGEN, TOTAL (MG/L AS NO2)	14797650
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	14797650

STORET Code	Phosphate/Phosphorus Parameter Group	C.A.S. Number
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	14265442
00655	PHOSPHATE, POLY (MG/L AS PO4)	14265442
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	14265442
00665	PHOSPHORUS, TOTAL (MG/L AS P)	7723140
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	7723140
00670	PHOSPHORUS, TOTAL ORGANIC (MG/L AS P)	7723140
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	7723140
70505	PHOSPHORUS, TOTAL, COLORIMETRIC METHOD (MG/L AS P)	7723140
70507	PHOSPHORUS, IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	7723140

STORET Code	Sulfates/Total Dissolved Solids/Hardness Parameter Group	C.A.S. Number
00900	HARDNESS, TOTAL (MG/L AS CACO3)	471341
00945	SULFATE, TOTAL (MG/L AS SO4)	14808798
00946	SULFATE, DISSOLVED (MG/L AS SO4)	14808798
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	-

STORET Code	Chlorophyll Parameter Group	C.A.S. Number
32209	CHLOROPHYLL A (UG/L) FLUOROMETRIC CORRECTED	479618
32210	CHLOROPHYLL A (UG/L) TRICHROMATIC UNCORRECTED	479618
32211	CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH.	479618
32217	CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	479618
32223	CHLOROPHYLL A (MG/M2) SPECTROPHOTOMETRIC CORRECTED	479618
32228	CHLOROPHYLL A (MG/M2) PERIPHYTON SPECTRO.	479618
32229	CHLOROPHYLL A (MG/M2) FLUOR. CORRECTED, SUBSTRATER	479618
32230	CHLOROPHYLL A (MG/L)	479618

STORET Code	Bacteria Parameter Group	C.A.S. Number
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	-
31501	COLIFORM, TOT, MEMBRANE FILTER, IMMED., M-ENDO MED,35C	-
31503	COLIFORM, TOT, MEMBRANE FILTER, DELAY, M-ENDO MED, 35C	-
31504	COLIFORM, TOT, MEMBRANE FILTER, IMMED., LES-ENDO AGAR, 35C	-
31505	COLIFORM, TOT, MPN, CONFIRMED TEST,35C(TUBE 31506)	-
31506	COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG.	-
31507	COLIFORM, TOT, MPN, COMPLETED TEST,35C(TUBE 31508)	-
31508	COLIFORM, TOT, MPN, COMPLETED TEST, TUBE CONFIG.	-
31613	FECAL COLIFORM, MEMBR, FILTER,M-FC AGAR,44.5C,24HR	-
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	-
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	-
31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, 44.5C	-
31617	FECAL COLIFORM, MPN,EIJKMAN TEST,44.5C(TUBE 31618)	-
31625	FECAL COLIFORM, MF, M-FC, 0.7 UM	-
31648	E. COLI - MTEC-MF	-
31649	ENTEROCOCCI- ME-MF	-
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	-
31676	FECAL STREPTOCOCCI, MPN, KF BROTH, TUBE CONFIG.	-
31677	FECAL STREPTOCOCCI, MPN, AD-EVA, 35C (TUBE 31678)	-
31751	PLATE COUNT, TOTAL, TPC AGAR, 35C, 24 HRS	-
61214	FECAL STREPTOCOCCI, GENERAL #/100ML	-
61215	FECAL COLIFORM, GENERAL #/100ML	-

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants)	C.A.S. Number
00718	CYANIDE, WEAK ACID, DISSOC. WATER, WHOLE (UG/L)	57125
00719	CYANIDE, FREE, IN WATER & WASTEWATERS, HBG (UG/L)	57125
00720	CYANIDE, TOTAL (MG/L AS CN)	57125
00722	CYANIDE, FREE (AMENABLE TO CHLORINATION) (MG/L)	57125

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
00723	CYANIDE, DISSOLVED STD METHOD (UG/L)	57125
00724	CYANIDE COMPLEXED TO A RANGE OF COMPNDS (UG/L)	57125
00969	CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00973	AMPHIBOLE ASBESTOS FIBERS/LITER	1332214
00976	AMBIGUOUS ASBESTOS FIBERS/LITER	1332214
00977	NON-AMPHIBOLE NON-CHRYSOTILE ASBESTOS FIBERS/LITER	1332214
00978	ARSENIC, TOTAL RECOVERABLE IN WATER AS AS	7440382
00981	SELENIUM, TOTAL RECOVERABLE IN WATER AS SE (UG/L)	7782492
00982	THALLIUM, TOTAL RECOVERABLE IN WATER AS (UG/L)	7440280
00990	SELENITE, TOTAL RECOVERABLE INORGANIC (UG/L)	7782492
00991	ARSENIC, TOTAL RECOVER. TRIVALENT INORGANIC (UG/L)	7440382
00995	ARSENIC, INORGANIC DISSOLVED (UG/L AS AS)	7440382
00996	ARSENIC, INORGANIC SUSPENDED (UG/L AS AS)	7440382
00997	ARSENIC, INORGANIC TOTAL (UG/L AS AS)	7440382
00998	BERYLLIUM, TOTAL RECOVERABLE IN WATER AS BE (UG/L)	7440417
01000	ARSENIC, DISSOLVED (UG/L AS AS)	7440382
01001	ARSENIC, SUSPENDED (UG/L AS AS)	7440382
01002	ARSENIC, TOTAL (UG/L AS AS)	7440382
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	7440417
01011	BERYLLIUM, SUSPENDED (UG/L AS BE)	7440417
01012	BERYLLIUM, TOTAL (UG/L AS BE)	7440417
01025	CADMIUM, DISSOLVED (UG/L AS CD)	7440439
01026	CADMIUM, SUSPENDED (UG/L AS CD)	7440439
01027	CADMIUM, TOTAL (UG/L AS CD)	7440439
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	7440473
01031	CHROMIUM, SUSPENDED (UG/L AS CR)	7440473
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	7440473
01033	CHROMIUM, TRI-VAL (UG/L AS CR)	16065831
01034	CHROMIUM, TOTAL (UG/L AS CR)	7440473

