Baseline Water Quality Data

Inventory and Analysis

Bryce 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

BRYCE CANYON NATIONAL PARK

National Park Service
Water Resources Division
Fort Collins, CO 80525

Technical Report NPS/NRWRD/NRTR-99/227

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EXECUTIVE SUMMARY

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

The results of the retrievals for the study area from the IFD, DRINKS, GAGES, and DAMS databases located one industrial/municipal discharger, no drinking water intakes, two inactive U. S. Geological Survey (USGS) stream gages, and one water impoundment. The results of the STORET retrieval for the study area yielded 8,487 observations for 156 separate parameters collected by the NPS, USGS, EPA, U. S. Forest Service (USFS), Utah Department of Environmental Quality (UDEQ), and Utah Department of Health at 163 monitoring stations from 1956 through 1998. Approximately 52 percent of the 8,487 observations within the study area were collected by the UDEQ from 1977 through 1998. Of the 163 monitoring stations, 81 stations were located within the park boundary (see Station Period of Record Tabulation). Three UDEQ stations within the study area (none within the park boundary) were established but contained no data. Two USGS stations within the study area (none within the park boundary) were established but did not contain data appropriate for statistical analysis.

Most of the monitoring stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Ten stations within the study area (none 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 study area are: (1) Tropic Reservoir No. 1 above the dam (BRCA 0113); (2) East Fork Sevier River above Tropic Reservoir (BRCA 0085); (3) East Fork Sevier River at USGS stream gage 10183900 above Tropic Reservoir (BRCA 0066); (4) East Fork Sevier River at the State Route 12 Bridge (BRCA 0162); and (5) Tropic Reservoir No. 3 at midlake (BRCA 0094)[†].

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 BRCA water quality criteria screen found 15 groups of parameters that exceeded screening criteria at least once within the study area. Dissolved oxygen, pH, cadmium, chromium, copper, lead, mercury, silver, and zinc exceeded their respective EPA criteria for the protection of freshwater aquatic life. Sulfate, cadmium, copper, lead, mercury, nickel, and uranium exceeded their respective

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

EPA drinking water criteria. Fecal-indicator bacteria concentrations (total coliform and fecal coliform) and turbidity exceeded the WRD screening limits for freshwater bathing and aquatic life, respectively.

Dissolved oxygen concentrations were measured 231 times at 17 monitoring stations from 1975 through 1998. Six concentrations at two stations in Tropic Reservoir, at midlake (BRCA 0094) and above the dam (BRCA 0113), were less than the 4 milligrams per liter (mg/L) EPA criterion for the protection of freshwater aquatic life from 1987 through 1993.

The pH was measured 493 times at 115 monitoring stations from 1956 through 1998. Forty concentrations at eight stations, in Tropic Reservoir (BRCA 0094, BRCA 0107, BRCA 0113, BRCA 0118), East Fork Sevier River (BRCA 0085, BRCA 0120, BRCA 0123), and within the park in Tropic Ditch at the State Route 12 Bridge (BRCA 0155), were outside the pH range of 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life) from 1974 through 1998. Thirty-nine observations were greater than or equal to pH 9.0 and one observation was less than pH 6.5. Twenty-eight of the 39 observations greater than or equal to pH 9.0 were reported at four stations in Tropic Reservoir (BRCA 0094, BRCA 0107, BRCA 0113, BRCA 0118) from 1975 through 1997, including the highest pH of 10.8 SU above the dam (BRCA 0113) in August 1991. The lowest pH of 6.1 SU was reported in the East Fork Sevier River at the Tropic Reservoir outlet (BRCA 0120) in October 1977.

Turbidity concentrations were measured 209 times at 20 monitoring stations from 1974 through 1998. Twelve concentrations at six stations, in the East Fork Sevier River (BRCA 0085, BRCA 0090, BRCA 0123, BRCA 0162), Badger Creek above Tropic Reservoir (BRCA 0092), and within the park in Tropic Ditch at the State Route 12 Bridge (BRCA 0155), exceeded the WRD screening criterion of 50 Jackson Candle/Formazin/Nephelometric Turbidity Units (JTU/FTU/NTU) from 1977 through 1998. Six of these 12 concentrations were reported at four stations in the East Fork Sevier River (BRCA 0085, BRCA 0090, BRCA 0123, BRCA 0162) from 1977 through 1997. The highest concentration of 5,120 FTU was reported within the park in Tropic Ditch at the State Route 12 Bridge (BRCA 0155) in April 1998.

Total coliform concentrations were measured 67 times at 24 monitoring stations from 1977 through 1991. Thirteen concentrations at eight stations, within the park (BRCA 0038, BRCA 0063, BRCA 0068, BRCA 0073, BRCA 0079), Sieler Creek at the USFS gaging station (BRCA 0015), East Fork Sevier River above Tropic Reservoir (BRCA 0085), and Badger Creek above Tropic Reservoir (BRCA 0092), exceeded the WRD bathing water screening criterion of 1,000 Colony Forming Units/Most Probable Number per 100 milliliters (CFU/MPN/100 ml) from 1977 through 1981. Ten of these 13 concentrations were reported at five stations within the park, South Fork Ponderosa Creek at Ponderosa Campsite (BRCA 0038), Sheep Creek Spring (BRCA 0063), Swamp Canyon below Whiteman Connecting Trail (BRCA 0068), Yellow Creek at the Under-The-Rim Trail Crossing (BRCA 0073), and Right Fork Yellow Creek Campsite (BRCA 0079), during 1981. The highest concentration of 9,300 MPN/100 ml was reported within the park in Yellow Creek at the Under-The-Rim Trail Crossing (BRCA 0073) in July 1981. Fecal coliform concentrations were measured 136 times at 25 monitoring stations from 1975 through 1991. Three concentrations, ranging from 230 CFU/100 ml to 930 MPN/100 ml at three stations, in the East Fork Sevier River (BRCA 0085, BRCA 0090) and Sieler Creek at the USFS gaging station (BRCA 0015), exceeded the WRD bathing water screening criterion of 200 CFU/MPN/100 ml during 1978 and 1979. The highest concentration of 930 MPN/100 ml was reported in the East Fork Sevier River above Tropic Reservoir (BRCA 0085) in August 1978.

Sulfate concentrations (including dissolved and total) were measured 198 times at 74 monitoring stations from 1956 through 1998. Twelve concentrations at ten stations, within the park at four springs (BRCA 0061, BRCA 0062, BRCA 0067, BRCA 0083), three springs north of Cannonville (BRCA 0104, BRCA 0105, BRCA 0106), two springs near Yellow Creek (BRCA 0055, BRCA 0056), and the Paria River near Bulldog Hollow (BRCA 0093), exceeded the drinking water criterion of 250 mg/L from 1956 through 1981. The highest concentration of 933 mg/L was reported at a spring near Yellow Creek at the eastern boundary of the study area (BRCA 0056) in October 1957.

Cadmium concentrations (including dissolved and total) were measured 67 times at 25 monitoring stations from 1974 through 1998. Nine total concentrations, ranging from 11 micrograms per liter (µg/L) to 41 µg/L at nine

springs within the park, Riggs Spring (BRCA 0012), Yovimpa Spring (0014), Iron Spring (0036), Center Fork Ponderosa Canyon Spring (BRCA 0041), Sheep Creek Spring (BRCA 0070), Swamp Spring (BRCA 0077), Right Fork Yellow Creek Spring (BRCA 0080), Yellow Creek Spring (BRCA 0081), and Peakaboo Spring (BRCA 0103), exceeded the acute freshwater criterion of 3.9 µg/L and the drinking water criterion of 5 µg/L during 1996. The highest concentration of 41 µg/L was reported at Riggs Spring in July 1996.

Chromium concentrations (including dissolved, dissolved hexavalent, hexavalent, and total) were measured 92 times at 25 monitoring stations from 1974 through 1998. Two hexavalent concentrations at two stations, 30 µg/L within the park at Center Fork Ponderosa Canyon Spring (BRCA 0041) and 25 µg/L in Tropic Reservoir above the dam (BRCA 0113), exceeded the acute freshwater criterion of 16 µg/L for hexavalent chromium in July 1996 and June 1979, respectively.

Copper concentrations (including dissolved and total) were measured 86 times at 25 monitoring stations from 1974 through 1998. Ten total concentrations at ten stations, within the park at eight springs (BRCA 0012, BRCA 0014, BRCA 0036, BRCA 0041, BRCA 0070, BRCA 0077, BRCA 0080, BRCA 0081), East Fork Sevier River at the Tropic Reservoir inlet (BRCA 0090), and Tropic Reservoir above the dam (BRCA 0113), exceeded the acute freshwater criterion of 18 µg/L from 1975 through 1996. Two of these ten concentrations, 2,115 µg/L in Tropic Reservoir above the dam (BRCA 0113) and 1,970 µg/L within the park at Sheep Creek Spring (BRCA 0070), also exceeded the drinking water criterion of 1,300 µg/L in June 1979 and June 1996, respectively. Eight of the ten concentrations exceeding the acute freshwater criterion were reported from eight stations within the park, Riggs Spring (BRCA 0012), Yovimpa Spring (BRCA 0014), Iron Spring (BRCA 0036), Center Fork Ponderosa Canyon Spring (BRCA 0041), Sheep Creek Spring (BRCA 0070), Swamp Spring (BRCA 0077), Right Fork Yellow Creek Spring (BRCA 0080), and Yellow Creek Spring (BRCA 0081), during June and July 1996.

Lead concentrations (including dissolved and total) were measured 82 times at 26 monitoring stations from 1974 through 1998. Fourteen concentrations at nine stations, within the park at five springs (BRCA 0014, BRCA 0041, BRCA 0077, BRCA 0081, BRCA 0103), East Fork Sevier River (BRCA 0090, BRCA 0120), King Creek at the campground road bridge (BRCA 0115), and Tropic Reservoir (BRCA 0107), equaled or exceeded the drinking water criterion of 15 µg/L from 1975 through 1996. The highest concentration of 390 µg/L in the East Fork Sevier River at the Tropic Reservoir outlet (BRCA 0120) also exceeded the acute freshwater criterion of 82 µg/L in June 1975.

Mercury concentrations (including dissolved and total) were measured 65 times at 23 monitoring stations from 1974 through 1998. Six total concentrations at six springs within the park, Riggs Spring (BRCA 0012), Center Fork Ponderosa Canyon Spring (BRCA 0041), Sheep Creek Spring (0070), Right Fork Yellow Creek Spring (BRCA 0080), Yellow Creek Spring (BRCA 0081), and Peakaboo Spring (BRCA 0103), exceeded the drinking water criterion of 2 µg/L and the acute freshwater criterion of 2.4 µg/L during June and July 1996. The highest concentration of 5.5 µg/L was reported at Right Fork Yellow Creek Spring (BRCA 0080) in June 1996.

Nickel concentrations (including dissolved and total) were measured 39 times at 18 monitoring stations from 1974 through 1996. One total concentration of 400 µg/L within the park at Swamp Spring (BRCA 0077) exceeded the drinking water criterion of 100 µg/L in June 1996.

Silver concentrations (including dissolved and total) were measured 64 times at 25 monitoring stations from 1974 through 1998. Three total concentrations of 10 µg/L at three springs within the park, Yovimpa Spring (BRCA 0014), Swamp Spring (BRCA 0077), and Yellow Creek Spring (BRCA 0081), exceeded the acute freshwater criterion of 4.1 µg/L during June and July 1996.

Natural dissolved uranium concentrations were measured 25 times at 25 monitoring stations during July 1980. Two concentrations, 32.3 µg/L at a spring at Bulldog Bench (BRCA 0075) and 21.8 µg/L at a spring in Indian Hollow (BRCA 0048), exceeded the drinking water criterion of 20 µg/L.

Zinc concentrations (including dissolved and total) were measured 84 times at 25 monitoring stations from 1974 through 1998. Four concentrations, ranging from 150 µg/L to 1,779 µg/L at four stations, within the park at three

springs (BRCA 0014, BRCA 0041, BRCA 0103) and East Fork Sevier River at the Tropic Reservoir outlet (BRCA 0120), exceeded the acute freshwater criterion of 120 µg/L during 1974 and 1996. The highest concentration of 1,779 µg/L was reported within the park at Yovimpa Spring (BRCA 0014) in July 1996.

The IDEA conducted for BRCA indicates that STORET data exist for all 13 Level I parameter groups in the study area. For the group Bacteria, only 3 percent of the observations were recorded since 1985. Overall, approximately 44 percent of the observations for Level I parameter groups were recorded since 1985. Data for nine groups (Alkalinity, Dissolved Oxygen, Clarity/Turbidity, Nitrate/Nitrogen, Phosphate/Phosphorus, Chlorophyll, Sulfates/Total Dissolved Solids/Hardness, Bacteria, and Toxic Elements) were recorded at less than half of the 160 monitoring stations with data. Relative to other parameter groups, data were limited for the group Chlorophyll. Results for 11 of the 126 EPA priority toxic pollutants (consisting of inorganic parameters and metals) were retrieved from STORET.

Surface water resources in the BRCA study area include the East Fork Sevier and Paria Rivers; Tropic Ditch; Tropic Reservoir and a few smaller impoundments; Sheep, Willis, Bryce, Badger, and many other intermittent and perennial creeks and washes; Riggs, Peakaboo, Trough, and numerous other intermittent and perennial springs; and a few small wetlands. The data inventories and analyses contained in this report indicate a lack of stations with longer-term records in most of the study area. All ten longer-term stations in the study area were located in the East Fork Sevier River Valley in the western portion of the study area downstream of the park. No monitoring stations within the park yielded longer-term records. Of the 81 monitoring stations within the park, only three stations (BRCA 0052, BRCA 0082, BRCA 0144) yielded parameters measured during more than one year. Without adequate data it is difficult to make definitive statements regarding water quality within the study area; however, from the limited available data, water quality has generally been good with some impacts from natural and human activities. Potential natural sources of contaminants include erosion from flash floods and geologic weathering. Potential anthropogenic sources of contaminants include agricultural and ranching operations; logging activities; stormwater runoff; industrial and municipal wastewater discharges; mining activities; recreational use; and atmospheric deposition.

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INTRODUCTION

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

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

Goal

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

Purpose

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

Objectives

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

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

2. Develop a complete inventory of all retrieved data;

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

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

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

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

Document Overview

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

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

Caveats

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

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

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

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

Key Personnel

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

National Park Service, Water Resources Division:

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

Mike Matz coordinated and managed the team which prepared all components of the report.

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

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

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

Greg Harp, Clint Bassett, and Amy Benton helped prepare reports and write the Executive Summaries.

Elizabeth Eisenhauer, Bill Folsom, Dana Griffin, Scott Ratchford, Jeff Ketcham, and Valdete Celaj provided digital cartographic support, both in determining retrieval/query areas and producing maps and graphics.

Kelli O'Connor, J. Chris Echohawk, Curtis Cooper, Adam Henson, Shawndra Mawhorter, Lisa Smith, Ryan Shy, Lisa Dummer, Eric Lord, Adriane Petersen, Margaret Matter, Richard Henderson, Ronda Burns, Aria Brissette, Nancy O'Keeffe, Melanie Schnier, Brett Atkinson, Paul Sorek, and Cara Ellis 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.

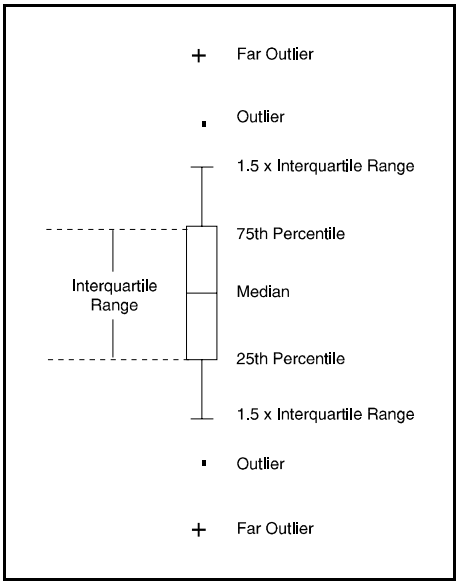
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

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 BRCA

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:	175977	36112
# STORET Stations:	163	81
# Stations With No Data:	3	0
# Stations With No Stat. Analysis:	2	0
# Longer Term Stations:	10	0
Date of STORET Retrieval:	08/10/99	08/10/99
Period of Record:	09/29/56-06/09/98	09/29/56-06/09/98
# Parameters Measured:	156	118
# Water Quality Observations:	8487	1630
# Industrial/Municipal Facilities:	1	0
# Drinking Water Intakes:	0	0
# Water Gages:	2	1
# Water Impoundments:	1	0
# Total Plots:	77	0
# Time Series:	36	0
# Annual:	0	0
# Seasonal:	41	0

Hydrologic Definition of Seasons:

1. July 10 - February 19
2. February 20 - May 9
3. May 10 - July 9

Time Series Plot Criteria:

To be included in the time series plots, a station/parameter combination must have at least 6 years and at least 20 observations.

Annual Analysis Criteria:

To be included in the annual box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of at least 4 years.

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

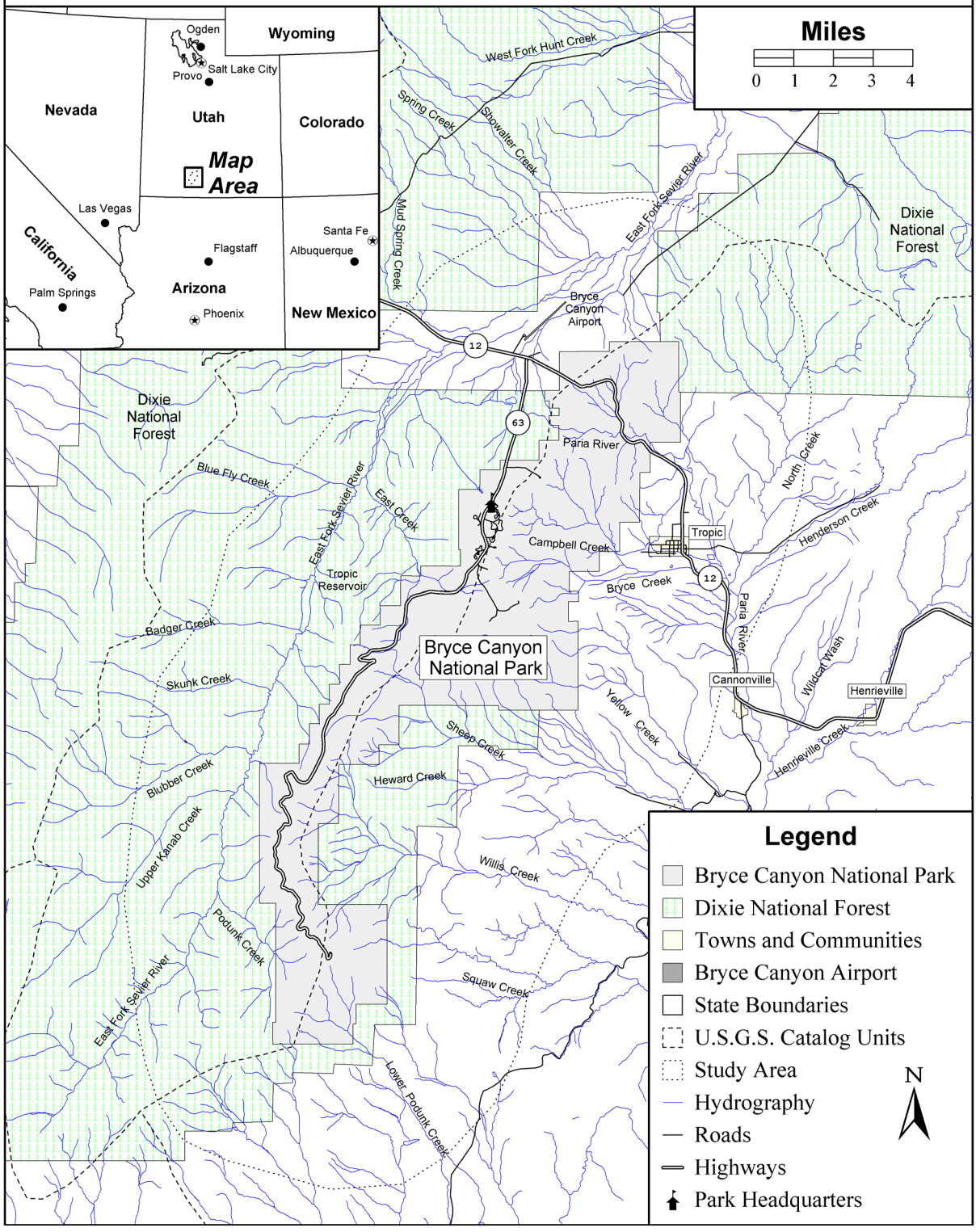
Seasonal Analysis Criteria:

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

Bryce Canyon National Park

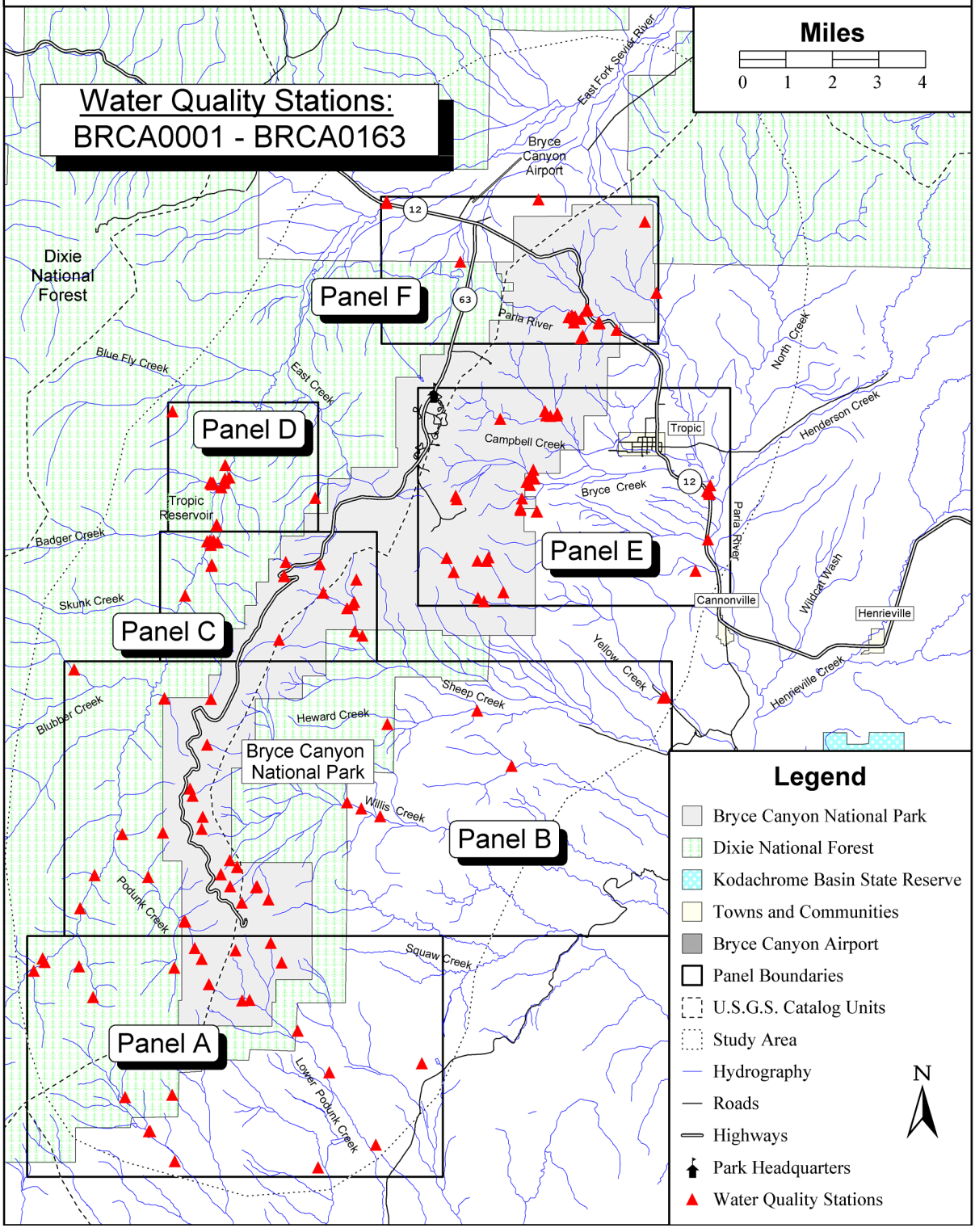
Regional Location Map



Bryce Canyon National Park

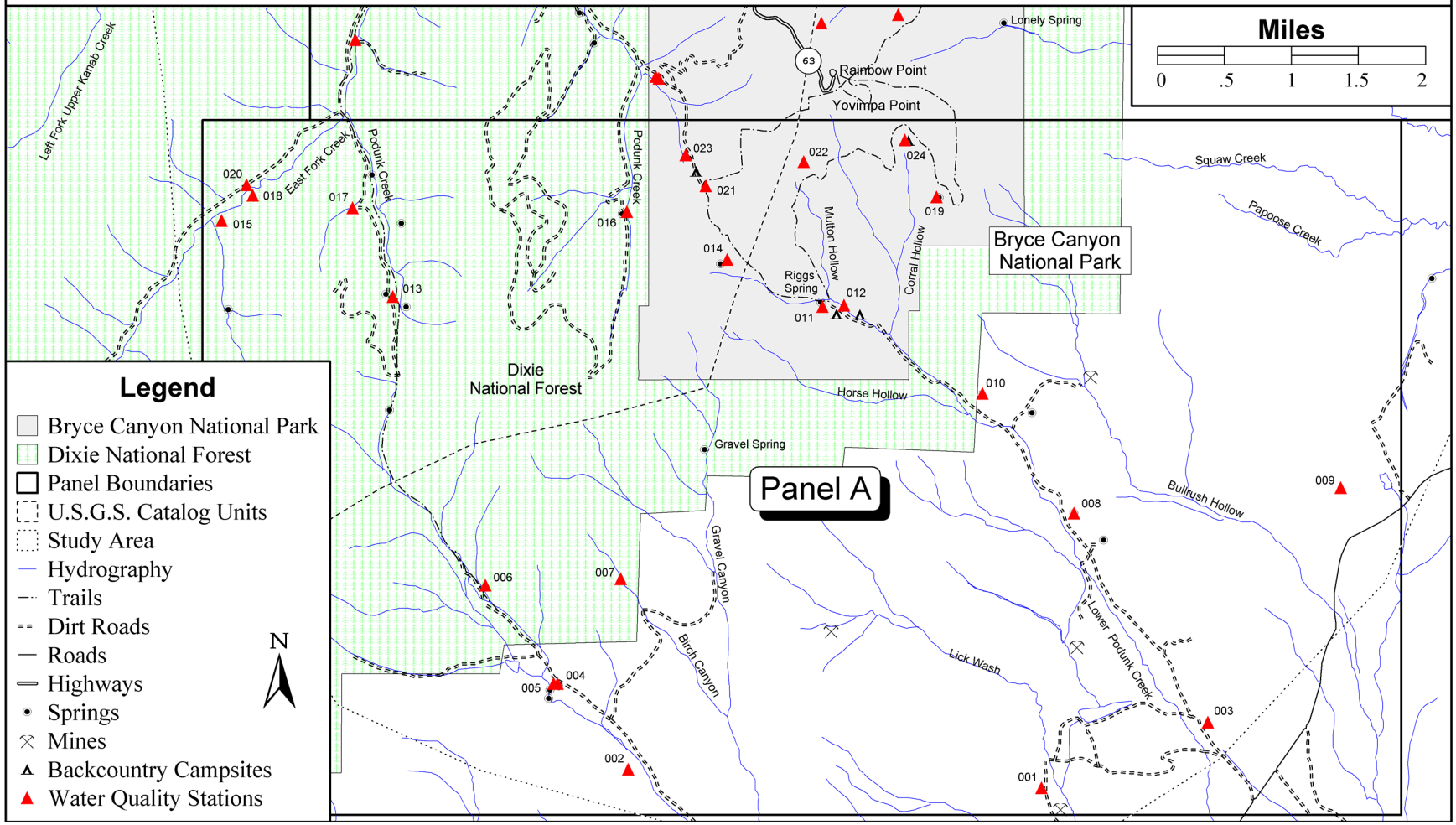
Water Quality Monitoring Locations

Graphic Panel Index



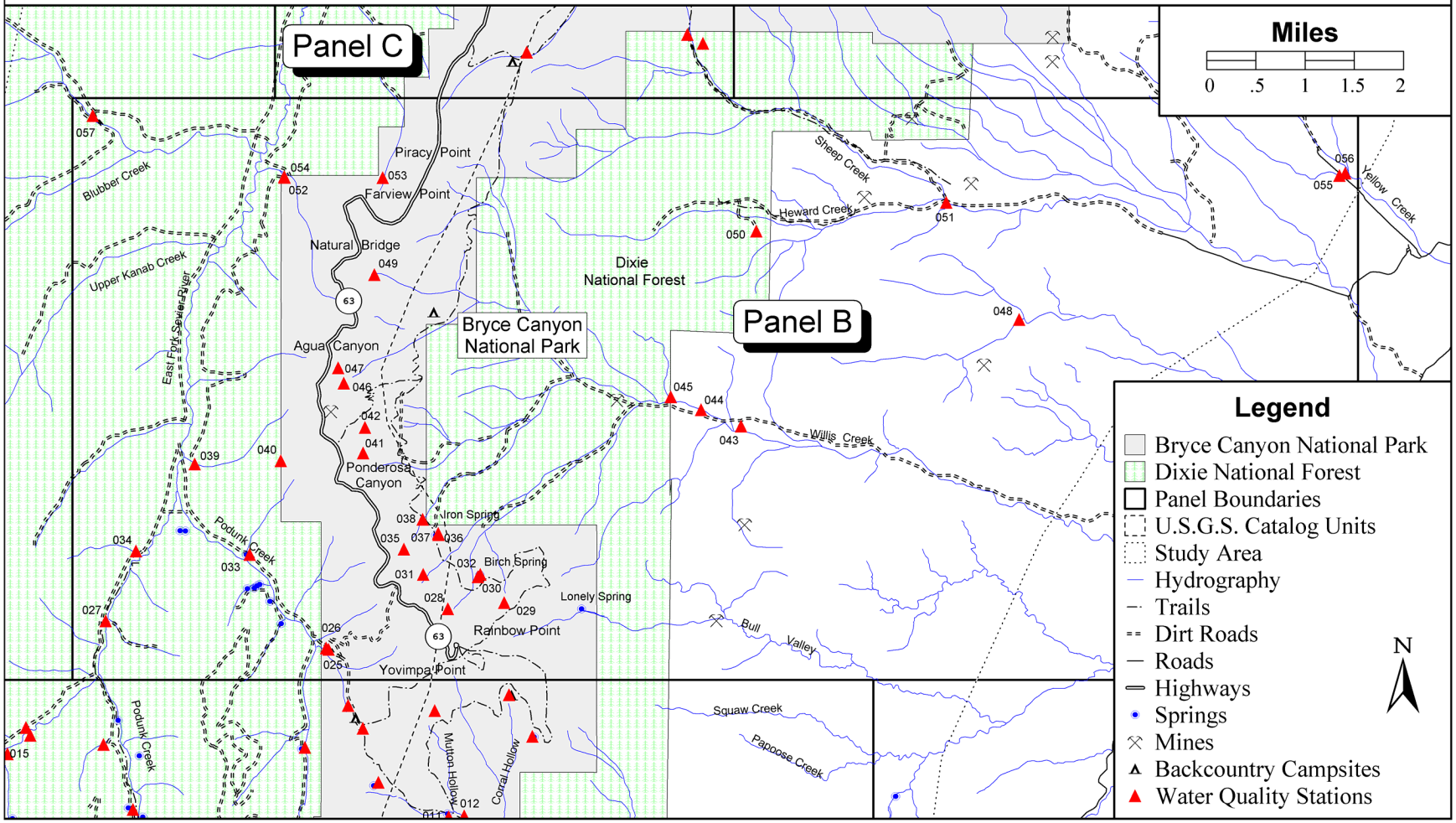
Bryce Canyon National Park

Water Quality Monitoring Locations



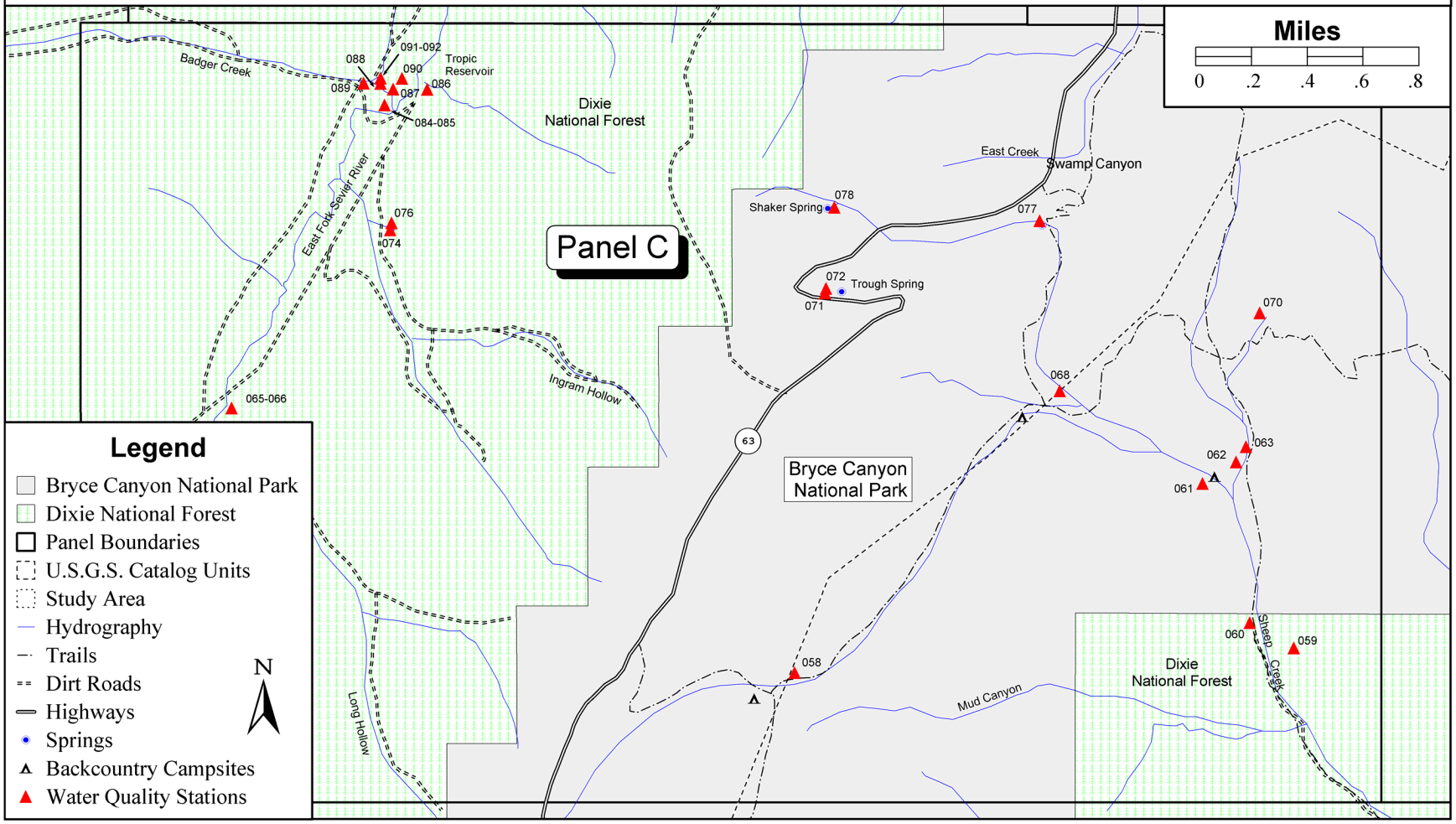
Bryce Canyon National Park

Water Quality Monitoring Locations



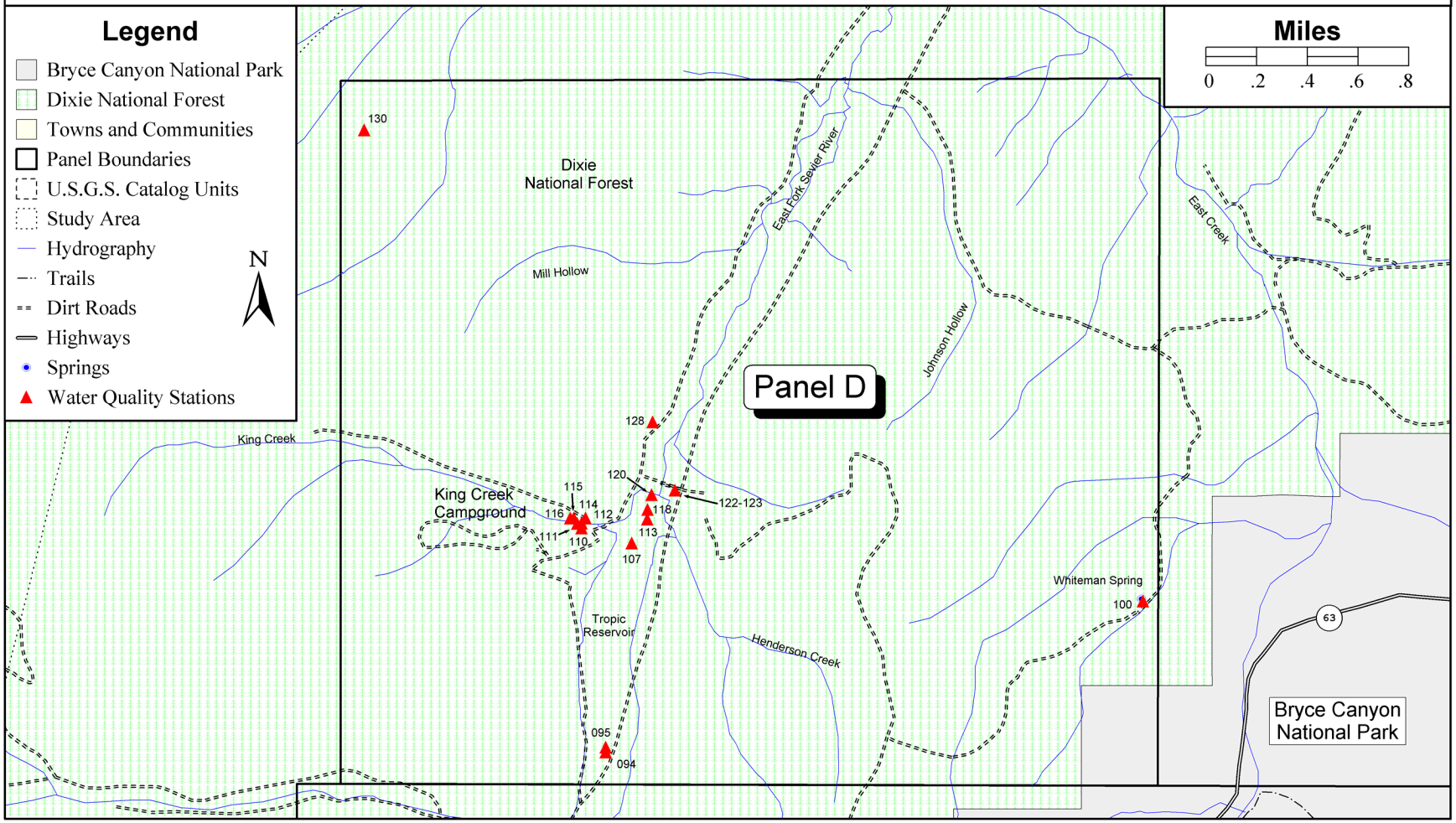
Bryce Canyon National Park

Water Quality Monitoring Locations



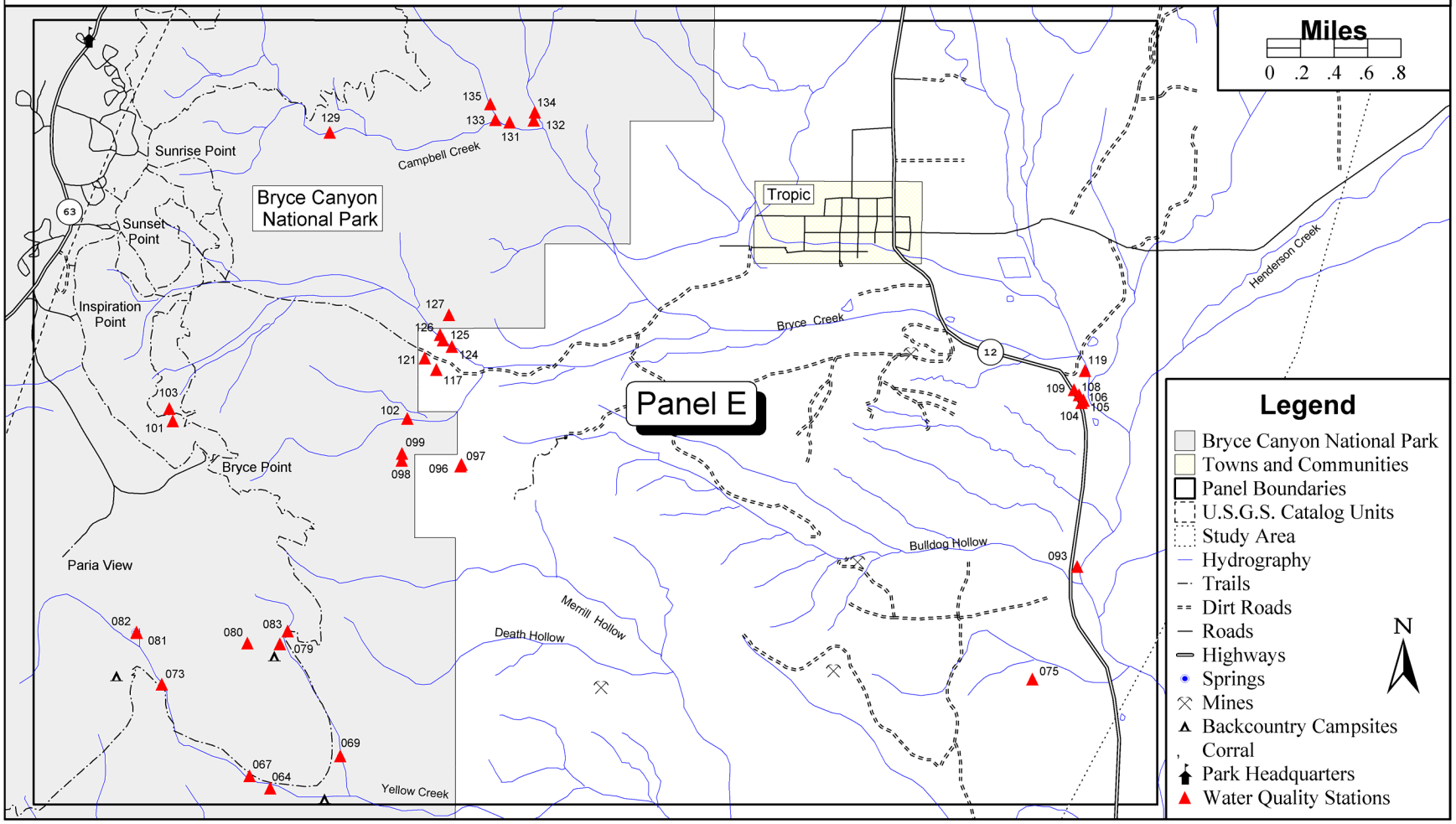
Bryce Canyon National Park

Water Quality Monitoring Locations



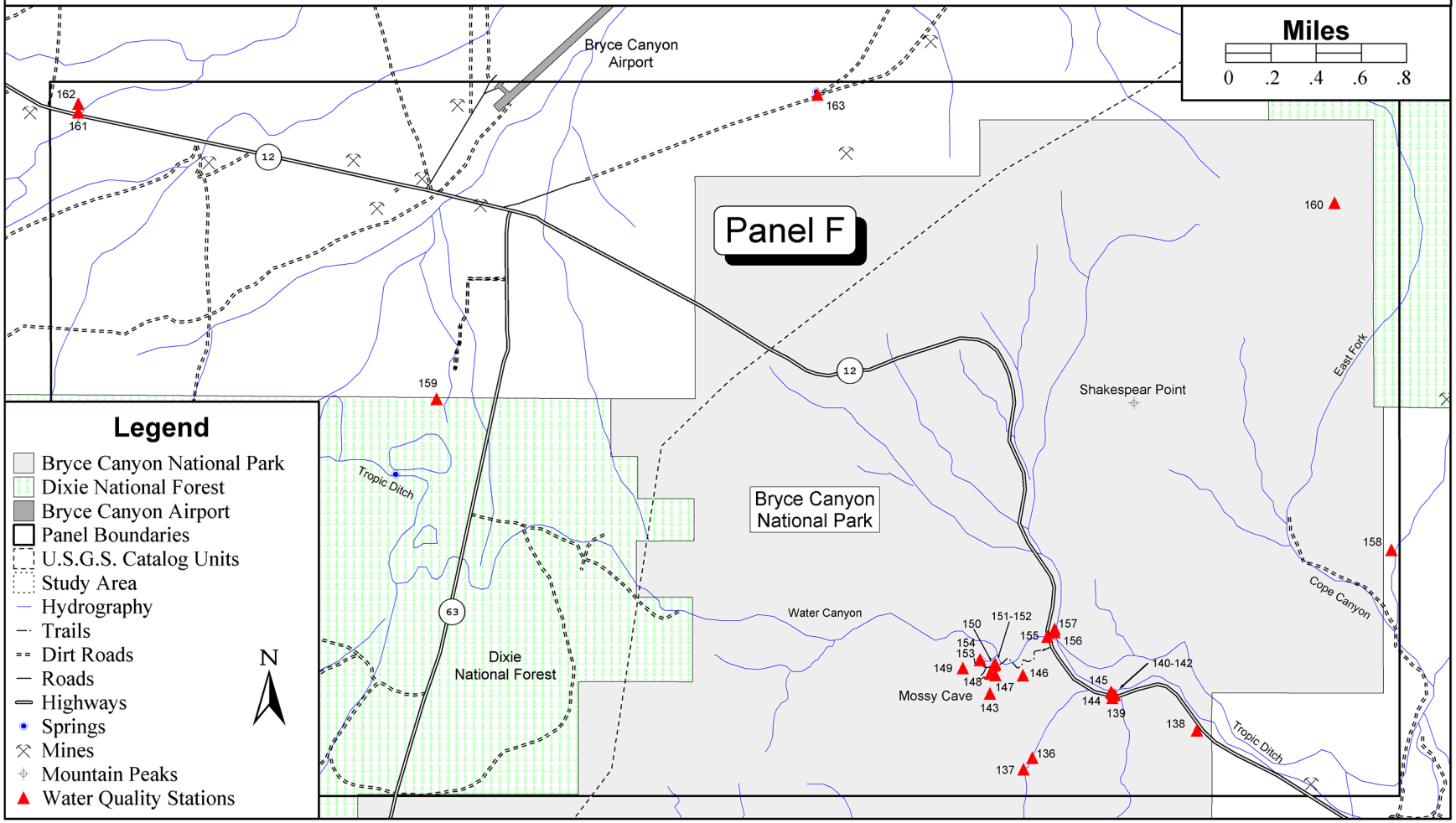
Bryce Canyon National Park

Water Quality Monitoring Locations



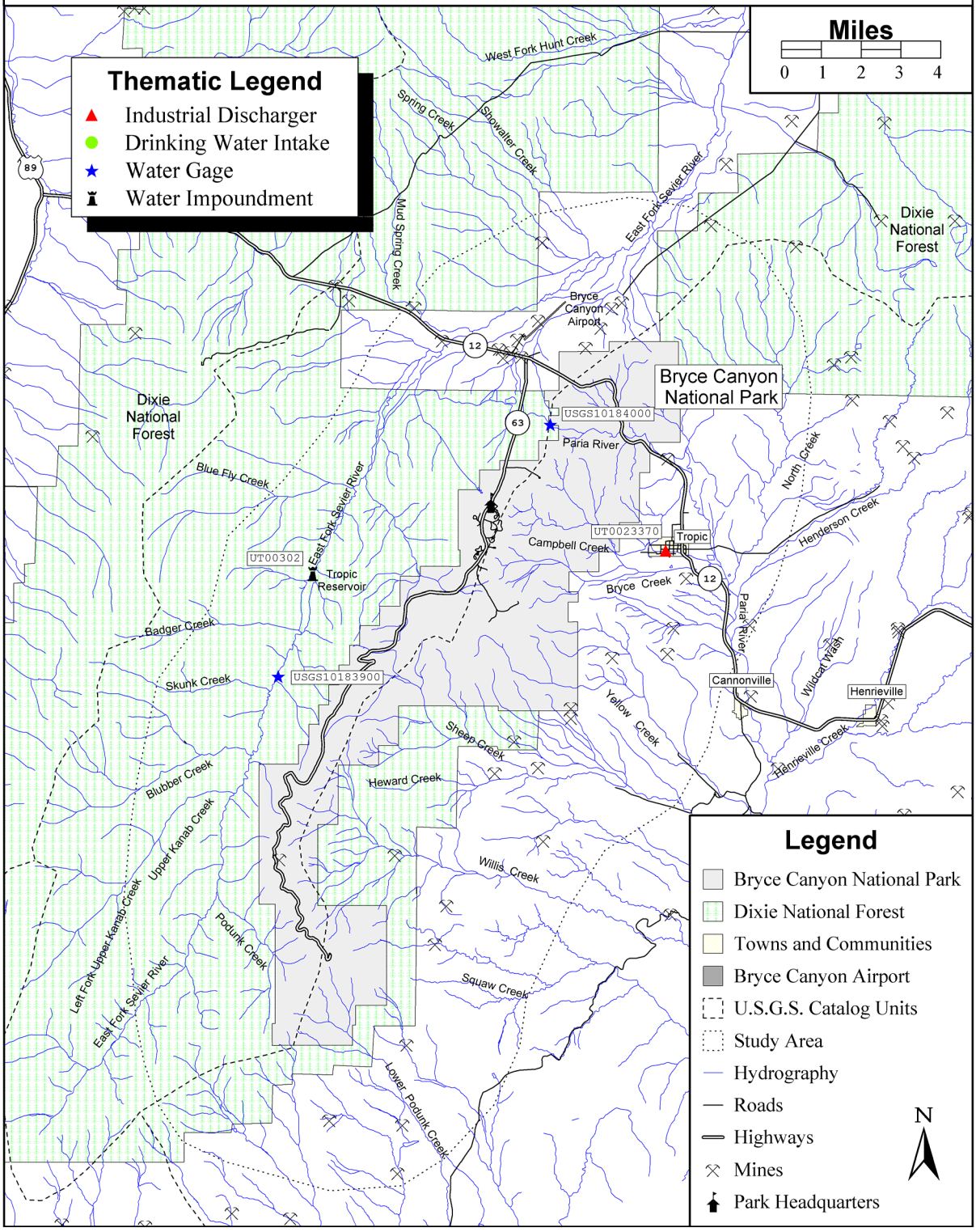
Bryce Canyon National Park

Water Quality Monitoring Locations



Bryce Canyon National Park

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



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

Industrial Facility Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name
UT0023370	TROPIC TOWN LE	P.O. BOX 130	TROPIC	TR TO PARIA R

Drinking Water Intakes

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

No drinking water intakes available for this study area.

Water Gages

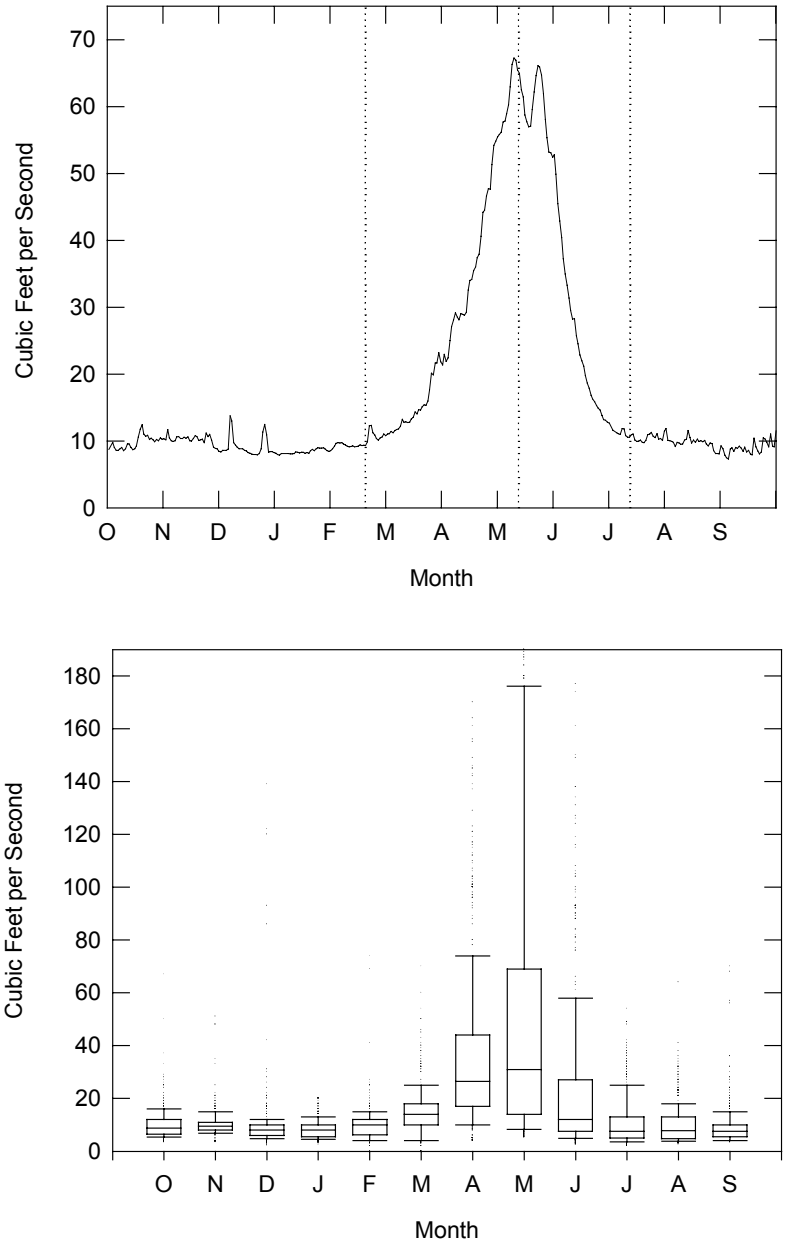
Site ID	Station Name	Site Type	Drainage Area (Square Miles)	Begin Year	End Year
USGS10183900	EAST FK SEVIER RIV NR RUBYS INN UTAH	Stream	71.60	1962	1995
USGS10184000	TROPIC AND EF CANAL N TROPIC UTAH			1950	1961

Water Impoundments

Site ID	Impoundment Name	Owner	Primary Purpose	Type of Dam	Downstream Hazard	Year Completed
UT00302	TROPIC RESERVOIR DAM	TROPIC-EAST FORK IRR CO	Irrig.	Earth	High	1901

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

BRYCE CANYON NATIONAL PARK
East Fork Sevier River near Rubys Inn, UT
10183900, 24 year record



Representative mean annual hydrograph (top) and distribution of daily flows by month (bottom) for hydrologic season determination. Box and whiskers represent a five number summary; bottom whisker cap is 10th percentile, bottom of box is 25th percentile, internal line is median, top of box is 75th percentile, and top whisker is 90th percentile. Hydrologic seasons for Bryce Canyon National Park are: Jul. 10 to Feb. 19, Feb. 20 to May 9, and May 10 to Jul. 9.

CONTACTS FOR AGENCY CODES RETRIEVED FOR BRCA

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)	
11NPSWRD	TUCKER, DEAN	NATIONAL PARK SERVICE	(970)225-3516	(970)225-3518
112WRD	BRIGGS, JOHN	US GEOLOGICAL SURVEY	(703)648-5624	
113FORS4	DAHL, GAIL	US FOREST SERVICE	(406)329-3062	
21UTAH	DENTON, RICHARD	DEPT ENF QUALITY	(801)538-6146	
11EPALES	LAMBOU, VICTOR W.	USEPA	(702)798-2259	
21UTDHDW	BOUSFIELD, KENNETH	UTAH DEPT OF HEALTH	(801)538-6159	

QUANTITY OF DATA RETRIEVED FOR BRCA 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
11NPSWRD	NATIONAL PARK SERVICE	09/29/56-08/05/96	09/29/56-08/05/96	108	69	0	0	0	0	1452	976	101	93
112WRD	US GEOLOGICAL SURVEY	05/21/68-08/20/91	05/21/68-09/23/82	26	9	0	0	0	0	1305	226	46	33
113FORS4	US FOREST SERVICE	07/10/74-07/25/79	No Data in Park	6	0	5	0	0	0	847	0	44	0
21UTAH	DEPT ENF QUALITY	01/19/77-06/09/98	09/17/97-06/09/98	13	2	5	0	3	0	4441	373	84	40
11EPALES	USEPA	11/09/74-10/11/75	No Data in Park	6	0	0	0	0	0	278	0	17	0
21UTDHDW	UTAH DEPT OF HEALTH	03/11/80-12/06/89	03/11/80-06/08/85	4	1	0	0	0	0	164	55	37	35
Totals		09/29/56-06/09/98	09/29/56-06/09/98	163	81	10	0	3	0	8487	1630	156	118

[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 09/29/56 To 06/09/98

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75
BRCA0001	CDCH028R	No	14	0	14	0
BRCA0002	(C-39- 4)20CDD-S1	No	50	0	50	0
BRCA0003	CDCH511R	No	13	0	13	0
BRCA0004	UPPER MEADOW CANYON SPG	No	26	0	26	0
BRCA0005	(C-39- 4)19ADA-S1	No	50	0	50	0
BRCA0006	CDCG050R	No	12	0	12	0
BRCA0007	UPPER CRAWFORD CANYON SP	No	24	0	24	0
BRCA0008	CDCH509R	No	13	0	13	0
BRCA0009	CDCH514R	No	13	0	13	0
BRCA0010	CDCH510R	No	13	0	13	0
BRCA0011	RIGGS SPRING	Yes	10	0	10	0
BRCA0012	RIGGS SPRING	Yes	41	41	0	0
BRCA0013	CDCG508R	No	12	0	12	0
BRCA0014	YOVIMPA SPRING	Yes	40	40	0	0
BRCA0015[1]	SIELER CREEK - AT USFS GAGING STATION	No	114	0	114	0
BRCA0016	CDCG510R	No	12	0	12	0
BRCA0017	CDCG051R	No	12	0	12	0
BRCA0018[1]	EAST FORK SEVIER RIVER - BELOW SIELER CREEK	No	138	0	138	0
BRCA0019	BULLBERRY SPRING	Yes	2	2	0	0
BRCA0020	EAST FORK SEVIER RIVER BL SIELER CREEK	No	52	52	0	0
BRCA0021	(C-38- 4)31AAA-S1	Yes	28	0	28	0
BRCA0022	MUTTON HOLLOW SPRING	Yes	6	6	0	0
BRCA0023	PODUNK SPRINGS ALONG YOVIMPA PASS FIRE ROAD	Yes	5	0	5	0
BRCA0024	CORRAL HOLLOW SPRING	Yes	6	6	0	0
BRCA0025	PODUNK SPRING	Yes	2	2	0	0
BRCA0026	SPRING IN YOVIMPA PASS NEAR PODUNK GATE	Yes	4	0	4	0
BRCA0027	R(C-38- 4)26BAB-	No	90	0	90	0
BRCA0028	CENTER FORK BLACK BIRCH CANYON SPRING	Yes	6	6	0	0
BRCA0029	SOUTH FORK BLACK BIRCH CANYON SPRING	Yes	2	2	0	0
BRCA0030	BIRCH SPRING	Yes	2	2	0	0
BRCA0031	NORTH FORK BLACK BIRCH CANYON SPRING	Yes	6	6	0	0
BRCA0032	BLACK BIRCH SPRING	Yes	15	0	15	0
BRCA0033	CDCG509R	No	12	0	12	0
BRCA0034	CDCG057R	No	12	0	12	0
BRCA0035	SOUTH FORK PONDEROSA CANYON SPRING	Yes	6	6	0	0
BRCA0036	IRON SPRING	Yes	41	41	0	0
BRCA0037	IRON SPRING	Yes	15	0	15	0
BRCA0038	PONDEROSA CAMPSITE-SOUTH FORK PONDEROSA CREEK	Yes	20	0	20	0
BRCA0039	CDBG047R	No	14	0	14	0
BRCA0040	(C-37- 4)31CBB-S1	No	2	0	2	0
BRCA0041	CENTER FORK PONDEROSA CANYON SPRING	Yes	41	41	0	0
BRCA0042	NORTH FORK PONDEROSA CANYON SPRING	Yes	2	2	0	0
BRCA0043	SPRING AT WILLIS CREEK	No	2	0	0	2
BRCA0044	SPRING NEAR HEADWATERS OF WILLIS CREEK	No	14	0	0	14
BRCA0045	CDBH060R	No	12	0	12	0
BRCA0046	SOUTH FORK AGUA CANYON SPRING	Yes	2	2	0	0
BRCA0047	NORTH FORK AGUA CANYON SPRING	Yes	6	6	0	0
BRCA0048	CDBH512R	No	11	0	11	0
BRCA0049	NATURAL BRIDGE SPRING	Yes	6	6	0	0
BRCA0050	HEWARD SPRING	No	2	0	0	2
BRCA0051	CDBH513R	No	10	0	10	0
BRCA0052	(C-37- 4)31CBB-S1	Yes	55	0	55	0
BRCA0053	LONG HOLLOW SPRING	Yes	2	2	0	0
BRCA0054	BRIDGE HOLLOW SPRING	Yes	2	2	0	0
BRCA0055	SECOND YELLOW CREEK WASH SPRING	No	14	0	0	14
BRCA0056	THIRD YELLOW CREEK WASH SPRING	No	13	0	0	13
BRCA0057	CDBG041R	No	14	0	14	0
BRCA0058	UPPER SWAMP SPRING	Yes	2	2	0	0
BRCA0059	CDBH514R	No	12	0	12	0
BRCA0060	CDBH057R	No	14	0	14	0
BRCA0061	SWAMP CANYON SPRING	Yes	11	0	0	11
BRCA0062	SHEEP CREEK SPRING	Yes	28	0	0	28
BRCA0063	SHEEP CREEK SPRING	Yes	15	0	15	0
BRCA0064	YELLOW CREEK GROUP CAMPSITE	Yes	5	0	5	0
BRCA0065	EAST FK SEVIER RIV NR RUBYS INN UTAH	No	491	216	216	59
BRCA0066[1]	EAST FK SEVIER R AT USGS10183900 AB TROPIC RES	No	590	590	0	0
BRCA0067	SECOND YELLOW CREEK WASH SPRING	Yes	14	0	0	14
BRCA0068	SWAMP CANYON BELOW WHITEMAN CONNECTING TRAIL	Yes	16	0	16	0
BRCA0069	SPRING AT RIGHT FORK #2 OF YELLOW CREEK	Yes	2	0	0	2
BRCA0070	SHEEP CREEK SPRING	Yes	40	40	0	0
BRCA0071	(C-37- 4)16DCB-S1	Yes	25	0	25	0

Station Period of Record Tabulation
From 09/29/56 To 06/09/98

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75
BRCA0072	TROUGH SPRING	Yes	2	2	0	0
BRCA0073	YELLOW CREEK AT THE TRAIL CROSSING	Yes	20	0	20	0
BRCA0074	CDBG506R	No	9	0	9	0
BRCA0075	CDBH511R	No	9	0	9	0
BRCA0076	(C-37- 4)17CBC-S1	No	48	0	48	0
BRCA0077	SWAMP SPRING	Yes	41	41	0	0
BRCA0078	SHAKER SPRING-SCA CAMP WHITEMAN BENCH	Yes	5	0	5	0
BRCA0079	RIGHT FORK YELLOW CREEK CAMPSITE	Yes	24	0	24	0
BRCA0080	RIGHT FORK YELLOW CREEK SPRING	Yes	41	41	0	0
BRCA0081	YELLOW CREEK SPRING	Yes	41	41	0	0
BRCA0082	YELLOW CREEK SPRING	Yes	30	0	0	30
BRCA0083	(C-37- 3)18BCB-S1	Yes	21	0	0	21
BRCA0084	E FORK SEVIER RIVER	No	37	0	30	7
BRCA0085[1]	E FK SEVIER R ABV TROPIC RES	No	855	269	586	0
BRCA0086	(C-37- 4)17BBD-S1	No	2	0	2	0
BRCA0087	(C-37- 4)17BBD-S1	No	24	0	24	0
BRCA0088	TROPIC SPR RDSIDE STOP - TROPIC SPRING	No	2	2	0	0
BRCA0089	BADGER CK AB TROPIC RES	No	0	0	0	0
BRCA0090[1]	EAST FORK SEVIER RIVER AT TROPIC RESVR INLET	No	186	0	186	0
BRCA0091	BADGER CREEK	No	37	0	30	7
BRCA0092	BADGER CK AB TROPIC RES	No	152	102	50	0
BRCA0093	(C-37- 3)12DCD-	No	62	0	62	0
BRCA0094[1]	TROPIC RES MIDLAKE 02	No	439	307	132	0
BRCA0095	TROPIC RESERVOIR	No	29	0	29	0
BRCA0096	(C-37- 3) 9BCB-S1	No	23	0	23	0
BRCA0097	MERRILL RANCH SPRING	No	27	0	0	27
BRCA0098	SPRING AT MERRILL RANCH #2	Yes	14	0	0	14
BRCA0099	SPRING AT MERRILL HOLLOW NORTH	Yes	2	0	0	2
BRCA0100	CDBH503R	No	11	0	11	0
BRCA0101	PEEK-A-BOO LOOP TRAIL PUBLIC WATER FOUNTAIN	Yes	3	0	3	0
BRCA0102	BIG BIRCH SPRING	Yes	2	0	0	2
BRCA0103	PEAKABOO SPRING	Yes	41	41	0	0
BRCA0104	(C-37- 3) 1DCD-S1	No	25	0	25	0
BRCA0105	SPRING AT CANNONVILLE TOWN #1	No	15	0	0	15
BRCA0106	SPRING AT CANNONVILLE #2	No	13	0	0	13
BRCA0107[1]	TROPIC RESERVOIR - ACROSS FROM PARKING LOT	No	87	0	87	0
BRCA0108	CANNONVILLE - 2 MI NORTH	No	106	1	105	0
BRCA0109	(C-37- 3) 1DCA-S1	No	25	0	25	0
BRCA0110	(C-37- 4) 5CCC-S1	No	55	0	55	0
BRCA0111	CDBG040R	No	13	0	13	0
BRCA0112	KINGS CANYON CK AB TROPIC RES	No	0	0	0	0
BRCA0113[1]	TROPIC RES AB DAM 01	No	1329	974	355	0
BRCA0114	KING CREEK	No	55	0	43	12
BRCA0115	KINGS CREEK - ABOVE CAMPGROUND ROAD	No	105	0	105	0
BRCA0116	CDBG507R	No	13	0	13	0
BRCA0117	(C-37- 3) 5DA -S1	No	21	0	0	21
BRCA0118	TROPIC RESERVOIR	No	64	0	64	0
BRCA0119	SWAMP CANNONVILLE SPRING	No	14	0	0	14
BRCA0120[1]	EAST FORK SEVIER RIVER AT TROPIC RESVR OUTLET	No	217	0	147	70
BRCA0121	BRYCE SOUTH SPRING	No	14	0	0	14
BRCA0122	E FORK SEVIER RIVER	No	56	0	45	11
BRCA0123	E FK SEVIER R AT OUTFALL FROM TROPIC RES	No	256	117	139	0
BRCA0124	SPRING T-3 AT BRYCE CREEK	No	14	0	0	14
BRCA0125	SPRING T-2 AT BRYCE CREEK	No	14	0	0	14
BRCA0126	SPRING T-4 AT BRYCE CREEK	No	13	0	0	13
BRCA0127	SPRING T-1 AT BRYCE CREEK	Yes	14	0	0	14
BRCA0128	KINGS CREEK CAMPGROUND - CAMPGROUND SPR.	No	1	1	0	0
BRCA0129	TOWER BRIDGE SPRING	Yes	6	6	0	0
BRCA0130	CDBG505R	No	13	0	13	0
BRCA0131	SPRING AT LOWER CAMPBELL CANYON	Yes	14	0	0	14
BRCA0132	(C-36- 3)33BDA-S1	Yes	21	0	0	21
BRCA0133	(C-36- 3)33BCA-S1	Yes	25	0	25	0
BRCA0134	CAMPBELL CANYON SPRING	Yes	28	0	0	28
BRCA0135	SPRING AT UPPER CAMPBELL CANYON	Yes	14	0	0	14
BRCA0136	JOLLEY HOLLOW SPRING	Yes	6	6	0	0
BRCA0137	JOLLEY HOLLOW WATERFALL	Yes	5	0	5	0
BRCA0138	SPRING AT TROPIC CANYON #2	Yes	2	0	0	2
BRCA0139	(C-36- 3)22BDB-S1	Yes	23	0	23	0
BRCA0140	TROPIC CANYON SPRING	Yes	74	74	0	0
BRCA0141	SPRING AT TROPIC CANYON #1	Yes	14	0	0	14
BRCA0142	TROPIC CANYON SPRING	Yes	35	0	0	35

Station Period of Record Tabulation
From 09/29/56 To 06/09/98

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75
BRCA0143	MOSSY CAVE	Yes	4	0	4	0
BRCA0144	TROPIC - BRYCE SPRINGS	Yes	55	19	36	0
BRCA0145	DR. GOOD #10	Yes	2	2	0	0
BRCA0146	(C-36- 3)21AAC-S1	Yes	3	0	3	0
BRCA0147	(C-36- 3)21AAC-S1	Yes	25	0	25	0
BRCA0148	SPRING AT MOSSY CAVE #1	Yes	14	0	0	14
BRCA0149	WATER CANYON LOWER SPRING	Yes	6	6	0	0
BRCA0150	SPRING AT WATER CANYON	Yes	2	0	0	2
BRCA0151	WATER CANYON UPPER SPRING	Yes	6	6	0	0
BRCA0152	WATER CANYON UPPER SPRING	Yes	6	6	0	0
BRCA0153	SPRING AT WATER CANYON	Yes	2	0	0	2
BRCA0154	MOSSY CAVE SPRING	Yes	6	6	0	0
BRCA0155	TROPIC DITCH @ U12 XING E OF BRYCE	Yes	280	280	0	0
BRCA0156	PARIA R 3 MI NNE OF TROPIC	Yes	93	93	0	0
BRCA0157	TROPIC DITCH	Yes	13	0	0	13
BRCA0158	SPRING AT BOX CANYON	No	2	0	0	2
BRCA0159	BRYCE LAGOON EFFLUENT	No	0	0	0	0
BRCA0160	SPRING AT COPE CANYON NORTH	Yes	14	0	0	14
BRCA0161	(C-36- 4) 2DCA-	No	61	0	61	0
BRCA0162[1]	E FK SEVIER R U12 XING	No	395	395	0	0
BRCA0163	CDBH508R	No	12	0	12	0

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

Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Parameter Code	Name	Total Obs	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	164	100	64	0	27	17
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	387	174	190	23	88	32
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	84	0	56	28	38	21
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	71	71	0	0	39	33
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	69	39	30	0	16	6
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	80	39	41	0	18	6
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	28	0	19	9	18	9
00060	FLOW, STREAM, MEAN DAILY CFS	18	0	0	18	1	0
00061	FLOW, STREAM, INSTANTANEOUS CFS	172	92	78	2	12	2
00070	TURBIDITY, (JACKSON CANDLE UNITS)	27	0	24	3	6	1
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	6	0	6	0	2	0
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	180	88	92	0	18	3
00077	TRANSPARENCY, SECCHI DISC (INCHES)	4	0	4	0	2	0
00078	TRANSPARENCY, SECCHI DISC (METERS)	22	18	4	0	2	0
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	9	9	0	0	9	9
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	252	135	115	2	40	24
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	299	116	154	29	78	27
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	26	0	26	0	12	12
00300	OXYGEN, DISSOLVED MG/L	231	111	120	0	17	2
00310	BOD, 5 DAY, 20 DEG C MG/L	10	0	10	0	1	0
00335	COD, .025N K2CR2O7 MG/L	39	19	20	0	7	0
00400	PH (STANDARD UNITS)	324	113	177	34	90	24
00403	PH, LAB, STANDARD UNITS SU	147	94	53	0	39	19
00405	CARBON DIOXIDE (MG/L AS CO2)	115	82	33	0	15	3
00406	PH, FIELD, STANDARD UNITS SU	22	22	0	0	22	22
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	183	90	73	20	68	14
00440	BICARBONATE ION (MG/L AS HCO3)	137	84	36	17	29	12
00445	CARBONATE ION (MG/L AS CO3)	124	84	34	6	22	7
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	27	0	10	17	18	8
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	132	96	36	0	12	2
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	3	2	0	1	2	2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	190	114	70	6	17	2
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	36	27	9	0	7	1
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	51	24	23	4	13	1
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	42	27	14	1	8	2
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	99	26	68	5	19	1
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	127	53	68	6	14	0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	58	2	50	6	13	0
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	93	74	19	0	21	8
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	47	0	45	2	6	0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	179	111	62	6	16	2
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	65	65	0	0	7	2
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	84	33	45	6	13	1
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	27	19	8	0	7	0
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	6	0	4	2	3	0
00745	SULFIDE, TOTAL (MG/L AS S)	11	11	0	0	11	9
00900	HARDNESS, TOTAL (MG/L AS CACO3)	161	93	62	6	39	13
00901	HARDNESS, CARBONATE (MG/L AS CACO3)	11	0	0	11	7	5
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	16	0	7	9	16	7
00915	CALCIUM, DISSOLVED (MG/L AS CA)	187	93	60	34	62	26
00916	CALCIUM, TOTAL (MG/L AS CA)	9	9	0	0	9	9
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	209	93	82	34	84	26
00927	MAGNESIUM, TOTAL (MG/L AS MG)	9	9	0	0	9	9
00929	SODIUM, TOTAL (MG/L AS NA)	9	9	0	0	9	9
00930	SODIUM, DISSOLVED (MG/L AS NA)	178	90	82	6	61	13
00931	SODIUM ADSORPTION RATIO	31	0	28	3	22	8
00932	SODIUM, PERCENT	28	0	28	0	19	6
00933	SODIUM,PLUS POTASSIUM (MG/L)	26	0	0	26	23	12
00935	POTASSIUM, DISSOLVED (MG/L AS K)	154	90	58	6	38	13
00937	POTASSIUM, TOTAL MG/L AS K)	9	9	0	0	9	9
00940	CHLORIDE,TOTAL IN WATER MG/L	82	34	43	5	39	17
00941	CHLORIDE, DISSOLVED IN WATER MG/L	117	66	22	29	38	18
00945	SULFATE, TOTAL (MG/L AS SO4)	40	9	28	3	31	17
00946	SULFATE, DISSOLVED (MG/L AS SO4)	158	93	34	31	43	18
00950	FLUORIDE, DISSOLVED (MG/L AS F)	68	3	54	11	38	14
00953	FLUORINE,TOTAL UG/L	9	9	0	0	9	9
00955	SILICA, DISSOLVED (MG/L AS SI02)	93	7	52	34	57	24
01000	ARSENIC, DISSOLVED (UG/L AS AS)	31	17	11	3	11	4
01002	ARSENIC, TOTAL (UG/L AS AS)	28	6	22	0	8	1
01005	BARIUM, DISSOLVED (UG/L AS BA)	35	21	11	3	14	4
01007	BARIUM, TOTAL (UG/L AS BA)	40	18	22	0	8	1

Parameter Period of Record Tabulation
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Parameter Code	Name	Total Obs	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
01020	BORON, DISSOLVED (UG/L AS B)	53	2	46	5	31	11
01022	BORON, TOTAL (UG/L AS B)	9	9	0	0	9	9
01025	CADMIUM, DISSOLVED (UG/L AS CD)	30	17	10	3	11	4
01027	CADMIUM, TOTAL (UG/L AS CD)	37	15	22	0	17	10
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	17	12	5	0	7	2
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	33	9	22	2	17	10
01034	CHROMIUM, TOTAL (UG/L AS CR)	39	17	22	0	18	11
01037	COBALT, TOTAL (UG/L AS CO)	9	9	0	0	9	9
01040	COPPER, DISSOLVED (UG/L AS CU)	37	24	10	3	14	4
01042	COPPER, TOTAL (UG/L AS CU)	49	27	22	0	17	10
01044	IRON, SUSPENDED (UG/L AS FE)	4	0	4	0	3	0
01045	IRON, TOTAL (UG/L AS FE)	36	2	26	8	14	6
01046	IRON, DISSOLVED (UG/L AS FE)	97	39	38	20	49	18
01049	LEAD, DISSOLVED (UG/L AS PB)	45	17	25	3	12	4
01051	LEAD, TOTAL (UG/L AS PB)	37	15	22	0	17	10
01054	MANGANESE, SUSPENDED (UG/L AS MN)	7	0	7	0	3	0
01055	MANGANESE, TOTAL (UG/L AS MN)	56	27	29	0	20	10
01056	MANGANESE, DISSOLVED (UG/L AS MN)	79	21	55	3	50	10
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	9	9	0	0	9	9
01065	NICKEL, DISSOLVED (UG/L AS NI)	9	2	6	1	3	2
01067	NICKEL, TOTAL (UG/L AS NI)	30	9	21	0	16	10
01075	SILVER, DISSOLVED (UG/L AS AG)	27	14	10	3	11	4
01077	SILVER, TOTAL (UG/L AS AG)	37	15	22	0	17	10
01085	VANADIUM, DISSOLVED (UG/L AS V)	25	0	25	0	25	0
01090	ZINC, DISSOLVED (UG/L AS ZN)	35	21	11	3	14	4
01092	ZINC, TOTAL (UG/L AS ZN)	49	27	22	0	17	10
01105	ALUMINUM, TOTAL (UG/L AS AL)	9	9	0	0	9	9
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	29	12	15	2	20	2
01145	SELENIUM, DISSOLVED (UG/L AS SE)	29	17	9	3	10	4
01147	SELENIUM, TOTAL (UG/L AS SE)	28	6	22	0	8	1
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	3	2	0	1	2	2
01501	ALPHA, TOTAL	7	1	6	0	2	1
09501	RADIUM 226, TOTAL	1	0	1	0	1	0
22703	URANIUM, NATURAL, DISSOLVED	25	0	25	0	25	0
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	11	4	7	0	6	0
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	22	0	22	0	5	0
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	34	0	34	0	15	15
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	61	4	57	0	8	0
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	19	0	19	0	5	0
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	56	0	56	0	19	14
31672	FECAL STREPTOCOCCI,PLATE COUNT M-ENTER AGAR,35C48	4	4	0	0	2	0
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	34	0	34	0	15	15
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	25	25	0	0	2	0
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	4	0	4	0	2	0
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	7	0	6	1	2	1
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	26	9	0	17	26	17
45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	9	9	0	0	9	9
46003	PHOSPHATE, TOTAL, FILTER PASSING (MG/L AS P)	1	0	0	1	1	1
46123	IRON, FERROUS, AS FE MG/L	8	8	0	0	8	8
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	23	0	23	0	23	0
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	23	0	23	0	23	0
50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	9	0	9	0	9	0
70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	9	9	0	0	9	9
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	163	98	59	6	26	7
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	35	0	23	12	27	12
70302	SOLIDS, DISSOLVED-TONS PER DAY	7	0	7	0	3	0
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	9	0	9	0	5	0
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	22	22	0	0	22	22
70324	SOLIDS, VOLATILE SUSPENDED IN MIXED LIQUOR (MG/L)	19	19	0	0	4	0
71830	HYDROXIDE ION (MG/L AS OH)	111	84	26	1	12	4
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	9	9	0	0	9	9
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	30	0	0	30	26	15
71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	9	9	0	0	9	9
71865	IODIDE (MG/L AS I)	9	9	0	0	9	9
71870	BROMIDE (MG/L AS BR)	9	9	0	0	9	9
71885	IRON (UG/L AS FE)	1	0	0	1	1	1
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	24	9	15	0	7	0
71890	MERCURY, DISSOLVED (UG/L AS HG)	23	17	4	2	9	3
71900	MERCURY, TOTAL (UG/L AS HG)	42	14	28	0	16	9
71910	GOLD, TOTAL (UG/L AS AU)	1	0	1	0	1	0
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	3	0	0	3	3	2

Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Parameter Code	Name	Total Obs	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	65	52	13	0	2	0
72025	DEPTH OF POND OR RESERVOIR IN FEET	4	0	4	0	2	0
74010	IRON, TOTAL (MG/L AS FE)	73	44	29	0	17	10
74070	FLOW GAL/SEC	24	0	0	24	24	13
74073	FLOW LITERS/MIN	33	33	0	0	33	33
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	7	0	7	0	3	0
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	7	0	7	0	3	0
82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	12	0	12	0	12	0
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	3	0	3	0	3	0
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	2	2	0	0	1	1
82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	9	9	0	0	9	9
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	13	0	13	0	13	0
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	26	0	24	2	21	7
84001	AQUIFER NAME CODE (SEE USGS CATALOG)	27	0	25	2	21	7