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01040	COPPER, DISSOLVED (UG/L AS CU)	7440508
01041	COPPER, SUSPENDED (UG/L AS CU)	7440508
01042	COPPER, TOTAL (UG/L AS CU)	7440508
01049	LEAD, DISSOLVED (UG/L AS PB)	7439921
01050	LEAD, SUSPENDED (UG/L AS PB)	7439921
01051	LEAD, TOTAL (UG/L AS PB)	7439921
01057	THALLIUM, DISSOLVED (UG/L AS TL)	7440280
01058	THALLIUM, SUSPENDED (UG/L AS TL)	7440280
01059	THALLIUM, TOTAL (UG/L AS TL)	7440280
01065	NICKEL, DISSOLVED (UG/L AS NI)	7440020
01066	NICKEL, SUSPENDED (UG/L AS NI)	7440020
01067	NICKEL, TOTAL (UG/L AS NI)	7440020
01074	NICKEL, TOTAL RECOVERABLE IN WATER AS NI (UG/L)	7440020
01075	SILVER, DISSOLVED (UG/L AS AG)	7440224
01076	SILVER, SUSPENDED (UG/L AS AG)	7440224
01077	SILVER, TOTAL (UG/L AS AG)	7440224
01079	SILVER, TOTAL RECOVERABLE IN WATER AS AG (UG/L)	7440224
01089	COPPER AS SUSPENDED BLACK OXIDE IN WATER (MG/L)	7440508
01090	ZINC, DISSOLVED (UG/L AS ZN)	7440666
01091	ZINC, SUSPENDED (UG/L ZN)	7440666
01092	ZINC, TOTAL (UG/L AS ZN)	7440666
01094	ZINC, TOTAL RECOVERABLE IN WATER AS ZN (UG/L)	7440666
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	7440360
01096	ANTIMONY, SUSPENDED (UG/L AS SB)	7440360
01097	ANTIMONY, TOTAL (UG/L AS SB)	7440360
01113	CADMIUM, TOTAL RECOVERABLE IN WATER AS CD (UG/L)	7440439
01114	LEAD, TOTAL RECOVERABLE IN WATER AS PB (UG/L)	7439921
01118	CHROMIUM, TOTAL RECOVERABLE IN WATER AS CR (UG/L)	7440473
01119	COPPER,TOTAL RECOVERABLE IN WATER AS CU (UG/L)	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01124	THALLIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7440280
01128	THALLIUM,TOTAL RECOVERABLE <95%, UG/L AS TL	7440280
01138	SELENIUM, IN WATER, LBS/DAY	7782492
01145	SELENIUM, DISSOLVED (UG/L AS SE)	7782492
01146	SELENIUM, SUSPENDED (UG/L AS SE)	7782492
01147	SELENIUM, TOTAL (UG/L AS SE)	7782492
01167	SELENIUM, ACID SOLUBLE, WATER, WHOLE (UG/L)	7782492
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	18540299
01252	ARSENIC, LB/DAY/CFS STREAM FLOW	7440382
01253	CADMIUM, LB/DAY/CFS STREAM FLOW	7440439
01254	CHROMIUM, TOTAL (LBS/DAY/CFS STREAM FLOW)	7740473
01255	CHROMIUM, HEXAVALENT, LB/DAY/CFS STREAM FLOW	18540299
01256	COPPER, LB/DAY/CFS STREAM FLOW	7440508
01257	CYANIDE LB/DAY/CFS STREAM FLOW	57125
01259	LEAD, LB/DAY/CFS STREAM FLOW	7439921
01260	MERCURY, LB/DAY/CFS STREAM FLOW	7439976
01261	NICKEL, LB/DAY/CFS STREAM FLOW	7440020
01263	SILVER, LB/DAY/CFS STREAM FLOW	7440224
01264	ZINC LB/DAY/CFS STREAM FLOW	7440666
01268	ANTIMONY, (SB), WATER, TOTAL RECOVERABLE (UG/L)	7440360
01291	CYANIDE, FILTERABLE, TOTAL IN WATER (UG/L)	57125
01303	ZINC, POTENTIALLY DISSOLVED WATER (MG/L)	7440666
01304	SILVER, POTENTIALLY DISSOLVED WATER (MG/L)	7440224
01306	COPPER, POTENTIALLY DISSOLVED WATER (MG/L)	7440508
01307	CHROMIUM, HEXAVALENT, POTENT. DISS. WATER (MG/L)	18540299
01309	ARSENIC, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440382
01312	BERYLLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440417
01313	CADMIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440439

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
01314	CHROMIUM, TRIVALENT, POTENT., DISS., WATER (MG/L)	16065831
01318	LEAD, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439921
01321	MERCURY, POTENTIALLY, DISSOLVED, WATER (MG/L)	7439976
01322	NICKEL, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440020
01323	SELENIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7782492
01324	THALLIUM, POTENTIALLY, DISSOLVED, WATER (MG/L)	7440280
01523	SILVER, IONIC (UG/L)	7440224
22675	SELENIUM, DISSOLVED ORGANIC (UG/L)	7782492
22676	SELENIUM, HEXAVALENT, DISSOLVED (UG/L)	7782492
22677	SELENIUM, TETRAVALENT, DISSOLVED	7782492
22678	ARSENIC, DISSOLVED ORGANIC (UG/L)	7440382
22679	ARSENIC, PENTAVALENT, DISSOLVED (UG/L)	7440382
22680	ARSENIC, TRIVALENT, DISSOLVED (UG/L)	7440382
30197	2-CHLOROETHYLVINYL ETHER,WATER,WHL,RECOVER (UG/L)	110758
30201	CHLOROMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74873
30202	BROMOMETHANE, WATER, WHOLE, RECOVERABLE (UG/L)	74839
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXT. (UG/L)	67663
32005	CARBON CHLOROFORM EXTRACTABLES (UG/L)	67663
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLE (UG/L)	67663
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES (UG/L)	67663
32101	BROMODICHLOROMETHANE, WHOLE WATER (UG/L)	75274
32102	CARBON TETRACHLORIDE, WHOLE WATER, (UG/L)	56235
32103	1,2-DICHLOROETHANE, WHOLE WATER (UG/L)	107062
32104	BROMOFORM, WHOLE WATER, (UG/L)	75252
32105	DIBROMOCHLOROMETHANE, WHOLE WATER, (UG/L)	124481
32106	CHLOROFORM, WHOLE WATER (UG/L)	67663
32260	CARBON TETRACHLORIDE EXTRACTABLES (MG/L)	56235
32270	CHLOROFORM EXTRACTABLES TOTAL IN MG PER LITER	67663

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	108883
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXT. (UG/L)	71432
34198	BHC-DELTA, WATER, WHOLE (LBS/DAY)	319868
34200	ACENAPHTHYLENE, TOTAL (UG/L)	208968
34201	ACENAPHTHYLENE, DISSOLVED (UG/L)	208968
34202	ACENAPHTHYLENE, SUSPENDED (UG/L)	208968
34205	ACENAPHTHENE, TOTAL (UG/L)	83329
34206	ACENAPHTHENE, DISSOLVED (UG/L)	83329
34207	ACENAPHTHENE, SUSPENDED (UG/L)	83329
34210	ACROLEIN, TOTAL (UG/L)	107028
34211	ACROLEIN, DISSOLVED (UG/L)	107028
34212	ACROLEIN, SUSPENDED (UG/L)	107028
34215	ACRYLONITRILE, TOTAL (UG/L)	107131
34216	ACRYLONITRILE, DISSOLVED (UG/L)	107131
34217	ACRYLONITRILE, SUSPENDED (UG/L)	107131
34220	ANTHRACENE, TOTAL (UG/L)	120127
34221	ANTHRACENE, DISSOLVED (UG/L)	120127
34222	ANTHRACENE, SUSPENDED (UG/L)	120127
34225	ASBESTOS (FIBROUS) TOTAL (UG/L)	1332214
34226	ASBESTOS (FIBROUS) DISSOLVED (UG/L)	1332214
34227	ASBESTOS (FIBROUS) SUSPENDED (UG/L)	1332214
34230	BENZO(B)FLUORANTHENE, WHOLE WATER (UG/L)	205992
34231	BENZO(B)FLUORANTHENE, DISSOLVED (UG/L)	205992
34232	BENZO(B)FLUORANTHENE, SUSPENDED (UG/L)	205992
34235	BENZENE, DISSOLVED (UG/L)	71432
34236	BENZENE, SUSPENDED (UG/L)	71432
34239	BENZIDINE, DISSOLVED (UG/L)	92875
34240	BENZIDINE, SUSPENDED (UG/L)	92875

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34242	BENZO(K)FLUORANTHENE, TOTAL (UG/L)	207089
34243	BENZO(K)FLUORANTHENE, DISSOLVED (UG/L)	207089
34244	BENZO(K)FLUORANTHENE, SUSPENDED (UG/L)	207089
34247	BENZO-A-PYRENE, TOTAL (UG/L)	50328
34248	BENZO-A-PYRENE, DISSOLVED (UG/L)	50328
34249	BENZO-A-PYRENE, SUSPENDED (UG/L)	50328
34253	A-BHC-ALPHA, DISSOLVED (UG/L)	319846
34254	A-BHC-ALPHA, SUSPENDED (UG/L)	319846
34255	B-BHC-BETA, DISSOLVED (UG/L)	319857
34256	B-BHC-BETA, SUSPENDED (UG/L)	319857
34259	DELTA BENZENE HEXACHLORIDE, TOTAL (UG/L)	319868
34260	DELTA BENZENE HEXACHLORIDE, DISSOLVED (UG/L)	319868
34261	DELTA BENZENE HEXACHLORIDE, SUSPENDED (UG/L)	319868
34265	R-BHC (LINDANE) GAMMA, DISSOLVED (UG/L)	58899
34266	R-BHC (LINDANE) GAMMA, SUSPENDED (UG/L)	58899
34273	BIS (2-CHLOROETHYL) ETHER, TOTAL (UG/L)	111444
34274	BIS (2-CHLOROETHYL) ETHER, DISSOLVED (UG/L)	111444
34275	BIS (2-CHLOROETHYL) ETHER, SUSPENDED (UG/L)	111444
34278	BIS (2-CHLOROETHOXY) METHANE, TOTAL (UG/L)	111911
34279	BIS (2-CHLOROETHOXY) METHANE, DISSOLVED (UG/L)	111911
34280	BIS (2-CHLOROETHOXY) METHANE, SUSPENDED (UG/L)	111911
34288	BROMOFORM, DISSOLVED (UG/L)	75252
34289	BROMOFORM, SUSPENDED (UG/L)	75252
34292	N-BUTYL BENZYL PHTHALATE, WHOLE WATER (UG/L)	85687
34293	N-BUTYL BENZYL PHTHALATE, DISSOLVED (UG/L)	85687
34294	N-BUTYL BENZYL PHTHALATE, SUSPENDED (UG/L)	85687
34297	CARBON TETRACHLORIDE, DISSOLVED (UG/L)	56235
34298	CARBON TETRACHLORIDE, SUSPENDED (UG/L)	56235