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0011	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/23/81-08/04/81	0	2	
BRCA0020	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	09/06/90-05/11/93	2	2	
BRCA0023	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/23/81-06/23/81	0	1	
BRCA0026	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/08/81-07/08/81	0	1	
BRCA0032	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/24/81-08/18/81	0	3	
BRCA0037	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/24/81-08/18/81	0	3	
BRCA0038	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/24/81-07/20/81	0	4	
BRCA0063	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/23/81-08/18/81	0	3	
BRCA0064	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/23/81-06/23/81	0	1	
BRCA0066	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/21/87-05/22/97	10	25	
BRCA0068	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/24/81-08/18/81	0	3	
BRCA0073	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/23/81-08/18/81	0	4	
BRCA0078	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	08/04/81-08/04/81	0	1	
BRCA0079	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/23/81-08/18/81	0	5	
BRCA0085	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/20/79-08/12/97	18	14	
BRCA0092	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/20/79-06/20/79	0	1	
BRCA0094	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/20/79-06/03/93	13	9	
BRCA0095	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/08/75-09/25/75	0	2	
BRCA0101	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/20/81-07/20/81	0	1	
BRCA0113	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/20/79-08/12/97	18	40	
BRCA0118	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	08/14/75-09/25/75	0	5	
BRCA0123	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/20/79-08/14/90	11	5	
BRCA0137	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/24/81-06/24/81	0	1	
BRCA0143	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/08/81-07/08/81	0	1	
BRCA0155	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/30/98-06/09/98	0	3	
BRCA0162	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/26/93-05/22/97	4	15	
BRCA0001	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/80-07/05/80	0	1	
BRCA0002	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/30/81-05/24/82	0	2	
BRCA0003	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/80-07/06/80	0	1	
BRCA0004	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/77-07/07/77	0	1	
BRCA0005	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/28/81-05/22/82	0	2	
BRCA0006	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	0	1	
BRCA0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/77-07/07/77	0	1	
BRCA0008	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/80-07/05/80	0	1	
BRCA0009	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/80-07/06/80	0	1	
BRCA0010	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/80-07/06/80	0	1	
BRCA0012	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/12/96-07/12/96	0	1	
BRCA0013	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	0	1	
BRCA0014	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/12/96-07/12/96	0	1	
BRCA0015	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/01/77-07/25/79	2	5	
BRCA0016	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	0	1	
BRCA0017	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	0	1	
BRCA0018	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/77-07/25/79	2	8	
BRCA0020	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/93-05/11/93	0	1	
BRCA0021	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/81-10/22/81	0	2	
BRCA0022	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/96-07/26/96	0	1	
BRCA0024	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/96-07/26/96	0	1	
BRCA0027	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/23/81-05/23/82	1	3	
BRCA0028	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/05/96-08/05/96	0	1	
BRCA0031	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/05/96-08/05/96	0	1	
BRCA0033	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	0	1	
BRCA0034	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	0	1	
BRCA0035	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/09/96-07/09/96	0	1	
BRCA0036	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/09/96-07/09/96	0	1	
BRCA0039	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/80-07/22/80	0	1	
BRCA0041	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/96-07/29/96	0	1	
BRCA0045	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/15/80-07/15/80	0	1	
BRCA0047	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/30/96-07/30/96	0	1	
BRCA0048	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	0	1	
BRCA0049	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/96-07/23/96	0	1	
BRCA0051	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	0	1	
BRCA0052	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/81-09/23/82	1	3	
BRCA0057	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/80-07/22/80	0	1	
BRCA0059	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/15/80-07/15/80	0	1	
BRCA0060	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/15/80-07/15/80	0	1	
BRCA0062	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/20/57-05/20/57	0	1	
BRCA0065	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/19/71-08/20/91	20	119	
BRCA0066	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/87-05/22/97	9	19	
BRCA0070	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/18/96-06/18/96	0	1	
BRCA0071	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/81-10/22/81	0	1	
BRCA0074	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/80-07/22/80	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0075	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	0	1	
BRCA0076	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/81-05/23/82	0	2	
BRCA0077	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/28/96-06/28/96	0	1	
BRCA0085	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/77-08/12/97	20	25	
BRCA0087	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/19/81-08/19/81	0	1	
BRCA0090	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/77-07/25/79	2	9	
BRCA0092	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/79-08/17/88	9	4	
BRCA0093	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/81-08/25/81	0	2	
BRCA0094	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/79-06/03/93	13	13	
BRCA0095	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/08/75-09/25/75	0	2	
BRCA0096	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/81-10/21/81	0	1	
BRCA0100	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/11/80-07/11/80	0	1	
BRCA0103	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/96-07/02/96	0	1	
BRCA0104	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/81-10/18/81	0	1	
BRCA0107	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/77-07/25/79	2	6	
BRCA0109	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/81-10/18/81	0	1	
BRCA0110	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/81-05/23/82	0	3	
BRCA0111	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/80-07/22/80	0	1	
BRCA0113	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/79-08/12/97	18	49	
BRCA0115	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/77-08/12/77	0	2	
BRCA0116	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/80-07/22/80	0	1	
BRCA0117	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/68-05/21/68	0	1	
BRCA0118	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/14/75-09/25/75	0	5	
BRCA0120	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/77-10/28/77	0	6	
BRCA0123	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/79-08/14/90	11	7	
BRCA0129	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/04/96-07/04/96	0	1	
BRCA0130	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/80-07/18/80	0	1	
BRCA0132	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/68-05/21/68	0	1	
BRCA0133	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/15/81-11/15/81	0	1	
BRCA0136	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/96-06/26/96	0	1	
BRCA0139	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/81-10/21/81	0	1	
BRCA0147	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/81-10/18/81	0	1	
BRCA0149	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/96-06/12/96	0	1	
BRCA0151	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/96-06/11/96	0	1	
BRCA0152	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/96-06/11/96	0	1	
BRCA0154	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/96-06/11/96	0	1	
BRCA0155	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/98-06/09/98	0	3	
BRCA0161	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/81-03/02/82	0	2	
BRCA0162	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/93-05/22/97	4	14	
BRCA0163	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/12/80-07/12/80	0	1	
BRCA0015	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	06/05/75-10/06/76	1	10	
BRCA0018	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	06/05/75-10/06/76	1	10	
BRCA0032	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/81-08/18/81	0	1	
BRCA0037	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/81-08/18/81	0	1	
BRCA0043	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/03/64-08/03/64	0	1	
BRCA0044	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/13/64-08/13/64	0	1	
BRCA0050	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/19/68-08/19/68	0	1	
BRCA0055	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/68-08/18/68	0	1	
BRCA0063	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/81-08/18/81	0	1	
BRCA0068	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/81-08/18/81	0	1	
BRCA0069	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/68-08/18/68	0	1	
BRCA0073	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/81-08/18/81	0	1	
BRCA0079	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/81-08/18/81	0	1	
BRCA0090	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	06/05/75-10/06/76	1	10	
BRCA0098	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/13/68-08/13/68	0	1	
BRCA0099	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/13/68-08/13/68	0	1	
BRCA0102	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/13/68-08/13/68	0	1	
BRCA0105	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/09/68-08/09/68	0	1	
BRCA0107	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/26/76-08/20/76	0	4	
BRCA0115	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	06/05/75-09/28/76	1	8	
BRCA0119	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/17/68-08/17/68	0	1	
BRCA0120	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	07/10/74-10/06/76	2	10	
BRCA0121	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/15/68-08/15/68	0	1	
BRCA0124	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/10/68-08/10/68	0	1	
BRCA0125	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/10/68-08/10/68	0	1	
BRCA0126	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/10/68-08/10/68	0	1	
BRCA0127	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/10/68-08/10/68	0	1	
BRCA0131	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/12/68-08/12/68	0	1	
BRCA0134	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/18/57-05/18/57	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0135	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/15/68-08/15/68	0	1	
BRCA0138	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/20/68-08/20/68	0	1	
BRCA0141	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/19/68-08/19/68	0	1	
BRCA0148	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/11/68-08/11/68	0	1	
BRCA0150	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/11/68-08/11/68	0	1	
BRCA0153	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/11/68-08/11/68	0	1	
BRCA0157	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/21/68-08/21/68	0	1	
BRCA0158	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/20/68-08/20/68	0	1	
BRCA0160	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/20/68-08/20/68	0	1	
BRCA0012	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/12/96-07/12/96	0	1	
BRCA0019	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/24/96-07/24/96	0	1	
BRCA0020	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/11/93-05/11/93	0	1	
BRCA0022	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/26/96-07/26/96	0	1	
BRCA0024	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/26/96-07/26/96	0	1	
BRCA0025	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/12/96-07/12/96	0	1	
BRCA0028	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/05/96-08/05/96	0	1	
BRCA0029	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/96-07/31/96	0	1	
BRCA0030	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/96-07/31/96	0	1	
BRCA0031	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/05/96-08/05/96	0	1	
BRCA0035	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/09/96-07/09/96	0	1	
BRCA0036	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/29/96-07/29/96	0	1	
BRCA0042	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/29/96-07/29/96	0	1	
BRCA0046	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/30/96-07/30/96	0	1	
BRCA0047	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/30/96-07/30/96	0	1	
BRCA0049	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/96-07/23/96	0	1	
BRCA0053	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/07/96-07/07/96	0	1	
BRCA0054	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/06/96-07/06/96	0	1	
BRCA0058	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/18/96-06/18/96	0	1	
BRCA0065	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/03/87-07/19/91	3	31	
BRCA0066	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/11/93-05/11/93	0	1	
BRCA0070	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/18/96-06/18/96	0	1	
BRCA0072	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/01/96-07/01/96	0	1	
BRCA0077	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/28/96-06/28/96	0	1	
BRCA0085	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/13/91-08/13/91	0	1	
BRCA0103	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/96-07/02/96	0	1	
BRCA0113	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/13/91-08/13/91	0	2	
BRCA0129	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/04/96-07/04/96	0	1	
BRCA0136	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/26/96-06/26/96	0	1	
BRCA0145	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/12/96-06/12/96	0	1	
BRCA0149	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/12/96-06/12/96	0	1	
BRCA0151	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/11/96-06/11/96	0	1	
BRCA0152	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/11/96-06/11/96	0	1	
BRCA0154	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/11/96-06/11/96	0	1	
BRCA0162	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/15/93-06/01/93	0	2	
BRCA0002	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/24/82-05/24/82	0	1	
BRCA0005	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/22/82-05/22/82	0	1	
BRCA0021	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/22/81-10/22/81	0	1	
BRCA0027	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/23/82-05/23/82	0	1	
BRCA0052	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/23/82-09/23/82	0	2	
BRCA0065	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/01/81-08/20/91	9	52	
BRCA0071	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/22/81-10/22/81	0	1	
BRCA0076	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	05/23/82-05/23/82	0	1	
BRCA0096	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/21/81-10/21/81	0	1	
BRCA0104	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/18/81-10/18/81	0	1	
BRCA0109	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/18/81-10/18/81	0	1	
BRCA0110	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	09/23/81-05/23/82	0	2	
BRCA0133	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	11/15/81-11/15/81	0	1	
BRCA0139	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/21/81-10/21/81	0	1	
BRCA0147	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/18/81-10/18/81	0	1	
BRCA0161	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/02/82-03/02/82	0	1	
BRCA0002	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/30/81-05/24/82	0	2	
BRCA0005	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/28/81-05/22/82	0	2	
BRCA0021	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/22/81-10/22/81	0	1	
BRCA0027	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/23/81-05/23/82	1	3	
BRCA0052	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/24/81-09/23/82	1	3	
BRCA0065	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/01/81-08/20/91	9	52	
BRCA0071	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/22/81-10/22/81	0	1	
BRCA0076	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/24/81-05/23/82	0	2	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0087	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	08/19/81-08/19/81	0	1	
BRCA0093	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/21/81-08/25/81	0	2	
BRCA0096	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/21/81-10/21/81	0	1	
BRCA0104	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/18/81-10/18/81	0	1	
BRCA0109	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/18/81-10/18/81	0	1	
BRCA0110	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/24/81-05/23/82	0	3	
BRCA0133	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/15/81-11/15/81	0	1	
BRCA0139	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/21/81-10/21/81	0	1	
BRCA0147	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/18/81-10/18/81	0	1	
BRCA0161	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/21/81-03/02/82	0	2	
BRCA0002	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	07/30/81-05/24/82	0	2	
BRCA0005	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	07/28/81-05/22/82	0	2	
BRCA0021	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/22/81-10/22/81	0	1	
BRCA0052	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	07/24/81-05/23/82	0	2	
BRCA0067	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	06/20/58-06/20/58	0	1	
BRCA0071	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/22/81-10/22/81	0	1	
BRCA0076	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	07/24/81-05/23/82	0	2	
BRCA0082	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	06/20/58-09/16/60	2	6	
BRCA0087	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	08/19/81-08/19/81	0	1	
BRCA0096	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/21/81-10/21/81	0	1	
BRCA0097	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	06/21/58-06/21/58	0	1	
BRCA0104	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/18/81-10/18/81	0	1	
BRCA0109	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/18/81-10/18/81	0	1	
BRCA0110	No	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	07/24/81-05/23/82	0	2	
BRCA0133	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	11/15/81-11/15/81	0	1	
BRCA0134	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	06/21/58-06/21/58	0	1	
BRCA0139	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/21/81-10/21/81	0	1	
BRCA0147	Yes	00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/18/81-10/18/81	0	1	
BRCA0065	No	00060	FLOW, STREAM, MEAN DAILY CFS	08/19/71-08/27/74	3	18	
BRCA0020	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	05/11/93-05/11/93	0	1	
BRCA0027	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/23/81-05/23/82	1	3	
BRCA0065	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	16	106	
BRCA0066	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/11/87-05/22/97	9	12	
BRCA0085	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	03/23/77-08/12/97	20	13	
BRCA0092	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/20/79-08/17/88	9	4	
BRCA0093	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/21/81-08/25/81	0	2	
BRCA0123	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	06/20/79-08/14/90	11	6	
BRCA0155	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/30/98-05/19/98	0	2	
BRCA0161	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/21/81-03/02/82	0	2	
BRCA0162	No	00061	FLOW, STREAM, INSTANTANEOUS CFS	04/26/93-05/22/97	4	12	
BRCA0015	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/05/75-09/30/75	0	5	
BRCA0018	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/05/75-09/30/75	0	5	
BRCA0090	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/05/75-09/30/75	0	5	
BRCA0115	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/05/75-09/30/75	0	5	
BRCA0120	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/10/74-09/30/75	1	6	
BRCA0142	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	03/09/74-03/09/74	0	1	
BRCA0095	No	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	09/25/75-09/25/75	0	1	
BRCA0118	No	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	08/14/75-09/25/75	0	5	
BRCA0015	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/26/76-07/25/79	3	10	
BRCA0018	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/26/76-07/25/79	3	13	
BRCA0020	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/06/90-05/11/93	2	2	
BRCA0066	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/21/87-05/22/97	10	19	
BRCA0085	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/19/77-06/11/97	20	17	
BRCA0090	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/26/76-07/25/79	3	14	
BRCA0092	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/79-08/17/88	9	4	
BRCA0094	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/03/81-06/03/93	11	11	
BRCA0107	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/26/76-07/25/79	3	10	
BRCA0108	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/12/80-11/30/83	3	3	
BRCA0113	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/79-08/12/97	18	31	T,S
BRCA0115	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/27/76-08/12/77	1	5	
BRCA0120	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/26/76-10/28/77	1	10	
BRCA0123	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/79-08/17/88	9	6	
BRCA0144	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/11/80-06/08/85	5	2	
BRCA0155	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/30/98-06/09/98	0	3	
BRCA0162	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/04/96-05/22/97	1	11	
BRCA0095	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/08/75-09/25/75	0	2	
BRCA0118	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/14/75-09/25/75	0	2	
BRCA0094	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/20/79-06/03/93	13	6	
BRCA0113	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/20/79-08/12/97	18	16	S
BRCA0012	Yes	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/12/96-07/12/96	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0014	Yes	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	06/28/96-06/28/96	0	1	
BRCA0103	Yes	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/02/96-07/02/96	0	1	
BRCA0012	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/12/96-07/12/96	0	1	
BRCA0015	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/05/75-07/25/79	4	15	
BRCA0018	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/05/75-07/25/79	4	18	
BRCA0020	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/06/90-09/06/90	0	1	
BRCA0022	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/26/96-07/26/96	0	1	
BRCA0024	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/26/96-07/26/96	0	1	
BRCA0028	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/05/96-08/05/96	0	1	
BRCA0031	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/05/96-08/05/96	0	1	
BRCA0035	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/09/96-07/09/96	0	1	
BRCA0036	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/29/96-07/29/96	0	1	
BRCA0047	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/30/96-07/30/96	0	1	
BRCA0049	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/96-07/23/96	0	1	
BRCA0066	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/87-05/22/97	9	18	
BRCA0070	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/28/96-06/28/96	0	1	
BRCA0085	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/14/78-08/12/97	19	18	S
BRCA0090	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/05/75-07/25/79	4	19	
BRCA0092	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/20/79-08/17/88	9	4	
BRCA0094	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/20/79-06/03/93	13	13	
BRCA0095	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/08/75-09/25/75	0	2	
BRCA0103	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/96-07/02/96	0	1	
BRCA0107	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/26/76-07/25/79	3	10	
BRCA0113	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/20/79-08/12/97	18	49	T,S
BRCA0115	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/05/75-08/12/77	2	10	
BRCA0118	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/14/75-09/25/75	0	5	
BRCA0120	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/10/74-10/28/77	3	16	
BRCA0123	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/20/79-08/14/90	11	7	
BRCA0129	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/04/96-07/04/96	0	1	
BRCA0136	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/26/96-06/26/96	0	1	
BRCA0149	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/12/96-06/12/96	0	1	
BRCA0151	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/96-06/11/96	0	1	
BRCA0152	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/96-06/11/96	0	1	
BRCA0154	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/96-06/11/96	0	1	
BRCA0155	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/30/98-06/09/98	0	3	
BRCA0162	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/26/93-05/22/97	4	13	
BRCA0001	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/80-07/05/80	0	1	
BRCA0002	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/30/81-05/24/82	0	2	
BRCA0003	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/80-07/06/80	0	1	
BRCA0004	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/07/77-07/07/77	0	1	
BRCA0005	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/28/81-05/22/82	0	2	
BRCA0006	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	0	1	
BRCA0007	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/07/77-07/07/77	0	1	
BRCA0008	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/80-07/05/80	0	1	
BRCA0009	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/80-07/06/80	0	1	
BRCA0010	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/80-07/06/80	0	1	
BRCA0012	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/12/96-07/12/96	0	1	
BRCA0013	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	0	1	
BRCA0014	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/12/96-07/12/96	0	1	
BRCA0016	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	0	1	
BRCA0017	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	0	1	
BRCA0020	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/06/90-05/11/93	2	2	
BRCA0021	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/22/81-10/22/81	0	1	
BRCA0027	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/23/81-05/23/82	1	3	
BRCA0033	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	0	1	
BRCA0034	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	0	1	
BRCA0036	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/09/96-07/09/96	0	1	
BRCA0039	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/22/80-07/22/80	0	1	
BRCA0041	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/29/96-07/29/96	0	1	
BRCA0045	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM 25C)	07/15/80-07/15/80	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0048	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	0	1	
BRCA0051	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	0	1	
BRCA0052	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/81-09/23/82	1	3	
BRCA0056	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/14/57-10/14/57	0	1	
BRCA0057	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/22/80-07/22/80	0	1	
BRCA0059	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/15/80-07/15/80	0	1	
BRCA0060	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/15/80-07/15/80	0	1	
BRCA0062	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/20/57-05/20/57	0	1	
BRCA0065	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/71-08/20/91	20	113	T,S
BRCA0066	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/21/87-05/22/97	10	19	
BRCA0067	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/14/57-10/14/57	0	1	
BRCA0070	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/18/96-06/18/96	0	1	
BRCA0071	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/22/81-10/22/81	0	1	
BRCA0074	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/22/80-07/22/80	0	1	
BRCA0075	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	0	1	
BRCA0076	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/81-05/23/82	0	2	
BRCA0077	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/28/96-06/28/96	0	1	
BRCA0082	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/21/57-06/21/57	0	1	
BRCA0083	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/02/70-09/02/70	0	1	
BRCA0085	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/19/77-06/11/97	20	22	T,S
BRCA0087	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/81-08/19/81	0	1	
BRCA0092	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/20/79-08/17/88	9	4	
BRCA0093	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/21/81-08/25/81	0	2	
BRCA0094	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/03/81-06/14/90	8	10	
BRCA0096	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/21/81-10/21/81	0	1	
BRCA0097	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/18/57-05/18/57	0	1	
BRCA0100	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/11/80-07/11/80	0	1	
BRCA0103	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/02/96-07/02/96	0	1	
BRCA0104	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/81-10/18/81	0	1	
BRCA0108	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/12/80-11/30/83	3	3	
BRCA0109	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/81-10/18/81	0	1	
BRCA0110	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/81-05/23/82	0	3	
BRCA0111	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/22/80-07/22/80	0	1	
BRCA0113	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/20/79-06/14/90	10	19	S
BRCA0116	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/22/80-07/22/80	0	1	
BRCA0117	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/21/68-05/21/68	0	1	
BRCA0123	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/20/79-08/17/88	9	6	
BRCA0130	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/18/80-07/18/80	0	1	
BRCA0132	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/21/68-05/21/68	0	1	
BRCA0133	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/81-11/15/81	0	1	
BRCA0134	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/18/57-05/18/57	0	1	
BRCA0139	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/21/81-10/21/81	0	1	
BRCA0140	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/74-03/09/74	0	1	
BRCA0144	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/11/80-03/11/80	0	1	
BRCA0146	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/81-10/18/81	0	1	
BRCA0147	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/81-10/18/81	0	1	
BRCA0155	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/98-06/09/98	0	3	
BRCA0161	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/21/81-03/02/82	0	2	
BRCA0162	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/96-05/22/97	1	11	
BRCA0163	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/12/80-07/12/80	0	1	
BRCA0011	Yes	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	06/23/81-08/04/81	0	2	
BRCA0023	Yes	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	06/23/81-06/23/81	0	1	
BRCA0032	Yes	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	06/24/81-07/20/81	0	2	
BRCA0037	Yes	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	06/24/81-07/20/81	0	2	
BRCA0038	Yes	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	06/24/81-07/20/81	0	4	
BRCA0063	Yes	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	06/23/81-07/20/81	0	2	
BRCA0064	Yes	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	06/23/81-06/23/81	0	1	
BRCA0068	Yes	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	06/24/81-08/18/81	0	3	
BRCA0073	Yes	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	06/23/81-07/20/81	0	3	
BRCA0078	Yes	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	08/04/81-08/04/81	0	1	
BRCA0079	Yes	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	06/23/81-08/18/81	0	4	
BRCA0137	Yes	00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	06/24/81-06/24/81	0	1	
BRCA0015	No	00300	OXYGEN, DISSOLVED MG/L	06/05/75-07/25/79	4	15	
BRCA0018	No	00300	OXYGEN, DISSOLVED MG/L	06/05/75-07/25/79	4	18	
BRCA0066	No	00300	OXYGEN, DISSOLVED MG/L	06/11/87-05/22/97	9	17	
BRCA0085	No	00300	OXYGEN, DISSOLVED MG/L	03/23/77-08/12/97	20	25	T,S
BRCA0090	No	00300	OXYGEN, DISSOLVED MG/L	06/05/75-07/25/79	4	19	
BRCA0092	No	00300	OXYGEN, DISSOLVED MG/L	06/20/79-08/17/88	9	4	

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Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0094	No	00300	OXYGEN, DISSOLVED MG/L	06/20/79-06/03/93	13	13	
BRCA0095	No	00300	OXYGEN, DISSOLVED MG/L	05/08/75-09/25/75	0	2	
BRCA0107	No	00300	OXYGEN, DISSOLVED MG/L	05/26/76-07/25/79	3	10	
BRCA0113	No	00300	OXYGEN, DISSOLVED MG/L	06/20/79-08/12/97	18	49	T,S
BRCA0115	No	00300	OXYGEN, DISSOLVED MG/L	06/05/75-08/12/77	2	10	
BRCA0118	No	00300	OXYGEN, DISSOLVED MG/L	08/14/75-09/25/75	0	3	
BRCA0120	No	00300	OXYGEN, DISSOLVED MG/L	06/05/75-10/28/77	2	14	
BRCA0123	No	00300	OXYGEN, DISSOLVED MG/L	06/20/79-08/14/90	11	7	
BRCA0155	Yes	00300	OXYGEN, DISSOLVED MG/L	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00300	OXYGEN, DISSOLVED MG/L	04/30/98-06/09/98	0	3	
BRCA0162	No	00300	OXYGEN, DISSOLVED MG/L	05/15/93-05/22/97	4	13	
BRCA0085	No	00310	BOD, 5 DAY, 20 DEG C MG/L	01/19/77-08/23/78	1	10	
BRCA0020	No	00335	COD, .025N K2CR2O7 MG/L	09/06/90-09/06/90	0	1	
BRCA0066	No	00335	COD, .025N K2CR2O7 MG/L	05/21/87-09/06/90	3	4	
BRCA0085	No	00335	COD, .025N K2CR2O7 MG/L	01/19/77-08/14/90	13	12	
BRCA0092	No	00335	COD, .025N K2CR2O7 MG/L	06/20/79-08/17/88	9	2	
BRCA0094	No	00335	COD, .025N K2CR2O7 MG/L	06/20/79-02/14/89	9	7	
BRCA0113	No	00335	COD, .025N K2CR2O7 MG/L	06/20/79-08/15/90	11	9	
BRCA0123	No	00335	COD, .025N K2CR2O7 MG/L	06/20/79-08/14/90	11	4	
BRCA0001	No	00400	PH (STANDARD UNITS)	07/05/80-07/05/80	0	1	
BRCA0002	No	00400	PH (STANDARD UNITS)	07/30/81-05/24/82	0	2	
BRCA0003	No	00400	PH (STANDARD UNITS)	07/06/80-07/06/80	0	1	
BRCA0004	No	00400	PH (STANDARD UNITS)	07/07/77-07/07/77	0	1	
BRCA0005	No	00400	PH (STANDARD UNITS)	07/28/81-05/22/82	0	2	
BRCA0006	No	00400	PH (STANDARD UNITS)	07/14/80-07/14/80	0	1	
BRCA0007	No	00400	PH (STANDARD UNITS)	07/07/77-07/07/77	0	1	
BRCA0008	No	00400	PH (STANDARD UNITS)	07/05/80-07/05/80	0	1	
BRCA0009	No	00400	PH (STANDARD UNITS)	07/06/80-07/06/80	0	1	
BRCA0010	No	00400	PH (STANDARD UNITS)	07/06/80-07/06/80	0	1	
BRCA0013	No	00400	PH (STANDARD UNITS)	07/14/80-07/14/80	0	1	
BRCA0015	No	00400	PH (STANDARD UNITS)	06/05/75-07/25/79	4	15	
BRCA0016	No	00400	PH (STANDARD UNITS)	07/14/80-07/14/80	0	1	
BRCA0017	No	00400	PH (STANDARD UNITS)	07/14/80-07/14/80	0	1	
BRCA0018	No	00400	PH (STANDARD UNITS)	06/05/75-07/25/79	4	18	
BRCA0020	No	00400	PH (STANDARD UNITS)	09/06/90-05/11/93	2	2	
BRCA0021	Yes	00400	PH (STANDARD UNITS)	10/22/81-10/22/81	0	1	
BRCA0027	No	00400	PH (STANDARD UNITS)	04/23/81-05/23/82	1	3	
BRCA0033	No	00400	PH (STANDARD UNITS)	07/14/80-07/14/80	0	1	
BRCA0034	No	00400	PH (STANDARD UNITS)	07/14/80-07/14/80	0	1	
BRCA0039	No	00400	PH (STANDARD UNITS)	07/22/80-07/22/80	0	1	
BRCA0044	No	00400	PH (STANDARD UNITS)	08/13/64-08/13/64	0	1	
BRCA0045	No	00400	PH (STANDARD UNITS)	07/15/80-07/15/80	0	1	
BRCA0048	No	00400	PH (STANDARD UNITS)	07/14/80-07/14/80	0	1	
BRCA0051	No	00400	PH (STANDARD UNITS)	07/14/80-07/14/80	0	1	
BRCA0052	Yes	00400	PH (STANDARD UNITS)	07/24/81-09/23/82	1	3	
BRCA0055	No	00400	PH (STANDARD UNITS)	08/18/68-08/18/68	0	1	
BRCA0056	No	00400	PH (STANDARD UNITS)	10/14/57-10/14/57	0	1	
BRCA0057	No	00400	PH (STANDARD UNITS)	07/22/80-07/22/80	0	1	
BRCA0059	No	00400	PH (STANDARD UNITS)	07/15/80-07/15/80	0	1	
BRCA0060	No	00400	PH (STANDARD UNITS)	07/15/80-07/15/80	0	1	
BRCA0061	Yes	00400	PH (STANDARD UNITS)	09/29/56-09/29/56	0	1	
BRCA0062	Yes	00400	PH (STANDARD UNITS)	11/09/56-05/20/57	0	2	
BRCA0066	No	00400	PH (STANDARD UNITS)	06/11/87-05/22/97	9	19	
BRCA0067	Yes	00400	PH (STANDARD UNITS)	10/14/57-10/14/57	0	1	
BRCA0071	Yes	00400	PH (STANDARD UNITS)	10/22/81-10/22/81	0	1	
BRCA0074	No	00400	PH (STANDARD UNITS)	07/22/80-07/22/80	0	1	
BRCA0075	No	00400	PH (STANDARD UNITS)	07/14/80-07/14/80	0	1	
BRCA0076	No	00400	PH (STANDARD UNITS)	07/24/81-05/23/82	0	2	
BRCA0082	Yes	00400	PH (STANDARD UNITS)	11/07/56-06/21/57	0	2	
BRCA0083	Yes	00400	PH (STANDARD UNITS)	09/02/70-09/02/70	0	1	
BRCA0085	No	00400	PH (STANDARD UNITS)	03/23/77-08/12/97	20	25	T,S
BRCA0087	No	00400	PH (STANDARD UNITS)	08/19/81-08/19/81	0	1	
BRCA0090	No	00400	PH (STANDARD UNITS)	06/05/75-07/25/79	4	19	
BRCA0092	No	00400	PH (STANDARD UNITS)	06/20/79-08/17/88	9	4	
BRCA0093	No	00400	PH (STANDARD UNITS)	04/21/81-08/25/81	0	2	
BRCA0094	No	00400	PH (STANDARD UNITS)	06/20/79-06/03/93	13	13	
BRCA0095	No	00400	PH (STANDARD UNITS)	05/08/75-09/25/75	0	2	
BRCA0096	No	00400	PH (STANDARD UNITS)	10/21/81-10/21/81	0	1	
BRCA0097	No	00400	PH (STANDARD UNITS)	10/28/56-05/18/57	0	2	
BRCA0098	Yes	00400	PH (STANDARD UNITS)	08/13/68-08/13/68	0	1	
BRCA0100	No	00400	PH (STANDARD UNITS)	07/11/80-07/11/80	0	1	
BRCA0104	No	00400	PH (STANDARD UNITS)	10/18/81-10/18/81	0	1	