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34301	CHLOROBENZENE, TOTAL (UG/L)	108907
34302	CHLOROBENZENE, DISSOLVED (UG/L)	108907
34303	CHLOROBENZENE, SUSPENDED (UG/L)	108907
34306	CHLORODIBROMOMETHANE, TOTAL (UG/L)	124481
34307	CHLORODIBROMOMETHANE, DISSOLVED (UG/L)	124481
34308	CHLORODIBROMOMETHANE, SUSPENDED (UG/L)	124481
34311	CHLOROETHANE, TOTAL (UG/L)	75003
34312	CHLOROETHANE, DISSOLVED (UG/L)	75003
34313	CHLOROETHANE, SUSPENDED (UG/L)	75003
34316	CHLOROFORM, DISSOLVED (UG/L)	67663
34317	CHLOROFORM, SUSPENDED (UG/L)	67663
34320	CHRYSENE, TOTAL (UG/L)	218019
34321	CHRYSENE, DISSOLVED (UG/L)	218019
34322	CHRYSENE, SUSPENDED (UG/L)	218019
34325	CYANIDE, SUSPENDED (MG/L)	57125
34327	DI-N-BUTYL PHTHALATE, DISSOLVED (UG/L)	84742
34328	DICHLOROBROMOMETHANE, DISSOLVED (UG/L)	75274
34329	DICHLOROBROMOMETHANE, SUSPENDED (UG/L)	75274
34336	DIETHYL PHTHALATE, TOTAL (UG/L)	84662
34337	DIETHYL PHTHALATE, DISSOLVED (UG/L)	84662
34338	DIETHYL PHTHALATE, SUSPENDED (UG/L)	84662
34341	DIMETHYL PHTHALATE, TOTAL (UG/L)	131113
34342	DIMETHYL PHTHALATE, DISSOLVED (UG/L)	131113
34343	DIMETHYL PHTHALATE, SUSPENDED (UG/L)	131113
34346	1,2-DIPHENYLHYDRAZINE, TOTAL (UG/L)	122667
34347	1,2-DIPHENYLHYDRAZINE, DISSOLVED (UG/L)	122667
34348	1,2-DIPHENYLHYDRAZINE, SUSPENDED (UG/L)	122667
34351	ENDOSULFAN SULFATE, TOTAL (UG/L)	1031078

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34352	ENDOSULFAN SULFATE, DISSOLVED (UG/L)	1031078
34353	ENDOSULFAN SULFATE, SUSPENDED (UG/L)	1031078
34356	ENDOSULFAN, BETA, TOTAL (UG/L)	33213659
34357	ENDOSULFAN, BETA, DISSOLVED (UG/L)	33213659
34358	ENDOSULFAN, BETA, SUSPENDED (UG/L)	33213659
34361	ENDOSULFAN, ALPHA, TOTAL (UG/L)	959988
34362	ENDOSULFAN, ALPHA, DISSOLVED (UG/L)	959988
34363	ENDOSULFAN, ALPHA, SUSPENDED (UG/L)	959988
34371	ETHYLBENZENE, TOTAL (UG/L)	100414
34372	ETHYLBENZENE, DISSOLVED (UG/L)	100414
34373	ETHYLBENZENE, SUSPENDED (UG/L)	100414
34376	FLUORANTHENE, TOTAL (UG/L)	206440
34377	FLUORANTHENE, DISSOLVED (UG/L)	206440
34378	FLUORANTHENE, SUSPENDED (UG/L)	206440
34381	FLUORENE, TOTAL (UG/L)	86737
34382	FLUORENE, DISSOLVED (UG/L)	86737
34383	FLUORENE, SUSPENDED (UG/L)	86737
34386	HEXACHLOROCYCLOPENTADIENE, TOTAL (UG/L)	77474
34387	HEXACHLOROCYCLOPENTADIENE, DISSOLVED (UG/L)	77474
34388	HEXACHLOROCYCLOPENTADIENE, SUSPENDED (UG/L)	77474
34391	HEXACHLOROBUTADIENE, TOTAL (UG/L)	87683
34392	HEXACHLOROBUTADIENE, DISSOLVED (UG/L)	87683
34393	HEXACHLOROBUTADIENE, SUSPENDED (UG/L)	87683
34396	HEXACHLOROETHANE, TOTAL (UG/L)	67721
34397	HEXACHLOROETHANE, DISSOLVED (UG/L)	67721
34398	HEXACHLOROETHANE, SUSPENDED (UG/L)	67721
34401	HEXACHLOROBENZENE, DISSOLVED (UG/L)	118741
34402	HEXACHLOROBENZENE, SUSPENDED (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34403	INDENO (1,2,3-CD) PYRENE, TOTAL (UG/L)	193395
34404	INDENO (1,2,3-CD) PYRENE, DISSOLVED (UG/L)	193395
34405	INDENO (1,2,3-CD) PYRENE, SUSPENDED (UG/L)	193395
34408	ISOPHORONE, TOTAL (UG/L)	78591
34409	ISOPHORONE, DISSOLVED (UG/L)	78591
34410	ISOPHORONE, SUSPENDED (UG/L)	78591
34413	METHYL BROMIDE, TOTAL (UG/L)	74839
34414	METHYL BROMIDE, DISSOLVED (UG/L)	74839
34415	METHYL BROMIDE, SUSPENDED (UG/L)	74839
34418	METHYL CHLORIDE, TOTAL (UG/L)	74873
34419	METHYL CHLORIDE, DISSOLVED (UG/L)	74873
34420	METHYL CHLORIDE, SUSPENDED (UG/L)	74873
34423	METHYLENE CHLORIDE, TOTAL (UG/L)	75092
34424	METHYLENE CHLORIDE, DISSOLVED (UG/L)	75092
34425	METHYLENE CHLORIDE, SUSPENDED (UG/L)	75092
34428	N-NITROSODI-N-PROPYLAMINE, TOTAL (UG/L)	621647
34429	N-NITROSODI-N-PROPYLAMINE, DISSOLVED (UG/L)	621647
34430	N-NITROSODI-N-PROPYLAMINE, SUSPENDED (UG/L)	621647
34433	N-NITROSODIPHENYLAMINE, TOTAL (UG/L)	86306
34434	N-NITROSODIPHENYLAMINE, DISSOLVED (UG/L)	86306
34435	N-NITROSODIPHENYLAMINE, SUSPENDED (UG/L)	86306
34438	N-NITROSODIMETHYLAMINE, TOTAL (UG/L)	62759
34439	N-NITROSODIMETHYLAMINE, DISSOLVED (UG/L)	62759
34440	N-NITROSODIMETHYLAMINE, SUSPENDED (UG/L)	62759
34443	NAPHTHALENE, DISSOLVED (UG/L)	91203
34444	NAPHTHALENE, SUSPENDED (UG/L)	91203
34447	NITROBENZENE, TOTAL (UG/L)	98953
34448	NITROBENZENE, DISSOLVED (UG/L)	98953

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34449	NITROBENZENE, SUSPENDED (UG/L)	98953
34452	PARACHLOROMETA CRESOL, TOTAL (UG/L)	59507
34453	PARACHLOROMETA CRESOL, DISSOLVED (UG/L)	59507
34454	PARACHLOROMETA CRESOL, SUSPENDED (UG/L)	59507
34457	PCB - 1242, DISSOLVED (UG/L)	53469219
34458	PCB - 1242, SUSPENDED (UG/L)	53469219
34459	PCP (PENTACHLOROPHENOL), DISSOLVED (UG/L)	87865
34460	PCP (PENTACHLOROPHENOL), SUSPENDED (UG/L)	87865
34461	PHENANTHRENE, TOTAL (UG/L)	85018
34462	PHENANTHRENE, DISSOLVED (UG/L)	85018
34463	PHENANTHRENE, SUSPENDED (UG/L)	85018
34466	PHENOL, DISSOLVED (UG/L)	108952
34467	PHENOL, SUSPENDED (UG/L)	108952
34469	PYRENE, TOTAL (UG/L)	129000
34470	PYRENE, DISSOLVED (UG/L)	129000
34471	PYRENE, SUSPENDED (UG/L)	129000
34475	TETRACHLOROETHYLENE, TOTAL (UG/L)	127184
34476	TETRACHLOROETHYLENE, DISSOLVED (UG/L)	127184
34477	TETRACHLOROETHYLENE, SUSPENDED (UG/L)	127184
34481	TOLUENE, DISSOLVED (UG/L)	108883
34482	TOLUENE, SUSPENDED (UG/L)	108883
34485	TRICHLOROETHYLENE, DISSOLVED (UG/L)	79016
34486	TRICHLOROETHYLENE, SUSPENDED (UG/L)	79016
34493	VINYL CHLORIDE, DISSOLVED (UG/L)	75014
34494	VINYL CHLORIDE, SUSPENDED (UG/L)	75014
34496	1,1-DICHLOROETHANE, TOTAL (UG/L)	75343
34497	1,1-DICHLOROETHANE, DISSOLVED (UG/L)	75343
34498	1,1-DICHLOROETHANE, SUSPENDED (UG/L)	75343

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34501	1,1-DICHLOROETHYLENE, TOTAL (UG/L)	75354
34502	1,1-DICHLOROETHYLENE, DISSOLVED (UG/L)	75354
34503	1,1-DICHLOROETHYLENE, SUSPENDED (UG/L)	75354
34506	1,1,1-TRICHLOROETHANE, TOTAL (UG/L)	71556
34507	1,1,1-TRICHLOROETHANE, DISSOLVED (UG/L)	71556
34508	1,1,1-TRICHLOROETHANE, SUSPENDED (UG/L)	71556
34511	1,1,2-TRICHLOROETHANE, TOTAL (UG/L)	79005
34512	1,1,2-TRICHLOROETHANE, DISSOLVED (UG/L)	79005
34513	1,1,2-TRICHLOROETHANE, SUSPENDED (UG/L)	79005
34516	1,1,2,2-TETRACHLOROETHANE, TOTAL (UG/L)	79345
34517	1,1,2,2-TETRACHLOROETHANE, DISSOLVED (UG/L)	79345
34518	1,1,2,2-TETRACHLOROETHANE, SUSPENDED (UG/L)	79345
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, TOTAL (UG/L)	191242
34522	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, DISS. (UG/L)	191242
34523	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE, SUSP. (UG/L)	191242
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, TOTAL (UG/L)	56553
34527	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, DISS. (UG/L)	56553
34528	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE, SUSP. (UG/L)	56553
34531	1,2-DICHLOROETHANE, TOTAL (UG/L)	107062
34532	1,2-DICHLOROETHANE, DISSOLVED (UG/L)	107062
34533	1,2-DICHLOROETHANE, SUSPENDED (UG/L)	107062
34536	1,2-DICHLOROBENZENE, TOTAL (UG/L)	95501
34537	1,2-DICHLOROBENZENE, DISSOLVED (UG/L)	95501
34538	1,2-DICHLOROBENZENE, SUSPENDED (UG/L)	95501
34541	1,2-DICHLOROPROPANE, TOTAL (UG/L)	78875
34542	1,2-DICHLOROPROPANE, DISSOLVED (UG/L)	78875
34543	1,2-DICHLOROPROPANE, SUSPENDED (UG/L)	78875
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER (UG/L)	156605

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34547	TRANS-1,2-DICHLOROETHENE, DISSOLVED (UG/L)	156605
34548	TRANS-1,2-DICHLOROETHENE, SUSPENDED (UG/L)	156605
34551	1,2,4-TRICHLOROBENZENE, TOTAL (UG/L)	120821
34552	1,2,4-TRICHLOROBENZENE, DISSOLVED (UG/L)	120821
34553	1,2,4-TRICHLOROBENZENE, SUSPENDED (UG/L)	120821
34556	1,2,5,6-DIBENZANTHRACENE, TOTAL (UG/L)	53703
34557	1,2,5,6-DIBENZANTHRACENE, DISSOLVED (UG/L)	53703
34558	1,2,5,6-DIBENZANTHRACENE, SUSPENDED (UG/L)	53703
34561	1,3-DICHLOROPROPENE, TOTAL (UG/L)	542756
34562	1,3-DICHLOROPROPENE, DISSOLVED (UG/L)	542756
34563	1,3-DICHLOROPROPENE, SUSPENDED (UG/L)	542756
34566	1,3-DICHLOROBENZENE, TOTAL (UG/L)	541731
34567	1,3-DICHLOROBENZENE, DISSOLVED (UG/L)	541731
34568	1,3-DICHLOROBENZENE, SUSPENDED (UG/L)	541731
34571	1,4-DICHLOROBENZENE, TOTAL (UG/L)	106467
34572	1,4-DICHLOROBENZENE, DISSOLVED (UG/L)	106467
34573	1,4-DICHLOROBENZENE, SUSPENDED (UG/L)	106467
34576	2-CHLOROETHYL VINYL ETHER, TOTAL (UG/L)	110758
34577	2-CHLOROETHYL VINYL ETHER, DISSOLVED (UG/L)	110758
34578	2-CHLOROETHYL VINYL ETHER, SUSPENDED (UG/L)	110758
34581	2-CHLORONAPHTHALENE, TOTAL (UG/L)	91587
34582	2-CHLORONAPHTHALENE, DISSOLVED (UG/L)	91587
34583	2-CHLORONAPHTHALENE, SUSPENDED (UG/L)	91587
34586	2-CHLOROPHENOL, TOTAL (UG/L)	95578
34587	2-CHLOROPHENOL, DISSOLVED (UG/L)	95578
34588	2-CHLOROPHENOL, SUSPENDED (UG/L)	95578
34591	2-NITROPHENOL, TOTAL (UG/L)	88755
34592	2-NITROPHENOL, DISSOLVED (UG/L)	88755