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Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0105	No	00400	PH (STANDARD UNITS)	08/09/68-08/09/68	0	1	
BRCA0106	No	00400	PH (STANDARD UNITS)	08/14/67-08/14/67	0	1	
BRCA0107	No	00400	PH (STANDARD UNITS)	05/26/76-07/25/79	3	10	
BRCA0109	No	00400	PH (STANDARD UNITS)	10/18/81-10/18/81	0	1	
BRCA0110	No	00400	PH (STANDARD UNITS)	07/24/81-05/23/82	0	3	
BRCA0111	No	00400	PH (STANDARD UNITS)	07/22/80-07/22/80	0	1	
BRCA0113	No	00400	PH (STANDARD UNITS)	06/20/79-08/12/97	18	47	T,S
BRCA0115	No	00400	PH (STANDARD UNITS)	06/05/75-08/12/77	2	10	
BRCA0116	No	00400	PH (STANDARD UNITS)	07/22/80-07/22/80	0	1	
BRCA0117	No	00400	PH (STANDARD UNITS)	05/21/68-05/21/68	0	1	
BRCA0118	No	00400	PH (STANDARD UNITS)	08/14/75-09/25/75	0	5	
BRCA0119	No	00400	PH (STANDARD UNITS)	08/17/68-08/17/68	0	1	
BRCA0120	No	00400	PH (STANDARD UNITS)	07/10/74-10/28/77	3	16	
BRCA0121	No	00400	PH (STANDARD UNITS)	08/15/68-08/15/68	0	1	
BRCA0123	No	00400	PH (STANDARD UNITS)	06/20/79-08/14/90	11	7	
BRCA0124	No	00400	PH (STANDARD UNITS)	08/10/68-08/10/68	0	1	
BRCA0125	No	00400	PH (STANDARD UNITS)	08/10/68-08/10/68	0	1	
BRCA0126	No	00400	PH (STANDARD UNITS)	08/10/68-08/10/68	0	1	
BRCA0127	Yes	00400	PH (STANDARD UNITS)	08/10/68-08/10/68	0	1	
BRCA0130	No	00400	PH (STANDARD UNITS)	07/18/80-07/18/80	0	1	
BRCA0131	Yes	00400	PH (STANDARD UNITS)	08/12/68-08/12/68	0	1	
BRCA0132	Yes	00400	PH (STANDARD UNITS)	05/21/68-05/21/68	0	1	
BRCA0133	Yes	00400	PH (STANDARD UNITS)	11/15/81-11/15/81	0	1	
BRCA0134	Yes	00400	PH (STANDARD UNITS)	10/05/56-05/18/57	0	2	
BRCA0135	Yes	00400	PH (STANDARD UNITS)	08/15/68-08/15/68	0	1	
BRCA0139	Yes	00400	PH (STANDARD UNITS)	10/21/81-10/21/81	0	1	
BRCA0141	Yes	00400	PH (STANDARD UNITS)	08/19/68-08/19/68	0	1	
BRCA0142	Yes	00400	PH (STANDARD UNITS)	03/09/74-03/09/74	0	1	
BRCA0147	Yes	00400	PH (STANDARD UNITS)	10/18/81-10/18/81	0	1	
BRCA0148	Yes	00400	PH (STANDARD UNITS)	08/11/68-08/11/68	0	1	
BRCA0155	Yes	00400	PH (STANDARD UNITS)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00400	PH (STANDARD UNITS)	04/30/98-06/09/98	0	3	
BRCA0157	Yes	00400	PH (STANDARD UNITS)	08/21/68-08/21/68	0	1	
BRCA0160	Yes	00400	PH (STANDARD UNITS)	08/20/68-08/20/68	0	1	
BRCA0161	No	00400	PH (STANDARD UNITS)	04/21/81-03/02/82	0	2	
BRCA0162	No	00400	PH (STANDARD UNITS)	05/15/93-05/22/97	4	13	
BRCA0163	No	00400	PH (STANDARD UNITS)	07/12/80-07/12/80	0	1	
BRCA0002	No	00403	PH, LAB, STANDARD UNITS SU	07/30/81-05/24/82	0	2	
BRCA0005	No	00403	PH, LAB, STANDARD UNITS SU	07/28/81-05/22/82	0	2	
BRCA0012	Yes	00403	PH, LAB, STANDARD UNITS SU	07/12/96-07/12/96	0	1	
BRCA0014	Yes	00403	PH, LAB, STANDARD UNITS SU	07/12/96-07/12/96	0	1	
BRCA0020	No	00403	PH, LAB, STANDARD UNITS SU	09/06/90-05/11/93	2	2	
BRCA0021	Yes	00403	PH, LAB, STANDARD UNITS SU	10/22/81-10/22/81	0	1	
BRCA0027	No	00403	PH, LAB, STANDARD UNITS SU	04/23/81-05/23/82	1	3	
BRCA0036	Yes	00403	PH, LAB, STANDARD UNITS SU	07/09/96-07/09/96	0	1	
BRCA0041	Yes	00403	PH, LAB, STANDARD UNITS SU	07/29/96-07/29/96	0	1	
BRCA0052	Yes	00403	PH, LAB, STANDARD UNITS SU	07/24/81-05/23/82	0	2	
BRCA0066	No	00403	PH, LAB, STANDARD UNITS SU	05/21/87-05/22/97	10	19	
BRCA0070	Yes	00403	PH, LAB, STANDARD UNITS SU	06/18/96-06/18/96	0	1	
BRCA0071	Yes	00403	PH, LAB, STANDARD UNITS SU	10/22/81-10/22/81	0	1	
BRCA0076	No	00403	PH, LAB, STANDARD UNITS SU	07/24/81-05/23/82	0	2	
BRCA0077	Yes	00403	PH, LAB, STANDARD UNITS SU	06/18/96-06/18/96	0	1	
BRCA0080	Yes	00403	PH, LAB, STANDARD UNITS SU	06/28/96-06/28/96	0	1	
BRCA0081	Yes	00403	PH, LAB, STANDARD UNITS SU	06/28/96-06/28/96	0	1	
BRCA0085	No	00403	PH, LAB, STANDARD UNITS SU	01/19/77-06/11/97	20	20	T
BRCA0087	No	00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	0	1	
BRCA0092	No	00403	PH, LAB, STANDARD UNITS SU	06/20/79-08/17/88	9	4	
BRCA0093	No	00403	PH, LAB, STANDARD UNITS SU	04/21/81-08/25/81	0	2	
BRCA0094	No	00403	PH, LAB, STANDARD UNITS SU	06/11/87-06/14/90	3	8	
BRCA0096	No	00403	PH, LAB, STANDARD UNITS SU	10/21/81-10/21/81	0	1	
BRCA0103	Yes	00403	PH, LAB, STANDARD UNITS SU	07/02/96-07/02/96	0	1	
BRCA0104	No	00403	PH, LAB, STANDARD UNITS SU	10/18/81-10/18/81	0	1	
BRCA0108	No	00403	PH, LAB, STANDARD UNITS SU	03/12/80-11/30/83	3	3	
BRCA0109	No	00403	PH, LAB, STANDARD UNITS SU	10/18/81-10/18/81	0	1	
BRCA0110	No	00403	PH, LAB, STANDARD UNITS SU	07/24/81-05/23/82	0	2	
BRCA0113	No	00403	PH, LAB, STANDARD UNITS SU	06/20/79-08/12/97	18	24	T,S
BRCA0123	No	00403	PH, LAB, STANDARD UNITS SU	06/20/79-08/17/88	9	5	
BRCA0133	Yes	00403	PH, LAB, STANDARD UNITS SU	11/15/81-11/15/81	0	1	
BRCA0139	Yes	00403	PH, LAB, STANDARD UNITS SU	10/21/81-10/21/81	0	1	
BRCA0140	Yes	00403	PH, LAB, STANDARD UNITS SU	02/27/86-02/27/86	0	2	
BRCA0144	Yes	00403	PH, LAB, STANDARD UNITS SU	03/11/80-06/08/85	5	2	
BRCA0147	Yes	00403	PH, LAB, STANDARD UNITS SU	10/18/81-10/18/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0155	Yes	00403	PH, LAB, STANDARD UNITS SU	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00403	PH, LAB, STANDARD UNITS SU	04/30/98-06/09/98	0	3	
BRCA0161	No	00403	PH, LAB, STANDARD UNITS SU	04/21/81-03/02/82	0	2	
BRCA0162	No	00403	PH, LAB, STANDARD UNITS SU	04/04/96-05/22/97	1	11	
BRCA0004	No	00405	CARBON DIOXIDE (MG/L AS CO2)	07/07/77-07/07/77	0	1	
BRCA0007	No	00405	CARBON DIOXIDE (MG/L AS CO2)	07/07/77-07/07/77	0	1	
BRCA0020	No	00405	CARBON DIOXIDE (MG/L AS CO2)	09/06/90-05/11/93	2	2	
BRCA0066	No	00405	CARBON DIOXIDE (MG/L AS CO2)	05/21/87-05/22/97	10	19	
BRCA0085	No	00405	CARBON DIOXIDE (MG/L AS CO2)	01/19/77-06/11/97	20	17	
BRCA0092	No	00405	CARBON DIOXIDE (MG/L AS CO2)	06/20/79-08/17/88	9	4	
BRCA0094	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/03/81-06/14/90	8	10	
BRCA0108	No	00405	CARBON DIOXIDE (MG/L AS CO2)	03/12/80-11/30/83	3	3	
BRCA0113	No	00405	CARBON DIOXIDE (MG/L AS CO2)	06/20/79-08/12/97	18	27	T,S
BRCA0115	No	00405	CARBON DIOXIDE (MG/L AS CO2)	08/12/77-08/12/77	0	1	
BRCA0123	No	00405	CARBON DIOXIDE (MG/L AS CO2)	06/20/79-08/17/88	9	6	
BRCA0144	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	03/11/80-03/11/80	0	1	
BRCA0155	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)	04/30/98-06/09/98	0	3	
BRCA0162	No	00405	CARBON DIOXIDE (MG/L AS CO2)	04/04/96-05/22/97	1	11	
BRCA0012	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/12/96-07/12/96	0	1	
BRCA0014	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/12/96-07/12/96	0	1	
BRCA0022	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/26/96-07/26/96	0	1	
BRCA0024	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/26/96-07/26/96	0	1	
BRCA0028	Yes	00406	PH, FIELD, STANDARD UNITS SU	08/05/96-08/05/96	0	1	
BRCA0031	Yes	00406	PH, FIELD, STANDARD UNITS SU	08/05/96-08/05/96	0	1	
BRCA0035	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/09/96-07/09/96	0	1	
BRCA0036	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/09/96-07/09/96	0	1	
BRCA0041	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/29/96-07/29/96	0	1	
BRCA0047	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/30/96-07/30/96	0	1	
BRCA0049	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/23/96-07/23/96	0	1	
BRCA0070	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/18/96-06/18/96	0	1	
BRCA0077	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/18/96-06/18/96	0	1	
BRCA0080	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/28/96-06/28/96	0	1	
BRCA0081	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/28/96-06/28/96	0	1	
BRCA0103	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/02/96-07/02/96	0	1	
BRCA0129	Yes	00406	PH, FIELD, STANDARD UNITS SU	07/04/96-07/04/96	0	1	
BRCA0136	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/26/96-06/26/96	0	1	
BRCA0149	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/12/96-06/12/96	0	1	
BRCA0151	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/11/96-06/11/96	0	1	
BRCA0152	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/11/96-06/11/96	0	1	
BRCA0154	Yes	00406	PH, FIELD, STANDARD UNITS SU	06/11/96-06/11/96	0	1	
BRCA0001	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/05/80-07/05/80	0	1	
BRCA0002	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/24/82-05/24/82	0	1	
BRCA0003	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/06/80-07/06/80	0	1	
BRCA0004	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/07/77-07/07/77	0	1	
BRCA0005	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/82-05/22/82	0	1	
BRCA0006	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	0	1	
BRCA0007	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/07/77-07/07/77	0	1	
BRCA0008	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/05/80-07/05/80	0	1	
BRCA0009	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/06/80-07/06/80	0	1	
BRCA0010	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/06/80-07/06/80	0	1	
BRCA0013	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	0	1	
BRCA0016	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	0	1	
BRCA0017	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	0	1	
BRCA0020	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/06/90-05/11/93	2	2	
BRCA0033	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	0	1	
BRCA0034	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	0	1	
BRCA0039	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/22/80-07/22/80	0	1	
BRCA0044	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/64-08/13/64	0	1	
BRCA0045	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/15/80-07/15/80	0	1	
BRCA0048	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	0	1	
BRCA0051	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	0	1	
BRCA0052	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/23/82-05/23/82	0	1	
BRCA0055	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/18/68-08/18/68	0	1	
BRCA0057	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/22/80-07/22/80	0	1	
BRCA0059	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/15/80-07/15/80	0	1	
BRCA0060	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/15/80-07/15/80	0	1	
BRCA0066	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/21/87-05/22/97	10	19	
BRCA0074	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/22/80-07/22/80	0	1	
BRCA0075	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	0	1	
BRCA0076	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/23/82-05/23/82	0	1	
BRCA0085	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/19/77-06/11/97	20	17	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0090	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/05/75-06/05/75	0	1	
BRCA0092	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/79-08/17/88	9	4	
BRCA0094	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/81-06/03/93	11	11	
BRCA0095	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/08/75-09/25/75	0	2	
BRCA0098	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/68-08/13/68	0	1	
BRCA0100	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/11/80-07/11/80	0	1	
BRCA0105	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/68-08/09/68	0	1	
BRCA0106	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/14/67-08/14/67	0	1	
BRCA0108	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/12/80-11/30/83	3	3	
BRCA0110	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/23/82-05/23/82	0	1	
BRCA0111	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/22/80-07/22/80	0	1	
BRCA0113	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/79-08/12/97	18	31	T,S
BRCA0115	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/27/76-08/12/77	1	2	
BRCA0116	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/22/80-07/22/80	0	1	
BRCA0118	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/14/75-09/25/75	0	5	
BRCA0119	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/17/68-08/17/68	0	1	
BRCA0120	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/10/74-06/05/75	0	3	
BRCA0121	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/15/68-08/15/68	0	1	
BRCA0123	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/79-08/17/88	9	6	
BRCA0124	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/10/68-08/10/68	0	1	
BRCA0125	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/10/68-08/10/68	0	1	
BRCA0126	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/10/68-08/10/68	0	1	
BRCA0127	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/10/68-08/10/68	0	1	
BRCA0130	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/80-07/18/80	0	1	
BRCA0131	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/12/68-08/12/68	0	1	
BRCA0135	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/15/68-08/15/68	0	1	
BRCA0140	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/27/86-02/27/86	0	2	
BRCA0141	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/19/68-08/19/68	0	1	
BRCA0142	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/09/74-03/09/74	0	1	
BRCA0144	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/11/80-03/11/80	0	1	
BRCA0148	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/11/68-08/11/68	0	1	
BRCA0155	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/98-06/09/98	0	3	
BRCA0157	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/21/68-08/21/68	0	1	
BRCA0160	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/20/68-08/20/68	0	1	
BRCA0162	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/94-05/22/97	2	12	
BRCA0163	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/12/80-07/12/80	0	1	
BRCA0004	No	00440	BICARBONATE ION (MG/L AS HCO3)	07/07/77-07/07/77	0	1	
BRCA0007	No	00440	BICARBONATE ION (MG/L AS HCO3)	07/07/77-07/07/77	0	1	
BRCA0020	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/06/90-05/11/93	2	2	
BRCA0056	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/14/57-10/14/57	0	1	
BRCA0061	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/29/56-09/29/56	0	1	
BRCA0062	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	11/09/56-05/20/57	0	2	
BRCA0066	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/21/87-05/22/97	10	19	
BRCA0067	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/14/57-10/14/57	0	1	
BRCA0082	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	11/07/56-06/21/57	0	2	
BRCA0083	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/02/70-09/02/70	0	1	
BRCA0085	No	00440	BICARBONATE ION (MG/L AS HCO3)	01/19/77-06/11/97	20	17	
BRCA0090	No	00440	BICARBONATE ION (MG/L AS HCO3)	06/05/75-06/05/75	0	1	
BRCA0092	No	00440	BICARBONATE ION (MG/L AS HCO3)	06/20/79-08/17/88	9	4	
BRCA0094	No	00440	BICARBONATE ION (MG/L AS HCO3)	08/03/81-06/14/90	8	10	
BRCA0097	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/28/56-05/18/57	0	2	
BRCA0108	No	00440	BICARBONATE ION (MG/L AS HCO3)	03/12/80-11/30/83	3	3	
BRCA0113	No	00440	BICARBONATE ION (MG/L AS HCO3)	06/20/79-08/12/97	18	27	T,S
BRCA0115	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/27/76-08/12/77	1	2	
BRCA0117	No	00440	BICARBONATE ION (MG/L AS HCO3)	05/21/68-05/21/68	0	1	
BRCA0120	No	00440	BICARBONATE ION (MG/L AS HCO3)	07/10/74-06/05/75	0	3	
BRCA0123	No	00440	BICARBONATE ION (MG/L AS HCO3)	06/20/79-08/17/88	9	6	
BRCA0132	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	05/21/68-05/21/68	0	1	
BRCA0134	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/05/56-05/18/57	0	2	
BRCA0140	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	03/09/74-03/09/74	0	1	
BRCA0144	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	03/11/80-03/11/80	0	1	
BRCA0155	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	04/30/98-06/09/98	0	3	
BRCA0162	No	00440	BICARBONATE ION (MG/L AS HCO3)	04/04/96-05/22/97	1	11	
BRCA0004	No	00445	CARBONATE ION (MG/L AS CO3)	07/07/77-07/07/77	0	1	
BRCA0007	No	00445	CARBONATE ION (MG/L AS CO3)	07/07/77-07/07/77	0	1	
BRCA0020	No	00445	CARBONATE ION (MG/L AS CO3)	09/06/90-05/11/93	2	2	
BRCA0066	No	00445	CARBONATE ION (MG/L AS CO3)	05/21/87-05/22/97	10	19	
BRCA0083	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/02/70-09/02/70	0	1	
BRCA0085	No	00445	CARBONATE ION (MG/L AS CO3)	01/19/77-06/11/97	20	17	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0090	No	00445	CARBONATE ION (MG/L AS CO3)	06/05/75-06/05/75	0	1	
BRCA0092	No	00445	CARBONATE ION (MG/L AS CO3)	06/20/79-08/17/88	9	4	
BRCA0094	No	00445	CARBONATE ION (MG/L AS CO3)	08/03/81-06/14/90	8	10	
BRCA0108	No	00445	CARBONATE ION (MG/L AS CO3)	03/12/80-03/12/80	0	1	
BRCA0113	No	00445	CARBONATE ION (MG/L AS CO3)	06/20/79-08/12/97	18	27	T,S
BRCA0115	No	00445	CARBONATE ION (MG/L AS CO3)	05/27/76-08/12/77	1	2	
BRCA0117	No	00445	CARBONATE ION (MG/L AS CO3)	05/21/68-05/21/68	0	1	
BRCA0120	No	00445	CARBONATE ION (MG/L AS CO3)	07/10/74-06/05/75	0	3	
BRCA0123	No	00445	CARBONATE ION (MG/L AS CO3)	06/20/79-08/17/88	9	6	
BRCA0132	Yes	00445	CARBONATE ION (MG/L AS CO3)	05/21/68-05/21/68	0	1	
BRCA0140	Yes	00445	CARBONATE ION (MG/L AS CO3)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	00445	CARBONATE ION (MG/L AS CO3)	03/09/74-03/09/74	0	1	
BRCA0144	Yes	00445	CARBONATE ION (MG/L AS CO3)	03/11/80-03/11/80	0	1	
BRCA0155	Yes	00445	CARBONATE ION (MG/L AS CO3)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00445	CARBONATE ION (MG/L AS CO3)	04/30/98-06/09/98	0	3	
BRCA0162	No	00445	CARBONATE ION (MG/L AS CO3)	04/04/96-05/22/97	1	11	
BRCA0044	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/13/64-08/13/64	0	1	
BRCA0055	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/18/68-08/18/68	0	1	
BRCA0085	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/19/77-08/03/81	4	10	
BRCA0098	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/13/68-08/13/68	0	1	
BRCA0105	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/09/68-08/09/68	0	1	
BRCA0106	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/14/67-08/14/67	0	1	
BRCA0119	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/17/68-08/17/68	0	1	
BRCA0121	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/15/68-08/15/68	0	1	
BRCA0124	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/10/68-08/10/68	0	1	
BRCA0125	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/10/68-08/10/68	0	1	
BRCA0126	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/10/68-08/10/68	0	1	
BRCA0127	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/10/68-08/10/68	0	1	
BRCA0131	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/12/68-08/12/68	0	1	
BRCA0135	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/15/68-08/15/68	0	1	
BRCA0141	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/19/68-08/19/68	0	1	
BRCA0148	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/11/68-08/11/68	0	1	
BRCA0157	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/21/68-08/21/68	0	1	
BRCA0160	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/20/68-08/20/68	0	1	
BRCA0015	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/05/75-09/19/77	2	13	
BRCA0018	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/05/75-08/19/77	2	14	
BRCA0020	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/06/90-05/11/93	2	2	
BRCA0066	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/21/87-05/22/97	10	20	T
BRCA0085	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/19/81-08/12/97	16	14	
BRCA0092	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/11/87-08/17/88	1	3	
BRCA0094	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/05/79-06/03/93	13	12	
BRCA0113	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/19/81-08/12/97	16	23	T,S
BRCA0123	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/19/81-08/14/90	9	5	
BRCA0155	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/30/98-06/09/98	0	3	
BRCA0162	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/15/93-05/22/97	4	14	
BRCA0140	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/09/74-03/09/74	0	1	
BRCA0020	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/06/90-09/06/90	0	1	
BRCA0066	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/21/87-05/22/97	10	19	
BRCA0084	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/74-10/11/75	0	7	
BRCA0085	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/19/77-08/12/97	20	27	T,S
BRCA0091	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/74-10/11/75	0	7	
BRCA0092	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/79-08/17/88	9	4	
BRCA0094	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/79-06/03/93	13	16	
BRCA0095	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/08/75-09/25/75	0	2	
BRCA0108	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/08/80-11/30/83	2	2	
BRCA0113	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/79-08/12/97	18	44	T,S
BRCA0114	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/74-10/11/75	0	11	
BRCA0118	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/14/75-09/25/75	0	5	
BRCA0122	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/74-10/11/75	0	11	
BRCA0123	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/79-08/14/90	11	7	
BRCA0155	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/98-06/09/98	0	3	
BRCA0162	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/26/93-05/22/97	4	15	
BRCA0066	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/17/88-08/17/88	0	1	
BRCA0085	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/19/77-06/14/90	13	12	
BRCA0092	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-08/17/88	1	2	
BRCA0094	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-06/14/90	3	7	
BRCA0113	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-06/14/90	3	10	
BRCA0123	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-08/17/88	1	2	
BRCA0140	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	02/27/86-02/27/86	0	2	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0020	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/06/90-09/06/90	0	1	
BRCA0066	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/21/87-09/06/90	3	5	
BRCA0084	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/09/74-11/09/74	0	1	
BRCA0085	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/20/79-08/14/90	11	7	
BRCA0091	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/09/74-11/09/74	0	1	
BRCA0092	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/20/79-10/15/87	8	3	
BRCA0094	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/19/81-10/15/87	6	6	
BRCA0108	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/12/80-11/30/83	3	3	
BRCA0113	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/20/79-08/15/90	11	15	
BRCA0114	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/09/74-11/09/74	0	1	
BRCA0122	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/09/74-11/09/74	0	1	
BRCA0123	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/20/79-08/14/90	11	6	
BRCA0144	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/11/80-03/11/80	0	1	
BRCA0066	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/17/88-08/17/88	0	1	
BRCA0085	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/19/77-06/14/90	13	17	
BRCA0092	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-08/17/88	1	2	
BRCA0094	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-06/14/90	3	7	
BRCA0113	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-06/14/90	3	10	
BRCA0123	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-08/17/88	1	2	
BRCA0140	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	03/09/74-03/09/74	0	1	
BRCA0015	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/01/77-06/21/79	2	4	
BRCA0018	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/21/77-06/21/79	2	5	
BRCA0020	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/06/90-09/06/90	0	1	
BRCA0066	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/21/87-09/06/90	3	5	
BRCA0084	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/09/74-11/09/74	0	1	
BRCA0085	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/20/79-08/14/90	11	7	
BRCA0088	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/18/85-04/18/85	0	1	
BRCA0090	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/05/75-06/21/79	4	14	
BRCA0091	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/09/74-11/09/74	0	1	
BRCA0092	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/20/79-10/15/87	8	3	
BRCA0094	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/19/81-10/15/87	6	6	
BRCA0107	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/26/76-06/21/79	3	9	
BRCA0108	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/12/80-11/30/83	3	3	
BRCA0113	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/20/79-08/15/90	11	15	
BRCA0114	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/09/74-11/09/74	0	1	
BRCA0115	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/27/76-08/12/77	1	2	
BRCA0120	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/10/74-10/28/77	3	13	
BRCA0123	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/20/79-08/14/90	11	6	
BRCA0144	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/11/80-06/08/85	5	2	
BRCA0020	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/06/90-09/06/90	0	1	
BRCA0066	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/21/87-09/06/90	3	6	
BRCA0084	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/74-10/11/75	0	7	
BRCA0085	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/19/77-06/11/97	20	22	T,S
BRCA0091	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/74-10/11/75	0	7	
BRCA0092	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/79-08/17/88	9	4	
BRCA0094	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/79-06/14/90	10	14	
BRCA0095	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/08/75-09/25/75	0	2	
BRCA0113	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/79-06/10/97	17	29	T,S
BRCA0114	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/74-10/11/75	0	11	
BRCA0118	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/14/75-09/25/75	0	5	
BRCA0122	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/74-10/11/75	0	11	
BRCA0123	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/79-08/14/90	11	7	
BRCA0162	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/09/94-09/09/94	0	1	
BRCA0020	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/11/93-05/11/93	0	1	
BRCA0066	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/11/93-05/11/93	0	1	
BRCA0084	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/74-10/11/75	0	7	
BRCA0085	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/14/78-09/05/79	1	3	
BRCA0091	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/74-10/11/75	0	7	
BRCA0092	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/20/79-06/20/79	0	1	
BRCA0094	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/20/79-09/05/79	0	3	
BRCA0095	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/08/75-09/25/75	0	2	
BRCA0113	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/20/79-09/05/79	0	4	
BRCA0114	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/74-10/11/75	0	11	
BRCA0118	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/14/75-09/25/75	0	5	
BRCA0122	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/74-10/11/75	0	11	
BRCA0123	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/20/79-09/09/79	0	2	
BRCA0002	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/30/81-05/24/82	0	2	
BRCA0005	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/28/81-05/22/82	0	2	
BRCA0021	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/22/81-10/22/81	0	1	
BRCA0052	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/24/81-05/23/82	0	2	
BRCA0066	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/04/96-05/22/97	1	13	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0071	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/22/81-10/22/81	0	1	
BRCA0076	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/24/81-05/23/82	0	2	
BRCA0085	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/30/91-08/12/97	6	8	
BRCA0087	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/19/81-08/19/81	0	1	
BRCA0094	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/03/93-06/03/93	0	2	
BRCA0096	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/21/81-10/21/81	0	1	
BRCA0104	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/18/81-10/18/81	0	1	
BRCA0109	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/18/81-10/18/81	0	1	
BRCA0110	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/24/81-05/23/82	0	2	
BRCA0113	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/30/91-08/12/97	6	24	T,S
BRCA0133	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/15/81-11/15/81	0	1	
BRCA0139	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/21/81-10/21/81	0	1	
BRCA0147	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/18/81-10/18/81	0	1	
BRCA0155	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/30/98-06/09/98	0	3	
BRCA0162	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/26/93-05/22/97	4	15	
BRCA0015	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/01/77-06/21/79	2	4	
BRCA0018	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/21/77-06/21/79	2	5	
BRCA0090	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/05/75-06/21/79	4	14	
BRCA0107	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/26/76-06/21/79	3	9	
BRCA0115	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/27/76-08/12/77	1	2	
BRCA0120	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	07/10/74-10/28/77	3	13	
BRCA0020	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/06/90-05/11/93	2	2	
BRCA0066	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/87-05/22/97	10	19	
BRCA0084	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/74-10/11/75	0	7	
BRCA0085	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/19/77-08/12/97	20	25	T,S
BRCA0091	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/74-10/11/75	0	7	
BRCA0092	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/79-08/17/88	9	4	
BRCA0094	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/79-06/03/93	13	14	
BRCA0095	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/08/75-09/25/75	0	2	
BRCA0113	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/79-08/12/97	18	43	T,S
BRCA0114	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/74-10/11/75	0	10	
BRCA0118	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/14/75-09/25/75	0	5	
BRCA0122	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/74-10/11/75	0	11	
BRCA0123	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/79-08/14/90	11	7	
BRCA0155	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/18/97-06/09/98	0	7	
BRCA0156	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/30/98-06/09/98	0	3	
BRCA0162	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/26/93-05/22/97	4	13	
BRCA0066	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/04/96-12/11/96	0	10	
BRCA0085	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/30/91-06/11/97	6	7	
BRCA0094	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/03/93-06/03/93	0	2	
BRCA0113	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/30/91-06/10/97	6	22	T,S
BRCA0155	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/30/98-06/09/98	0	3	
BRCA0162	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/26/93-04/08/97	3	12	
BRCA0066	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/17/88-08/17/88	0	1	
BRCA0084	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/09/74-10/11/75	0	7	
BRCA0085	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	01/19/77-06/14/90	13	13	
BRCA0091	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/09/74-10/11/75	0	7	
BRCA0092	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/87-08/17/88	1	3	
BRCA0094	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/87-06/14/90	3	8	
BRCA0095	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/08/75-09/25/75	0	2	
BRCA0113	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/87-06/14/90	3	12	
BRCA0114	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/09/74-10/11/75	0	10	
BRCA0118	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/14/75-09/25/75	0	5	
BRCA0122	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/09/74-10/11/75	0	11	
BRCA0123	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/87-08/17/88	1	3	
BRCA0140	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/27/86-02/27/86	0	2	
BRCA0020	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/06/90-09/06/90	0	1	
BRCA0066	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/21/87-09/06/90	3	4	
BRCA0085	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/23/77-08/14/90	13	10	
BRCA0092	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/17/88-08/17/88	0	1	
BRCA0094	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/17/88-02/14/89	0	4	
BRCA0113	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/17/88-08/15/90	1	5	
BRCA0123	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/17/88-08/14/90	1	2	
BRCA0090	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	06/05/75-06/05/75	0	1	
BRCA0115	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/27/76-08/12/77	1	2	
BRCA0120	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/10/74-06/05/75	0	3	
BRCA0012	Yes	00745	SULFIDE, TOTAL (MG/L AS S)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	00745	SULFIDE, TOTAL (MG/L AS S)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	00745	SULFIDE, TOTAL (MG/L AS S)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	00745	SULFIDE, TOTAL (MG/L AS S)	07/29/96-07/29/96	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0070	Yes	00745	SULFIDE, TOTAL (MG/L AS S)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	00745	SULFIDE, TOTAL (MG/L AS S)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	00745	SULFIDE, TOTAL (MG/L AS S)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	00745	SULFIDE, TOTAL (MG/L AS S)	06/28/96-06/28/96	0	1	
BRCA0094	No	00745	SULFIDE, TOTAL (MG/L AS S)	08/17/88-08/17/88	0	1	
BRCA0103	Yes	00745	SULFIDE, TOTAL (MG/L AS S)	07/02/96-07/02/96	0	1	
BRCA0113	No	00745	SULFIDE, TOTAL (MG/L AS S)	08/17/88-08/17/88	0	1	
BRCA0002	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/30/81-05/24/82	0	2	
BRCA0004	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/07/77-07/07/77	0	1	
BRCA0005	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/28/81-05/22/82	0	2	
BRCA0007	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/07/77-07/07/77	0	1	
BRCA0020	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/06/90-05/11/93	2	2	
BRCA0021	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/22/81-10/22/81	0	1	
BRCA0027	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/23/81-05/23/82	1	3	
BRCA0052	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/24/81-05/23/82	0	2	
BRCA0066	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/21/87-05/22/97	10	19	
BRCA0071	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/22/81-10/22/81	0	1	
BRCA0076	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/24/81-05/23/82	0	2	
BRCA0083	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/02/70-09/02/70	0	1	
BRCA0085	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/19/77-06/11/97	20	17	
BRCA0087	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/19/81-08/19/81	0	1	
BRCA0090	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/05/75-06/05/75	0	1	
BRCA0092	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/20/79-08/17/88	9	4	
BRCA0093	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/21/81-08/25/81	0	2	
BRCA0094	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/03/81-06/03/93	11	11	
BRCA0096	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/21/81-10/21/81	0	1	
BRCA0104	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/81-10/18/81	0	1	
BRCA0108	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/12/80-11/30/83	3	3	
BRCA0109	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/81-10/18/81	0	1	
BRCA0110	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/24/81-05/23/82	0	2	
BRCA0113	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/20/79-08/12/97	18	34	T,S
BRCA0115	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/27/76-08/12/77	1	2	
BRCA0117	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/21/68-05/21/68	0	1	
BRCA0120	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/10/74-06/05/75	0	3	
BRCA0123	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/20/79-08/17/88	9	6	
BRCA0132	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/21/68-05/21/68	0	1	
BRCA0133	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/15/81-11/15/81	0	1	
BRCA0139	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/21/81-10/21/81	0	1	
BRCA0140	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/09/74-03/09/74	0	1	
BRCA0144	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/11/80-03/11/80	0	1	
BRCA0147	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/81-10/18/81	0	1	
BRCA0155	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/30/98-06/09/98	0	3	
BRCA0161	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/21/81-03/02/82	0	2	
BRCA0162	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/09/94-05/22/97	2	12	
BRCA0056	No	00901	HARDNESS, CARBONATE (MG/L AS CACO3)	10/14/57-10/14/57	0	1	
BRCA0061	Yes	00901	HARDNESS, CARBONATE (MG/L AS CACO3)	09/29/56-09/29/56	0	1	
BRCA0062	Yes	00901	HARDNESS, CARBONATE (MG/L AS CACO3)	11/09/56-05/20/57	0	2	
BRCA0067	Yes	00901	HARDNESS, CARBONATE (MG/L AS CACO3)	10/14/57-10/14/57	0	1	
BRCA0082	Yes	00901	HARDNESS, CARBONATE (MG/L AS CACO3)	11/07/56-06/21/57	0	2	
BRCA0097	No	00901	HARDNESS, CARBONATE (MG/L AS CACO3)	10/28/56-05/18/57	0	2	
BRCA0134	Yes	00901	HARDNESS, CARBONATE (MG/L AS CACO3)	10/05/56-05/18/57	0	2	
BRCA0002	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/24/82-05/24/82	0	1	
BRCA0004	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/07/77-07/07/77	0	1	
BRCA0005	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/22/82-05/22/82	0	1	
BRCA0007	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/07/77-07/07/77	0	1	
BRCA0052	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/23/82-05/23/82	0	1	
BRCA0056	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/14/57-10/14/57	0	1	
BRCA0062	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/20/57-05/20/57	0	1	
BRCA0067	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/14/57-10/14/57	0	1	
BRCA0076	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/23/82-05/23/82	0	1	
BRCA0082	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/21/57-06/21/57	0	1	
BRCA0083	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/02/70-09/02/70	0	1	
BRCA0097	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/18/57-05/18/57	0	1	
BRCA0110	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/23/82-05/23/82	0	1	
BRCA0117	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/21/68-05/21/68	0	1	
BRCA0132	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/21/68-05/21/68	0	1	
BRCA0134	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/18/57-05/18/57	0	1	
BRCA0002	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/30/81-05/24/82	0	2	
BRCA0004	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/07/77-07/07/77	0	1	
BRCA0005	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/28/81-05/22/82	0	2	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0007	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/07/77-07/07/77	0	1	
BRCA0020	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/06/90-05/11/93	2	2	
BRCA0021	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/22/81-10/22/81	0	1	
BRCA0027	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/23/81-05/23/82	1	3	
BRCA0044	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/13/64-08/13/64	0	1	
BRCA0052	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/24/81-05/23/82	0	2	
BRCA0055	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/18/68-08/18/68	0	1	
BRCA0056	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/14/57-10/14/57	0	1	
BRCA0061	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/29/56-09/29/56	0	1	
BRCA0062	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/09/56-05/20/57	0	2	
BRCA0066	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/21/87-05/22/97	10	19	
BRCA0067	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/14/57-10/14/57	0	1	
BRCA0071	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/22/81-10/22/81	0	1	
BRCA0076	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/24/81-05/23/82	0	2	
BRCA0082	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/07/56-06/21/57	0	2	
BRCA0083	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/02/70-09/02/70	0	1	
BRCA0085	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/19/77-06/11/97	20	17	
BRCA0087	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/19/81-08/19/81	0	1	
BRCA0090	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/05/75-06/05/75	0	1	
BRCA0092	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/20/79-08/17/88	9	4	
BRCA0093	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/21/81-08/25/81	0	2	
BRCA0094	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/03/81-06/03/93	11	11	
BRCA0096	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/21/81-10/21/81	0	1	
BRCA0097	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/28/56-05/18/57	0	2	
BRCA0098	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/13/68-08/13/68	0	1	
BRCA0104	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/81-10/18/81	0	1	
BRCA0105	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/68-08/09/68	0	1	
BRCA0106	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/14/67-08/14/67	0	1	
BRCA0108	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/12/80-11/30/83	3	3	
BRCA0109	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/81-10/18/81	0	1	
BRCA0110	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/24/81-05/23/82	0	2	
BRCA0113	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/20/79-08/12/97	18	34	T,S
BRCA0117	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/21/68-05/21/68	0	1	
BRCA0119	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/17/68-08/17/68	0	1	
BRCA0120	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/10/74-06/05/75	0	3	
BRCA0121	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/15/68-08/15/68	0	1	
BRCA0123	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/20/79-08/17/88	9	6	
BRCA0124	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/10/68-08/10/68	0	1	
BRCA0125	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/10/68-08/10/68	0	1	
BRCA0126	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/10/68-08/10/68	0	1	
BRCA0127	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/10/68-08/10/68	0	1	
BRCA0131	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/12/68-08/12/68	0	1	
BRCA0132	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/21/68-05/21/68	0	1	
BRCA0133	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/15/81-11/15/81	0	1	
BRCA0134	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/05/56-05/18/57	0	2	
BRCA0135	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/15/68-08/15/68	0	1	
BRCA0139	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/21/81-10/21/81	0	1	
BRCA0140	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/27/86-02/27/86	0	2	
BRCA0141	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/19/68-08/19/68	0	1	
BRCA0142	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/09/74-03/09/74	0	1	
BRCA0144	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/11/80-03/11/80	0	1	
BRCA0147	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/81-10/18/81	0	1	
BRCA0148	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/11/68-08/11/68	0	1	
BRCA0155	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/30/98-06/09/98	0	3	
BRCA0157	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/21/68-08/21/68	0	1	
BRCA0160	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/68-08/20/68	0	1	
BRCA0161	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/21/81-03/02/82	0	2	
BRCA0162	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/09/94-05/22/97	2	12	
BRCA0012	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/28/96-06/28/96	0	1	
BRCA0103	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	07/02/96-07/02/96	0	1	
BRCA0001	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/80-07/05/80	0	1	
BRCA0002	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/30/81-05/24/82	0	2	
BRCA0003	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/80-07/06/80	0	1	
BRCA0004	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/07/77-07/07/77	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0005	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/28/81-05/22/82	0	2	
BRCA0006	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/80-07/14/80	0	1	
BRCA0007	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/07/77-07/07/77	0	1	
BRCA0008	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/80-07/05/80	0	1	
BRCA0009	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/80-07/06/80	0	1	
BRCA0010	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/80-07/06/80	0	1	
BRCA0013	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/80-07/14/80	0	1	
BRCA0016	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/80-07/14/80	0	1	
BRCA0017	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/80-07/14/80	0	1	
BRCA0020	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/06/90-05/11/93	2	2	
BRCA0021	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/22/81-10/22/81	0	1	
BRCA0027	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/23/81-05/23/82	1	3	
BRCA0033	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/80-07/14/80	0	1	
BRCA0034	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/80-07/14/80	0	1	
BRCA0039	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/22/80-07/22/80	0	1	
BRCA0044	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/13/64-08/13/64	0	1	
BRCA0045	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/15/80-07/15/80	0	1	
BRCA0048	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/80-07/14/80	0	1	
BRCA0052	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/24/81-05/23/82	0	2	
BRCA0055	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/18/68-08/18/68	0	1	
BRCA0056	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/14/57-10/14/57	0	1	
BRCA0057	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/22/80-07/22/80	0	1	
BRCA0059	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/15/80-07/15/80	0	1	
BRCA0060	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/15/80-07/15/80	0	1	
BRCA0061	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/29/56-09/29/56	0	1	
BRCA0062	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/09/56-05/20/57	0	2	
BRCA0066	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/21/87-05/22/97	10	19	
BRCA0067	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/14/57-10/14/57	0	1	
BRCA0071	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/22/81-10/22/81	0	1	
BRCA0076	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/24/81-05/23/82	0	2	
BRCA0082	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/07/56-06/21/57	0	2	
BRCA0083	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/02/70-09/02/70	0	1	
BRCA0085	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/19/77-06/11/97	20	17	
BRCA0087	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/19/81-08/19/81	0	1	
BRCA0090	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/05/75-06/05/75	0	1	
BRCA0092	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/20/79-08/17/88	9	4	
BRCA0093	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/21/81-08/25/81	0	2	
BRCA0094	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/03/81-06/03/93	11	11	
BRCA0096	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/21/81-10/21/81	0	1	
BRCA0097	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/28/56-05/18/57	0	2	
BRCA0098	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/13/68-08/13/68	0	1	
BRCA0100	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/11/80-07/11/80	0	1	
BRCA0104	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/81-10/18/81	0	1	
BRCA0105	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/68-08/09/68	0	1	
BRCA0106	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/14/67-08/14/67	0	1	
BRCA0108	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/12/80-11/30/83	3	3	
BRCA0109	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/81-10/18/81	0	1	
BRCA0110	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/24/81-05/23/82	0	2	
BRCA0111	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/22/80-07/22/80	0	1	
BRCA0113	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/20/79-08/12/97	18	34	T,S
BRCA0116	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/22/80-07/22/80	0	1	
BRCA0117	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/21/68-05/21/68	0	1	
BRCA0119	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/17/68-08/17/68	0	1	
BRCA0120	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/10/74-06/05/75	0	3	
BRCA0121	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/15/68-08/15/68	0	1	
BRCA0123	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/20/79-08/17/88	9	6	
BRCA0124	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/10/68-08/10/68	0	1	
BRCA0125	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/10/68-08/10/68	0	1	
BRCA0126	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/10/68-08/10/68	0	1	
BRCA0127	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/10/68-08/10/68	0	1	
BRCA0130	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/18/80-07/18/80	0	1	
BRCA0131	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/12/68-08/12/68	0	1	
BRCA0132	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/21/68-05/21/68	0	1	
BRCA0133	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/15/81-11/15/81	0	1	
BRCA0134	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/05/56-05/18/57	0	2	
BRCA0135	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/15/68-08/15/68	0	1	
BRCA0139	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/21/81-10/21/81	0	1	
BRCA0140	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/27/86-02/27/86	0	2	
BRCA0141	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/19/68-08/19/68	0	1	
BRCA0142	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/09/74-03/09/74	0	1	
BRCA0144	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/11/80-03/11/80	0	1	
BRCA0147	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/81-10/18/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0148	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/11/68-08/11/68	0	1	
BRCA0155	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/30/98-06/09/98	0	3	
BRCA0157	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/21/68-08/21/68	0	1	
BRCA0160	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/68-08/20/68	0	1	
BRCA0161	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/21/81-03/02/82	0	2	
BRCA0162	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/09/94-05/22/97	2	12	
BRCA0163	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/12/80-07/12/80	0	1	
BRCA0012	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/28/96-06/28/96	0	1	
BRCA0103	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/02/96-07/02/96	0	1	
BRCA0012	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	06/28/96-06/28/96	0	1	
BRCA0103	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	07/02/96-07/02/96	0	1	
BRCA0001	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/05/80-07/05/80	0	1	
BRCA0002	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/30/81-05/24/82	0	2	
BRCA0003	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/06/80-07/06/80	0	1	
BRCA0004	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/07/77-07/07/77	0	1	
BRCA0005	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/28/81-05/22/82	0	2	
BRCA0006	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/14/80-07/14/80	0	1	
BRCA0007	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/07/77-07/07/77	0	1	
BRCA0008	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/05/80-07/05/80	0	1	
BRCA0009	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/06/80-07/06/80	0	1	
BRCA0010	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/06/80-07/06/80	0	1	
BRCA0013	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/14/80-07/14/80	0	1	
BRCA0016	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/14/80-07/14/80	0	1	
BRCA0017	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/14/80-07/14/80	0	1	
BRCA0020	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/06/90-05/11/93	2	2	
BRCA0021	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/22/81-10/22/81	0	1	
BRCA0027	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/23/81-05/23/82	1	3	
BRCA0033	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/14/80-07/14/80	0	1	
BRCA0034	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/14/80-07/14/80	0	1	
BRCA0039	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/22/80-07/22/80	0	1	
BRCA0045	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/15/80-07/15/80	0	1	
BRCA0048	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/14/80-07/14/80	0	1	
BRCA0052	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/24/81-05/23/82	0	2	
BRCA0057	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/22/80-07/22/80	0	1	
BRCA0059	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/15/80-07/15/80	0	1	
BRCA0060	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/15/80-07/15/80	0	1	
BRCA0066	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/21/87-05/22/97	10	19	
BRCA0071	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/22/81-10/22/81	0	1	
BRCA0074	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/22/80-07/22/80	0	1	
BRCA0076	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/24/81-05/23/82	0	2	
BRCA0083	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/02/70-09/02/70	0	1	
BRCA0085	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/19/77-06/11/97	20	17	
BRCA0087	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/19/81-08/19/81	0	1	
BRCA0090	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/05/75-06/05/75	0	1	
BRCA0092	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/20/79-08/17/88	9	4	
BRCA0093	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/21/81-08/25/81	0	2	
BRCA0094	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/03/81-06/03/93	11	11	
BRCA0096	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/21/81-10/21/81	0	1	
BRCA0100	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/11/80-07/11/80	0	1	
BRCA0104	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/18/81-10/18/81	0	1	
BRCA0108	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/12/80-11/30/83	3	3	
BRCA0109	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/18/81-10/18/81	0	1	
BRCA0110	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/23/82-05/23/82	0	1	
BRCA0111	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/22/80-07/22/80	0	1	
BRCA0113	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/20/79-08/12/97	18	31	T,S
BRCA0116	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/22/80-07/22/80	0	1	
BRCA0117	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/21/68-05/21/68	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0120	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/10/74-06/05/75	0	3	
BRCA0123	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	06/20/79-08/17/88	9	6	
BRCA0130	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/18/80-07/18/80	0	1	
BRCA0132	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/21/68-05/21/68	0	1	
BRCA0133	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/15/81-11/15/81	0	1	
BRCA0139	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/21/81-10/21/81	0	1	
BRCA0140	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/09/74-03/09/74	0	1	
BRCA0144	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/11/80-03/11/80	0	1	
BRCA0147	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/18/81-10/18/81	0	1	
BRCA0155	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/30/98-06/09/98	0	3	
BRCA0161	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/21/81-03/02/82	0	2	
BRCA0162	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/09/94-05/22/97	2	12	
BRCA0163	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/12/80-07/12/80	0	1	
BRCA0002	No	00931	SODIUM ADSORPTION RATIO	07/30/81-05/24/82	0	2	
BRCA0004	No	00931	SODIUM ADSORPTION RATIO	07/07/77-07/07/77	0	1	
BRCA0005	No	00931	SODIUM ADSORPTION RATIO	07/28/81-05/22/82	0	2	
BRCA0007	No	00931	SODIUM ADSORPTION RATIO	07/07/77-07/07/77	0	1	
BRCA0021	Yes	00931	SODIUM ADSORPTION RATIO	10/22/81-10/22/81	0	1	
BRCA0027	No	00931	SODIUM ADSORPTION RATIO	04/23/81-05/23/82	1	3	
BRCA0052	Yes	00931	SODIUM ADSORPTION RATIO	07/24/81-05/23/82	0	2	
BRCA0071	Yes	00931	SODIUM ADSORPTION RATIO	10/22/81-10/22/81	0	1	
BRCA0076	No	00931	SODIUM ADSORPTION RATIO	07/24/81-05/23/82	0	2	
BRCA0083	Yes	00931	SODIUM ADSORPTION RATIO	09/02/70-09/02/70	0	1	
BRCA0087	No	00931	SODIUM ADSORPTION RATIO	08/19/81-08/19/81	0	1	
BRCA0093	No	00931	SODIUM ADSORPTION RATIO	04/21/81-08/25/81	0	2	
BRCA0096	No	00931	SODIUM ADSORPTION RATIO	10/21/81-10/21/81	0	1	
BRCA0104	No	00931	SODIUM ADSORPTION RATIO	10/18/81-10/18/81	0	1	
BRCA0109	No	00931	SODIUM ADSORPTION RATIO	10/18/81-10/18/81	0	1	
BRCA0110	No	00931	SODIUM ADSORPTION RATIO	07/24/81-05/23/82	0	2	
BRCA0117	No	00931	SODIUM ADSORPTION RATIO	05/21/68-05/21/68	0	1	
BRCA0132	Yes	00931	SODIUM ADSORPTION RATIO	05/21/68-05/21/68	0	1	
BRCA0133	Yes	00931	SODIUM ADSORPTION RATIO	11/15/81-11/15/81	0	1	
BRCA0139	Yes	00931	SODIUM ADSORPTION RATIO	10/21/81-10/21/81	0	1	
BRCA0147	Yes	00931	SODIUM ADSORPTION RATIO	10/18/81-10/18/81	0	1	
BRCA0161	No	00931	SODIUM ADSORPTION RATIO	04/21/81-03/02/82	0	2	
BRCA0002	No	00932	SODIUM, PERCENT	07/30/81-05/24/82	0	2	
BRCA0004	No	00932	SODIUM, PERCENT	07/07/77-07/07/77	0	1	
BRCA0005	No	00932	SODIUM, PERCENT	07/28/81-05/22/82	0	2	
BRCA0007	No	00932	SODIUM, PERCENT	07/07/77-07/07/77	0	1	
BRCA0021	Yes	00932	SODIUM, PERCENT	10/22/81-10/22/81	0	1	
BRCA0027	No	00932	SODIUM, PERCENT	04/23/81-05/23/82	1	3	
BRCA0052	Yes	00932	SODIUM, PERCENT	07/24/81-05/23/82	0	2	
BRCA0071	Yes	00932	SODIUM, PERCENT	10/22/81-10/22/81	0	1	
BRCA0076	No	00932	SODIUM, PERCENT	07/24/81-05/23/82	0	2	
BRCA0087	No	00932	SODIUM, PERCENT	08/19/81-08/19/81	0	1	
BRCA0093	No	00932	SODIUM, PERCENT	04/21/81-08/25/81	0	2	
BRCA0096	No	00932	SODIUM, PERCENT	10/21/81-10/21/81	0	1	
BRCA0104	No	00932	SODIUM, PERCENT	10/18/81-10/18/81	0	1	
BRCA0109	No	00932	SODIUM, PERCENT	10/18/81-10/18/81	0	1	
BRCA0110	No	00932	SODIUM, PERCENT	07/24/81-05/23/82	0	2	
BRCA0133	Yes	00932	SODIUM, PERCENT	11/15/81-11/15/81	0	1	
BRCA0139	Yes	00932	SODIUM, PERCENT	10/21/81-10/21/81	0	1	
BRCA0147	Yes	00932	SODIUM, PERCENT	10/18/81-10/18/81	0	1	
BRCA0161	No	00932	SODIUM, PERCENT	04/21/81-03/02/82	0	2	
BRCA0044	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/13/64-08/13/64	0	1	
BRCA0055	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/18/68-08/18/68	0	1	
BRCA0056	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/14/57-10/14/57	0	1	
BRCA0062	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	11/09/56-05/20/57	0	2	
BRCA0067	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/14/57-10/14/57	0	1	
BRCA0082	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	06/21/57-06/21/57	0	1	
BRCA0097	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/28/56-05/18/57	0	2	
BRCA0098	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/13/68-08/13/68	0	1	
BRCA0105	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/09/68-08/09/68	0	1	
BRCA0106	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/14/67-08/14/67	0	1	
BRCA0119	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/17/68-08/17/68	0	1	
BRCA0121	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/15/68-08/15/68	0	1	
BRCA0124	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/10/68-08/10/68	0	1	
BRCA0125	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/10/68-08/10/68	0	1	
BRCA0126	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/10/68-08/10/68	0	1	
BRCA0127	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/10/68-08/10/68	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0131	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/12/68-08/12/68	0	1	
BRCA0134	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	10/05/56-05/18/57	0	2	
BRCA0135	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/15/68-08/15/68	0	1	
BRCA0141	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/19/68-08/19/68	0	1	
BRCA0148	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/11/68-08/11/68	0	1	
BRCA0157	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/21/68-08/21/68	0	1	
BRCA0160	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	08/20/68-08/20/68	0	1	
BRCA0002	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/30/81-05/24/82	0	2	
BRCA0004	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/07/77-07/07/77	0	1	
BRCA0005	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/28/81-05/22/82	0	2	
BRCA0007	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/07/77-07/07/77	0	1	
BRCA0020	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/06/90-05/11/93	2	2	
BRCA0021	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/22/81-10/22/81	0	1	
BRCA0027	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/23/81-05/23/82	1	3	
BRCA0052	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/24/81-05/23/82	0	2	
BRCA0066	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/21/87-05/22/97	10	19	
BRCA0071	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/22/81-10/22/81	0	1	
BRCA0076	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/24/81-05/23/82	0	2	
BRCA0083	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/02/70-09/02/70	0	1	
BRCA0085	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/19/77-06/11/97	20	15	
BRCA0087	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/19/81-08/19/81	0	1	
BRCA0090	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/05/75-06/05/75	0	1	
BRCA0092	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/20/79-08/17/88	9	4	
BRCA0093	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/21/81-08/25/81	0	2	
BRCA0094	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/03/81-06/03/93	11	11	
BRCA0096	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/21/81-10/21/81	0	1	
BRCA0104	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/81-10/18/81	0	1	
BRCA0108	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/12/80-11/30/83	3	3	
BRCA0109	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/81-10/18/81	0	1	
BRCA0110	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/24/81-05/23/82	0	2	
BRCA0113	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/20/79-08/12/97	18	31	T,S
BRCA0117	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/21/68-05/21/68	0	1	
BRCA0120	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/10/74-06/05/75	0	3	
BRCA0123	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/20/79-08/17/88	9	6	
BRCA0132	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/21/68-05/21/68	0	1	
BRCA0133	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/15/81-11/15/81	0	1	
BRCA0139	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/21/81-10/21/81	0	1	
BRCA0140	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/09/74-03/09/74	0	1	
BRCA0144	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/80-03/11/80	0	1	
BRCA0147	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/81-10/18/81	0	1	
BRCA0155	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/30/98-06/09/98	0	3	
BRCA0161	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/21/81-03/02/82	0	2	
BRCA0162	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/09/94-05/22/97	2	12	
BRCA0012	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	06/28/96-06/28/96	0	1	
BRCA0103	Yes	00937	POTASSIUM, TOTAL MG/L AS K)	07/02/96-07/02/96	0	1	
BRCA0002	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/30/81-05/24/82	0	2	
BRCA0004	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/07/77-07/07/77	0	1	
BRCA0005	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/28/81-05/22/82	0	2	
BRCA0007	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/07/77-07/07/77	0	1	
BRCA0012	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	07/12/96-07/12/96	0	1	
BRCA0014	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	07/12/96-07/12/96	0	1	
BRCA0021	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/22/81-10/22/81	0	1	
BRCA0027	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/23/81-05/23/82	1	3	
BRCA0036	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	07/09/96-07/09/96	0	1	
BRCA0041	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	07/29/96-07/29/96	0	1	
BRCA0052	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	07/24/81-05/23/82	0	2	
BRCA0070	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/18/96-06/18/96	0	1	
BRCA0071	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/22/81-10/22/81	0	1	
BRCA0076	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/24/81-05/23/82	0	2	
BRCA0077	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/18/96-06/18/96	0	1	
BRCA0080	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/28/96-06/28/96	0	1	
BRCA0081	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	06/28/96-06/28/96	0	1	
BRCA0083	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	09/02/70-09/02/70	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0085	No	00940	CHLORIDE,TOTAL IN WATER MG/L	01/19/77-08/17/88	11	14	
BRCA0087	No	00940	CHLORIDE,TOTAL IN WATER MG/L	08/19/81-08/19/81	0	1	
BRCA0090	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/05/75-06/05/75	0	1	
BRCA0092	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/11/87-08/17/88	1	3	
BRCA0093	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/21/81-08/25/81	0	2	
BRCA0094	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/11/87-02/14/89	1	7	
BRCA0096	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/21/81-10/21/81	0	1	
BRCA0103	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	07/02/96-07/02/96	0	1	
BRCA0104	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/18/81-10/18/81	0	1	
BRCA0109	No	00940	CHLORIDE,TOTAL IN WATER MG/L	10/18/81-10/18/81	0	1	
BRCA0110	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/24/81-05/23/82	0	2	
BRCA0113	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/11/87-02/14/89	1	9	
BRCA0115	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/27/76-08/12/77	1	2	
BRCA0117	No	00940	CHLORIDE,TOTAL IN WATER MG/L	05/21/68-05/21/68	0	1	
BRCA0120	No	00940	CHLORIDE,TOTAL IN WATER MG/L	07/10/74-06/05/75	0	3	
BRCA0123	No	00940	CHLORIDE,TOTAL IN WATER MG/L	06/11/87-08/17/88	1	3	
BRCA0132	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	05/21/68-05/21/68	0	1	
BRCA0133	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	11/15/81-11/15/81	0	1	
BRCA0139	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/21/81-10/21/81	0	1	
BRCA0147	Yes	00940	CHLORIDE,TOTAL IN WATER MG/L	10/18/81-10/18/81	0	1	
BRCA0161	No	00940	CHLORIDE,TOTAL IN WATER MG/L	04/21/81-03/02/82	0	2	
BRCA0020	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/06/90-05/11/93	2	2	
BRCA0044	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/13/64-08/13/64	0	1	
BRCA0055	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/18/68-08/18/68	0	1	
BRCA0056	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/14/57-10/14/57	0	1	
BRCA0061	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/29/56-09/29/56	0	1	
BRCA0062	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/09/56-05/20/57	0	2	
BRCA0066	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/21/87-05/22/97	10	19	
BRCA0067	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/14/57-10/14/57	0	1	
BRCA0082	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/07/56-06/21/57	0	2	
BRCA0085	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	06/20/79-06/11/97	17	6	
BRCA0092	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	06/20/79-06/20/79	0	1	
BRCA0094	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/03/81-06/03/93	11	4	
BRCA0097	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/28/56-05/18/57	0	2	
BRCA0098	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/13/68-08/13/68	0	1	
BRCA0105	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/09/68-08/09/68	0	1	
BRCA0106	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/14/67-08/14/67	0	1	
BRCA0108	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/12/80-11/30/83	3	3	
BRCA0113	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	06/20/79-08/12/97	18	22	T,S
BRCA0119	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/17/68-08/17/68	0	1	
BRCA0121	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/15/68-08/15/68	0	1	
BRCA0123	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	06/20/79-05/19/81	1	3	
BRCA0124	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/10/68-08/10/68	0	1	
BRCA0125	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/10/68-08/10/68	0	1	
BRCA0126	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/10/68-08/10/68	0	1	
BRCA0127	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/10/68-08/10/68	0	1	
BRCA0131	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/12/68-08/12/68	0	1	
BRCA0134	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/05/56-05/18/57	0	2	
BRCA0135	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/15/68-08/15/68	0	1	
BRCA0140	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	02/27/86-02/27/86	0	2	
BRCA0141	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/19/68-08/19/68	0	1	
BRCA0142	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/09/74-03/09/74	0	1	
BRCA0144	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/11/80-06/08/85	5	2	
BRCA0148	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/11/68-08/11/68	0	1	
BRCA0155	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	04/30/98-06/09/98	0	3	
BRCA0157	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/21/68-08/21/68	0	1	
BRCA0160	Yes	00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/20/68-08/20/68	0	1	
BRCA0162	No	00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/09/94-05/22/97	2	12	
BRCA0002	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/30/81-05/24/82	0	2	
BRCA0004	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/07/77-07/07/77	0	1	
BRCA0005	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/28/81-05/22/82	0	2	
BRCA0007	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/07/77-07/07/77	0	1	
BRCA0012	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/12/96-07/12/96	0	1	
BRCA0021	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/22/81-10/22/81	0	1	
BRCA0027	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/23/81-05/23/82	1	3	
BRCA0036	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/29/96-07/29/96	0	1	
BRCA0052	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/24/81-05/23/82	0	2	
BRCA0070	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/18/96-06/18/96	0	1	
BRCA0071	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/22/81-10/22/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0076	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/24/81-05/23/82	0	2	
BRCA0077	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	06/28/96-06/28/96	0	1	
BRCA0083	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/02/70-09/02/70	0	1	
BRCA0087	No	00945	SULFATE, TOTAL (MG/L AS SO4)	08/19/81-08/19/81	0	1	
BRCA0093	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/21/81-08/25/81	0	2	
BRCA0096	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/21/81-10/21/81	0	1	
BRCA0103	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	07/02/96-07/02/96	0	1	
BRCA0104	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/18/81-10/18/81	0	1	
BRCA0109	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/18/81-10/18/81	0	1	
BRCA0110	No	00945	SULFATE, TOTAL (MG/L AS SO4)	07/24/81-05/23/82	0	2	
BRCA0117	No	00945	SULFATE, TOTAL (MG/L AS SO4)	05/21/68-05/21/68	0	1	
BRCA0132	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/21/68-05/21/68	0	1	
BRCA0133	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	11/15/81-11/15/81	0	1	
BRCA0139	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/21/81-10/21/81	0	1	
BRCA0147	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/18/81-10/18/81	0	1	
BRCA0161	No	00945	SULFATE, TOTAL (MG/L AS SO4)	04/21/81-03/02/82	0	2	
BRCA0020	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/06/90-05/11/93	2	2	
BRCA0044	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/13/64-08/13/64	0	1	
BRCA0055	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/18/68-08/18/68	0	1	
BRCA0056	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/14/57-10/14/57	0	1	
BRCA0061	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/29/56-09/29/56	0	1	
BRCA0062	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/09/56-05/20/57	0	2	
BRCA0066	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/21/87-05/22/97	10	19	
BRCA0067	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/14/57-10/14/57	0	1	
BRCA0082	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/07/56-06/21/57	0	2	
BRCA0085	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	01/19/77-06/11/97	20	17	
BRCA0088	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/18/85-04/18/85	0	1	
BRCA0090	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/05/75-06/05/75	0	1	
BRCA0092	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/20/79-08/17/88	9	4	
BRCA0094	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/03/81-06/03/93	11	11	
BRCA0097	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/28/56-05/18/57	0	2	
BRCA0098	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/13/68-08/13/68	0	1	
BRCA0105	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/09/68-08/09/68	0	1	
BRCA0106	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/14/67-08/14/67	0	1	
BRCA0108	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/12/80-11/30/83	3	3	
BRCA0113	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/20/79-08/12/97	18	31	T,S
BRCA0115	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/27/76-08/12/77	1	2	
BRCA0119	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/17/68-08/17/68	0	1	
BRCA0120	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/10/74-06/05/75	0	3	
BRCA0121	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/15/68-08/15/68	0	1	
BRCA0123	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/20/79-08/17/88	9	6	
BRCA0124	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/10/68-08/10/68	0	1	
BRCA0125	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/10/68-08/10/68	0	1	
BRCA0126	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/10/68-08/10/68	0	1	
BRCA0127	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/10/68-08/10/68	0	1	
BRCA0128	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/18/85-04/18/85	0	1	
BRCA0131	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/12/68-08/12/68	0	1	
BRCA0134	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/05/56-05/18/57	0	2	
BRCA0135	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/15/68-08/15/68	0	1	
BRCA0140	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	02/27/86-02/27/86	0	2	
BRCA0141	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/19/68-08/19/68	0	1	
BRCA0142	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/09/74-03/09/74	0	1	
BRCA0144	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/11/80-06/08/85	5	2	
BRCA0148	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/11/68-08/11/68	0	1	
BRCA0155	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/30/98-06/09/98	0	3	
BRCA0157	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/21/68-08/21/68	0	1	
BRCA0160	Yes	00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/20/68-08/20/68	0	1	
BRCA0162	No	00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/09/94-05/22/97	2	12	
BRCA0002	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/30/81-05/24/82	0	2	
BRCA0004	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/07/77-07/07/77	0	1	
BRCA0005	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/28/81-05/22/82	0	2	
BRCA0007	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/07/77-07/07/77	0	1	
BRCA0021	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/22/81-10/22/81	0	1	
BRCA0027	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/23/81-05/23/82	1	3	
BRCA0052	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/24/81-05/23/82	0	2	
BRCA0061	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/29/56-09/29/56	0	1	
BRCA0062	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/09/56-11/09/56	0	1	
BRCA0071	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/22/81-10/22/81	0	1	
BRCA0076	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/24/81-05/23/82	0	2	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0082	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/07/56-11/07/56	0	1	
BRCA0083	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/02/70-09/02/70	0	1	
BRCA0085	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/19/77-09/05/79	2	10	
BRCA0087	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/19/81-08/19/81	0	1	
BRCA0090	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/05/75-06/05/75	0	1	
BRCA0092	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/20/79-06/20/79	0	1	
BRCA0093	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/21/81-08/25/81	0	2	
BRCA0096	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/21/81-10/21/81	0	1	
BRCA0097	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/28/56-10/28/56	0	1	
BRCA0104	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/81-10/18/81	0	1	
BRCA0105	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/68-08/09/68	0	1	
BRCA0106	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/14/67-08/14/67	0	1	
BRCA0108	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/12/80-11/30/83	3	3	
BRCA0109	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/81-10/18/81	0	1	
BRCA0110	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/24/81-05/23/82	0	2	
BRCA0113	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/20/79-09/05/79	0	5	
BRCA0115	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/27/76-08/12/77	1	2	
BRCA0120	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/10/74-06/05/75	0	3	
BRCA0123	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/20/79-09/05/79	0	2	
BRCA0133	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/81-11/15/81	0	1	
BRCA0134	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/05/56-10/05/56	0	1	
BRCA0139	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/21/81-10/21/81	0	1	
BRCA0140	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/09/74-03/09/74	0	1	
BRCA0144	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/80-06/08/85	5	2	
BRCA0147	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/81-10/18/81	0	1	
BRCA0161	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/21/81-03/02/82	0	2	
BRCA0012	Yes	00953	FLUORINE,TOTAL UG/L	07/12/96-07/12/96	0	1	
BRCA0014	Yes	00953	FLUORINE,TOTAL UG/L	07/12/96-07/12/96	0	1	
BRCA0036	Yes	00953	FLUORINE,TOTAL UG/L	07/09/96-07/09/96	0	1	
BRCA0041	Yes	00953	FLUORINE,TOTAL UG/L	07/29/96-07/29/96	0	1	
BRCA0070	Yes	00953	FLUORINE,TOTAL UG/L	06/18/96-06/18/96	0	1	
BRCA0077	Yes	00953	FLUORINE,TOTAL UG/L	06/18/96-06/18/96	0	1	
BRCA0080	Yes	00953	FLUORINE,TOTAL UG/L	06/28/96-06/28/96	0	1	
BRCA0081	Yes	00953	FLUORINE,TOTAL UG/L	06/28/96-06/28/96	0	1	
BRCA0103	Yes	00953	FLUORINE,TOTAL UG/L	07/02/96-07/02/96	0	1	
BRCA0002	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/30/81-05/24/82	0	2	
BRCA0004	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/07/77-07/07/77	0	1	
BRCA0005	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/28/81-05/22/82	0	2	
BRCA0007	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/07/77-07/07/77	0	1	
BRCA0021	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/22/81-10/22/81	0	1	
BRCA0027	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/23/81-05/23/82	1	3	
BRCA0044	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/13/64-08/13/64	0	1	
BRCA0052	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/24/81-05/23/82	0	2	
BRCA0055	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/18/68-08/18/68	0	1	
BRCA0056	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/14/57-10/14/57	0	1	
BRCA0061	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/29/56-09/29/56	0	1	
BRCA0062	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/09/56-05/20/57	0	2	
BRCA0067	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/14/57-10/14/57	0	1	
BRCA0071	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/22/81-10/22/81	0	1	
BRCA0076	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/24/81-05/23/82	0	2	
BRCA0082	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/07/56-06/21/57	0	2	
BRCA0083	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/02/70-09/02/70	0	1	
BRCA0085	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	01/19/77-09/05/79	2	10	
BRCA0087	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/19/81-08/19/81	0	1	
BRCA0090	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/05/75-06/05/75	0	1	
BRCA0092	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/20/79-06/20/79	0	1	
BRCA0093	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/21/81-08/25/81	0	2	
BRCA0096	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/21/81-10/21/81	0	1	
BRCA0097	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/28/56-05/18/57	0	2	
BRCA0098	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/13/68-08/13/68	0	1	
BRCA0104	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/18/81-10/18/81	0	1	
BRCA0105	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/68-08/09/68	0	1	
BRCA0106	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/14/67-08/14/67	0	1	
BRCA0108	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/12/80-11/30/83	3	3	
BRCA0109	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/18/81-10/18/81	0	1	
BRCA0110	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/24/81-05/23/82	0	2	
BRCA0113	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/20/79-08/13/91	12	9	
BRCA0117	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/21/68-05/21/68	0	1	
BRCA0119	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/17/68-08/17/68	0	1	
BRCA0120	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/10/74-06/05/75	0	3	
BRCA0121	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/15/68-08/15/68	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0123	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	06/20/79-09/05/79	0	2	
BRCA0124	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/10/68-08/10/68	0	1	
BRCA0125	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/10/68-08/10/68	0	1	
BRCA0126	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/10/68-08/10/68	0	1	
BRCA0127	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/10/68-08/10/68	0	1	
BRCA0131	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/12/68-08/12/68	0	1	
BRCA0132	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/21/68-05/21/68	0	1	
BRCA0133	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/81-11/15/81	0	1	
BRCA0134	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/05/56-05/18/57	0	2	
BRCA0135	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/15/68-08/15/68	0	1	
BRCA0139	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/21/81-10/21/81	0	1	
BRCA0140	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	02/27/86-02/27/86	0	2	
BRCA0141	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/19/68-08/19/68	0	1	
BRCA0142	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/09/74-03/09/74	0	1	
BRCA0144	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/11/80-03/11/80	0	1	
BRCA0147	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/18/81-10/18/81	0	1	
BRCA0148	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/11/68-08/11/68	0	1	
BRCA0157	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/21/68-08/21/68	0	1	
BRCA0160	Yes	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/68-08/20/68	0	1	
BRCA0161	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/21/81-03/02/82	0	2	
BRCA0162	No	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/09/94-09/09/94	0	1	
BRCA0066	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/22/96-04/24/97	0	3	
BRCA0085	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	01/19/77-06/14/78	1	7	
BRCA0090	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/05/75-06/05/75	0	1	
BRCA0113	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/31/93-08/12/97	3	4	
BRCA0115	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/27/76-08/12/77	1	2	
BRCA0120	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/10/74-06/05/75	0	3	
BRCA0140	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/09/74-03/09/74	0	1	
BRCA0155	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/31/97-04/30/98	0	3	
BRCA0156	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/30/98-04/30/98	0	1	
BRCA0162	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/23/96-04/24/97	0	4	
BRCA0066	No	01002	ARSENIC, TOTAL (UG/L AS AS)	05/21/87-05/21/87	0	1	
BRCA0085	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/20/79-08/03/81	2	4	
BRCA0092	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/20/79-06/20/79	0	1	
BRCA0094	No	01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/81-08/03/81	0	2	
BRCA0108	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/12/80-11/30/83	3	3	
BRCA0113	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/20/79-08/13/91	12	12	
BRCA0123	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/20/79-05/19/81	1	3	
BRCA0144	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	03/11/80-06/08/85	5	2	
BRCA0066	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/22/96-04/24/97	0	3	
BRCA0085	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	01/19/77-08/17/88	11	8	
BRCA0090	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	06/05/75-06/05/75	0	1	
BRCA0092	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/17/88-08/17/88	0	1	
BRCA0094	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/17/88-08/17/88	0	2	
BRCA0113	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/17/88-08/12/97	8	3	
BRCA0115	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/27/76-08/12/77	1	2	
BRCA0120	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	07/10/74-06/05/75	0	3	
BRCA0123	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/17/88-08/17/88	0	1	
BRCA0140	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	03/09/74-03/09/74	0	1	
BRCA0155	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/31/97-04/30/98	0	3	
BRCA0156	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	04/30/98-04/30/98	0	1	
BRCA0162	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	05/23/96-04/24/97	0	4	
BRCA0066	No	01007	BARIUM, TOTAL (UG/L AS BA)	05/21/87-08/17/88	1	2	
BRCA0085	No	01007	BARIUM, TOTAL (UG/L AS BA)	06/20/79-08/17/88	9	5	
BRCA0092	No	01007	BARIUM, TOTAL (UG/L AS BA)	06/20/79-08/17/88	9	2	
BRCA0094	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/03/81-02/14/89	7	6	
BRCA0108	No	01007	BARIUM, TOTAL (UG/L AS BA)	03/12/80-11/30/83	3	3	
BRCA0113	No	01007	BARIUM, TOTAL (UG/L AS BA)	06/20/79-08/13/91	12	16	S
BRCA0123	No	01007	BARIUM, TOTAL (UG/L AS BA)	06/20/79-08/17/88	9	4	
BRCA0144	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	03/11/80-06/08/85	5	2	
BRCA0002	No	01020	BORON, DISSOLVED (UG/L AS B)	07/30/81-07/30/81	0	1	
BRCA0004	No	01020	BORON, DISSOLVED (UG/L AS B)	07/07/77-07/07/77	0	1	
BRCA0005	No	01020	BORON, DISSOLVED (UG/L AS B)	07/28/81-07/28/81	0	1	
BRCA0007	No	01020	BORON, DISSOLVED (UG/L AS B)	07/07/77-07/07/77	0	1	
BRCA0021	Yes	01020	BORON, DISSOLVED (UG/L AS B)	10/22/81-10/22/81	0	1	
BRCA0027	No	01020	BORON, DISSOLVED (UG/L AS B)	04/23/81-05/23/82	1	3	
BRCA0052	Yes	01020	BORON, DISSOLVED (UG/L AS B)	07/24/81-07/24/81	0	1	
BRCA0062	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/20/57-05/20/57	0	1	
BRCA0071	Yes	01020	BORON, DISSOLVED (UG/L AS B)	10/22/81-10/22/81	0	1	
BRCA0076	No	01020	BORON, DISSOLVED (UG/L AS B)	07/24/81-07/24/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0083	Yes	01020	BORON, DISSOLVED (UG/L AS B)	09/02/70-09/02/70	0	1	
BRCA0085	No	01020	BORON, DISSOLVED (UG/L AS B)	01/19/77-09/05/79	2	10	
BRCA0087	No	01020	BORON, DISSOLVED (UG/L AS B)	08/19/81-08/19/81	0	1	
BRCA0090	No	01020	BORON, DISSOLVED (UG/L AS B)	06/05/75-06/05/75	0	1	
BRCA0092	No	01020	BORON, DISSOLVED (UG/L AS B)	06/20/79-06/20/79	0	1	
BRCA0093	No	01020	BORON, DISSOLVED (UG/L AS B)	04/21/81-08/25/81	0	2	
BRCA0096	No	01020	BORON, DISSOLVED (UG/L AS B)	10/21/81-10/21/81	0	1	
BRCA0104	No	01020	BORON, DISSOLVED (UG/L AS B)	10/18/81-10/18/81	0	1	
BRCA0108	No	01020	BORON, DISSOLVED (UG/L AS B)	03/12/80-12/08/80	0	2	
BRCA0109	No	01020	BORON, DISSOLVED (UG/L AS B)	10/18/81-10/18/81	0	1	
BRCA0110	No	01020	BORON, DISSOLVED (UG/L AS B)	07/24/81-07/24/81	0	1	
BRCA0113	No	01020	BORON, DISSOLVED (UG/L AS B)	06/20/79-09/05/79	0	5	
BRCA0120	No	01020	BORON, DISSOLVED (UG/L AS B)	07/10/74-06/05/75	0	3	
BRCA0123	No	01020	BORON, DISSOLVED (UG/L AS B)	06/20/79-09/05/79	0	2	
BRCA0133	Yes	01020	BORON, DISSOLVED (UG/L AS B)	11/15/81-11/15/81	0	1	
BRCA0139	Yes	01020	BORON, DISSOLVED (UG/L AS B)	10/21/81-10/21/81	0	1	
BRCA0140	Yes	01020	BORON, DISSOLVED (UG/L AS B)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	01020	BORON, DISSOLVED (UG/L AS B)	03/09/74-03/09/74	0	1	
BRCA0144	Yes	01020	BORON, DISSOLVED (UG/L AS B)	03/11/80-03/11/80	0	1	
BRCA0147	Yes	01020	BORON, DISSOLVED (UG/L AS B)	10/18/81-10/18/81	0	1	
BRCA0161	No	01020	BORON, DISSOLVED (UG/L AS B)	04/21/81-03/02/82	0	2	
BRCA0012	Yes	01022	BORON, TOTAL (UG/L AS B)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	01022	BORON, TOTAL (UG/L AS B)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	01022	BORON, TOTAL (UG/L AS B)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	01022	BORON, TOTAL (UG/L AS B)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	01022	BORON, TOTAL (UG/L AS B)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	01022	BORON, TOTAL (UG/L AS B)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	01022	BORON, TOTAL (UG/L AS B)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	01022	BORON, TOTAL (UG/L AS B)	06/28/96-06/28/96	0	1	
BRCA0103	Yes	01022	BORON, TOTAL (UG/L AS B)	07/02/96-07/02/96	0	1	
BRCA0066	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/22/96-04/24/97	0	3	
BRCA0085	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	01/19/77-11/16/77	0	6	
BRCA0090	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	06/05/75-06/05/75	0	1	
BRCA0113	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/31/93-08/12/97	3	4	
BRCA0115	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/27/76-08/12/77	1	2	
BRCA0120	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	07/10/74-06/05/75	0	3	
BRCA0140	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/09/74-03/09/74	0	1	
BRCA0155	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/31/97-04/30/98	0	3	
BRCA0156	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/30/98-04/30/98	0	1	
BRCA0162	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/23/96-04/24/97	0	4	
BRCA0012	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/96-07/29/96	0	1	
BRCA0066	No	01027	CADMIUM, TOTAL (UG/L AS CD)	05/21/87-05/21/87	0	1	
BRCA0070	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/28/96-06/28/96	0	1	
BRCA0085	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/20/79-08/03/81	2	4	
BRCA0092	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/20/79-06/20/79	0	1	
BRCA0094	No	01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/81-08/03/81	0	2	
BRCA0103	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/02/96-07/02/96	0	1	
BRCA0108	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/12/80-11/30/83	3	3	
BRCA0113	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/20/79-08/13/91	12	12	
BRCA0123	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/20/79-05/19/81	1	3	
BRCA0144	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	03/11/80-06/08/85	5	2	
BRCA0066	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/22/96-04/24/97	0	3	
BRCA0085	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/19/77-11/16/77	0	3	
BRCA0113	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/12/97-08/12/97	0	1	
BRCA0115	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/27/76-08/12/77	1	2	
BRCA0155	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/31/97-04/30/98	0	3	
BRCA0156	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/30/98-04/30/98	0	1	
BRCA0162	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/23/96-04/24/97	0	4	
BRCA0012	Yes	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/28/96-06/28/96	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0081	Yes	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/28/96-06/28/96	0	1	
BRCA0085	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	01/19/77-09/05/79	2	8	
BRCA0090	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/05/75-06/05/75	0	1	
BRCA0092	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/20/79-06/20/79	0	1	
BRCA0103	Yes	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/02/96-07/02/96	0	1	
BRCA0108	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	03/12/80-11/30/83	3	3	
BRCA0113	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/20/79-09/05/79	0	5	
BRCA0120	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/10/74-06/05/75	0	3	
BRCA0123	No	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/20/79-09/05/79	0	2	
BRCA0144	Yes	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	03/11/80-03/11/80	0	1	
BRCA0012	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/96-07/29/96	0	1	
BRCA0066	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/21/87-05/21/87	0	1	
BRCA0070	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/28/96-06/28/96	0	1	
BRCA0085	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/20/79-08/03/81	2	4	
BRCA0092	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/20/79-06/20/79	0	1	
BRCA0094	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/81-08/03/81	0	2	
BRCA0103	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/02/96-07/02/96	0	1	
BRCA0108	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/12/80-11/30/83	3	3	
BRCA0113	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/20/79-08/13/91	12	12	
BRCA0123	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/20/79-05/19/81	1	3	
BRCA0140	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/27/86-02/27/86	0	2	
BRCA0144	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/11/80-06/08/85	5	2	
BRCA0012	Yes	01037	COBALT, TOTAL (UG/L AS CO)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	01037	COBALT, TOTAL (UG/L AS CO)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	01037	COBALT, TOTAL (UG/L AS CO)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	01037	COBALT, TOTAL (UG/L AS CO)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	01037	COBALT, TOTAL (UG/L AS CO)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	01037	COBALT, TOTAL (UG/L AS CO)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	01037	COBALT, TOTAL (UG/L AS CO)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	01037	COBALT, TOTAL (UG/L AS CO)	06/28/96-06/28/96	0	1	
BRCA0103	Yes	01037	COBALT, TOTAL (UG/L AS CO)	07/02/96-07/02/96	0	1	
BRCA0066	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/22/96-04/24/97	0	3	
BRCA0085	No	01040	COPPER, DISSOLVED (UG/L AS CU)	01/19/77-08/17/88	11	7	
BRCA0090	No	01040	COPPER, DISSOLVED (UG/L AS CU)	06/05/75-06/05/75	0	1	
BRCA0092	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/17/88-08/17/88	0	1	
BRCA0094	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/17/88-08/17/88	0	2	
BRCA0113	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/17/88-08/12/97	8	6	
BRCA0115	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/27/76-08/12/77	1	2	
BRCA0120	No	01040	COPPER, DISSOLVED (UG/L AS CU)	07/10/74-06/05/75	0	3	
BRCA0123	No	01040	COPPER, DISSOLVED (UG/L AS CU)	08/17/88-08/17/88	0	1	
BRCA0140	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	03/09/74-03/09/74	0	1	
BRCA0155	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	10/31/97-04/30/98	0	3	
BRCA0156	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	04/30/98-04/30/98	0	1	
BRCA0162	No	01040	COPPER, DISSOLVED (UG/L AS CU)	05/23/96-04/24/97	0	4	
BRCA0012	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/29/96-07/29/96	0	1	
BRCA0066	No	01042	COPPER, TOTAL (UG/L AS CU)	05/21/87-08/17/88	1	2	
BRCA0070	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/28/96-06/28/96	0	1	
BRCA0085	No	01042	COPPER, TOTAL (UG/L AS CU)	06/20/79-08/17/88	9	5	
BRCA0092	No	01042	COPPER, TOTAL (UG/L AS CU)	06/20/79-08/17/88	9	2	
BRCA0094	No	01042	COPPER, TOTAL (UG/L AS CU)	08/03/81-02/14/89	7	6	
BRCA0103	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/02/96-07/02/96	0	1	
BRCA0108	No	01042	COPPER, TOTAL (UG/L AS CU)	03/12/80-11/30/83	3	3	
BRCA0113	No	01042	COPPER, TOTAL (UG/L AS CU)	06/20/79-08/13/91	12	16	S
BRCA0123	No	01042	COPPER, TOTAL (UG/L AS CU)	06/20/79-08/17/88	9	4	
BRCA0144	Yes	01042	COPPER, TOTAL (UG/L AS CU)	03/11/80-06/08/85	5	2	
BRCA0027	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/23/81-04/23/81	0	1	
BRCA0093	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/21/81-08/25/81	0	2	
BRCA0161	No	01044	IRON, SUSPENDED (UG/L AS FE)	04/21/81-04/21/81	0	1	
BRCA0027	No	01045	IRON, TOTAL (UG/L AS FE)	04/23/81-05/23/82	1	3	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0061	Yes	01045	IRON, TOTAL (UG/L AS FE)	09/29/56-09/29/56	0	1	
BRCA0062	Yes	01045	IRON, TOTAL (UG/L AS FE)	11/09/56-11/09/56	0	1	
BRCA0082	Yes	01045	IRON, TOTAL (UG/L AS FE)	11/07/56-11/07/56	0	1	
BRCA0090	No	01045	IRON, TOTAL (UG/L AS FE)	06/05/75-10/28/77	2	7	
BRCA0093	No	01045	IRON, TOTAL (UG/L AS FE)	04/21/81-08/25/81	0	2	
BRCA0097	No	01045	IRON, TOTAL (UG/L AS FE)	10/28/56-10/28/56	0	1	
BRCA0107	No	01045	IRON, TOTAL (UG/L AS FE)	04/21/77-07/15/77	0	3	
BRCA0115	No	01045	IRON, TOTAL (UG/L AS FE)	05/27/76-08/12/77	1	2	
BRCA0120	No	01045	IRON, TOTAL (UG/L AS FE)	07/10/74-10/28/77	3	9	
BRCA0134	Yes	01045	IRON, TOTAL (UG/L AS FE)	10/05/56-10/05/56	0	1	
BRCA0140	Yes	01045	IRON, TOTAL (UG/L AS FE)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	01045	IRON, TOTAL (UG/L AS FE)	03/09/74-03/09/74	0	1	
BRCA0161	No	01045	IRON, TOTAL (UG/L AS FE)	04/21/81-03/02/82	0	2	
BRCA0002	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/30/81-05/24/82	0	2	
BRCA0004	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/07/77-07/07/77	0	1	
BRCA0005	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/28/81-05/22/82	0	2	
BRCA0007	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/07/77-07/07/77	0	1	
BRCA0021	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/22/81-10/22/81	0	1	
BRCA0027	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/23/81-05/23/82	1	3	
BRCA0044	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/13/64-08/13/64	0	1	
BRCA0052	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	07/24/81-05/23/82	0	2	
BRCA0055	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/18/68-08/18/68	0	1	
BRCA0066	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/11/87-04/24/97	9	6	
BRCA0071	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/22/81-10/22/81	0	1	
BRCA0076	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/24/81-05/23/82	0	2	
BRCA0085	No	01046	IRON, DISSOLVED (UG/L AS FE)	01/19/77-08/17/88	11	11	
BRCA0087	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/19/81-08/19/81	0	1	
BRCA0090	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/05/75-06/05/75	0	1	
BRCA0092	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/11/87-08/17/88	1	3	
BRCA0093	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/21/81-08/25/81	0	2	
BRCA0094	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/11/87-08/17/88	1	5	
BRCA0096	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/21/81-10/21/81	0	1	
BRCA0098	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/13/68-08/13/68	0	1	
BRCA0104	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/18/81-10/18/81	0	1	
BRCA0105	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/09/68-08/09/68	0	1	
BRCA0106	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/14/67-08/14/67	0	1	
BRCA0109	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/18/81-10/18/81	0	1	
BRCA0110	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/24/81-05/23/82	0	2	
BRCA0113	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/11/87-08/12/97	10	9	
BRCA0119	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/17/68-08/17/68	0	1	
BRCA0120	No	01046	IRON, DISSOLVED (UG/L AS FE)	07/10/74-06/05/75	0	3	
BRCA0121	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/15/68-08/15/68	0	1	
BRCA0123	No	01046	IRON, DISSOLVED (UG/L AS FE)	06/11/87-08/17/88	1	3	
BRCA0124	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/10/68-08/10/68	0	1	
BRCA0125	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/10/68-08/10/68	0	1	
BRCA0126	No	01046	IRON, DISSOLVED (UG/L AS FE)	08/10/68-08/10/68	0	1	
BRCA0127	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/10/68-08/10/68	0	1	
BRCA0131	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/12/68-08/12/68	0	1	
BRCA0133	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	11/15/81-11/15/81	0	1	
BRCA0135	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/15/68-08/15/68	0	1	
BRCA0139	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/21/81-10/21/81	0	1	
BRCA0140	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	02/27/86-02/27/86	0	2	
BRCA0141	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/19/68-08/19/68	0	1	
BRCA0142	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	03/09/74-03/09/74	0	1	
BRCA0147	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/18/81-10/18/81	0	1	
BRCA0148	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/11/68-08/11/68	0	1	
BRCA0155	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/97-04/30/98	0	3	
BRCA0156	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	04/30/98-04/30/98	0	1	
BRCA0157	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/21/68-08/21/68	0	1	
BRCA0160	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	08/20/68-08/20/68	0	1	
BRCA0161	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/21/81-03/02/82	0	2	
BRCA0162	No	01046	IRON, DISSOLVED (UG/L AS FE)	05/23/96-04/24/97	0	4	
BRCA0066	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/22/96-04/24/97	0	3	
BRCA0085	No	01049	LEAD, DISSOLVED (UG/L AS PB)	01/19/77-11/16/77	0	6	
BRCA0090	No	01049	LEAD, DISSOLVED (UG/L AS PB)	06/05/75-10/28/77	2	7	
BRCA0107	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/21/77-07/15/77	0	3	
BRCA0113	No	01049	LEAD, DISSOLVED (UG/L AS PB)	08/31/93-08/12/97	3	4	
BRCA0115	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/27/76-08/12/77	1	2	
BRCA0120	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/10/74-10/28/77	3	9	
BRCA0140	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	03/09/74-03/09/74	0	1	
BRCA0155	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	10/31/97-04/30/98	0	3	