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34593	2-NITROPHENOL, SUSPENDED (UG/L)	88755
34596	DI-N-OCTYL PHTHALATE, TOTAL (UG/L)	117840
34597	DI-N-OCTYL PHTHALATE, DISSOLVED (UG/L)	117840
34598	DI-N-OCTYL PHTHALATE, SUSPENDED (UG/L)	117840
34601	2,4-DICHLOROPHENOL, TOTAL (UG/L)	120832
34602	2,4-DICHLOROPHENOL, DISSOLVED (UG/L)	120832
34603	2,4-DICHLOROPHENOL, SUSPENDED (UG/L)	120832
34606	2,4-DIMETHYLPHENOL, TOTAL (UG/L)	105679
34607	2,4-DIMETHYLPHENOL, DISSOLVED (UG/L)	105679
34608	2,4-DIMETHYLPHENOL, SUSPENDED (UG/L)	105679
34611	2,4-DINITROTOLUENE, TOTAL (UG/L)	121142
34612	2,4-DINITROTOLUENE, DISSOLVED (UG/L)	121142
34613	2,4-DINITROTOLUENE, SUSPENDED (UG/L)	121142
34616	2,4-DINITROPHENOL, TOTAL (UG/L)	51285
34617	2,4-DINITROPHENOL, DISSOLVED (UG/L)	51285
34618	2,4-DINITROPHENOL, SUSPENDED (UG/L)	51285
34621	2,4,6-TRICHLOROPHENOL, TOTAL (UG/L)	88062
34622	2,4,6-TRICHLOROPHENOL, DISSOLVED (UG/L)	88062
34623	2,4,6-TRICHLOROPHENOL, SUSPENDED (UG/L)	88062
34626	2,6-DINITROTOLUENE, TOTAL (UG/L)	606202
34627	2,6-DINITROTOLUENE, DISSOLVED (UG/L)	606202
34628	2,6-DINITROTOLUENE, SUSPENDED (UG/L)	606202
34631	3,3'-DICHLOROBENZIDINE, TOTAL (UG/L)	91941
34632	3,3'-DICHLOROBENZIDINE, DISSOLVED (UG/L)	91941
34633	3,3'-DICHLOROBENZIDINE, SUSPENDED (UG/L)	91941
34636	4-BROMOPHENYL PHENYL ETHER, TOTAL (UG/L)	101553
34637	4-BROMOPHENYL PHENYL ETHER, DISSOLVED (UG/L)	101553
34638	4-BROMOPHENYL PHENYL ETHER, SUSPENDED (UG/L)	101553

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34641	4-CHLOROPHENYL PHENYL ETHER, TOTAL (UG/L)	7005723
34642	4-CHLOROPHENYL PHENYL ETHER, DISSOLVED (UG/L)	7005723
34643	4-CHLOROPHENYL PHENYL ETHER, SUSPENDED (UG/L)	7005723
34646	4-NITROPHENOL, TOTAL (UG/L)	100027
34647	4-NITROPHENOL, DISSOLVED (UG/L)	100027
34648	4-NITROPHENOL, SUSPENDED (UG/L)	100027
34651	P,P'-DDD, DISSOLVED (UG/L)	72548
34652	P,P'-DDD, SUSPENDED (UG/L)	72548
34653	P,P'-DDE, DISSOLVED (UG/L)	72559
34654	P,P'-DDE, SUSPENDED (UG/L)	72559
34655	P,P'-DDT, DISSOLVED (UG/L)	50293
34656	P,P'-DDT, SUSPENDED (UG/L)	50293
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL), TOTAL (UG/L)	534521
34658	DNOC (4,6-DINITRO-ORTHO-CRESOL), DISSOLVED (UG/L)	534521
34659	DNOC (4,6-DINITRO-ORTHO-CRESOL), SUSPENDED (UG/L)	534521
34662	PCB - 1221, DISSOLVED (UG/L)	11104282
34663	PCB - 1221, SUSPENDED (UG/L)	11104282
34665	PCB - 1232, DISSOLVED (UG/L)	11141165
34666	PCB - 1232, SUSPENDED (UG/L)	11141165
34671	PCB - 1016, TOTAL (UG/L)	12674112
34672	PCB - 1016, DISSOLVED (UG/L)	12674112
34673	PCB - 1016, SUSPENDED (UG/L)	12674112
34675	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD),TOT(UG/L)	1746016
34676	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(UG/L)	1746016
34677	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(UG/L)	1746016
34694	PHENOL(C6H5OH)-SINGLE COMPOUND TOTAL (UG/L)	108952
34696	NAPHTHALENE, TOTAL (UG/L)	91203
34750	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)TOT(PG/L)	1746016

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
34751	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)DISS(PG/L)	1746016
34752	2,3,7,8-TETRACHLORODIBENZO-PDIOXIN(TCDD)SUSP(PG/L)	1746016
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE (UG/L)	87865
39039	HEXACHLOROBENZENE WATER SAMPLE,ELECTRON CPT (UG/L)	118741
39100	BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER (UG/L)	117817
39103	BIS(2-ETHYLHEXYL) PHTHALATE, DISSOLVED, (UG/L)	117817
39104	BIS(2-ETHYLHEXYL) PHTHALATE, SUSPENDED, (UG/L)	117817
39107	PHTHALATES,DIETHYLHEXYL SUS.FRAC.WTR DWT (MG/KG)	117817
39110	DI-N-BUTYL PHTHALATE, WHOLE WATER (UG/L)	84742
39114	DI-N-BUTYL PHTHALATE, SUSPENDED (UG/L)	84742
39115	PHTHALATES,DIBUTYL SUS.FRAC.WATER DWT (UG/KG)	84742
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	92875
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE (UG/L)	75014
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE (UG/L)	79016
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	309002
39331	ALDRIN IN FILT. FRAC. OF WAT. SAMP. (UG/L)	309002
39332	ALDRIN IN SUSP. FRAC. OF WAT. SAMP. (UG/L)	309002
39336	BHC-ALPHA, WATER, WHOLE (LBS/DAY)	319846
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319846
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER (UG/L)	319857
39340	GAMMA-BHC(LINDANE), WHOLE WATER (UG/L)	58899
39341	GAMMA-BHC(LINDANE), DISSOLVED (UG/L)	58899
39342	GAMMA-BHC(LINDANE), SUSPENDED (UG/L)	58899
39344	BHC-GAMMA, WATER, WHOLE (LBS/DAY)	58899
39350	CHLORDANE(TECH MIX & METABS), WHOLE WATER (UG/L)	57749

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
39352	CHLORDANE(TECH MIX & METABS), DISSOLVED (UG/L)	57749
39353	CHLORDANE(TECH MIX & METABS), SUSPENDED (UG/L)	57749
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	72548
39361	DDD IN FILT. FRAC. OF WATER SMAPLE (UG/L)	72548
39362	DDD IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72548
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	72559
39366	DDE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72559
39367	DDE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72559
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	50293
39371	DDT IN FILT. FRAC. OF WATER SAMPLE (UG/L)	50293
39372	DDT IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	50293
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	60571
39381	DIELDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	60571
39382	DIELDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	60571
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	72208
39391	ENDRIN IN FILT. FRAC. OF WATER SAMPLE (UG/L)	72208
39392	ENDRIN IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	72208
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	8001352
39401	TOXAPHENE IN FILT. FRAC. OF WATER SAMPLE (UG/L)	8001352
39402	TOXAPHENE IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	8001352
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	76448
39411	HEPTACHLOR IN FILT. FRAC. OF WATER SAMPLE (UG/L)	76448
39412	HEPTACHLOR IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	76448
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	1024573
39421	HEPTACHLOR EPOXIDE IN FILT. FRAC. WAT. SAM. (UG/L)	1024573
39422	HEPTACHLOR EPOXIDE IN SUSP. FRAC. WAT. SAM. (UG/L)	1024573
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE (UG/L)	11104282
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11141165

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE (UG/L)	53469219
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE (UG/L)	12672296
39501	PCB - 1248 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	12672296
39502	PCB - 1248 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	12672296
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11097691
39505	PCB - 1254 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11097691
39506	PCB - 1254 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11097691
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE (UG/L)	11096825
39509	PCB - 1260 IN FILT. FRAC. OF WATER SAMPLE (UG/L)	11096825
39510	PCB - 1260 IN SUSP. FRAC. OF WATER SAMPLE (UG/L)	11096825
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	118741
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE (UG/L)	87683
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	58899
39920	DNOC IN WHOLE WATER SAMPLE (UG/L)	534521
46322	LINDANE PLUS ISOMERS IN WHOLE WATER SAMPLE (UG/L)	58899
46323	DELTA-BHC IN WHOLE WATER SAMPLE (UG/L)	319868
46326	HEPTACHLOR AND METABOLITES IN WH. H2O SAMP. (UG/L)	76448
46479	CYANIDE, DISSOLVED, WATER (UG/L)	57125
46551	ARSENIC, FIELD ACIDIFIED W/HNO3, LAB FILT. (UG/L)	7440382
46559	CADMIUM, FIELD ACIDIFIED-HNO3-LAB FILTER (UG/L-CD)	7440439
46560	CHROMIUM, FIELD ACIDIFIED-HN03-LAB FILT. (UG/L-CR)	7440473
46562	COPPER, FIELD ACIDIFIED-HNO3-LAB FILTER. (UG/L-CU)	7440508
46564	LEAD, FIELD ACIDIFIED-HNO3-LAB FILTERED (UG/L-PB)	7439921
46566	SILVER, FIELD ACIDIFIED-HNO3-LAB FILTER.(UG/L-AG)	7440224
46567	ZINC, EXTRACT. FIELD ACID W/HNO3, LAB FILT. (UG/L)	7440666
70012	PARACHLOROMETA CRESOL, WATER, WHOLE (LBS/DAY)	59507
70017	HEXACHLOROCYCLOPENTADIENE, WATER, WHOLE (LBS/DAY)	77474
70021	LEAD, (TCLP), WATER, TOTAL (MG/L)	7439921