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Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0156	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	04/30/98-04/30/98	0	1	
BRCA0162	No	01049	LEAD, DISSOLVED (UG/L AS PB)	05/23/96-04/24/97	0	4	
BRCA0012	Yes	01051	LEAD, TOTAL (UG/L AS PB)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	01051	LEAD, TOTAL (UG/L AS PB)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	01051	LEAD, TOTAL (UG/L AS PB)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	01051	LEAD, TOTAL (UG/L AS PB)	07/29/96-07/29/96	0	1	
BRCA0066	No	01051	LEAD, TOTAL (UG/L AS PB)	05/21/87-05/21/87	0	1	
BRCA0070	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/28/96-06/28/96	0	1	
BRCA0085	No	01051	LEAD, TOTAL (UG/L AS PB)	06/20/79-08/03/81	2	4	
BRCA0092	No	01051	LEAD, TOTAL (UG/L AS PB)	06/20/79-06/20/79	0	1	
BRCA0094	No	01051	LEAD, TOTAL (UG/L AS PB)	08/03/81-08/03/81	0	2	
BRCA0103	Yes	01051	LEAD, TOTAL (UG/L AS PB)	07/02/96-07/02/96	0	1	
BRCA0108	No	01051	LEAD, TOTAL (UG/L AS PB)	03/12/80-11/30/83	3	3	
BRCA0113	No	01051	LEAD, TOTAL (UG/L AS PB)	06/20/79-08/13/91	12	12	
BRCA0123	No	01051	LEAD, TOTAL (UG/L AS PB)	06/20/79-05/19/81	1	3	
BRCA0144	Yes	01051	LEAD, TOTAL (UG/L AS PB)	03/11/80-06/08/85	5	2	
BRCA0027	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	04/23/81-05/23/82	1	3	
BRCA0093	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	04/21/81-08/25/81	0	2	
BRCA0161	No	01054	MANGANESE, SUSPENDED (UG/L AS MN)	04/21/81-03/02/82	0	2	
BRCA0012	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	07/12/96-07/12/96	0	1	
BRCA0027	No	01055	MANGANESE, TOTAL (UG/L AS MN)	04/23/81-05/23/82	1	3	
BRCA0036	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/96-07/29/96	0	1	
BRCA0066	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/21/87-08/17/88	1	2	
BRCA0070	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	06/28/96-06/28/96	0	1	
BRCA0085	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/20/79-08/17/88	9	5	
BRCA0092	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/20/79-08/17/88	9	2	
BRCA0093	No	01055	MANGANESE, TOTAL (UG/L AS MN)	04/21/81-08/25/81	0	2	
BRCA0094	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/03/81-02/14/89	7	6	
BRCA0103	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	07/02/96-07/02/96	0	1	
BRCA0108	No	01055	MANGANESE, TOTAL (UG/L AS MN)	03/12/80-11/30/83	3	3	
BRCA0113	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/20/79-08/13/91	12	16	S
BRCA0123	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/20/79-08/17/88	9	4	
BRCA0144	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	03/11/80-06/08/85	5	2	
BRCA0161	No	01055	MANGANESE, TOTAL (UG/L AS MN)	04/21/81-03/02/82	0	2	
BRCA0001	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/80-07/05/80	0	1	
BRCA0002	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/30/81-05/24/82	0	2	
BRCA0003	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/06/80-07/06/80	0	1	
BRCA0004	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/07/77-07/07/77	0	1	
BRCA0005	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/28/81-05/22/82	0	2	
BRCA0007	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/07/77-07/07/77	0	1	
BRCA0008	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/80-07/05/80	0	1	
BRCA0009	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/06/80-07/06/80	0	1	
BRCA0010	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/06/80-07/06/80	0	1	
BRCA0013	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/80-07/14/80	0	1	
BRCA0016	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/80-07/14/80	0	1	
BRCA0021	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/22/81-10/22/81	0	1	
BRCA0027	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/23/81-05/23/82	1	3	
BRCA0033	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/80-07/14/80	0	1	
BRCA0039	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/22/80-07/22/80	0	1	
BRCA0052	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/24/81-05/23/82	0	2	
BRCA0057	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/22/80-07/22/80	0	1	
BRCA0059	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/15/80-07/15/80	0	1	
BRCA0060	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/15/80-07/15/80	0	1	
BRCA0066	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/22/96-04/24/97	0	3	
BRCA0071	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/22/81-10/22/81	0	1	
BRCA0074	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/22/80-07/22/80	0	1	
BRCA0076	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/24/81-05/23/82	0	2	
BRCA0085	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/19/77-08/17/88	11	7	
BRCA0087	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/19/81-08/19/81	0	1	
BRCA0090	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/05/75-06/05/75	0	1	
BRCA0092	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/17/88-08/17/88	0	1	
BRCA0093	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/21/81-08/25/81	0	2	
BRCA0094	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/17/88-08/17/88	0	2	
BRCA0096	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/21/81-10/21/81	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0104	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/18/81-10/18/81	0	1	
BRCA0109	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/18/81-10/18/81	0	1	
BRCA0110	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/24/81-05/23/82	0	2	
BRCA0111	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/22/80-07/22/80	0	1	
BRCA0113	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/17/88-08/12/97	8	3	
BRCA0115	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/27/76-08/12/77	1	2	
BRCA0116	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/22/80-07/22/80	0	1	
BRCA0120	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/10/74-06/05/75	0	3	
BRCA0123	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/17/88-08/17/88	0	1	
BRCA0130	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/18/80-07/18/80	0	1	
BRCA0133	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/15/81-11/15/81	0	1	
BRCA0139	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/21/81-10/21/81	0	1	
BRCA0140	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/09/74-03/09/74	0	1	
BRCA0147	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/18/81-10/18/81	0	1	
BRCA0155	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/97-04/30/98	0	3	
BRCA0156	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/30/98-04/30/98	0	1	
BRCA0161	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/21/81-03/02/82	0	2	
BRCA0162	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/23/96-04/24/97	0	4	
BRCA0163	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/12/80-07/12/80	0	1	
BRCA0012	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	06/28/96-06/28/96	0	1	
BRCA0103	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	07/02/96-07/02/96	0	1	
BRCA0085	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	01/19/77-11/16/77	0	6	
BRCA0140	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	03/09/74-03/09/74	0	1	
BRCA0012	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	06/28/96-06/28/96	0	1	
BRCA0085	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/20/79-08/03/81	2	4	
BRCA0092	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/20/79-06/20/79	0	1	
BRCA0094	No	01067	NICKEL, TOTAL (UG/L AS NI)	08/03/81-08/03/81	0	2	
BRCA0103	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/02/96-07/02/96	0	1	
BRCA0108	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/12/80-12/08/80	0	2	
BRCA0113	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/20/79-08/03/81	2	8	
BRCA0123	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/20/79-05/19/81	1	3	
BRCA0144	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	03/11/80-03/11/80	0	1	
BRCA0066	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/22/96-04/24/97	0	3	
BRCA0085	No	01075	SILVER, DISSOLVED (UG/L AS AG)	01/19/77-11/16/77	0	6	
BRCA0090	No	01075	SILVER, DISSOLVED (UG/L AS AG)	06/05/75-06/05/75	0	1	
BRCA0113	No	01075	SILVER, DISSOLVED (UG/L AS AG)	08/12/97-08/12/97	0	1	
BRCA0115	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/27/76-08/12/77	1	2	
BRCA0120	No	01075	SILVER, DISSOLVED (UG/L AS AG)	07/10/74-06/05/75	0	3	
BRCA0140	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	03/09/74-03/09/74	0	1	
BRCA0155	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	10/31/97-04/30/98	0	3	
BRCA0156	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	04/30/98-04/30/98	0	1	
BRCA0162	No	01075	SILVER, DISSOLVED (UG/L AS AG)	05/23/96-04/24/97	0	4	
BRCA0012	Yes	01077	SILVER, TOTAL (UG/L AS AG)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	01077	SILVER, TOTAL (UG/L AS AG)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	01077	SILVER, TOTAL (UG/L AS AG)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	01077	SILVER, TOTAL (UG/L AS AG)	07/29/96-07/29/96	0	1	
BRCA0066	No	01077	SILVER, TOTAL (UG/L AS AG)	05/21/87-05/21/87	0	1	
BRCA0070	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/28/96-06/28/96	0	1	
BRCA0085	No	01077	SILVER, TOTAL (UG/L AS AG)	06/20/79-08/03/81	2	4	
BRCA0092	No	01077	SILVER, TOTAL (UG/L AS AG)	06/20/79-06/20/79	0	1	
BRCA0094	No	01077	SILVER, TOTAL (UG/L AS AG)	08/03/81-08/03/81	0	2	
BRCA0103	Yes	01077	SILVER, TOTAL (UG/L AS AG)	07/02/96-07/02/96	0	1	

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Station/Parameter Period of Record Tabulation
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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0108	No	01077	SILVER, TOTAL (UG/L AS AG)	03/12/80-11/30/83	3	3	
BRCA0113	No	01077	SILVER, TOTAL (UG/L AS AG)	06/20/79-08/13/91	12	12	
BRCA0123	No	01077	SILVER, TOTAL (UG/L AS AG)	06/20/79-05/19/81	1	3	
BRCA0144	Yes	01077	SILVER, TOTAL (UG/L AS AG)	03/11/80-06/08/85	5	2	
BRCA0001	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/05/80-07/05/80	0	1	
BRCA0003	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/06/80-07/06/80	0	1	
BRCA0006	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	0	1	
BRCA0008	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/05/80-07/05/80	0	1	
BRCA0009	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/06/80-07/06/80	0	1	
BRCA0010	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/06/80-07/06/80	0	1	
BRCA0013	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	0	1	
BRCA0016	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	0	1	
BRCA0017	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	0	1	
BRCA0033	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	0	1	
BRCA0034	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	0	1	
BRCA0039	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/22/80-07/22/80	0	1	
BRCA0045	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/15/80-07/15/80	0	1	
BRCA0048	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	0	1	
BRCA0051	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	0	1	
BRCA0057	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/22/80-07/22/80	0	1	
BRCA0059	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/15/80-07/15/80	0	1	
BRCA0060	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/15/80-07/15/80	0	1	
BRCA0074	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/22/80-07/22/80	0	1	
BRCA0075	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	0	1	
BRCA0100	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/11/80-07/11/80	0	1	
BRCA0111	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/22/80-07/22/80	0	1	
BRCA0116	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/22/80-07/22/80	0	1	
BRCA0130	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/18/80-07/18/80	0	1	
BRCA0163	No	01085	VANADIUM, DISSOLVED (UG/L AS V)	07/12/80-07/12/80	0	1	
BRCA0066	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/22/96-04/24/97	0	3	
BRCA0085	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	01/19/77-08/17/88	11	8	
BRCA0090	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	06/05/75-06/05/75	0	1	
BRCA0092	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/17/88-08/17/88	0	1	
BRCA0094	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/17/88-08/17/88	0	2	
BRCA0113	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/17/88-08/12/97	8	3	
BRCA0115	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/27/76-08/12/77	1	2	
BRCA0120	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/10/74-06/05/75	0	3	
BRCA0123	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	08/17/88-08/17/88	0	1	
BRCA0140	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	03/09/74-03/09/74	0	1	
BRCA0155	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/31/97-04/30/98	0	3	
BRCA0156	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/30/98-04/30/98	0	1	
BRCA0162	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	05/23/96-04/24/97	0	4	
BRCA0012	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/29/96-07/29/96	0	1	
BRCA0066	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/21/87-08/17/88	1	2	
BRCA0070	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	06/28/96-06/28/96	0	1	
BRCA0085	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/20/79-08/17/88	9	5	
BRCA0092	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/20/79-08/17/88	9	2	
BRCA0094	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/03/81-02/14/89	7	6	
BRCA0103	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/02/96-07/02/96	0	1	
BRCA0108	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/12/80-11/30/83	3	3	
BRCA0113	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/20/79-08/13/91	12	16	S
BRCA0123	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/20/79-08/17/88	9	4	
BRCA0144	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	03/11/80-06/08/85	5	2	
BRCA0012	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	06/28/96-06/28/96	0	1	
BRCA0103	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/02/96-07/02/96	0	1	
BRCA0001	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/05/80-07/05/80	0	1	
BRCA0003	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/06/80-07/06/80	0	1	
BRCA0006	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/14/80-07/14/80	0	1	

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0008	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/05/80-07/05/80	0	1	
BRCA0009	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/06/80-07/06/80	0	1	
BRCA0010	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/06/80-07/06/80	0	1	
BRCA0017	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/14/80-07/14/80	0	1	
BRCA0034	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/14/80-07/14/80	0	1	
BRCA0039	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/22/80-07/22/80	0	1	
BRCA0045	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/15/80-07/15/80	0	1	
BRCA0057	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/22/80-07/22/80	0	1	
BRCA0060	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/15/80-07/15/80	0	1	
BRCA0066	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/22/96-04/24/97	0	3	
BRCA0090	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	06/05/75-06/05/75	0	1	
BRCA0111	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/22/80-07/22/80	0	1	
BRCA0113	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/12/97-08/12/97	0	1	
BRCA0120	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/10/74-06/05/75	0	3	
BRCA0155	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/31/97-04/30/98	0	3	
BRCA0156	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/30/98-04/30/98	0	1	
BRCA0162	No	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/23/96-04/24/97	0	4	
BRCA0066	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/22/96-04/24/97	0	3	
BRCA0085	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	01/19/77-08/23/78	1	7	
BRCA0090	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	06/05/75-06/05/75	0	1	
BRCA0113	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/31/93-08/12/97	3	4	
BRCA0120	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	07/10/74-06/05/75	0	3	
BRCA0140	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/09/74-03/09/74	0	1	
BRCA0155	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/31/97-04/30/98	0	3	
BRCA0156	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/30/98-04/30/98	0	1	
BRCA0162	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/23/96-04/24/97	0	4	
BRCA0066	No	01147	SELENIUM, TOTAL (UG/L AS SE)	05/21/87-05/21/87	0	1	
BRCA0085	No	01147	SELENIUM, TOTAL (UG/L AS SE)	06/20/79-08/03/81	2	4	
BRCA0092	No	01147	SELENIUM, TOTAL (UG/L AS SE)	06/20/79-06/20/79	0	1	
BRCA0094	No	01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/81-08/03/81	0	2	
BRCA0108	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/12/80-11/30/83	3	3	
BRCA0113	No	01147	SELENIUM, TOTAL (UG/L AS SE)	06/20/79-08/13/91	12	12	
BRCA0123	No	01147	SELENIUM, TOTAL (UG/L AS SE)	06/20/79-05/19/81	1	3	
BRCA0144	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	03/11/80-06/08/85	5	2	
BRCA0140	Yes	01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	03/09/74-03/09/74	0	1	
BRCA0108	No	01501	ALPHA, TOTAL	07/29/81-12/06/89	8	5	
BRCA0144	Yes	01501	ALPHA, TOTAL	11/02/81-04/07/82	0	2	
BRCA0108	No	09501	RADIUM 226, TOTAL	07/29/81-07/29/81	0	1	
BRCA0001	No	22703	URANIUM, NATURAL, DISSOLVED	07/05/80-07/05/80	0	1	
BRCA0003	No	22703	URANIUM, NATURAL, DISSOLVED	07/06/80-07/06/80	0	1	
BRCA0006	No	22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	0	1	
BRCA0008	No	22703	URANIUM, NATURAL, DISSOLVED	07/05/80-07/05/80	0	1	
BRCA0009	No	22703	URANIUM, NATURAL, DISSOLVED	07/06/80-07/06/80	0	1	
BRCA0010	No	22703	URANIUM, NATURAL, DISSOLVED	07/06/80-07/06/80	0	1	
BRCA0013	No	22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	0	1	
BRCA0016	No	22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	0	1	
BRCA0017	No	22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	0	1	
BRCA0033	No	22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	0	1	
BRCA0034	No	22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	0	1	
BRCA0039	No	22703	URANIUM, NATURAL, DISSOLVED	07/22/80-07/22/80	0	1	
BRCA0045	No	22703	URANIUM, NATURAL, DISSOLVED	07/15/80-07/15/80	0	1	
BRCA0048	No	22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	0	1	
BRCA0051	No	22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	0	1	
BRCA0057	No	22703	URANIUM, NATURAL, DISSOLVED	07/22/80-07/22/80	0	1	
BRCA0059	No	22703	URANIUM, NATURAL, DISSOLVED	07/15/80-07/15/80	0	1	
BRCA0060	No	22703	URANIUM, NATURAL, DISSOLVED	07/15/80-07/15/80	0	1	
BRCA0074	No	22703	URANIUM, NATURAL, DISSOLVED	07/22/80-07/22/80	0	1	
BRCA0075	No	22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	0	1	
BRCA0100	No	22703	URANIUM, NATURAL, DISSOLVED	07/11/80-07/11/80	0	1	
BRCA0111	No	22703	URANIUM, NATURAL, DISSOLVED	07/22/80-07/22/80	0	1	
BRCA0116	No	22703	URANIUM, NATURAL, DISSOLVED	07/22/80-07/22/80	0	1	
BRCA0130	No	22703	URANIUM, NATURAL, DISSOLVED	07/18/80-07/18/80	0	1	
BRCA0163	No	22703	URANIUM, NATURAL, DISSOLVED	07/12/80-07/12/80	0	1	
BRCA0015	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	06/21/79-06/21/79	0	1	
BRCA0018	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	06/21/79-07/25/79	0	2	
BRCA0085	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	05/30/91-08/13/91	0	2	
BRCA0090	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	05/18/79-07/25/79	0	2	
BRCA0107	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	05/18/79-07/25/79	0	2	
BRCA0113	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	05/30/91-08/13/91	0	2	
BRCA0085	No	31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	01/19/77-09/05/79	2	12	