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
71890	MERCURY, DISSOLVED (UG/L AS HG)	7439976
71895	MERCURY, SUSPENDED (UG/L AS HG)	7439976
71900	MERCURY, TOTAL (UG/L AS HG)	7439976
71901	MERCURY, TOTAL RECOVERABLE IN WATER AS HG (UG/L)	7439976
71946	CADMIUM, EXTRACTABLE (UG/L AS CD)	7440439
71947	CHROMIUM, EXTRACTABLE (UG/L AS CR)	7440473
71949	LEAD, EXTRACTABLE (UG/L AS PB)	7439921
71950	ZINC, EXTRACTABLE (UG/L AS ZN)	7440666
71951	COPPER, EXTRACTABLE (UG/L AS CU)	7440508
73063	CHLOROGUAIACOL,4-, TOTAL, WATER (UG/L)	16766306
73522	PROPANE, 2,2'-OXYBIS(1-CHLORO)- TOTAL (UG/L)	108601
77163	1,3-DICHLOROPROPENE-1, WHOLE WATER (UG/L)	542756
77354	1,1-DICHLORO-2,2-DIFLUOROETHANE WHOLE WATER (UG/L)	471432
77771	3-CHLORO-4-HYDROXYBENZOPHENONE, WHOLE WATER (UG/L)	55191203
78113	ETHYL BENZENE WHOLE WATER SAMPLE (UG/L)	100414
78124	BENZENE IN WATER (VOLATILE ANALYSIS) (UG/L)	71432
78131	TOLUENE IN WHOLE WATER (VOLATILE ANALYSIS) (UG/L)	108883
78208	2,4-DINITRO-O-CRESOL IN WHOLE WATER SAMPLE (UG/L)	534521
78247	CHROMIUM, HEXAVALENT, TOTAL RECOVERABLE, WT (UG/L)	18540299
78248	CYANIDE, TOTAL RECOVERABLE, WATER, WHOLE (UG/L)	57125
80357	CHROMIUM, TRIVALENT, DISSOLVED, AS CR	16065831
81208	CYANIDE, FREE (NOT AMEN. TO CHLORINATION) (MG/L)	57125
81210	CYANIDE - STATE OF ILLINOIS (MG/L)	57125
81214	CADMIUM - STATE OF ILLINOIS (MG/L)-COLD	7440439
81215	CHROMIUM - STATE OF ILLINOIS (MG/L), COLD DIGEST	18540299
81216	CHROMIUM(TRI)-STATE OF ILLINOIS (MG/L)-COLD DIGEST	16065831
81217	CHROMIUM, TOTAL - STATE OF ILLINOIS (MG/L) COLD DIGEST	7440473
81218	COPPER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440508

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
81220	LEAD, STATE OF ILLINOIS, MG/L, COLD DIGEST	7439921
81222	NICKEL - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440020
81223	SILVER, STATE OF ILLINOIS, MG/L, COLD DIGEST	7440224
81224	ZINC - STATE OF ILLINOIS, MG/L, COLD DIGEST	7440666
81642	SILVER (AG) IN WATER POUNDS PER DAY (LBS/DAY)	7440224
81750	COPPER, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440508
81751	LEAD, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7439921
81752	NICKEL, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440020
81753	CADMIUM, INTERSTITIAL WATER FROM SEDIMENT	7440439
81754	ZINC, INTERSTITIAL WATER FROM SEDIMENTS (UG/L)	7440666
81766	HEPTACHLOR EPOXIDE IN EPILITHIC ALGAE SED. (UG/KG)	1024573
81931	MERCURY (HG) SUSPENDED FRACTION OF WATER (UG/G)	7439976
81932	CADMIUM (CD) SUSPENDED FRACTION OF WATER (UG/G)	7440439
81933	ZINC (ZN) SUSPENDED FRACTION OF WATER (UG/G)	7440666
81934	LEAD (PB) SUSPENDED FRACTION OF WATER (UG/G)	7439921
81936	LEAD (PB) DISSOLVED CATIONIC SPECIES (UG/L)	7439921
81937	CADMIUM (CD) DISSOLVED CATIONIC SPECIES (UG/L)	7440439
81938	CHROMIUM, DISSOLVED CATIONIC SPECIES (UG/L)	7440473
81939	COPPER (CU) DISSOLVED CATIONIC SPECIES (UG/L)	7440508
81940	ZINC (ZN) DISSOLVED CATIONIC SPECIES (UG/L)	7440666
81941	CHROMIUM, DISSOLVED ANIONIC SPECIES (UG/L)	7440473
81942	COPPER (CU) DISSOLVED ANIONIC SPECIES (UG/L)	7440508
81943	ZINC (ZN) DISSOLVED ANIONIC SPECIES (UG/L)	7440666
82058	CHROMIUM, TOTAL, PERCENT REMOVAL	7440473
82399	CHROMIUM, HEXAVALENT (KG/BATCH)	18540299
82512	M,P-DICHLOROBENZENE (MEASURES 1,3&1,4) TOT. (UG/L)	541731
82573	CYANIDE/CHLORINATION IN WATER (MG/L)	57125
82621	HEXACHLOROBENZENE, WATER, TOTAL RECOVER. (UG/L)	118741

STORET Code	Toxic Elements (EPA Section 304(a) Priority Toxic Pollutants) cont.-	C.A.S. Number
82622	ENDRIN ALDEHYDE, WH. WATER, TOTAL RECOVER. (UG/L)	7421934
82623	ENDOSULFAN SULFATE, WATER, TOTAL RECOVER. (UG/L)	1031078
82624	ENDOSULFAN, BETA, WH. WATER, TOTAL RECOVER. (UG/L)	33213659
82626	1,2-DIPHENYLHYDRAZINE, WATER, TOTAL RECOVER. (UG/L)	122667
82627	PARACHLOROMETA CRESOL, WATER, TOTAL RECOVER. (UG/L)	59507
85006	ZINC, TOTAL - (#/DAY)	7440666
85007	CHROMIUM, TOTAL (#/DAY)	7440473
85010	NICKEL, TOTAL - (#/DAY)	7440020
85013	MERCURY, TOTAL - (#/DAY)	7439976

Appendix H

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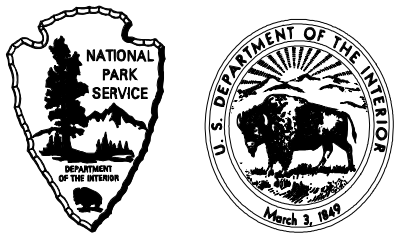
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As the nation's principal conservation agency, the Department of the Interior has the responsibility for most of our nationally owned public lands and natural and cultural resources. This includes fostering wise use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people. The Department also promotes the goals of the Take Pride in America campaign by encouraging stewardship and citizen responsibility for the public lands and promoting citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

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