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Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0092	No	31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	06/20/79-06/20/79	0	1	
BRCA0094	No	31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	06/20/79-09/05/79	0	3	
BRCA0113	No	31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	06/20/79-09/05/79	0	4	
BRCA0123	No	31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	06/20/79-09/09/79	0	2	
BRCA0011	Yes	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/23/81-08/04/81	0	2	
BRCA0023	Yes	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/23/81-06/23/81	0	1	
BRCA0026	Yes	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	07/08/81-07/08/81	0	1	
BRCA0032	Yes	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/24/81-08/18/81	0	3	
BRCA0037	Yes	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/24/81-08/18/81	0	3	
BRCA0038	Yes	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/24/81-07/20/81	0	4	
BRCA0063	Yes	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/23/81-08/18/81	0	3	
BRCA0064	Yes	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/23/81-06/23/81	0	1	
BRCA0068	Yes	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/24/81-08/18/81	0	3	
BRCA0073	Yes	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/23/81-08/18/81	0	4	
BRCA0078	Yes	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	08/04/81-08/04/81	0	1	
BRCA0079	Yes	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/23/81-08/18/81	0	5	
BRCA0101	Yes	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	07/20/81-07/20/81	0	1	
BRCA0137	Yes	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/24/81-06/24/81	0	1	
BRCA0143	Yes	31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	07/08/81-07/08/81	0	1	
BRCA0015	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/26/76-06/21/79	3	8	
BRCA0018	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/26/76-07/25/79	3	12	
BRCA0085	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/30/91-08/13/91	0	2	
BRCA0090	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/26/76-07/25/79	3	13	
BRCA0107	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/26/76-07/25/79	3	9	
BRCA0113	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/30/91-08/13/91	0	2	
BRCA0115	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/27/76-08/12/77	1	5	
BRCA0120	No	31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/26/76-10/28/77	1	10	
BRCA0085	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	01/19/77-09/05/79	2	11	
BRCA0092	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	06/20/79-06/20/79	0	1	
BRCA0094	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	06/20/79-09/05/79	0	3	
BRCA0113	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	06/20/79-09/05/79	0	2	
BRCA0123	No	31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	06/20/79-09/09/79	0	2	
BRCA0011	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-08/04/81	0	2	
BRCA0015	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/75-09/30/75	0	5	
BRCA0018	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/75-09/30/75	0	5	
BRCA0023	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-06/23/81	0	1	
BRCA0026	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/08/81-07/08/81	0	1	
BRCA0032	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/24/81-08/18/81	0	3	
BRCA0037	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/24/81-08/18/81	0	3	
BRCA0038	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/24/81-07/20/81	0	4	
BRCA0063	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-08/18/81	0	3	
BRCA0064	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-06/23/81	0	1	
BRCA0068	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/24/81-08/18/81	0	3	
BRCA0073	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-08/18/81	0	4	
BRCA0078	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	08/04/81-08/04/81	0	1	
BRCA0079	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-08/18/81	0	4	
BRCA0090	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/75-09/30/75	0	5	
BRCA0115	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/75-09/30/75	0	5	
BRCA0120	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/75-09/30/75	0	4	
BRCA0137	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/24/81-06/24/81	0	1	
BRCA0143	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/08/81-07/08/81	0	1	
BRCA0085	No	31672	FECAL STREPTOCOCCI,PLATE COUNT M-ENTER AGAR,35C48	05/30/91-08/13/91	0	2	
BRCA0113	No	31672	FECAL STREPTOCOCCI,PLATE COUNT M-ENTER AGAR,35C48	05/30/91-08/13/91	0	2	
BRCA0011	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-08/04/81	0	2	
BRCA0023	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-06/23/81	0	1	
BRCA0026	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/08/81-07/08/81	0	1	
BRCA0032	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/24/81-08/18/81	0	3	
BRCA0037	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/24/81-08/18/81	0	3	
BRCA0038	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/24/81-07/20/81	0	4	
BRCA0063	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-08/18/81	0	3	
BRCA0064	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-06/23/81	0	1	
BRCA0068	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/24/81-08/18/81	0	3	
BRCA0073	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-08/18/81	0	4	
BRCA0078	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/04/81-08/04/81	0	1	
BRCA0079	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-08/18/81	0	5	
BRCA0101	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/20/81-07/20/81	0	1	
BRCA0137	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/24/81-06/24/81	0	1	
BRCA0143	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/08/81-07/08/81	0	1	
BRCA0094	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/11/87-06/03/93	5	8	
BRCA0113	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/11/87-08/12/97	10	17	
BRCA0095	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/08/75-09/25/75	0	2	
BRCA0118	No	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/14/75-09/25/75	0	2	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0085	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	01/19/77-11/16/77	0	6	
BRCA0142	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	03/09/74-03/09/74	0	1	
BRCA0012	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	07/12/96-07/12/96	0	1	
BRCA0014	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	07/12/96-07/12/96	0	1	
BRCA0036	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	07/09/96-07/09/96	0	1	
BRCA0041	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	07/29/96-07/29/96	0	1	
BRCA0044	No	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/13/64-08/13/64	0	1	
BRCA0055	No	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/18/68-08/18/68	0	1	
BRCA0070	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	06/18/96-06/18/96	0	1	
BRCA0077	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	06/18/96-06/18/96	0	1	
BRCA0080	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	06/28/96-06/28/96	0	1	
BRCA0081	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	06/28/96-06/28/96	0	1	
BRCA0098	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/13/68-08/13/68	0	1	
BRCA0103	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	07/02/96-07/02/96	0	1	
BRCA0105	No	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/09/68-08/09/68	0	1	
BRCA0106	No	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/14/67-08/14/67	0	1	
BRCA0119	No	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/17/68-08/17/68	0	1	
BRCA0121	No	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/15/68-08/15/68	0	1	
BRCA0124	No	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/10/68-08/10/68	0	1	
BRCA0125	No	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/10/68-08/10/68	0	1	
BRCA0126	No	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/10/68-08/10/68	0	1	
BRCA0127	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/10/68-08/10/68	0	1	
BRCA0131	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/12/68-08/12/68	0	1	
BRCA0135	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/15/68-08/15/68	0	1	
BRCA0141	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/19/68-08/19/68	0	1	
BRCA0148	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/11/68-08/11/68	0	1	
BRCA0157	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/21/68-08/21/68	0	1	
BRCA0160	Yes	45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/20/68-08/20/68	0	1	
BRCA0012	Yes	45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	07/12/96-07/12/96	0	1	
BRCA0014	Yes	45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	07/12/96-07/12/96	0	1	
BRCA0036	Yes	45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	07/09/96-07/09/96	0	1	
BRCA0041	Yes	45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	07/29/96-07/29/96	0	1	
BRCA0070	Yes	45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	06/18/96-06/18/96	0	1	
BRCA0077	Yes	45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	06/18/96-06/18/96	0	1	
BRCA0080	Yes	45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	06/28/96-06/28/96	0	1	
BRCA0081	Yes	45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	06/28/96-06/28/96	0	1	
BRCA0103	Yes	45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	07/02/96-07/02/96	0	1	
BRCA0142	Yes	46003	PHOSPHATE, TOTAL, FILTER PASSING (MG/L AS P)	03/09/74-03/09/74	0	1	
BRCA0012	Yes	46123	IRON, FERROUS, AS FE MG/L	07/12/96-07/12/96	0	1	
BRCA0014	Yes	46123	IRON, FERROUS, AS FE MG/L	07/12/96-07/12/96	0	1	
BRCA0036	Yes	46123	IRON, FERROUS, AS FE MG/L	07/09/96-07/09/96	0	1	
BRCA0041	Yes	46123	IRON, FERROUS, AS FE MG/L	07/29/96-07/29/96	0	1	
BRCA0077	Yes	46123	IRON, FERROUS, AS FE MG/L	06/18/96-06/18/96	0	1	
BRCA0080	Yes	46123	IRON, FERROUS, AS FE MG/L	06/28/96-06/28/96	0	1	
BRCA0081	Yes	46123	IRON, FERROUS, AS FE MG/L	06/28/96-06/28/96	0	1	
BRCA0103	Yes	46123	IRON, FERROUS, AS FE MG/L	07/02/96-07/02/96	0	1	
BRCA0001	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/05/80-07/05/80	0	1	
BRCA0003	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/06/80-07/06/80	0	1	
BRCA0006	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0008	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/05/80-07/05/80	0	1	
BRCA0009	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/06/80-07/06/80	0	1	
BRCA0010	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/06/80-07/06/80	0	1	
BRCA0013	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0016	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0017	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0033	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0034	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0039	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	0	1	
BRCA0045	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/15/80-07/15/80	0	1	
BRCA0051	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0057	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	0	1	
BRCA0059	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/15/80-07/15/80	0	1	
BRCA0060	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/15/80-07/15/80	0	1	
BRCA0075	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0100	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/11/80-07/11/80	0	1	
BRCA0111	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	0	1	
BRCA0116	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	0	1	
BRCA0130	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/18/80-07/18/80	0	1	
BRCA0163	No	50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/12/80-07/12/80	0	1	
BRCA0001	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/05/80-07/05/80	0	1	
BRCA0003	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/06/80-07/06/80	0	1	
BRCA0006	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	

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

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0008	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/05/80-07/05/80	0	1	
BRCA0009	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/06/80-07/06/80	0	1	
BRCA0010	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/06/80-07/06/80	0	1	
BRCA0013	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0016	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0017	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0033	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0034	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0039	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	0	1	
BRCA0045	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/15/80-07/15/80	0	1	
BRCA0048	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0051	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0057	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	0	1	
BRCA0059	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/15/80-07/15/80	0	1	
BRCA0060	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/15/80-07/15/80	0	1	
BRCA0100	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/11/80-07/11/80	0	1	
BRCA0111	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	0	1	
BRCA0116	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	0	1	
BRCA0130	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/18/80-07/18/80	0	1	
BRCA0163	No	50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/12/80-07/12/80	0	1	
BRCA0001	No	50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/05/80-07/05/80	0	1	
BRCA0039	No	50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	0	1	
BRCA0048	No	50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0051	No	50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0057	No	50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	0	1	
BRCA0060	No	50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/15/80-07/15/80	0	1	
BRCA0075	No	50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	0	1	
BRCA0116	No	50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	0	1	
BRCA0130	No	50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/18/80-07/18/80	0	1	
BRCA0012	Yes	70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	07/12/96-07/12/96	0	1	
BRCA0014	Yes	70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	07/12/96-07/12/96	0	1	
BRCA0036	Yes	70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	07/09/96-07/09/96	0	1	
BRCA0041	Yes	70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	07/29/96-07/29/96	0	1	
BRCA0070	Yes	70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	06/18/96-06/18/96	0	1	
BRCA0077	Yes	70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	06/18/96-06/18/96	0	1	
BRCA0080	Yes	70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	06/28/96-06/28/96	0	1	
BRCA0081	Yes	70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	06/28/96-06/28/96	0	1	
BRCA0103	Yes	70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	07/02/96-07/02/96	0	1	
BRCA0015	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/77-06/21/79	2	4	
BRCA0018	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/77-06/21/79	2	5	
BRCA0020	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/06/90-05/11/93	2	2	
BRCA0027	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/23/81-05/23/82	1	3	
BRCA0066	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/21/87-05/22/97	10	19	
BRCA0083	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/02/70-09/02/70	0	1	
BRCA0085	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/19/77-08/12/97	20	28	T,S
BRCA0090	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/05/75-06/21/79	4	3	
BRCA0092	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/20/79-08/17/88	9	4	
BRCA0093	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/81-08/25/81	0	2	
BRCA0094	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/05/79-06/03/93	13	12	
BRCA0107	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/18/79-06/21/79	0	2	
BRCA0108	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/12/80-11/30/83	3	3	
BRCA0113	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/20/79-08/12/97	18	29	T,S
BRCA0115	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/27/76-08/12/77	1	2	
BRCA0117	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/21/68-05/21/68	0	1	
BRCA0120	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/10/74-06/05/75	0	3	
BRCA0123	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/20/79-08/17/88	9	6	
BRCA0132	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/21/68-05/21/68	0	1	
BRCA0140	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/27/86-02/27/86	0	2	
BRCA0142	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/09/74-03/09/74	0	1	
BRCA0144	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/11/80-06/08/85	5	2	
BRCA0155	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/17/97-06/09/98	0	9	
BRCA0156	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/30/98-06/09/98	0	3	
BRCA0161	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/81-03/02/82	0	2	
BRCA0162	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/15/93-05/22/97	4	14	
BRCA0002	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/30/81-05/24/82	0	2	
BRCA0004	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/07/77-07/07/77	0	1	
BRCA0005	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/28/81-05/22/82	0	2	
BRCA0007	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/07/77-07/07/77	0	1	
BRCA0021	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/22/81-10/22/81	0	1	
BRCA0027	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/82-05/23/82	0	1	
BRCA0052	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/24/81-05/23/82	0	2	
BRCA0056	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/14/57-10/14/57	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0062	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/09/56-05/20/57	0	2	
BRCA0067	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/14/57-10/14/57	0	1	
BRCA0071	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/22/81-10/22/81	0	1	
BRCA0076	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/24/81-05/23/82	0	2	
BRCA0082	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/21/57-06/21/57	0	1	
BRCA0083	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/02/70-09/02/70	0	1	
BRCA0087	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/19/81-08/19/81	0	1	
BRCA0093	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/25/81-08/25/81	0	1	
BRCA0096	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/21/81-10/21/81	0	1	
BRCA0097	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/28/56-05/18/57	0	2	
BRCA0104	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/18/81-10/18/81	0	1	
BRCA0109	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/18/81-10/18/81	0	1	
BRCA0110	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/24/81-05/23/82	0	2	
BRCA0117	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/21/68-05/21/68	0	1	
BRCA0132	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/21/68-05/21/68	0	1	
BRCA0133	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/15/81-11/15/81	0	1	
BRCA0134	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/05/56-05/18/57	0	2	
BRCA0139	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/21/81-10/21/81	0	1	
BRCA0147	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/18/81-10/18/81	0	1	
BRCA0027	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	04/23/81-05/23/82	1	3	
BRCA0093	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	04/21/81-08/25/81	0	2	
BRCA0161	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	04/21/81-03/02/82	0	2	
BRCA0004	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/07/77-07/07/77	0	1	
BRCA0007	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/07/77-07/07/77	0	1	
BRCA0027	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/23/81-05/23/82	1	3	
BRCA0093	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/21/81-08/25/81	0	2	
BRCA0161	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/21/81-03/02/82	0	2	
BRCA0012	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/12/96-07/12/96	0	1	
BRCA0022	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/26/96-07/26/96	0	1	
BRCA0024	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/26/96-07/26/96	0	1	
BRCA0028	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	08/05/96-08/05/96	0	1	
BRCA0031	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	08/05/96-08/05/96	0	1	
BRCA0035	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/09/96-07/09/96	0	1	
BRCA0036	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/29/96-07/29/96	0	1	
BRCA0047	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/30/96-07/30/96	0	1	
BRCA0049	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/23/96-07/23/96	0	1	
BRCA0070	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/28/96-06/28/96	0	1	
BRCA0103	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/02/96-07/02/96	0	1	
BRCA0129	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/04/96-07/04/96	0	1	
BRCA0136	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/26/96-06/26/96	0	1	
BRCA0149	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/12/96-06/12/96	0	1	
BRCA0151	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/11/96-06/11/96	0	1	
BRCA0152	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/11/96-06/11/96	0	1	
BRCA0154	Yes	70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/11/96-06/11/96	0	1	
BRCA0085	No	70324	SOLIDS, VOLATILE SUSPENDED IN MIXED LIQUOR (MG/L)	05/30/91-08/12/97	6	7	
BRCA0094	No	70324	SOLIDS, VOLATILE SUSPENDED IN MIXED LIQUOR (MG/L)	06/03/93-06/03/93	0	1	
BRCA0113	No	70324	SOLIDS, VOLATILE SUSPENDED IN MIXED LIQUOR (MG/L)	05/30/91-08/12/97	6	8	
BRCA0162	No	70324	SOLIDS, VOLATILE SUSPENDED IN MIXED LIQUOR (MG/L)	05/15/93-09/09/94	1	3	
BRCA0020	No	71830	HYDROXIDE ION (MG/L AS OH)	09/06/90-05/11/93	2	2	
BRCA0066	No	71830	HYDROXIDE ION (MG/L AS OH)	05/21/87-05/22/97	10	19	
BRCA0085	No	71830	HYDROXIDE ION (MG/L AS OH)	01/19/77-06/11/97	20	17	
BRCA0092	No	71830	HYDROXIDE ION (MG/L AS OH)	06/20/79-08/17/88	9	4	
BRCA0094	No	71830	HYDROXIDE ION (MG/L AS OH)	08/03/81-06/14/90	8	10	
BRCA0113	No	71830	HYDROXIDE ION (MG/L AS OH)	06/20/79-08/12/97	18	27	T,S
BRCA0123	No	71830	HYDROXIDE ION (MG/L AS OH)	06/20/79-08/17/88	9	6	
BRCA0140	Yes	71830	HYDROXIDE ION (MG/L AS OH)	02/27/86-02/27/86	0	2	
BRCA0142	Yes	71830	HYDROXIDE ION (MG/L AS OH)	03/09/74-03/09/74	0	1	
BRCA0155	Yes	71830	HYDROXIDE ION (MG/L AS OH)	09/17/97-06/09/98	0	9	
BRCA0156	Yes	71830	HYDROXIDE ION (MG/L AS OH)	04/30/98-06/09/98	0	3	
BRCA0162	No	71830	HYDROXIDE ION (MG/L AS OH)	04/04/96-05/22/97	1	11	
BRCA0012	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/28/96-06/28/96	0	1	

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

Station/Parameter Period of Record Tabulation
From 09/29/56 To 06/09/98

Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0081	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/28/96-06/28/96	0	1	
BRCA0103	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/02/96-07/02/96	0	1	
BRCA0044	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/13/64-08/13/64	0	1	
BRCA0055	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/18/68-08/18/68	0	1	
BRCA0056	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/14/57-10/14/57	0	1	
BRCA0061	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/29/56-09/29/56	0	1	
BRCA0062	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/09/56-05/20/57	0	2	
BRCA0067	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/14/57-10/14/57	0	1	
BRCA0082	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/07/56-06/21/57	0	2	
BRCA0083	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/02/70-09/02/70	0	1	
BRCA0097	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/28/56-05/18/57	0	2	
BRCA0098	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/13/68-08/13/68	0	1	
BRCA0105	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/68-08/09/68	0	1	
BRCA0106	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/14/67-08/14/67	0	1	
BRCA0117	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/21/68-05/21/68	0	1	
BRCA0119	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/17/68-08/17/68	0	1	
BRCA0121	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/15/68-08/15/68	0	1	
BRCA0124	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/10/68-08/10/68	0	1	
BRCA0125	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/10/68-08/10/68	0	1	
BRCA0127	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/10/68-08/10/68	0	1	
BRCA0131	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/12/68-08/12/68	0	1	
BRCA0132	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/21/68-05/21/68	0	1	
BRCA0134	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/05/56-05/18/57	0	2	
BRCA0135	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/15/68-08/15/68	0	1	
BRCA0141	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/19/68-08/19/68	0	1	
BRCA0148	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/11/68-08/11/68	0	1	
BRCA0157	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/21/68-08/21/68	0	1	
BRCA0160	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/20/68-08/20/68	0	1	
BRCA0012	Yes	71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	06/28/96-06/28/96	0	1	
BRCA0103	Yes	71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	07/02/96-07/02/96	0	1	
BRCA0012	Yes	71865	IODIDE (MG/L AS I)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	71865	IODIDE (MG/L AS I)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	71865	IODIDE (MG/L AS I)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	71865	IODIDE (MG/L AS I)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	71865	IODIDE (MG/L AS I)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	71865	IODIDE (MG/L AS I)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	71865	IODIDE (MG/L AS I)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	71865	IODIDE (MG/L AS I)	06/28/96-06/28/96	0	1	
BRCA0103	Yes	71865	IODIDE (MG/L AS I)	07/02/96-07/02/96	0	1	
BRCA0012	Yes	71870	BROMIDE (MG/L AS BR)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	71870	BROMIDE (MG/L AS BR)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	71870	BROMIDE (MG/L AS BR)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	71870	BROMIDE (MG/L AS BR)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	71870	BROMIDE (MG/L AS BR)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	71870	BROMIDE (MG/L AS BR)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	71870	BROMIDE (MG/L AS BR)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	71870	BROMIDE (MG/L AS BR)	06/28/96-06/28/96	0	1	
BRCA0103	Yes	71870	BROMIDE (MG/L AS BR)	07/02/96-07/02/96	0	1	
BRCA0083	Yes	71885	IRON (UG/L AS FE)	09/02/70-09/02/70	0	1	
BRCA0020	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/06/90-09/06/90	0	1	
BRCA0066	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/21/87-09/06/90	3	5	
BRCA0085	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	06/20/79-08/14/90	11	4	
BRCA0092	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	06/20/79-06/20/79	0	1	
BRCA0094	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/19/81-05/19/81	0	1	
BRCA0113	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	06/20/79-08/15/90	11	8	
BRCA0123	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	06/20/79-08/14/90	11	4	
BRCA0066	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	05/22/96-04/24/97	0	3	
BRCA0090	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	06/05/75-06/05/75	0	1	
BRCA0113	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	08/31/93-08/12/97	3	4	
BRCA0115	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	05/27/76-08/12/77	1	2	
BRCA0120	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	07/10/74-06/05/75	0	3	
BRCA0140	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	02/27/86-02/27/86	0	2	
BRCA0155	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/31/97-04/30/98	0	3	
BRCA0156	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/30/98-04/30/98	0	1	
BRCA0162	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	05/23/96-04/24/97	0	4	

[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]
BRCA0012	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	07/29/96-07/29/96	0	1	
BRCA0066	No	71900	MERCURY, TOTAL (UG/L AS HG)	05/21/87-05/21/87	0	1	
BRCA0070	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	06/28/96-06/28/96	0	1	
BRCA0085	No	71900	MERCURY, TOTAL (UG/L AS HG)	01/19/77-08/03/81	4	10	
BRCA0092	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/20/79-06/20/79	0	1	
BRCA0094	No	71900	MERCURY, TOTAL (UG/L AS HG)	08/03/81-08/03/81	0	2	
BRCA0103	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	07/02/96-07/02/96	0	1	
BRCA0108	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/12/80-11/30/83	3	3	
BRCA0113	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/20/79-08/13/91	12	12	
BRCA0123	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/20/79-05/19/81	1	3	
BRCA0144	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/11/80-06/08/85	5	2	
BRCA0092	No	71910	GOLD, TOTAL (UG/L AS AU)	06/20/79-06/20/79	0	1	
BRCA0083	Yes	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	09/02/70-09/02/70	0	1	
BRCA0117	No	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	05/21/68-05/21/68	0	1	
BRCA0132	Yes	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	05/21/68-05/21/68	0	1	
BRCA0094	No	72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	06/20/79-06/03/93	13	16	
BRCA0113	No	72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	06/20/79-08/12/97	18	49	T,S
BRCA0095	No	72025	DEPTH OF POND OR RESERVOIR IN FEET	05/08/75-09/25/75	0	2	
BRCA0118	No	72025	DEPTH OF POND OR RESERVOIR IN FEET	08/14/75-09/25/75	0	2	
BRCA0012	Yes	74010	IRON, TOTAL (MG/L AS FE)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	74010	IRON, TOTAL (MG/L AS FE)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	74010	IRON, TOTAL (MG/L AS FE)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	74010	IRON, TOTAL (MG/L AS FE)	07/29/96-07/29/96	0	1	
BRCA0066	No	74010	IRON, TOTAL (MG/L AS FE)	05/21/87-08/17/88	1	4	
BRCA0070	Yes	74010	IRON, TOTAL (MG/L AS FE)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	74010	IRON, TOTAL (MG/L AS FE)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	74010	IRON, TOTAL (MG/L AS FE)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	74010	IRON, TOTAL (MG/L AS FE)	06/28/96-06/28/96	0	1	
BRCA0085	No	74010	IRON, TOTAL (MG/L AS FE)	01/19/77-08/17/88	11	14	
BRCA0092	No	74010	IRON, TOTAL (MG/L AS FE)	06/20/79-08/17/88	9	4	
BRCA0094	No	74010	IRON, TOTAL (MG/L AS FE)	08/03/81-02/14/89	7	9	
BRCA0103	Yes	74010	IRON, TOTAL (MG/L AS FE)	07/02/96-07/02/96	0	1	
BRCA0108	No	74010	IRON, TOTAL (MG/L AS FE)	03/12/80-11/30/83	3	3	
BRCA0113	No	74010	IRON, TOTAL (MG/L AS FE)	06/20/79-08/13/91	12	22	S
BRCA0123	No	74010	IRON, TOTAL (MG/L AS FE)	06/20/79-08/17/88	9	6	
BRCA0144	Yes	74010	IRON, TOTAL (MG/L AS FE)	03/11/80-06/08/85	5	2	
BRCA0043	No	74070	FLOW GAL/SEC	08/03/64-08/03/64	0	1	
BRCA0044	No	74070	FLOW GAL/SEC	08/13/64-08/13/64	0	1	
BRCA0050	No	74070	FLOW GAL/SEC	08/19/68-08/19/68	0	1	
BRCA0055	No	74070	FLOW GAL/SEC	08/18/68-08/18/68	0	1	
BRCA0069	Yes	74070	FLOW GAL/SEC	08/18/68-08/18/68	0	1	
BRCA0098	Yes	74070	FLOW GAL/SEC	08/13/68-08/13/68	0	1	
BRCA0099	Yes	74070	FLOW GAL/SEC	08/13/68-08/13/68	0	1	
BRCA0102	Yes	74070	FLOW GAL/SEC	08/13/68-08/13/68	0	1	
BRCA0105	No	74070	FLOW GAL/SEC	08/09/68-08/09/68	0	1	
BRCA0119	No	74070	FLOW GAL/SEC	08/17/68-08/17/68	0	1	
BRCA0121	No	74070	FLOW GAL/SEC	08/15/68-08/15/68	0	1	
BRCA0124	No	74070	FLOW GAL/SEC	08/10/68-08/10/68	0	1	
BRCA0125	No	74070	FLOW GAL/SEC	08/10/68-08/10/68	0	1	
BRCA0126	No	74070	FLOW GAL/SEC	08/10/68-08/10/68	0	1	
BRCA0127	Yes	74070	FLOW GAL/SEC	08/10/68-08/10/68	0	1	
BRCA0131	Yes	74070	FLOW GAL/SEC	08/12/68-08/12/68	0	1	
BRCA0135	Yes	74070	FLOW GAL/SEC	08/15/68-08/15/68	0	1	
BRCA0138	Yes	74070	FLOW GAL/SEC	08/20/68-08/20/68	0	1	
BRCA0141	Yes	74070	FLOW GAL/SEC	08/19/68-08/19/68	0	1	
BRCA0148	Yes	74070	FLOW GAL/SEC	08/11/68-08/11/68	0	1	
BRCA0150	Yes	74070	FLOW GAL/SEC	08/11/68-08/11/68	0	1	
BRCA0153	Yes	74070	FLOW GAL/SEC	08/11/68-08/11/68	0	1	
BRCA0158	No	74070	FLOW GAL/SEC	08/20/68-08/20/68	0	1	
BRCA0160	Yes	74070	FLOW GAL/SEC	08/20/68-08/20/68	0	1	
BRCA0012	Yes	74073	FLOW LITERS/MIN	07/12/96-07/12/96	0	1	
BRCA0014	Yes	74073	FLOW LITERS/MIN	07/12/96-07/12/96	0	1	
BRCA0019	Yes	74073	FLOW LITERS/MIN	07/24/96-07/24/96	0	1	
BRCA0022	Yes	74073	FLOW LITERS/MIN	07/26/96-07/26/96	0	1	
BRCA0024	Yes	74073	FLOW LITERS/MIN	07/26/96-07/26/96	0	1	
BRCA0025	Yes	74073	FLOW LITERS/MIN	07/12/96-07/12/96	0	1	
BRCA0028	Yes	74073	FLOW LITERS/MIN	08/05/96-08/05/96	0	1	

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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0029	Yes	74073	FLOW LITERS/MIN	07/31/96-07/31/96	0	1	
BRCA0030	Yes	74073	FLOW LITERS/MIN	07/31/96-07/31/96	0	1	
BRCA0031	Yes	74073	FLOW LITERS/MIN	08/05/96-08/05/96	0	1	
BRCA0035	Yes	74073	FLOW LITERS/MIN	07/09/96-07/09/96	0	1	
BRCA0036	Yes	74073	FLOW LITERS/MIN	07/09/96-07/09/96	0	1	
BRCA0041	Yes	74073	FLOW LITERS/MIN	07/29/96-07/29/96	0	1	
BRCA0042	Yes	74073	FLOW LITERS/MIN	07/29/96-07/29/96	0	1	
BRCA0046	Yes	74073	FLOW LITERS/MIN	07/30/96-07/30/96	0	1	
BRCA0047	Yes	74073	FLOW LITERS/MIN	07/30/96-07/30/96	0	1	
BRCA0049	Yes	74073	FLOW LITERS/MIN	07/23/96-07/23/96	0	1	
BRCA0053	Yes	74073	FLOW LITERS/MIN	07/07/96-07/07/96	0	1	
BRCA0054	Yes	74073	FLOW LITERS/MIN	07/06/96-07/06/96	0	1	
BRCA0058	Yes	74073	FLOW LITERS/MIN	06/18/96-06/18/96	0	1	
BRCA0070	Yes	74073	FLOW LITERS/MIN	06/18/96-06/18/96	0	1	
BRCA0072	Yes	74073	FLOW LITERS/MIN	07/01/96-07/01/96	0	1	
BRCA0077	Yes	74073	FLOW LITERS/MIN	06/18/96-06/18/96	0	1	
BRCA0080	Yes	74073	FLOW LITERS/MIN	06/28/96-06/28/96	0	1	
BRCA0081	Yes	74073	FLOW LITERS/MIN	06/28/96-06/28/96	0	1	
BRCA0103	Yes	74073	FLOW LITERS/MIN	07/02/96-07/02/96	0	1	
BRCA0129	Yes	74073	FLOW LITERS/MIN	07/04/96-07/04/96	0	1	
BRCA0136	Yes	74073	FLOW LITERS/MIN	06/26/96-06/26/96	0	1	
BRCA0145	Yes	74073	FLOW LITERS/MIN	06/12/96-06/12/96	0	1	
BRCA0149	Yes	74073	FLOW LITERS/MIN	06/12/96-06/12/96	0	1	
BRCA0151	Yes	74073	FLOW LITERS/MIN	06/11/96-06/11/96	0	1	
BRCA0152	Yes	74073	FLOW LITERS/MIN	06/11/96-06/11/96	0	1	
BRCA0154	Yes	74073	FLOW LITERS/MIN	06/11/96-06/11/96	0	1	
BRCA0027	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/23/81-05/23/82	1	3	
BRCA0093	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/21/81-08/25/81	0	2	
BRCA0161	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/21/81-03/02/82	0	2	
BRCA0027	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/23/81-05/23/82	1	3	
BRCA0093	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/21/81-08/25/81	0	2	
BRCA0161	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/21/81-03/02/82	0	2	
BRCA0013	No	82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/14/80-07/14/80	0	1	
BRCA0016	No	82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/14/80-07/14/80	0	1	
BRCA0033	No	82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/14/80-07/14/80	0	1	
BRCA0048	No	82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/14/80-07/14/80	0	1	
BRCA0051	No	82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/14/80-07/14/80	0	1	
BRCA0059	No	82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/15/80-07/15/80	0	1	
BRCA0074	No	82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/22/80-07/22/80	0	1	
BRCA0075	No	82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/14/80-07/14/80	0	1	
BRCA0100	No	82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/11/80-07/11/80	0	1	
BRCA0116	No	82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/22/80-07/22/80	0	1	
BRCA0130	No	82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/18/80-07/18/80	0	1	
BRCA0163	No	82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/12/80-07/12/80	0	1	
BRCA0027	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	04/23/81-04/23/81	0	1	
BRCA0093	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	04/21/81-04/21/81	0	1	
BRCA0161	No	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	04/21/81-04/21/81	0	1	
BRCA0140	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/27/86-02/27/86	0	2	
BRCA0012	Yes	82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	07/12/96-07/12/96	0	1	
BRCA0014	Yes	82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	07/12/96-07/12/96	0	1	
BRCA0036	Yes	82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	07/09/96-07/09/96	0	1	
BRCA0041	Yes	82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	07/29/96-07/29/96	0	1	
BRCA0070	Yes	82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	06/18/96-06/18/96	0	1	
BRCA0077	Yes	82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	06/18/96-06/18/96	0	1	
BRCA0080	Yes	82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	06/28/96-06/28/96	0	1	
BRCA0081	Yes	82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	06/28/96-06/28/96	0	1	
BRCA0103	Yes	82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	07/02/96-07/02/96	0	1	
BRCA0001	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/05/80-07/05/80	0	1	
BRCA0003	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/06/80-07/06/80	0	1	
BRCA0006	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/14/80-07/14/80	0	1	
BRCA0008	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/05/80-07/05/80	0	1	
BRCA0009	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/06/80-07/06/80	0	1	
BRCA0010	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/06/80-07/06/80	0	1	
BRCA0017	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/14/80-07/14/80	0	1	
BRCA0034	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/14/80-07/14/80	0	1	
BRCA0039	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/22/80-07/22/80	0	1	
BRCA0045	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/15/80-07/15/80	0	1	
BRCA0057	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/22/80-07/22/80	0	1	
BRCA0060	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/15/80-07/15/80	0	1	
BRCA0111	No	82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/22/80-07/22/80	0	1	
BRCA0002	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/30/81-05/24/82	0	2	
BRCA0004	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/07/77-07/07/77	0	1	

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Station/Parameter Period of Record Tabulation
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Station	In Park	Code	Name	Start - End	Years	Obs	Plots[1]
BRCA0005	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/28/81-05/22/82	0	2	
BRCA0021	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/24/81-10/22/81	0	2	
BRCA0027	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/23/82-05/23/82	0	1	
BRCA0040	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/24/81-07/24/81	0	1	
BRCA0052	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/24/81-05/23/82	0	2	
BRCA0071	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/22/81-10/22/81	0	1	
BRCA0076	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/24/81-07/24/81	0	1	
BRCA0086	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/19/81-08/19/81	0	1	
BRCA0087	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/19/81-08/19/81	0	1	
BRCA0093	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	08/25/81-08/25/81	0	1	
BRCA0104	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/18/81-10/18/81	0	1	
BRCA0109	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/18/81-10/18/81	0	1	
BRCA0110	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	07/24/81-05/23/82	0	2	
BRCA0117	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/21/68-05/21/68	0	1	
BRCA0132	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	05/21/68-05/21/68	0	1	
BRCA0133	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	11/15/81-11/15/81	0	1	
BRCA0146	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/18/81-10/18/81	0	1	
BRCA0147	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	10/18/81-10/18/81	0	1	
BRCA0161	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	03/02/82-03/02/82	0	1	
BRCA0002	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/30/81-05/24/82	0	2	
BRCA0004	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/07/77-07/07/77	0	1	
BRCA0005	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/28/81-05/22/82	0	2	
BRCA0021	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/24/81-10/22/81	0	2	
BRCA0027	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/23/82-05/23/82	0	1	
BRCA0040	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/24/81-07/24/81	0	1	
BRCA0052	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/24/81-05/23/82	0	2	
BRCA0071	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/22/81-10/22/81	0	1	
BRCA0076	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/24/81-07/24/81	0	1	
BRCA0086	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/19/81-08/19/81	0	1	
BRCA0087	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/19/81-08/19/81	0	1	
BRCA0093	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	08/25/81-08/25/81	0	1	
BRCA0104	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/18/81-10/18/81	0	1	
BRCA0109	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/18/81-10/18/81	0	1	
BRCA0110	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	07/24/81-05/23/82	0	3	
BRCA0117	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/21/68-05/21/68	0	1	
BRCA0132	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	05/21/68-05/21/68	0	1	
BRCA0133	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	11/15/81-11/15/81	0	1	
BRCA0146	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/18/81-10/18/81	0	1	
BRCA0147	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	10/18/81-10/18/81	0	1	
BRCA0161	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)	03/02/82-03/02/82	0	1	

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

Station-By-Station Results

Station Inventory for Station: BRCA0001

NPS Station ID: BRCA0001
LAT/LON: 37.398309/-112.210115
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDCH028R
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BRCA_NURE_06 /5083920
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070007
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 14070007
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/80-07/05/80	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/80-07/05/80	1	475.	475.	475.	475.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/80-07/05/80	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/80-07/05/80	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/80-07/05/80	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/05/80-07/05/80	1	215.	215.	215.	215.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/80-07/05/80	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/05/80-07/05/80	1	17.77	17.77	17.77	17.77	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/80-07/05/80	1	72.	72.	72.	72.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/05/80-07/05/80	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/05/80-07/05/80	1	192.	192.	192.	192.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/80-07/05/80	1	0.885	0.885	0.885	0.885	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/05/80-07/05/80	1	26.	26.	26.	26.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/05/80-07/05/80	1	8700.	8700.	8700.	8700.	0.	0.	**	**	**	**
50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/05/80-07/05/80	1	58.4	58.4	58.4	58.4	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/05/80-07/05/80	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: BRCA0001

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BRCA0002

NPS Station ID: BRCA0002
LAT/LON: 37.399726/-112.266116
Agency: 112WRD
Date Created: 06/20/87
Location: (C-39- 4)20CDD-S1
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 372359112155801
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0002

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/30/81-05/24/82	2	12.25	12.25	14.5	10.	10.125	3.182	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	07/30/81-05/24/82	2	1.7	1.7	1.9	1.5	0.08	0.283	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/30/81-05/24/82	2	987.5	987.5	1000.	975.	312.5	17.678	**	**	**	**
00400	PH (STANDARD UNITS)	07/30/81-05/24/82	2	7.05	7.05	7.1	7.	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/30/81-05/24/82	2	7.047	7.047	7.1	7.	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/30/81-05/24/82	2	0.09	0.09	0.1	0.079	0.	0.015	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/30/81-05/24/82	2	7.55	7.55	7.8	7.3	0.125	0.354	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/30/81-05/24/82	2	7.482	7.482	7.8	7.3	0.134	0.367	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/30/81-05/24/82	2	0.033	0.033	0.05	0.016	0.001	0.024	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/24/82-05/24/82	1	460.	460.	460.	460.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/30/81-05/24/82	2 ##	0.04	0.04	0.05	0.03	0.	0.014	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/30/81-05/24/82	2	555.	555.	580.	530.	1250.	35.355	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/24/82-05/24/82	1	71.	71.	71.	71.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/30/81-05/24/82	2	108.	108.	112.	104.	32.	5.657	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/30/81-05/24/82	2	69.	69.	72.	66.	18.	4.243	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/30/81-05/24/82	2	7.75	7.75	14.	1.5	78.125	8.839	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/30/81-05/24/82	2	0.15	0.15	0.3	0.	0.045	0.212	**	**	**	**
00932	SODIUM, PERCENT	07/30/81-05/24/82	2	3.	3.	5.	1.	8.	2.828	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/30/81-05/24/82	2	2.9	2.9	3.1	2.7	0.08	0.283	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/30/81-05/24/82	2	6.	6.	6.	6.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/30/81-05/24/82	2	125.	125.	130.	120.	50.	7.071	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/30/81-05/24/82	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/30/81-05/24/82	2	10.5	10.5	11.	10.	0.5	0.707	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	07/30/81-07/30/81	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/30/81-05/24/82	2 ##	4.75	4.75	5.	4.5	0.125	0.354	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/30/81-05/24/82	2 ##	1.75	1.75	2.	1.5	0.125	0.354	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/30/81-05/24/82	2	532.	532.	590.	474.	6728.	82.024	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0002

			Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00				1	0	0.00			
	Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: BRCA0002

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0003

NPS Station ID: BRCA0003 | LAT/LON: 37.405615/-112.187698 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: CDCH511R | | FIPS State/County: 49025 UTAH/KANE |
Station Type: /TYPA/AMBNT/SPRING | | STORET Station ID(s): BRCA_NURE_05 /5075886 |
RMI-Indexes: | | Within Park Boundary: No |
RMI-Miles: | | |
HUC: 14070007 | Depth of Water: 0 | Aquifer: |
Major Basin: GREAT BASIN | Elevation: 0 | Water Body Id: |
Minor Basin: SEVIER RIVER | | ECO Region: |
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:

Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0003

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/80-07/06/80	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/80-07/06/80	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/06/80-07/06/80	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/06/80-07/06/80	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/80-07/06/80	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/06/80-07/06/80	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/80-07/06/80	1	42.5	42.5	42.5	42.5	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/06/80-07/06/80	1	21.14	21.14	21.14	21.14	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/06/80-07/06/80	1	178.	178.	178.	178.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/06/80-07/06/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/06/80-07/06/80	1	495.	495.	495.	495.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/06/80-07/06/80	1	0.214	0.214	0.214	0.214	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/06/80-07/06/80	1	132.	132.	132.	132.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/06/80-07/06/80	1	6300.	6300.	6300.	6300.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/06/80-07/06/80	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: BRCA0003

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BRCA0004

NPS Station ID: BRCA0004
LAT/LON: 37.408892/-112.275838
Agency: 112WRD
Date Created: 04/14/78
Location: UPPER MEADOW CANYON SPG
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 372432112163301
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0004

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/77-07/07/77	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/07/77-07/07/77	1	720.	720.	720.	720.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/07/77-07/07/77	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/07/77-07/07/77	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/77-07/07/77	1	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	07/07/77-07/07/77	1	197.	197.	197.	197.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/07/77-07/07/77	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/07/77-07/07/77	1	490.	490.	490.	490.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/07/77-07/07/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/07/77-07/07/77	1	450.	450.	450.	450.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/07/77-07/07/77	1	45.	45.	45.	45.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/07/77-07/07/77	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/07/77-07/07/77	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/07/77-07/07/77	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/07/77-07/07/77	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	07/07/77-07/07/77	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/07/77-07/07/77	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/07/77-07/07/77	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/07/77-07/07/77	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/07/77-07/07/77	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/07/77-07/07/77	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	07/07/77-07/07/77	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/07/77-07/07/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/07/77-07/07/77	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/07/77-07/07/77	1	439.	439.	439.	439.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/07/77-07/07/77	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: BRCA0004

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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: BRCA0004

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 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			

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

Station Inventory for Station: BRCA0005

NPS Station ID: BRCA0005
LAT/LON: 37.408892/-112.276392
Agency: 112WRD
Date Created: 06/20/87
Location: (C-39- 4)19ADA-S1
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 372432112163501
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/28/81-05/22/82	2	8.	8.	8.5	7.5	0.5	0.707	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	07/28/81-05/22/82	2	88.5	88.5	140.	37.	5304.5	72.832	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/28/81-05/22/82	2	742.5	742.5	770.	715.	1512.5	38.891	**	**	**	**
00400	PH (STANDARD UNITS)	07/28/81-05/22/82	2	7.05	7.05	7.1	7.	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/28/81-05/22/82	2	7.047	7.047	7.1	7.	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/28/81-05/22/82	2	0.09	0.09	0.1	0.079	0.	0.015	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/28/81-05/22/82	2	7.65	7.65	8.2	7.1	0.605	0.778	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/28/81-05/22/82	2	7.368	7.368	8.2	7.1	0.764	0.874	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/28/81-05/22/82	2	0.043	0.043	0.079	0.006	0.003	0.052	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/22/82-05/22/82	1	410.	410.	410.	410.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/28/81-05/22/82	2	0.075	0.075	0.1	0.05	0.001	0.035	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/28/81-05/22/82	2	415.	415.	420.	410.	50.	7.071	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/22/82-05/22/82	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/28/81-05/22/82	2	90.5	90.5	91.	90.	0.5	0.707	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/28/81-05/22/82	2	46.	46.	46.	46.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/28/81-05/22/82	2	3.55	3.55	3.8	3.3	0.125	0.354	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/28/81-05/22/82	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	07/28/81-05/22/82	2	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/28/81-05/22/82	2	1.6	1.6	1.7	1.5	0.02	0.141	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/28/81-05/22/82	2	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/28/81-05/22/82	2	20.5	20.5	29.	12.	144.5	12.021	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/28/81-05/22/82	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/28/81-05/22/82	2	7.75	7.75	7.9	7.6	0.045	0.212	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	07/28/81-07/28/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/28/81-05/22/82	2 ##	23.75	23.75	43.	4.5	741.125	27.224	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/28/81-05/22/82	2 ##	3.25	3.25	5.	1.5	6.125	2.475	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/28/81-05/22/82	2	344.	344.	385.	303.	3362.	57.983	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0005

			Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00				1	0	0.00			
	Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: BRCA0005

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0006

NPS Station ID: BRCA0006
LAT/LON: 37.419392/-112.285810
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDCG050R
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BRCA_NURE_03 /5083914
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070007
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 14070007
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PODUNK CREEK UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	1	560.	560.	560.	560.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/14/80-07/14/80	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/14/80-07/14/80	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/80-07/14/80	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	1	260.	260.	260.	260.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/80-07/14/80	1	11.9	11.9	11.9	11.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/14/80-07/14/80	1	10.9	10.9	10.9	10.9	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/14/80-07/14/80	1	186.	186.	186.	186.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	1	1.303	1.303	1.303	1.303	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	110.	110.	110.	110.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	4900.	4900.	4900.	4900.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/14/80-07/14/80	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: BRCA0006

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0007

NPS Station ID: BRCA0007
LAT/LON: 37.420281/-112.267503
Agency: 112WRD
Date Created: 04/14/78
Location: UPPER CRAWFORD CANYON SP
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 372513112160301
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/07/77-07/07/77	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/07/77-07/07/77	1	710.	710.	710.	710.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/07/77-07/07/77	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/07/77-07/07/77	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/07/77-07/07/77	1	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	07/07/77-07/07/77	1	177.	177.	177.	177.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/07/77-07/07/77	1	360.	360.	360.	360.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/07/77-07/07/77	1	440.	440.	440.	440.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/07/77-07/07/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/07/77-07/07/77	1	410.	410.	410.	410.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	07/07/77-07/07/77	1	49.	49.	49.	49.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/07/77-07/07/77	1	67.	67.	67.	67.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/07/77-07/07/77	1	59.	59.	59.	59.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/07/77-07/07/77	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/07/77-07/07/77	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	07/07/77-07/07/77	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/07/77-07/07/77	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/07/77-07/07/77	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/07/77-07/07/77	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/07/77-07/07/77	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/07/77-07/07/77	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	07/07/77-07/07/77	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/07/77-07/07/77	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/07/77-07/07/77	1	4.	4.	4.	4.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/07/77-07/07/77	1	395.	395.	395.	395.	0.	0.	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/07/77-07/07/77	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: BRCA0007

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------7/10-2/19---------- Obs	Exceed	Prop.	----------2/20-5/09---------- Obs	Exceed	Prop.	----------5/10-7/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	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: BRCA0007

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	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: BRCA0008

NPS Station ID: BRCA0008
LAT/LON: 37.428004/-112.206199
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDCH509R
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BRCA_NURE_08 /5075884
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070007
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 14070007
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/05/80-07/05/80	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/05/80-07/05/80	1	825.	825.	825.	825.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/05/80-07/05/80	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/05/80-07/05/80	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/05/80-07/05/80	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/05/80-07/05/80	1	390.	390.	390.	390.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/05/80-07/05/80	1	45.9	45.9	45.9	45.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/05/80-07/05/80	1	25.04	25.04	25.04	25.04	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/05/80-07/05/80	1	215.	215.	215.	215.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/05/80-07/05/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/05/80-07/05/80	1	1324.	1324.	1324.	1324.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/05/80-07/05/80	1	0.439	0.439	0.439	0.439	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/05/80-07/05/80	1	202.	202.	202.	202.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/05/80-07/05/80	1	7600.	7600.	7600.	7600.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/05/80-07/05/80	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: BRCA0008

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BRCA0009

NPS Station ID: BRCA0009 | LAT/LON: 37.431115/-112.170116 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: CDCH514R | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_NURE_01 /5075889
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: GREAT BASIN | Elevation: 0 | Water Body Id:
Minor Basin: SEVIER RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/80-07/06/80	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/80-07/06/80	1	900.	900.	900.	900.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/06/80-07/06/80	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/06/80-07/06/80	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/80-07/06/80	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/06/80-07/06/80	1	350.	350.	350.	350.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/80-07/06/80	1	39.3	39.3	39.3	39.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/06/80-07/06/80	1	19.41	19.41	19.41	19.41	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/06/80-07/06/80	1	193.	193.	193.	193.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/06/80-07/06/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/06/80-07/06/80	1	336.	336.	336.	336.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/06/80-07/06/80	1	0.424	0.424	0.424	0.424	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/06/80-07/06/80	1	213.	213.	213.	213.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/06/80-07/06/80	1	6900.	6900.	6900.	6900.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/06/80-07/06/80	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: BRCA0009

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BRCA0010

NPS Station ID: BRCA0010 | LAT/LON: 37.440809/-112.218810 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: CDCH510R | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_NURE_02 /5075885
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: GREAT BASIN | Elevation: 0 | Water Body Id:
Minor Basin: SEVIER RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF T BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR T CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEM (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADE TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/06/80-07/06/80	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/06/80-07/06/80	1	700.	700.	700.	700.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/06/80-07/06/80	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/06/80-07/06/80	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/06/80-07/06/80	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/06/80-07/06/80	1	395.	395.	395.	395.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/06/80-07/06/80	1	39.9	39.9	39.9	39.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/06/80-07/06/80	1	20.52	20.52	20.52	20.52	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/06/80-07/06/80	1	417.	417.	417.	417.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/06/80-07/06/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/06/80-07/06/80	1	1083.	1083.	1083.	1083.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/06/80-07/06/80	1	0.366	0.366	0.366	0.366	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/06/80-07/06/80	1	246.	246.	246.	246.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/06/80-07/06/80	1	6700.	6700.	6700.	6700.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/06/80-07/06/80	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: BRCA0010

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BRCA0011

NPS Station ID: BRCA0011 | LAT/LON: 37.449948/-112.240615 | Agency: 11NPSWRD | Date Created: 10/17/98
Location: RIGGS SPRING | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_NPS_RIGGS
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UTAH-KANE COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. RIGGS SPRING IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. SAMPLES WERE TAKEN AS WATER LEAVES THE CISTERN AND ENTERS THE WATER TROUGHS. DATA ARE FROM "A WATER QUALITY SURVEY OF THE BACK-COUNTRY IN BRYCE CANYON NATIONAL PARK" BY R. STEVEN NAKASHIMA (AN ENVIRONMENTAL HEALTH SPECIALIST); A PARK VOLUNTEER IN THE SUMMER OF 1981. THE STUDY OBJECTIVE WAS TO "DETERMINE THE BACTERIAL QUALITY OF MAJOR BACK-COUNTRY WATER SOURCES." FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717-0001 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/23/81-08/04/81	2 ##	27.25	27.25	43.	11.5	496.125	22.274	**	**	**	**
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/23/81-08/04/81	2 ##	1.347	1.347	1.633	1.061	0.164	0.405	**	**	**	**
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			22.237								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-08/04/81	2 ##	0.75	0.75	1.5	0.	1.125	1.061	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-08/04/81	2 ##	0.088	0.088	0.176	0.	0.016	0.125	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			1.225								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-08/04/81	2	4.	4.	6.	2.	8.	2.828	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-08/04/81	2	0.54	0.54	0.778	0.301	0.114	0.337	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			3.464								

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

EPA Water Quality Criteria Analysis for Station: BRCA0011

				Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	2	0	0.00	1	0	0.00				1	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	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: BRCA0012

NPS Station ID: BRCA0012 | LAT/LON: 37.450116/-112.237726 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: RIGGS SPRING | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_021
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 7720 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UT-KANE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. RIGGS SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/12/96-07/12/96	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/12/96-07/12/96	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/12/96-07/12/96	1	45.	45.	45.	45.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/12/96-07/12/96	1	820.	820.	820.	820.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/12/96-07/12/96	1	770.	770.	770.	770.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/12/96-07/12/96	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/12/96-07/12/96	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/12/96-07/12/96	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	07/12/96-07/12/96	1	6.91	6.91	6.91	6.91	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/12/96-07/12/96	1	6.91	6.91	6.91	6.91	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/12/96-07/12/96	1	0.123	0.123	0.123	0.123	0.	0.	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	07/12/96-07/12/96	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	07/12/96-07/12/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/12/96-07/12/96	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	07/12/96-07/12/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	07/12/96-07/12/96	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/12/96-07/12/96	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/12/96-07/12/96	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00953	FLUORINE,TOTAL UG/L	07/12/96-07/12/96	1	230.	230.	230.	230.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	07/12/96-07/12/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/12/96-07/12/96	1	41.	41.	41.	41.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/12/96-07/12/96	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: BRCA0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/12/96-07/12/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	07/12/96-07/12/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/12/96-07/12/96	1	250.	250.	250.	250.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/12/96-07/12/96	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/12/96-07/12/96	1	500.	500.	500.	500.	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	07/12/96-07/12/96	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/12/96-07/12/96	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	07/12/96-07/12/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/12/96-07/12/96	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/12/96-07/12/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	07/12/96-07/12/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	07/12/96-07/12/96	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
46123	IRON, FERROUS, AS FE MG/L	07/12/96-07/12/96	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	07/12/96-07/12/96	1	501.	501.	501.	501.	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/12/96-07/12/96	1	533.	533.	533.	533.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/12/96-07/12/96	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	07/12/96-07/12/96	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
71865	IODIDE (MG/L AS I)	07/12/96-07/12/96	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	07/12/96-07/12/96	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/12/96-07/12/96	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	07/12/96-07/12/96	1	0.22	0.22	0.22	0.22	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/12/96-07/12/96	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	07/12/96-07/12/96	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0012

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00406	PH, FIELD	Fresh Chronic	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									
00953	FLUORINE, TOTAL	Drinking Water	4000.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00	1	1	1.00									
		Drinking Water	5.	1	1	1.00	1	1	1.00									
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	0	0.00	1	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71855	NITRITE NITROGEN, TOTAL (AS NO2)	Drinking Water	3.3	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	1	1.00	1	1	1.00									
		Drinking Water	2.	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: BRCA0013

NPS Station ID: BRCA0013 | LAT/LON: 37.450392/-112.298892 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: CDCG508R | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_NURE_40 /5075873
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: GREAT BASIN | Elevation: 0 | Water Body Id:
Minor Basin: SEVIER RIVER | ECO Region:
RF1 Index: 16030002 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PODUNK CREEK UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	1	560.	560.	560.	560.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/14/80-07/14/80	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/14/80-07/14/80	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/80-07/14/80	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/80-07/14/80	1	19.3	19.3	19.3	19.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/14/80-07/14/80	1	14.63	14.63	14.63	14.63	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/80-07/14/80	1	56.	56.	56.	56.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	1	1.441	1.441	1.441	1.441	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	40.	40.	40.	40.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	5300.	5300.	5300.	5300.	0.	0.	**	**	**	**
82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/14/80-07/14/80	1	5200.	5200.	5200.	5200.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0013

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0014

NPS Station ID: BRCA0014 | LAT/LON: 37.454892/-112.253643 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: YOVIMPA SPRING | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_020
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 7820 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 16030002 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PODUNK CREEK UT-KANE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. YOVIMPA SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/12/96-07/12/96	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/12/96-07/12/96	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/12/96-07/12/96	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/12/96-07/12/96	1	390.	390.	390.	390.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/12/96-07/12/96	1	440.	440.	440.	440.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/12/96-07/12/96	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/12/96-07/12/96	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/12/96-07/12/96	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	07/12/96-07/12/96	1	7.54	7.54	7.54	7.54	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/12/96-07/12/96	1	7.54	7.54	7.54	7.54	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/12/96-07/12/96	1	0.029	0.029	0.029	0.029	0.	0.	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	07/12/96-07/12/96	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	07/12/96-07/12/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/12/96-07/12/96	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	07/12/96-07/12/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	07/12/96-07/12/96	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/12/96-07/12/96	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/12/96-07/12/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00953	FLUORINE,TOTAL UG/L	07/12/96-07/12/96	1	510.	510.	510.	510.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	07/12/96-07/12/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/12/96-07/12/96	1	36.	36.	36.	36.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/12/96-07/12/96	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: BRCA0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/12/96-07/12/96	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	07/12/96-07/12/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/12/96-07/12/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/12/96-07/12/96	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/12/96-07/12/96	1	300.	300.	300.	300.	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	07/12/96-07/12/96	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/12/96-07/12/96	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	07/12/96-07/12/96	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/12/96-07/12/96	1	1779.	1779.	1779.	1779.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/12/96-07/12/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	07/12/96-07/12/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	07/12/96-07/12/96	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
46123	IRON, FERROUS, AS FE MG/L	07/12/96-07/12/96	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	07/12/96-07/12/96	1	286.	286.	286.	286.	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/12/96-07/12/96	1	254.	254.	254.	254.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/12/96-07/12/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	07/12/96-07/12/96	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
71865	IODIDE (MG/L AS I)	07/12/96-07/12/96	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	07/12/96-07/12/96	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	07/12/96-07/12/96	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/12/96-07/12/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	07/12/96-07/12/96	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: BRCA0014

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00406	PH, FIELD	Fresh Chronic	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									
00953	FLUORINE, TOTAL	Drinking Water	4000.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00	1	1	1.00									
		Drinking Water	5.	1	1	1.00	1	1	1.00									
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	1	1.00	1	1	1.00									
		Drinking Water	100.	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									
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71855	NITRITE NITROGEN, TOTAL (AS NO2)	Drinking Water	3.3	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0015

NPS Station ID: BRCA0015 LAT/LON: 37.458338/-112.322226 Agency: 113FORS4 Date Created: 04/02/83
Location: SIELER CREEK - AT USFS GAGING STATION FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 070303A /16030002303A/021070303A /Q40
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: GREAT BASIN Elevation: 0 Water Body Id:
Minor Basin: SEVIER RIVER - EAST FORK SEVIER RIVER ECO Region:
RF1 Index: 16030002020 RF1 Mile Point: 29.160 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
FOR MORE INFORMATION, CONTACT; FOREST HYDROLOGIST, DIXIE NATIONAL FOREST, 435-865-3733...

Parameter Inventory for Station: BRCA0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/01/77-07/25/79	5	15.6	15.7	23.3	8.1	29.165	5.4	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	06/05/75-10/06/76	10	59.5	57.4	72.	43.	74.267	8.618	43.3	51.25	62.25	71.1
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/05/75-09/30/75	5	2.	2.32	4.5	0.8	2.087	1.445	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/26/76-07/25/79	10	11.25	9.6	16.8	1.7	30.629	5.534	1.74	3.675	14.7	16.59
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/05/75-07/25/79	15	311.	365.667	590.	217.	12984.095	113.948	246.4	275.	460.	559.4
00300	OXYGEN, DISSOLVED MG/L	06/05/75-07/25/79	15	9.	9.94	19.7	5.2	11.233	3.352	6.28	8.	10.5	15.92
00400	PH (STANDARD UNITS)	06/05/75-07/25/79	15	8.1	7.987	8.6	7.2	0.176	0.419	7.32	7.8	8.3	8.54
00400	CONVERTED PH (STANDARD UNITS)	06/05/75-07/25/79	15	8.1	7.788	8.6	7.2	0.218	0.466	7.32	7.8	8.3	8.54
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/05/75-07/25/79	15	0.008	0.016	0.063	0.003	0.	0.018	0.003	0.005	0.016	0.049
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/05/75-09/19/77	13	3.	4.538	21.	1.	28.269	5.317	1.	2.	6.	15.4
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/01/77-06/21/79	4	0.065	0.068	0.102	0.04	0.001	0.026	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/01/77-06/21/79	4	0.105	0.093	0.15	0.01	0.004	0.066	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	06/21/79-06/21/79	1	2100.	2100.	2100.	2100.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	06/21/79-06/21/79	1	3.322	3.322	3.322	3.322	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			2100.								
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/26/76-06/21/79	8 ##	3.25	55.625	230.	0.5	8938.411	94.543	**	**	**	**
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	05/26/76-06/21/79	8 ##	0.239	0.695	2.362	-0.301	1.38	1.175	**	**	**	**
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			4.958								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/75-09/30/75	5	4.	19.4	70.	0.5	879.675	29.659	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/75-09/30/75	5	0.602	0.638	1.845	-0.301	0.93	0.964	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			4.34								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/77-06/21/79	4	240.	226.5	246.	180.	971.667	31.172	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0015

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	5	0	0.00	4	0	0.00				1	0	0.00			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	10	0	0.00	6	0	0.00				4	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	15	0	0.00	10	0	0.00				5	0	0.00			
00400	PH	Fresh Chronic	9.	15	0	0.00	10	0	0.00				5	0	0.00			
		Other-Lo Lim.	6.5	15	0	0.00	10	0	0.00				5	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: BRCA0015

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	4	0	0.00	2	0	0.00				2	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	1	1.00							1	1	1.00			
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	8	1	0.13	4	0	0.00				4	1	0.25			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	5	0	0.00	4	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0016

NPS Station ID: BRCA0016
LAT/LON: 37.459892/-112.267309
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDCG510R
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BRCA_NURE_41 /5075875
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PODUNK CREEK UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	1	420.	420.	420.	420.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/14/80-07/14/80	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/14/80-07/14/80	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/80-07/14/80	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/80-07/14/80	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/14/80-07/14/80	1	7.88	7.88	7.88	7.88	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/80-07/14/80	1	33.	33.	33.	33.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	1	0.233	0.233	0.233	0.233	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	25.	25.	25.	25.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	2200.	2200.	2200.	2200.	0.	0.	**	**	**	**
82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/14/80-07/14/80	1	9500.	9500.	9500.	9500.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: BRCA0016

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0017

NPS Station ID: BRCA0017
LAT/LON: 37.459892/-112.304504
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDCG051R
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BRCA_NURE_39 /5083915
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PODUNK CREEK UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0017

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	1	450.	450.	450.	450.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/14/80-07/14/80	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/14/80-07/14/80	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/80-07/14/80	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	1	180.	180.	180.	180.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/80-07/14/80	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/14/80-07/14/80	1	4.61	4.61	4.61	4.61	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/14/80-07/14/80	1	300.	300.	300.	300.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	1	0.493	0.493	0.493	0.493	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	30.	30.	30.	30.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	1600.	1600.	1600.	1600.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/14/80-07/14/80	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: BRCA0017

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0018

NPS Station ID: BRCA0018 LAT/LON: 37.461115/-112.318059 Agency: 113FORS4 Date Created: 04/02/83
Location: EAST FORK SEVIER RIVER - BELOW SIELER CREEK FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 070301D /16030002301D/021070301D /Q41
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: GREAT BASIN Elevation: 0 Water Body Id:
Minor Basin: SEVIER RIVER - EAST FORK SEVIER RIVER ECO Region:
RF1 Index: 16030002020 RF1 Mile Point: 29.010 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
FOR MORE INFORMATION, CONTACT; FOREST HYDROLOGIST, DIXIE NATIONAL FOREST, 435-865-3733...

Parameter Inventory for Station: BRCA0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/77-07/25/79	8	15.15	14.163	18.5	8.1	15.011	3.874	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	06/05/75-10/06/76	10	59.5	57.1	72.	44.	88.1	9.386	44.	46.25	63.5	71.3
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/05/75-09/30/75	5	4.6	4.76	6.3	3.5	1.018	1.009	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/26/76-07/25/79	13	10.5	10.915	21.	2.1	43.103	6.565	2.34	5.25	16.8	21.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/05/75-07/25/79	18	287.	330.444	510.	207.	8983.908	94.783	235.8	262.	407.5	492.9
00300	OXYGEN, DISSOLVED MG/L	06/05/75-07/25/79	18	9.85	10.15	13.5	7.	3.653	1.911	7.81	8.75	11.275	13.14
00400	PH (STANDARD UNITS)	06/05/75-07/25/79	18	8.2	8.122	8.7	7.4	0.108	0.328	7.58	7.875	8.4	8.43
00400	CONVERTED PH (STANDARD UNITS)	06/05/75-07/25/79	18	8.2	7.993	8.7	7.4	0.125	0.354	7.58	7.875	8.4	8.43
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/05/75-07/25/79	18	0.006	0.01	0.04	0.002	0.	0.009	0.004	0.004	0.013	0.027
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/05/75-08/19/77	14	6.	9.464	39.	0.5	123.095	11.095	0.75	2.	11.	33.5
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/21/77-06/21/79	5	0.05	0.064	0.127	0.04	0.001	0.036	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/21/77-06/21/79	5	0.13	0.282	0.94	0.09	0.136	0.369	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	06/21/79-07/25/79	2	25.5	25.5	40.	11.	420.5	20.506	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	06/21/79-07/25/79	2	1.322	1.322	1.602	1.041	0.157	0.396	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			20.976								
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/26/76-07/25/79	12	21.5	26.917	72.	0.	798.902	28.265	0.15	0.5	55.5	69.6
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	05/26/76-07/25/79	12	1.243	0.829	1.857	-0.301	0.95	0.974	-0.09	-0.301	1.739	1.842
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			6.746								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/75-09/30/75	5	26.	32.	76.	2.	1014.	31.843	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/75-09/30/75	5	1.415	1.183	1.881	0.301	0.485	0.696	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			15.24								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/77-06/21/79	5	270.	237.2	280.	122.	4461.2	66.792	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0018

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	5	0	0.00	4	0	0.00				1	0	0.00			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	13	0	0.00	8	0	0.00	1	0	0.00	4	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	18	0	0.00	12	0	0.00	1	0	0.00	5	0	0.00			
00400	PH	Fresh Chronic	9.	18	0	0.00	12	0	0.00	1	0	0.00	5	0	0.00			
		Other-Lo Lim.	6.5	18	0	0.00	12	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

EPA Water Quality Criteria Analysis for Station: BRCA0018

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	5	0	0.00	2	0	0.00	1	0	0.00	2	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	2	0	0.00	1	0	0.00				1	0	0.00			
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	12	0	0.00	7	0	0.00	1	0	0.00	4	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	5	0	0.00	4	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0019

NPS Station ID: BRCA0019 | LAT/LON: 37.461948/-112.225366 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: BULLBERRY SPRING | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_023
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 7842 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UT-KANE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. BULLBERRY SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0019

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/24/96-07/24/96	1	25.	25.	25.	25.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/24/96-07/24/96	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

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

Station Inventory for Station: BRCA0020

NPS Station ID: BRCA0020
LAT/LON: 37.462226/-112.318892
Agency: 21UTAH
Date Created: 11/24/90
Location: EAST FORK SEVIER RIVER BL SIELER CREEK
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 494962
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0020

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/93-05/11/93	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/11/93-05/11/93	1	24.5	24.5	24.5	24.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/11/93-05/11/93	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/06/90-05/11/93	2	18.95	18.95	34.	3.9	453.005	21.284	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/06/90-09/06/90	1	450.	450.	450.	450.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/06/90-05/11/93	2	438.5	438.5	441.	436.	12.5	3.536	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	09/06/90-09/06/90	1 ##	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/06/90-05/11/93	2	7.9	7.9	8.6	7.2	0.98	0.99	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/06/90-05/11/93	2	7.484	7.484	8.6	7.2	1.326	1.152	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/06/90-05/11/93	2	0.033	0.033	0.063	0.003	0.002	0.043	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	09/06/90-05/11/93	2	8.05	8.05	8.1	8.	0.005	0.071	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	09/06/90-05/11/93	2	8.047	8.047	8.1	8.	0.005	0.071	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/06/90-05/11/93	2	0.009	0.009	0.01	0.008	0.	0.001	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	09/06/90-05/11/93	2	3.	3.	3.	3.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/06/90-05/11/93	2	245.5	245.5	248.	243.	12.5	3.536	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/06/90-05/11/93	2	299.	299.	302.	296.	18.	4.243	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/06/90-05/11/93	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/06/90-05/11/93	2	77.	77.	146.	8.	9522.	97.581	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/06/90-09/06/90	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/06/90-09/06/90	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/06/90-09/06/90	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/06/90-09/06/90	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/11/93-05/11/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/06/90-05/11/93	2	0.021	0.021	0.03	0.011	0.	0.013	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	09/06/90-09/06/90	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/06/90-05/11/93	2	243.5	243.5	251.	236.	112.5	10.607	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/06/90-05/11/93	2	53.	53.	55.	51.	8.	2.828	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/06/90-05/11/93	2	27.	27.	30.	24.	18.	4.243	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/06/90-05/11/93	2	1.55	1.55	2.	1.1	0.405	0.636	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/06/90-05/11/93	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/06/90-05/11/93	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/06/90-05/11/93	2	6.	6.	7.	5.	2.	1.414	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/06/90-05/11/93	2	236.	236.	236.	236.	0.	0.	**	**	**	**
71830	HYDROXIDE ION (MG/L AS OH)	09/06/90-05/11/93	2	0.	0.	0.	0.	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	09/06/90-09/06/90	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0020

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00	1	0	0.00				1	0	0.00			
00400	PH	Fresh Chronic	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	Fresh Chronic	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			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00							1	0	0.00			
00941	CHLORIDE, DISSOLVED 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			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0021

NPS Station ID: BRCA0021
LAT/LON: 37.462781/-112.256671
Agency: 112WRD
Date Created: 01/08/83
Location: (C-38- 4)31AAA-S1
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 372746112152401
RMI-Indexes:
Within Park Boundary: Yes
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/81-10/22/81	2	6.5	6.5	7.5	5.5	2.	1.414	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/22/81-10/22/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/22/81-10/22/81	1	430.	430.	430.	430.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/22/81-10/22/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/22/81-10/22/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/22/81-10/22/81	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/22/81-10/22/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/22/81-10/22/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/22/81-10/22/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/22/81-10/22/81	1 ##	0.045	0.045	0.045	0.045	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/22/81-10/22/81	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/22/81-10/22/81	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/22/81-10/22/81	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/22/81-10/22/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/22/81-10/22/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/22/81-10/22/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/22/81-10/22/81	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/22/81-10/22/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/22/81-10/22/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/22/81-10/22/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/22/81-10/22/81	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/22/81-10/22/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/22/81-10/22/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/22/81-10/22/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/22/81-10/22/81	1	212.	212.	212.	212.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0021

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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	Fresh Chronic	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: BRCA0021

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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: BRCA0022

NPS Station ID: BRCA0022 | LAT/LON: 37.465559/-112.243421 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: MUTTON HOLLOW SPRING | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_024
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 8372 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UT-KANE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. MUTTON HOLLOW SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/96-07/26/96	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/26/96-07/26/96	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/26/96-07/26/96	1	350.	350.	350.	350.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	07/26/96-07/26/96	1	8.27	8.27	8.27	8.27	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/26/96-07/26/96	1	8.27	8.27	8.27	8.27	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/26/96-07/26/96	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/26/96-07/26/96	1	228.	228.	228.	228.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/26/96-07/26/96	1	2.1	2.1	2.1	2.1	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: BRCA0022

				Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------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	Fresh Chronic	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: BRCA0023

NPS Station ID: BRCA0023 LAT/LON: 37.466115/-112.259449 Agency: 11NPSWRD Date Created: 10/17/98
Location: PODUNK SPRINGS ALONG YOVIMPA PASS FIRE ROAD FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_NPS_PS
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: GREAT BASIN Elevation: 0 Water Body Id:
Minor Basin: SEVIER RIVER ECO Region:
RF1 Index: 16030002 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PODUNK CREEK UTAH-KANE COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. PODUNK SPRINGS; WHICH IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY; IS LOCATED IN A ROCK CISTERN ABOUT 40 FEET WEST OF THE FIRE ROAD AND 1/3 MILE NORTH OF THE YOVIMPA PASS CAMPSITE. DATA ARE FROM "A WATER QUALITY SURVEY OF THE BACK-COUNTRY IN BRYCE CANYON NATIONAL PARK" BY R. STEVEN NAKASHIMA (AN ENVIRONMENTAL HEALTH SPECIALIST); A PARK VOLUNTEER IN THE SUMMER OF 1981. THE STUDY OBJECTIVE WAS TO "DETERMINE THE BACTERIAL QUALITY OF MAJOR BACK-COUNTRY WATER SOURCES." FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717-0001 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0023

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/23/81-06/23/81	1	430.	430.	430.	430.	0.	0.	**	**	**	**
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/23/81-06/23/81	1	2.633	2.633	2.633	2.633	0.	0.	**	**	**	**
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			430.								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-06/23/81	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-06/23/81	1 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			1.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-06/23/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-06/23/81	1	0.602	0.602	0.602	0.602	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			4.								

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

EPA Water Quality Criteria Analysis for Station: BRCA0023

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	1	0	0.00							1	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BRCA0024

NPS Station ID: BRCA0024 | LAT/LON: 37.468031/-112.229753 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: CORRAL HOLLOW SPRING | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_025
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 8231 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UT-KANE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. CORRAL HOLLOW SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/26/96-07/26/96	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/26/96-07/26/96	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/26/96-07/26/96	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	07/26/96-07/26/96	1	7.98	7.98	7.98	7.98	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/26/96-07/26/96	1	7.98	7.98	7.98	7.98	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/26/96-07/26/96	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/26/96-07/26/96	1	260.	260.	260.	260.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/26/96-07/26/96	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: BRCA0024

			Total	Exceed	Prop.	7/10-2/19			2/20-5/09			5/10-7/09			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	Fresh Chronic	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: BRCA0025

NPS Station ID: BRCA0025 | LAT/LON: 37.474337/-112.263227 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: PODUNK SPRING | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_019
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 8280 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 16030002 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PODUNK CREEK UT-KANE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. PODUNK SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/12/96-07/12/96	1	23.	23.	23.	23.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/12/96-07/12/96	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

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

Station Inventory for Station: BRCA0026

NPS Station ID: BRCA0026 LAT/LON: 37.474531/-112.263642 Agency: 11NPSWRD Date Created: 10/17/98
Location: SPRING IN YOVIMPA PASS NEAR PODUNK GATE FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_NPS_SCA
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: GREAT BASIN Elevation: 0 Water Body Id:
Minor Basin: SEVIER RIVER ECO Region:
RF1 Index: 16030002 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PODUNK CREEK UTAH-KANE COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING NEAR STUDENT CONSERVATION ASSOCIATION (SCA) CAMP IN YOVIMPA PASS NEAR PODUNK GATE IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. SCA REDEVELOPED THE SPRING IN 1981 EARLY JULY. DATA ARE FROM "A WATER QUALITY SURVEY OF THE BACK-COUNTRY IN BRYCE CANYON NATIONAL PARK" BY R. STEVEN NAKASHIMA (AN ENVIRONMENTAL HEALTH SPECIALIST); A PARK VOLUNTEER IN THE SUMMER OF 1981. "NO ROADS OR TRAILS ABOVE THE SPRING" IS NOTED IN THE REPORT. THE STUDY OBJECTIVE WAS TO "DETERMINE THE BACTERIAL QUALITY OF MAJOR BACK-COUNTRY WATER SOURCES." FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717-0001 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	07/08/81-07/08/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	07/08/81-07/08/81	1	0.602	0.602	0.602	0.602	0.	0.	**	**	**	**
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			4.								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/08/81-07/08/81	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/08/81-07/08/81	1 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			1.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/08/81-07/08/81	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/08/81-07/08/81	1 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			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

EPA Water Quality Criteria Analysis for Station: BRCA0026

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	1	0	0.00							1	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BRCA0027

NPS Station ID: BRCA0027
LAT/LON: 37.478059/-112.304448
Agency: 112WRD
Date Created: 12/02/81
Location: R(C-38- 4)26BAB-
FIPS State/County: 49045 UTAH/TOOELE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 372841112181601
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/23/81-05/23/82	3	11.5	10.333	16.	3.5	40.083	6.331	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/23/81-05/23/82	3	11.	12.	23.	2.	111.	10.536	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/23/81-05/23/82	3	425.	431.667	470.	400.	1258.333	35.473	**	**	**	**
00400	PH (STANDARD UNITS)	04/23/81-05/23/82	3	8.2	8.033	8.3	7.6	0.143	0.379	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/23/81-05/23/82	3	8.2	7.916	8.3	7.6	0.164	0.405	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/23/81-05/23/82	3	0.006	0.012	0.025	0.005	0.	0.011	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/23/81-05/23/82	3	8.1	8.067	8.3	7.8	0.063	0.252	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/23/81-05/23/82	3	8.1	8.018	8.3	7.8	0.067	0.259	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/23/81-05/23/82	3	0.008	0.01	0.016	0.005	0.	0.006	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/23/81-05/23/82	3	260.	256.667	260.	250.	33.333	5.774	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/23/81-05/23/82	3	62.	59.333	63.	53.	30.333	5.508	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/23/81-05/23/82	3	25.	26.333	29.	25.	5.333	2.309	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/23/81-05/23/82	3	1.6	1.7	2.	1.5	0.07	0.265	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/23/81-05/23/82	3	0.	0.033	0.1	0.	0.003	0.058	**	**	**	**
00932	SODIUM, PERCENT	04/23/81-05/23/82	3	1.	1.333	2.	1.	0.333	0.577	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/23/81-05/23/82	3	0.6	0.633	0.9	0.4	0.063	0.252	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/23/81-05/23/82	3	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/23/81-05/23/82	3	2.5	3.167	5.	2.	2.583	1.607	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/23/81-05/23/82	3	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/23/81-05/23/82	3	6.1	5.833	6.2	5.2	0.303	0.551	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	04/23/81-05/23/82	3	10.	6.667	10.	0.	33.333	5.774	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/23/81-04/23/81	1	930.	930.	930.	930.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/23/81-05/23/82	3	740.	633.333	950.	210.	145433.333	381.357	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/23/81-05/23/82	3 ##	5.	9.833	20.	4.5	77.583	8.808	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	04/23/81-05/23/82	3	40.	28.	40.	4.	432.	20.785	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/23/81-05/23/82	3	60.	50.	80.	10.	1300.	36.056	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/23/81-05/23/82	3	17.	21.	40.	6.	301.	17.349	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/23/81-05/23/82	3	245.	241.333	273.	206.	1132.333	33.65	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/23/82-05/23/82	1	237.	237.	237.	237.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	04/23/81-05/23/82	3	8.11	8.143	15.2	1.12	49.562	7.04	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/23/81-05/23/82	3	0.33	0.327	0.37	0.28	0.002	0.045	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/23/81-05/23/82	3	64.	63.667	123.	4.	3540.333	59.501	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/23/81-05/23/82	3	1.9	3.173	7.6	0.02	15.58	3.947	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	04/23/81-04/23/81	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

EPA Water Quality Criteria Analysis for Station: BRCA0027

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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	Fresh Chronic	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			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			

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

Station Inventory for Station: BRCA0028

NPS Station ID: BRCA0028 LAT/LON: 37.480531/-112.241281 Agency: 11NPSWRD Date Created: 08/29/98
Location: CENTER FORK BLACK BIRCH CANYON SPRING FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_SP_033
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 8493 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER ECO Region:
RF1 Index: 14070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UT-KANE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. CENTER FORK BLACK BIRCH CANYON SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/05/96-08/05/96	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/05/96-08/05/96	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/05/96-08/05/96	1	310.	310.	310.	310.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/05/96-08/05/96	1	8.41	8.41	8.41	8.41	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/05/96-08/05/96	1	8.41	8.41	8.41	8.41	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/05/96-08/05/96	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	08/05/96-08/05/96	1	202.	202.	202.	202.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	08/05/96-08/05/96	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: BRCA0028

			Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------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	Fresh Chronic	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: BRCA0029

NPS Station ID: BRCA0029 LAT/LON: 37.481532/-112.230892 Agency: 11NPSWRD Date Created: 08/29/98
Location: SOUTH FORK BLACK BIRCH CANYON SPRING FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_SP_031
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 8360 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER ECO Region:
RF1 Index: 14070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UT-KANE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SOUTH FORK BLACK BIRCH CANYON SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/96-07/31/96	1	25.	25.	25.	25.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/31/96-07/31/96	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

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

Station Inventory for Station: BRCA0030

NPS Station ID: BRCA0030 LAT/LON: 37.485282/-112.235810 Agency: 11NPSWRD Date Created: 08/29/98
Location: BIRCH SPRING FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_SP_030
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 8088 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER ECO Region:
RF1 Index: 14070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UT-KANE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. BIRCH SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/31/96-07/31/96	1	24.	24.	24.	24.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/31/96-07/31/96	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

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

Station Inventory for Station: BRCA0031

NPS Station ID: BRCA0031 LAT/LON: 37.485531/-112.245892 Agency: 11NPSWRD Date Created: 08/29/98
Location: NORTH FORK BLACK BIRCH CANYON SPRING FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_SP_032
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 8436 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER ECO Region:
RF1 Index: 16030002 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UT KANE-CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. NORTH FORK BLACK BIRCH CANYON SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0031

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/05/96-08/05/96	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/05/96-08/05/96	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/05/96-08/05/96	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	08/05/96-08/05/96	1	8.34	8.34	8.34	8.34	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	08/05/96-08/05/96	1	8.34	8.34	8.34	8.34	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/05/96-08/05/96	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	08/05/96-08/05/96	1	195.	195.	195.	195.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	08/05/96-08/05/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0031

			Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------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	Fresh Chronic	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: BRCA0032

NPS Station ID: BRCA0032 | LAT/LON: 37.485642/-112.235337 | Agency: 11NPSWRD | Date Created: 10/17/98
Location: BLACK BIRCH SPRING | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_NPS_BIRCH
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UTAH KANE-COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. BLACK BIRCH SPRING IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY AND AT RISK TO CONTAMINATION FROM TRAIL RUNOFF AND CATTLE. DATA ARE FROM "A WATER QUALITY SURVEY OF THE BACK-COUNTRY IN BRYCE CANYON NATIONAL PARK" BY R. STEVEN NAKASHIMA (AN ENVIRONMENTAL HEALTH SPECIALIST); A PARK VOLUNTEER IN THE SUMMER OF 1981. THE STUDY OBJECTIVE WAS TO "DETERMINE THE BACTERIAL QUALITY OF MAJOR BACK-COUNTRY WATER SOURCES." FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717-0001 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-9956 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/81-08/18/81	1	49.	49.	49.	49.	0.	0.	**	**	**	**
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/24/81-08/18/81	3	11.5	136.833	390.	9.	48071.583	219.252	**	**	**	**
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/24/81-08/18/81	3	1.061	1.535	2.591	0.954	0.839	0.916	**	**	**	**
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			34.303								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/24/81-08/18/81	3 ##	1.5	4.333	11.5	0.	39.083	6.252	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/24/81-08/18/81	3 ##	0.176	0.412	1.061	0.	0.323	0.568	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			2.584								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/24/81-08/18/81	3	17.	21.667	37.	11.	185.333	13.614	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/24/81-08/18/81	3	1.23	1.28	1.568	1.041	0.071	0.267	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			19.055								

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

EPA Water Quality Criteria Analysis for Station: BRCA0032

				Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	3	0	0.00	2	0	0.00				1	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	3	0	0.00	2	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0033

NPS Station ID: BRCA0033
LAT/LON: 37.488116/-112.278003
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDCG509R
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BRCA_NURE_43 /5075874
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PODUNK CREEK UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/14/80-07/14/80	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/14/80-07/14/80	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/80-07/14/80	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	1	155.	155.	155.	155.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/80-07/14/80	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/14/80-07/14/80	1	7.82	7.82	7.82	7.82	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/14/80-07/14/80	1	34.	34.	34.	34.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	1	0.543	0.543	0.543	0.543	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	18.	18.	18.	18.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	3200.	3200.	3200.	3200.	0.	0.	**	**	**	**
82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/14/80-07/14/80	1	5800.	5800.	5800.	5800.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0033

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0034

NPS Station ID: BRCA0034
LAT/LON: 37.488392/-112.299004
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDCG057R
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BRCA_NURE_42 /5083917
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE PODUNK CREEK UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	1	420.	420.	420.	420.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/14/80-07/14/80	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/14/80-07/14/80	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/80-07/14/80	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	1	180.	180.	180.	180.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/80-07/14/80	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/14/80-07/14/80	1	4.06	4.06	4.06	4.06	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/14/80-07/14/80	1 ##	39.5	39.5	39.5	39.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	1	0.465	0.465	0.465	0.465	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	62.	62.	62.	62.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/14/80-07/14/80	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: BRCA0034

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0035

NPS Station ID: BRCA0035 | LAT/LON: 37.489198/-112.249559 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: SOUTH FORK PONDEROSA CANYON SPRING | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_017
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 8280 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 16030002 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UT-KANE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SOUTH FORK PONDEROSA CANYON SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/09/96-07/09/96	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/09/96-07/09/96	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/09/96-07/09/96	1	310.	310.	310.	310.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	07/09/96-07/09/96	1	8.12	8.12	8.12	8.12	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/09/96-07/09/96	1	8.12	8.12	8.12	8.12	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/96-07/09/96	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/09/96-07/09/96	1	202.	202.	202.	202.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/09/96-07/09/96	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: BRCA0035

			Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------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	Fresh Chronic	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: BRCA0036

NPS Station ID: BRCA0036 | LAT/LON: 37.491420/-112.243171 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: IRON SPRING | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_018
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 7722 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 16030002 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UT-KANE CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. IRON SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/09/96-07/09/96	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/09/96-07/09/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/09/96-07/09/96	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/09/96-07/09/96	1	510.	510.	510.	510.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/09/96-07/09/96	1	520.	520.	520.	520.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/09/96-07/09/96	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/09/96-07/09/96	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/96-07/09/96	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	07/09/96-07/09/96	1	7.17	7.17	7.17	7.17	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/09/96-07/09/96	1	7.17	7.17	7.17	7.17	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/96-07/09/96	1	0.068	0.068	0.068	0.068	0.	0.	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	07/09/96-07/09/96	1	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	07/09/96-07/09/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/09/96-07/09/96	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	07/09/96-07/09/96	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	07/09/96-07/09/96	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/09/96-07/09/96	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/09/96-07/09/96	1	115.	115.	115.	115.	0.	0.	**	**	**	**
00953	FLUORINE,TOTAL UG/L	07/09/96-07/09/96	1	370.	370.	370.	370.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	07/09/96-07/09/96	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/09/96-07/09/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/09/96-07/09/96	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: BRCA0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/09/96-07/09/96	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	07/09/96-07/09/96	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/09/96-07/09/96	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/09/96-07/09/96	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/09/96-07/09/96	1	800.	800.	800.	800.	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	07/09/96-07/09/96	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/09/96-07/09/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	07/09/96-07/09/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/09/96-07/09/96	1	118.	118.	118.	118.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/09/96-07/09/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	07/09/96-07/09/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	07/09/96-07/09/96	1	2.	2.	2.	2.	0.	0.	**	**	**	**
46123	IRON, FERROUS, AS FE MG/L	07/09/96-07/09/96	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	07/09/96-07/09/96	1	338.	338.	338.	338.	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/09/96-07/09/96	1	332.	332.	332.	332.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/09/96-07/09/96	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	07/09/96-07/09/96	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
71865	IODIDE (MG/L AS I)	07/09/96-07/09/96	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	07/09/96-07/09/96	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/09/96-07/09/96	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	07/09/96-07/09/96	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/09/96-07/09/96	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	07/09/96-07/09/96	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0036

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00406	PH, FIELD	Fresh Chronic	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			
00953	FLUORINE, TOTAL	Drinking Water	4000.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00							1	1	1.00			
		Drinking Water	5.	1	1	1.00							1	1	1.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00							1	0	0.00			
71855	NITRITE NITROGEN, TOTAL (AS NO2)	Drinking Water	3.3	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: BRCA0037

NPS Station ID: BRCA0037 | LAT/LON: 37.491587/-112.243254 | Agency: 11NPSWRD | Date Created: 10/17/98
Location: IRON SPRING | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_NPS_IRON
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: GREAT BASIN | Elevation: 0 | Water Body Id:
Minor Basin: SEVIER RIVER | ECO Region:
RF1 Index: 16030002 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UTAH KANE-COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. IRON SPRING IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY AND IS SUSCEPTIBLE TO CONTAMINATION BY TRAIL RUNOFF AND BY CATTLE. DATA ARE FROM "A WATER QUALITY SURVEY OF THE BACK-COUNTRY IN BRYCE CANYON NATIONAL PARK" BY R. STEVEN NAKASHIMA (AN ENVIRONMENTAL HEALTH SPECIALIST); A PARK VOLUNTEER IN THE SUMMER OF 1981. THE STUDY OBJECTIVE WAS TO "DETERMINE THE BACTERIAL QUALITY OF MAJOR BACK-COUNTRY WATER SOURCES." FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717-0001 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/81-08/18/81	1	46.	46.	46.	46.	0.	0.	**	**	**	**
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/24/81-08/18/81	3 ##	11.5	81.	230.	1.5	16675.75	129.135	**	**	**	**
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/24/81-08/18/81	3 ##	1.061	1.2	2.362	0.176	1.209	1.099	**	**	**	**
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			15.831								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/24/81-08/18/81	3 ##	1.5	4.333	11.5	0.	39.083	6.252	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/24/81-08/18/81	3 ##	0.176	0.412	1.061	0.	0.323	0.568	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			2.584								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/24/81-08/18/81	3	1.5	2.167	5.	0.	6.583	2.566	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/24/81-08/18/81	3	0.176	0.292	0.699	0.	0.132	0.364	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			1.957								

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

EPA Water Quality Criteria Analysis for Station: BRCA0037

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	3	0	0.00	2	0	0.00				1	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	3	0	0.00	2	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0038

NPS Station ID: BRCA0038 LAT/LON: 37.493615/-112.246116 Agency: 11NPSWRD Date Created: 10/17/98
Location: PONDEROSA CAMPSITE-SOUTH FORK PONDEROSA CREEK FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): BRCA_NPS_PC
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: GREAT BASIN Elevation: 0 Water Body Id:
Minor Basin: SEVIER RIVER ECO Region:
RF1 Index: 16030002 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE RAINBOW POINT UTAH-KANE COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON SOUTH FORK PONDEROSA CREEK AT PONDEROSA CAMPSITE AND IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. DATA ARE FROM "A WATER QUALITY SURVEY OF THE BACK-COUNTRY IN BRYCE CANYON NATIONAL PARK" BY R. STEVEN NAKASHIMA (AN ENVIRONMENTAL HEALTH SPECIALIST); A PARK VOLUNTEER IN THE SUMMER OF 1981. IN 1981; THE CREEK WAS DRY AFTER AUGUST 1ST. THE STUDY OBJECTIVE WAS TO "DETERMINE THE BACTERIAL QUALITY OF MAJOR BACK-COUNTRY WATER SOURCES." FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717-0001 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0038

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/24/81-07/20/81	4	2400.	2550.	4300.	1100.	1736666.667	1317.826	**	**	**	**
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/24/81-07/20/81	4	3.38	3.359	3.633	3.041	0.059	0.243	**	**	**	**
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			2284.656								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/24/81-07/20/81	4 ##	9.5	9.875	11.5	9.	1.396	1.181	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/24/81-07/20/81	4 ##	0.977	0.992	1.061	0.954	0.003	0.05	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			9.824								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/24/81-07/20/81	4	53.	58.25	94.	33.	662.917	25.747	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/24/81-07/20/81	4	1.724	1.735	1.973	1.519	0.035	0.187	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			54.288								

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

EPA Water Quality Criteria Analysis for Station: BRCA0038

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	4	4	1.00	2	2	1.00				2	2	1.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	4	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: BRCA0039

NPS Station ID: BRCA0039
LAT/LON: 37.501309/-112.288392
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDBG047R
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BRCA_NURE_35 /5083878
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC RESERVOIR UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/80-07/22/80	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/22/80-07/22/80	1	430.	430.	430.	430.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/22/80-07/22/80	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/22/80-07/22/80	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/80-07/22/80	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/22/80-07/22/80	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/22/80-07/22/80	1	10.3	10.3	10.3	10.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/22/80-07/22/80	1	9.52	9.52	9.52	9.52	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/22/80-07/22/80	1	47.	47.	47.	47.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/22/80-07/22/80	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/22/80-07/22/80	1	288.	288.	288.	288.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/22/80-07/22/80	1	0.529	0.529	0.529	0.529	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	1	40.	40.	40.	40.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	1	2600.	2600.	2600.	2600.	0.	0.	**	**	**	**
50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	1	27.1	27.1	27.1	27.1	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/22/80-07/22/80	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: BRCA0039

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0040

NPS Station ID: BRCA0040
LAT/LON: 37.501948/-112.272504
Agency: 112WRD
Date Created: 06/20/87
Location: (C-37- 4)31CBB-S1
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 373007112162101
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0040

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: BRCA0041

NPS Station ID: BRCA0041 LAT/LON: 37.503253/-112.257282 Agency: 11NPSWRD Date Created: 08/29/98
Location: CENTER FORK PONDEROSA CANYON SPRING FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_SP_026
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 8337 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER ECO Region:
RF1 Index: 16030002 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC RESERVOIR UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. CENTER FORK PONDEROSA CANYON SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/96-07/29/96	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/29/96-07/29/96	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/29/96-07/29/96	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/29/96-07/29/96	1	420.	420.	420.	420.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/29/96-07/29/96	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/29/96-07/29/96	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/29/96-07/29/96	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/96-07/29/96	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	07/29/96-07/29/96	1	8.25	8.25	8.25	8.25	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/29/96-07/29/96	1	8.25	8.25	8.25	8.25	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/96-07/29/96	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	07/29/96-07/29/96	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	07/29/96-07/29/96	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/29/96-07/29/96	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	07/29/96-07/29/96	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	07/29/96-07/29/96	1	70.	70.	70.	70.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/29/96-07/29/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/29/96-07/29/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00953	FLUORINE,TOTAL UG/L	07/29/96-07/29/96	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	07/29/96-07/29/96	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/96-07/29/96	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/29/96-07/29/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: BRCA0041

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/96-07/29/96	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	07/29/96-07/29/96	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/29/96-07/29/96	1	210.	210.	210.	210.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/29/96-07/29/96	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/96-07/29/96	1	300.	300.	300.	300.	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	07/29/96-07/29/96	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/29/96-07/29/96	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	07/29/96-07/29/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/29/96-07/29/96	1	230.	230.	230.	230.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/29/96-07/29/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	07/29/96-07/29/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	07/29/96-07/29/96	1	2.	2.	2.	2.	0.	0.	**	**	**	**
46123	IRON, FERROUS, AS FE MG/L	07/29/96-07/29/96	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	07/29/96-07/29/96	1	260.	260.	260.	260.	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/29/96-07/29/96	1	273.	273.	273.	273.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/29/96-07/29/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	07/29/96-07/29/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
71865	IODIDE (MG/L AS I)	07/29/96-07/29/96	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	07/29/96-07/29/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/29/96-07/29/96	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	07/29/96-07/29/96	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/29/96-07/29/96	1	5.	5.	5.	5.	0.	0.	**	**	**	**
82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	07/29/96-07/29/96	1	6.1	6.1	6.1	6.1	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: BRCA0041

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00406	PH, FIELD	Fresh Chronic	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									
00953	FLUORINE, TOTAL	Drinking Water	4000.	1	0	0.00	1	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00	1	1	1.00									
		Drinking Water	5.	1	1	1.00	1	1	1.00									
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	1	1.00	1	1	1.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00	1	1	1.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00	1	0	0.00									
		Drinking Water	15.	1	1	1.00	1	1	1.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00	1	0	0.00									
		Drinking Water	100.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00	1	1	1.00									
		Drinking Water	5000.	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									
71855	NITRITE NITROGEN, TOTAL (AS NO2)	Drinking Water	3.3	1	0	0.00	1	0	0.00									
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	1	1.00	1	1	1.00									
		Drinking Water	2.	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: BRCA0042

NPS Station ID: BRCA0042 | LAT/LON: 37.507031/-112.257003 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: NORTH FORK PONDEROSA CANYON SPRING | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_027
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 8320 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 16030002 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC RESERVOIR UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. NORTH FORK PONDEROSA CANYON SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/29/96-07/29/96	1	29.	29.	29.	29.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/29/96-07/29/96	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

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

Station Inventory for Station: BRCA0043

NPS Station ID: BRCA0043 | LAT/LON: 37.507920/-112.187532 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: SPRING AT WILLIS CREEK | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_79
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: MIDDLE COLORADO RIVER-SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING AT WILLIS CREEK IS LOCATED OUTSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0043

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/03/64-08/03/64	1	58.	58.	58.	58.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: BRCA0044

NPS Station ID: BRCA0044 LAT/LON: 37.510281/-112.194949 Agency: 11NPSWRD Date Created: 12/05/98
Location: SPRING NEAR HEADWATERS OF WILLIS CREEK FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_UU_78
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: MIDDLE COLORADO RIVER-SAN JUAN RIVER ECO Region:
RF1 Index: 14070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING NEAR THE HEADWATERS OF WILLIS CREEK IS LOCATED OUTSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0044

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/13/64-08/13/64	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/13/64-08/13/64	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/13/64-08/13/64	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/64-08/13/64	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/64-08/13/64	1	355.	355.	355.	355.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/13/64-08/13/64	1	560.	560.	560.	560.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/13/64-08/13/64	1	86.	86.	86.	86.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/13/64-08/13/64	1	58.	58.	58.	58.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/13/64-08/13/64	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/13/64-08/13/64	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/13/64-08/13/64	1	122.	122.	122.	122.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/13/64-08/13/64	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/13/64-08/13/64	1	30.	30.	30.	30.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/13/64-08/13/64	1	452.	452.	452.	452.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/13/64-08/13/64	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: BRCA0044

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0045

NPS Station ID: BRCA0045 | LAT/LON: 37.512115/-112.200616 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: CDBH060R | | FIPS State/County: 49025 UTAH/KANE |
Station Type: /TYPA/AMBNT/STREAM | | STORET Station ID(s): BRCA_NURE_10 /5083885 |
RMI-Indexes: | | Within Park Boundary: No |
RMI-Miles: | | |
HUC: 14070007 | Depth of Water: 0 | Aquifer: |
Major Basin: GREAT BASIN | Elevation: 0 | Water Body Id: |
Minor Basin: SEVIER RIVER | | ECO Region: |
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:

Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0045

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/15/80-07/15/80	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/15/80-07/15/80	1	800.	800.	800.	800.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/15/80-07/15/80	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/15/80-07/15/80	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/15/80-07/15/80	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/15/80-07/15/80	1	320.	320.	320.	320.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/15/80-07/15/80	1	48.6	48.6	48.6	48.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/15/80-07/15/80	1	13.95	13.95	13.95	13.95	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/15/80-07/15/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/15/80-07/15/80	1	114.	114.	114.	114.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/15/80-07/15/80	1	2.234	2.234	2.234	2.234	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/15/80-07/15/80	1	197.	197.	197.	197.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/15/80-07/15/80	1	7500.	7500.	7500.	7500.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/15/80-07/15/80	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: BRCA0045

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0046

NPS Station ID: BRCA0046 | LAT/LON: 37.513476/-112.261060 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: SOUTH FORK AGUA CANYON SPRING | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_029
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 8320 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 16030002 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC RESERVOIR UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SOUTH FORK AGUA CANYON SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/30/96-07/30/96	1	29.	29.	29.	29.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/30/96-07/30/96	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

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

Station Inventory for Station: BRCA0047

NPS Station ID: BRCA0047 | LAT/LON: 37.515726/-112.262115 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: NORTH FORK AGUA CANYON SPRING | FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_028
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 8766 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 16030002 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC RESERVOIR UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. NORTH FORK AGUA CANYON SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0047

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/30/96-07/30/96	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/30/96-07/30/96	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/30/96-07/30/96	1	320.	320.	320.	320.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	07/30/96-07/30/96	1	8.36	8.36	8.36	8.36	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/30/96-07/30/96	1	8.36	8.36	8.36	8.36	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/30/96-07/30/96	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/30/96-07/30/96	1	208.	208.	208.	208.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/30/96-07/30/96	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: BRCA0047

			Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			--------------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	Fresh Chronic	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: BRCA0048

NPS Station ID: BRCA0048
LAT/LON: 37.524115/-112.136392
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDBH512R
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BRCA_NURE_15 /5075798
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070007
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 14070007
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	1	5500.	5500.	5500.	5500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/14/80-07/14/80	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/14/80-07/14/80	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/80-07/14/80	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	1	285.	285.	285.	285.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/14/80-07/14/80	1	39.9	39.9	39.9	39.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/14/80-07/14/80	1	31.68	31.68	31.68	31.68	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	1	21.8	21.8	21.8	21.8	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	17100.	17100.	17100.	17100.	0.	0.	**	**	**	**
50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	256.8	256.8	256.8	256.8	0.	0.	**	**	**	**
82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/14/80-07/14/80	1	5900.	5900.	5900.	5900.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0048

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	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: BRCA0049

NPS Station ID: BRCA0049 LAT/LON: 37.529503/-112.255670 Agency: 11NPSWRD Date Created: 08/29/98
Location: NATURAL BRIDGE SPRING FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_SP_022
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 8150 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER ECO Region:
RF1 Index: 16030002 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC RESERVOIR UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. NATURAL BRIDGE SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0049

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/23/96-07/23/96	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/23/96-07/23/96	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/23/96-07/23/96	1	590.	590.	590.	590.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	07/23/96-07/23/96	1	7.96	7.96	7.96	7.96	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/23/96-07/23/96	1	7.96	7.96	7.96	7.96	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/23/96-07/23/96	1	0.011	0.011	0.011	0.011	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/23/96-07/23/96	1	384.	384.	384.	384.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/23/96-07/23/96	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: BRCA0049

			Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			--------------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	Fresh Chronic	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: BRCA0050

NPS Station ID: BRCA0050 LAT/LON: 37.536615/-112.185171 Agency: 11NPSWRD Date Created: 12/05/98
Location: HEWARD SPRING FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_UU_43
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: MIDDLE COLORADO RIVER-SAN JUAN RIVER ECO Region:
RF1 Index: 14070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. HEWARD SPRING IS LOCATED OUTSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0050

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/19/68-08/19/68	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

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

Station Inventory for Station: BRCA0051

NPS Station ID: BRCA0051
LAT/LON: 37.541198/-112.150116
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDBH513R
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BRCA_NURE_16 /5075799
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070007
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 14070007
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0051

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	1	1800.	1800.	1800.	1800.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/14/80-07/14/80	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/14/80-07/14/80	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/80-07/14/80	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	1	300.	300.	300.	300.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	1	9.22	9.22	9.22	9.22	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	523.	523.	523.	523.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	26800.	26800.	26800.	26800.	0.	0.	**	**	**	**
50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	98.8	98.8	98.8	98.8	0.	0.	**	**	**	**
82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/14/80-07/14/80	1	11000.	11000.	11000.	11000.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0051

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0052

NPS Station ID: BRCA0052
LAT/LON: 37.543615/-112.272504
Agency: 112WRD
Date Created: 06/20/87
Location: (C-37- 4)31CBB-S1
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 373237112162101
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0052

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/81-09/23/82	3	6.	5.9	6.	5.7	0.03	0.173	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	07/24/81-05/23/82	2	125.	125.	216.	34.	16562.	128.693	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/81-09/23/82	3	410.	403.333	445.	355.	2058.333	45.369	**	**	**	**
00400	PH (STANDARD UNITS)	07/24/81-09/23/82	3	7.7	7.6	7.8	7.3	0.07	0.265	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/24/81-09/23/82	3	7.7	7.543	7.8	7.3	0.075	0.274	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/24/81-09/23/82	3	0.02	0.029	0.05	0.016	0.	0.019	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/24/81-05/23/82	2	8.1	8.1	8.4	7.8	0.18	0.424	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/24/81-05/23/82	2	8.004	8.004	8.4	7.8	0.199	0.446	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/24/81-05/23/82	2	0.01	0.01	0.016	0.004	0.	0.008	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/23/82-05/23/82	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/24/81-05/23/82	2 ##	0.07	0.07	0.09	0.05	0.001	0.028	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/24/81-05/23/82	2	220.	220.	220.	220.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/23/82-05/23/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/24/81-05/23/82	2	40.5	40.5	41.	40.	0.5	0.707	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/24/81-05/23/82	2	28.	28.	28.	28.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/24/81-05/23/82	2	2.1	2.1	2.2	2.	0.02	0.141	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/24/81-05/23/82	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	07/24/81-05/23/82	2	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/24/81-05/23/82	2	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/24/81-05/23/82	2	3.	3.	3.	3.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/24/81-05/23/82	2 ##	3.75	3.75	5.	2.5	3.125	1.768	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/24/81-05/23/82	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/24/81-05/23/82	2	6.2	6.2	6.3	6.1	0.02	0.141	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	07/24/81-07/24/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/24/81-05/23/82	2 ##	7.25	7.25	10.	4.5	15.125	3.889	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/24/81-05/23/82	2 ##	2.25	2.25	3.	1.5	1.125	1.061	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/24/81-05/23/82	2	124.	124.	214.	34.	16200.	127.279	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0052

				Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400	PH	Fresh Chronic	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			

& - 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: BRCA0052

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0053

NPS Station ID: BRCA0053 | LAT/LON: 37.543754/-112.254338 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: LONG HOLLOW SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_016
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 8880 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 16030002 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC RESERVOIR UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. LONG HOLLOW SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0053

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/07/96-07/07/96	1	22.	22.	22.	22.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/07/96-07/07/96	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

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

Station Inventory for Station: BRCA0054

NPS Station ID: BRCA0054 | LAT/LON: 37.543754/-112.272559 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: BRIDGE HOLLOW SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_015
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 8080 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 16030002 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC RESERVOIR UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. BRIDGE HOLLOW SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/06/96-07/06/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/06/96-07/06/96	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

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

Station Inventory for Station: BRCA0055

NPS Station ID: BRCA0055 LAT/LON: 37.545837/-112.077504 Agency: 11NPSWRD Date Created: 12/05/98
Location: SECOND YELLOW CREEK WASH SPRING FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_UU_34
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: MIDDLE COLORADO RIVER-SAN JUAN RIVER ECO Region:
RF1 Index: 14070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE CANNONVILLE UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SECOND YELLOW CREEK WASH SPRING IS LOCATED OUTSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/68-08/18/68	1	49.	49.	49.	49.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/18/68-08/18/68	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/18/68-08/18/68	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/18/68-08/18/68	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/18/68-08/18/68	1	310.	310.	310.	310.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/18/68-08/18/68	1	822.	822.	822.	822.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/18/68-08/18/68	1	90.	90.	90.	90.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/18/68-08/18/68	1	53.	53.	53.	53.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/18/68-08/18/68	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/18/68-08/18/68	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/18/68-08/18/68	1	319.	319.	319.	319.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/18/68-08/18/68	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/18/68-08/18/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/18/68-08/18/68	1	445.	445.	445.	445.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/18/68-08/18/68	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: BRCA0055

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
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: BRCA0056

NPS Station ID: BRCA0056 | LAT/LON: 37.546199/-112.076420 | Agency: 11NPSWRD | Date Created: 11/21/98
Location: THIRD YELLOW CREEK WASH SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_USGS_TYCW
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: MIDDLE COLORADO RIVER-SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE CANNONVILLE UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THIRD YELLOW CREEK WASH SPRING IS LOCATED OUTSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE 1963 UNITED STATES GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1475-M "GROUND-WATER RESOURCES OF THE BRYCE CANYON NATIONAL AREA; UTAH" BY I. WENDELL MARINE IN COOPERATION WITH THE NATIONAL PARK SERVICE. THE OBJECTIVES OF THE REPORT WERE "TO DETERMINE THE QUANTITY; QUALITY; AND DEPENDABILITY OF ALL POSSIBLE SOURCES OF WATER SUPPLY FOR THE PARK." THE LATITUDE AND LONGITUDE FOR EACH STATION WERE DETERMINED BY DIGITIZING OFF OF PLATE 24 WHICH IS INCLUDED IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0056

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/14/57-10/14/57	1	2030.	2030.	2030.	2030.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/14/57-10/14/57	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/14/57-10/14/57	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/14/57-10/14/57	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/14/57-10/14/57	1	340.	340.	340.	340.	0.	0.	**	**	**	**
00901	HARDNESS, CARBONATE (MG/L AS CACO3)	10/14/57-10/14/57	1	633.	633.	633.	633.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/14/57-10/14/57	1	912.	912.	912.	912.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/14/57-10/14/57	1	186.	186.	186.	186.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/14/57-10/14/57	1	109.	109.	109.	109.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	10/14/57-10/14/57	1	167.	167.	167.	167.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/14/57-10/14/57	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/14/57-10/14/57	1	933.	933.	933.	933.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/14/57-10/14/57	1	15.	15.	15.	15.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/14/57-10/14/57	1	1600.	1600.	1600.	1600.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/14/57-10/14/57	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

EPA Water Quality Criteria Analysis for Station: BRCA0056

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
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: BRCA0057

NPS Station ID: BRCA0057
LAT/LON: 37.552309/-112.308115
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDBG041R
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BRCA_NURE_44 /5083877
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC RESERVOIR UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/80-07/22/80	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/22/80-07/22/80	1	560.	560.	560.	560.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/22/80-07/22/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/22/80-07/22/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/80-07/22/80	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/22/80-07/22/80	1	210.	210.	210.	210.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/22/80-07/22/80	1	21.9	21.9	21.9	21.9	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/22/80-07/22/80	1	18.15	18.15	18.15	18.15	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/22/80-07/22/80	1	83.	83.	83.	83.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/22/80-07/22/80	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/22/80-07/22/80	1	884.	884.	884.	884.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/22/80-07/22/80	1	1.843	1.843	1.843	1.843	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	1	101.	101.	101.	101.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	1	4800.	4800.	4800.	4800.	0.	0.	**	**	**	**
50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	1	27.7	27.7	27.7	27.7	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/22/80-07/22/80	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: BRCA0057

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0058

NPS Station ID: BRCA0058 LAT/LON: 37.562505/-112.228031 Agency: 11NPSWRD Date Created: 08/29/98
Location: UPPER SWAMP SPRING FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_SP_007
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 Depth of Water: 0 Aquifer:
Major Basin: COLORADO RIVER Elevation: 8046 Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER ECO Region:
RF1 Index: 14070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. UPPER SWAMP SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0058

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/18/96-06/18/96	1	25.	25.	25.	25.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	06/18/96-06/18/96	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

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

Station Inventory for Station: BRCA0059

NPS Station ID: BRCA0059
LAT/LON: 37.564115/-112.195503
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDBH514R
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BRCA_NURE_11 /5075800
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070007
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 14070007
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0059

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/15/80-07/15/80	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/15/80-07/15/80	1	650.	650.	650.	650.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/15/80-07/15/80	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/15/80-07/15/80	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/15/80-07/15/80	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/15/80-07/15/80	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/15/80-07/15/80	1	40.3	40.3	40.3	40.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/15/80-07/15/80	1	13.09	13.09	13.09	13.09	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/15/80-07/15/80	1	47.	47.	47.	47.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/15/80-07/15/80	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/15/80-07/15/80	1	0.476	0.476	0.476	0.476	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/15/80-07/15/80	1	204.	204.	204.	204.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/15/80-07/15/80	1	5400.	5400.	5400.	5400.	0.	0.	**	**	**	**
82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/15/80-07/15/80	1	6400.	6400.	6400.	6400.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0059

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0060

NPS Station ID: BRCA0060
LAT/LON: 37.565392/-112.198392
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDBH057R
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BRCA_NURE_09 /5083884
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070007
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 14070007
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/15/80-07/15/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/15/80-07/15/80	1	900.	900.	900.	900.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/15/80-07/15/80	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/15/80-07/15/80	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/15/80-07/15/80	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/15/80-07/15/80	1	305.	305.	305.	305.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/15/80-07/15/80	1	57.1	57.1	57.1	57.1	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/15/80-07/15/80	1	11.07	11.07	11.07	11.07	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/15/80-07/15/80	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/15/80-07/15/80	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/15/80-07/15/80	1	221.	221.	221.	221.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/15/80-07/15/80	1	1.768	1.768	1.768	1.768	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/15/80-07/15/80	1	211.	211.	211.	211.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/15/80-07/15/80	1	7500.	7500.	7500.	7500.	0.	0.	**	**	**	**
50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/15/80-07/15/80	1	28.6	28.6	28.6	28.6	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/15/80-07/15/80	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: BRCA0060

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0061

NPS Station ID: BRCA0061 | LAT/LON: 37.572587/-112.201588 | Agency: 11NPSWRD | Date Created: 11/21/98
Location: SWAMP CANYON SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_USGS_SWAM
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SWAMP CANYON SPRING IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE 1963 UNITED STATES GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1475-M "GROUND-WATER RESOURCES OF THE BRYCE CANYON NATIONAL AREA; UTAH" BY I. WENDELL MARINE IN COOPERATION WITH THE NATIONAL PARK SERVICE. THE OBJECTIVES OF THE REPORT WERE "TO DETERMINE THE QUANTITY; QUALITY; AND DEPENDABILITY OF ALL POSSIBLE SOURCES OF WATER SUPPLY FOR THE PARK." THE LATITUDE AND LONGITUDE FOR EACH STATION WERE DETERMINED BY DIGITIZING OFF OF PLATE 2 WHICH IS INCLUDED IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0061

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	09/29/56-09/29/56	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/29/56-09/29/56	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/29/56-09/29/56	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/29/56-09/29/56	1	545.	545.	545.	545.	0.	0.	**	**	**	**
00901	HARDNESS, CARBONATE (MG/L AS CACO3)	09/29/56-09/29/56	1	846.	846.	846.	846.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/29/56-09/29/56	1	120.	120.	120.	120.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/29/56-09/29/56	1	133.	133.	133.	133.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/29/56-09/29/56	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/29/56-09/29/56	1	345.	345.	345.	345.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/29/56-09/29/56	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/29/56-09/29/56	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	09/29/56-09/29/56	1	100.	100.	100.	100.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/29/56-09/29/56	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: BRCA0061

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0062

NPS Station ID: BRCA0062 | LAT/LON: 37.573726/-112.199421 | Agency: 11NPSWRD | Date Created: 11/21/98
Location: SHEEP CREEK SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_USGS_SHEE
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SHEEP CREEK SPRING IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE 1963 UNITED STATES GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1475-M "GROUND-WATER RESOURCES OF THE BRYCE CANYON NATIONAL AREA; UTAH" BY I. WENDELL MARINE IN COOPERATION WITH THE NATIONAL PARK SERVICE. THE OBJECTIVES OF THE REPORT WERE "TO DETERMINE THE QUANTITY; QUALITY; AND DEPENDABILITY OF ALL POSSIBLE SOURCES OF WATER SUPPLY FOR THE PARK." THE LATITUDE AND LONGITUDE FOR EACH STATION WERE DETERMINED BY DIGITIZING OFF OF PLATE 2 WHICH IS INCLUDED IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0062

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/20/57-05/20/57	1	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/20/57-05/20/57	1	1160.	1160.	1160.	1160.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/09/56-05/20/57	2	7.75	7.75	7.8	7.7	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/09/56-05/20/57	2	7.747	7.747	7.8	7.7	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/09/56-05/20/57	2	0.018	0.018	0.02	0.016	0.	0.003	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/09/56-05/20/57	2	414.	414.	426.	402.	288.	16.971	**	**	**	**
00901	HARDNESS, CARBONATE (MG/L AS CACO3)	11/09/56-05/20/57	2	714.5	714.5	715.	714.	0.5	0.707	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/20/57-05/20/57	1	384.	384.	384.	384.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/09/56-05/20/57	2	115.	115.	137.	93.	968.	31.113	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/09/56-05/20/57	2	103.5	103.5	117.	90.	364.5	19.092	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	11/09/56-05/20/57	2	2.4	2.4	2.8	2.	0.32	0.566	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/09/56-05/20/57	2	9.	9.	10.	8.	2.	1.414	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/09/56-05/20/57	2	351.	351.	364.	338.	338.	18.385	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/09/56-11/09/56	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/09/56-05/20/57	2	20.5	20.5	26.	15.	60.5	7.778	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	05/20/57-05/20/57	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	11/09/56-11/09/56	1	20.	20.	20.	20.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/09/56-05/20/57	2	805.5	805.5	815.	796.	180.5	13.435	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/09/56-05/20/57	2	0.05	0.05	0.1	0.	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: BRCA0062

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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			
00941	CHLORIDE, DISSOLVED 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			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	2	2	1.00	1	1	1.00				1	1	1.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	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: BRCA0063

NPS Station ID: BRCA0063 | LAT/LON: 37.574532/-112.198782 | Agency: 11NPSWRD | Date Created: 10/17/98
Location: SHEEP CREEK SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_NPS_SCS
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SHEEP CREEK SPRING IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SPRING IS SUSCEPTIBLE TO CONTAMINATION WHEN THE CATTLE ARE DRIVEN UP THE TRAIL TO THE PLATEAU. DATA ARE FROM "A WATER QUALITY SURVEY OF THE BACK-COUNTRY IN BRYCE CANYON NATIONAL PARK" BY R. STEVEN NAKASHIMA (AN ENVIRONMENTAL HEALTH SPECIALIST); A PARK VOLUNTEER IN THE SUMMER OF 1981. THE STUDY OBJECTIVE WAS TO "DETERMINE THE BACTERIAL QUALITY OF MAJOR BACK-COUNTRY WATER SOURCES." FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717-0001 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/81-08/18/81	1	50.	50.	50.	50.	0.	0.	**	**	**	**
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/23/81-08/18/81	3	930.	1124.333	2400.	43.	1417186.333	1190.456	**	**	**	**
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/23/81-08/18/81	3	2.968	2.661	3.38	1.633	0.834	0.913	**	**	**	**
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			457.848								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-08/18/81	3 ##	11.5	8.167	11.5	1.5	33.333	5.774	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-08/18/81	3 ##	1.061	0.766	1.061	0.176	0.261	0.511	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			5.832								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-08/18/81	3	5.	6.333	11.	3.	17.333	4.163	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-08/18/81	3	0.699	0.739	1.041	0.477	0.081	0.284	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			5.485								

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

EPA Water Quality Criteria Analysis for Station: BRCA0063

				Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	3	1	0.33	2	1	0.50				1	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	3	0	0.00	2	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0064

NPS Station ID: BRCA0064 | LAT/LON: 37.575282/-112.148060 | Agency: 11NPSWRD | Date Created: 10/17/98
Location: YELLOW CREEK GROUP CAMPSITE | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): BRCA_NPS_YCG
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS ON YELLOW CREEK AT THE GROUP CAMPSITE AND IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. DATA ARE FROM "A WATER QUALITY SURVEY OF THE BACK-COUNTRY IN BRYCE CANYON NATIONAL PARK" BY R. STEVEN NAKASHIMA (AN ENVIRONMENTAL HEALTH SPECIALIST); A PARK VOLUNTEER IN THE SUMMER OF 1981. THE STUDY OBJECTIVE WAS TO "DETERMINE THE BACTERIAL QUALITY OF MAJOR BACK-COUNTRY WATER SOURCES." FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717-0001 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0064

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/23/81-06/23/81	1	240.	240.	240.	240.	0.	0.	**	**	**	**
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/23/81-06/23/81	1	2.38	2.38	2.38	2.38	0.	0.	**	**	**	**
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			240.								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-06/23/81	1	9.	9.	9.	9.	0.	0.	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-06/23/81	1	0.954	0.954	0.954	0.954	0.	0.	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			9.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-06/23/81	1	57.	57.	57.	57.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-06/23/81	1	1.756	1.756	1.756	1.756	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			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 time series plot

EPA Water Quality Criteria Analysis for Station: BRCA0064

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	1	0	0.00							1	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BRCA0065

NPS Station ID: BRCA0065
LAT/LON: 37.575837/-112.265004
Agency: 112WRD
Date Created: / /
Location: EAST FK SEVIER RIV NR RUBYS INN UTAH
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 10183900
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 16030002020
RF1 Mile Point: 19.380
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0065

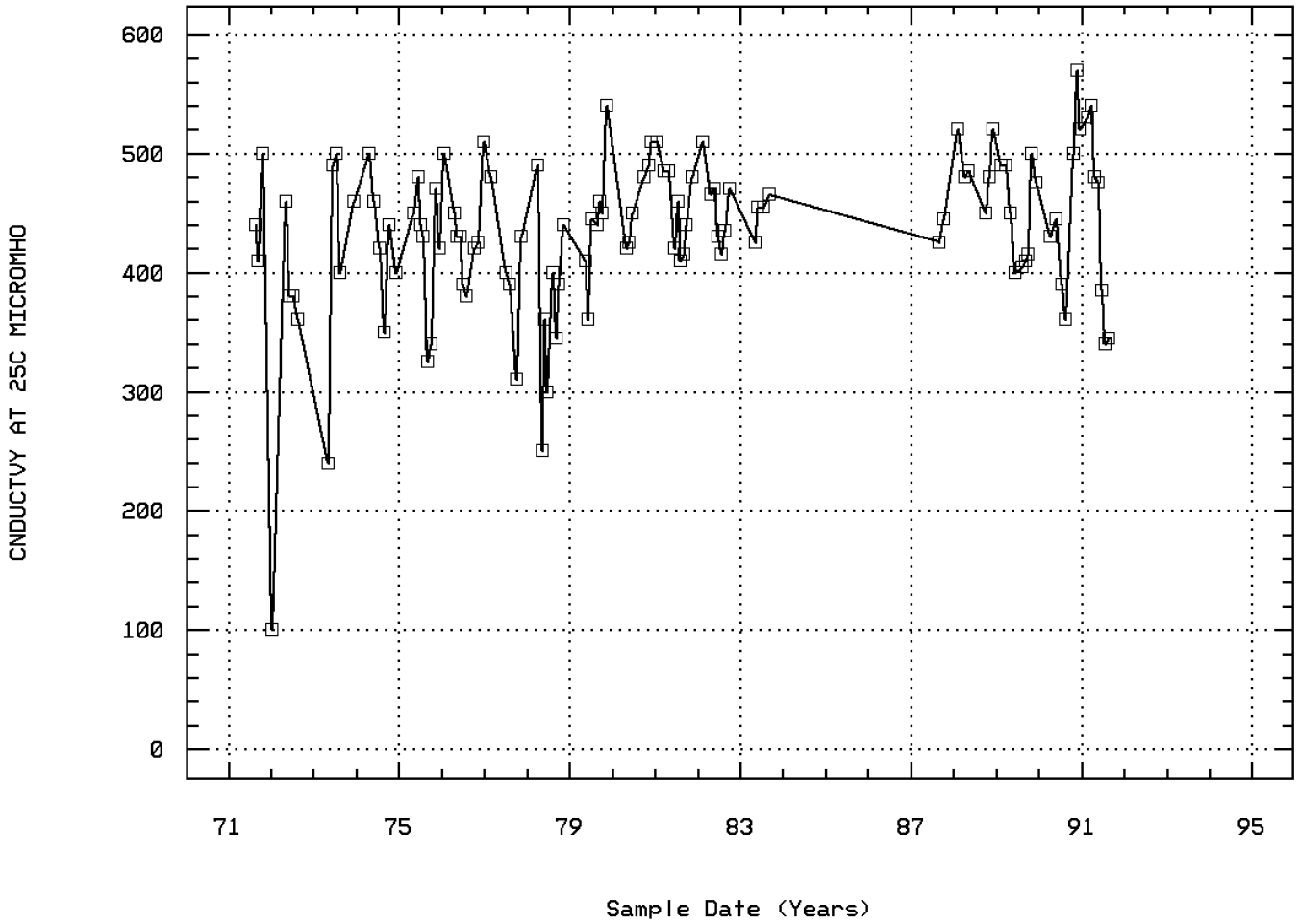
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/19/71-08/20/91	119	8.	9.177	23.	0.	43.423	6.59	0.5	4.	15.	18.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	09/03/87-07/19/91	31	15.6	14.342	31.	-5.	103.148	10.156	0.4	-5.	21.	27.3
00060	FLOW, STREAM, MEAN DAILY CFS	08/19/71-08/27/74	18	8.5	18.722	157.	3.	1278.212	35.752	3.9	5.	12.25	55.3
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	106	10.	23.991	271.	3.	2054.6	45.328	5.	7.	20.	41.8
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/71-08/20/91	113	440.	434.469	570.	100.	4432.751	66.579	354.	402.5	480.	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 time series plot

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

Station: BRCA0065 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



EAST FK SEVIER RIV NR RUBYS INN UTAH

Annual Analysis for 1974 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	2	6.	6.	6.	6.	0.	0.	**	**	**	**

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

Annual Analysis for 1975 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	8	9.5	13.125	34.	6.	96.696	9.833	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	9	7.	15.444	55.	6.	277.278	16.652	6.	6.5	20.5	55.

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

Annual Analysis for 1977 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	5	5.	6.6	13.	3.	16.3	4.037	**	**	**	**

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

Annual Analysis for 1978 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	8	8.5	18.625	53.	4.	330.554	18.181	**	**	**	**

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

Annual Analysis for 1979 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	7	15.	49.429	201.	5.	5134.286	71.654	**	**	**	**

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

Annual Analysis for 1980 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	6	37.5	90.5	271.	7.	11883.9	109.013	**	**	**	**

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

Annual Analysis for 1981 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	11	9.	11.182	27.	3.	47.564	6.897	3.6	7.	17.	25.2

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

Annual Analysis for 1982 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	7	13.	20.857	46.	9.	236.81	15.389	**	**	**	**

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

Annual Analysis for 1983 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	4	104.	117.75	245.	18.	12792.917	113.106	**	**	**	**

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

Annual Analysis for 1987 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	3	8.	7.667	8.	7.	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 1988 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	9	13.	17.111	37.	7.	102.361	10.117	7.	9.	24.	37.

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

Annual Analysis for 1989 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	12	7.5	11.25	23.	3.	51.659	7.187	3.6	6.25	18.	23.

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

Annual Analysis for 1990 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	8	8.5	10.625	24.	4.	49.982	7.07	**	**	**	**

** - 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 1991 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	7	12.	11.286	27.	4.	64.905	8.056	**	**	**	**

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

Seasonal Analysis for Season #1: 7/10 to 2/19 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/19/71-08/20/91	72	8.	9.397	23.	0.	53.853	7.338	0.5	1.125	15.875	19.
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	64	8.	9.578	28.	3.	33.867	5.82	4.	6.	10.	18.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/71-08/20/91	69	440.	433.696	570.	100.	4822.538	69.444	345.	400.	480.	510.

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

Seasonal Analysis for Season #2: 2/20 to 5/09 - Station BRCA0065

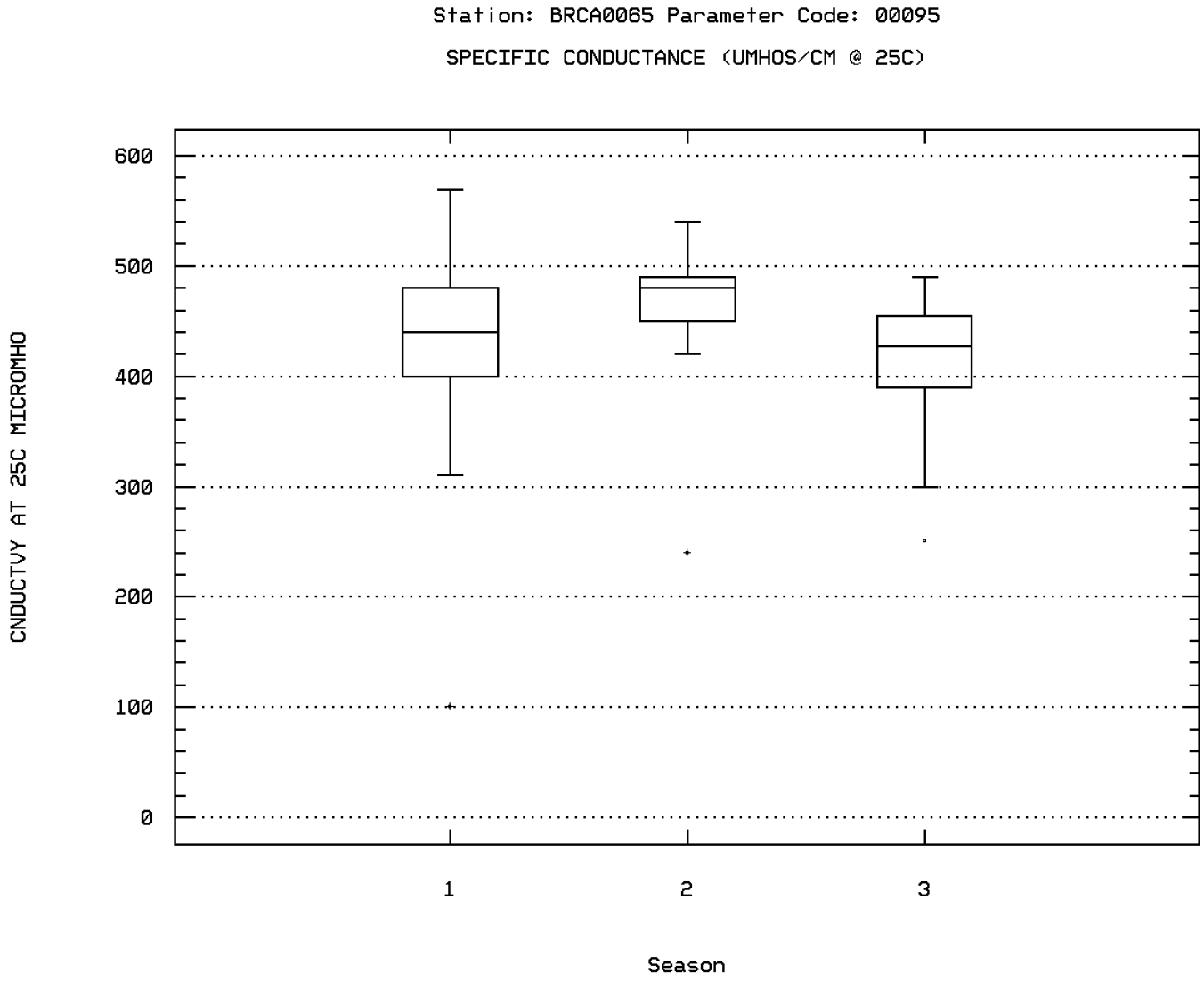
Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/19/71-08/20/91	20	4.75	5.225	13.	0.	14.223	3.771	0.	2.	8.	11.25
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	18	23.5	31.889	177.	4.	1427.987	37.789	9.4	15.75	34.75	59.1
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/71-08/20/91	18	480.	463.889	540.	240.	4042.81	63.583	402.	450.	490.	531.

** - Less than 9 observations ## - Computed 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: 5/10 to 7/09 - Station BRCA0065

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/19/71-08/20/91	27	11.5	11.519	21.	4.	21.778	4.667	4.9	7.5	16.	17.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/08/74-08/20/91	24	13.5	56.5	271.	6.	6501.826	80.634	7.	9.	56.5	223.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/71-08/20/91	26	427.5	416.154	490.	250.	3018.615	54.942	342.	388.75	456.25	476.5

** - 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



EAST FK SEVIER RIV NR RUBYS INN UTAH

Station Inventory for Station: BRCA0066

NPS Station ID: BRCA0066 LAT/LON: 37.575837/-112.265004 Agency: 21UTAH Date Created: 11/24/90
Location: EAST FK SEVIER R AT USGS10183900 AB TROPIC RES FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 494940
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 16030002 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0066

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/87-05/22/97	19	10.3	11.553	20.1	0.	42.457	6.516	1.1	7.8	16.7	20.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/11/93-05/11/93	1	27.5	27.5	27.5	27.5	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/11/87-05/22/97	12	12.5	45.583	190.	3.	3641.902	60.348	3.9	7.5	86.5	169.9
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/21/87-05/22/97	19	2.6	6.826	42.	0.8	141.776	11.907	0.8	1.	5.	38.1
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/87-05/22/97	18	445.	427.722	498.	331.	2453.624	49.534	346.3	386.25	468.25	483.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/21/87-05/22/97	19	424.	419.579	472.	355.	1997.368	44.692	366.	377.	468.	471.
00300	OXYGEN, DISSOLVED MG/L	06/11/87-05/22/97	17	8.5	8.776	10.9	7.3	1.349	1.162	7.46	7.75	9.7	10.66
00335	COD, .025N K2CR2O7 MG/L	05/21/87-09/06/90	4 ##	7.	9.25	16.	7.	20.25	4.5	**	**	**	**
00400	PH (STANDARD UNITS)	06/11/87-05/22/97	19	8.4	8.336	8.72	7.4	0.106	0.326	7.79	8.24	8.51	8.7
00400	CONVERTED PH (STANDARD UNITS)	06/11/87-05/22/97	19	8.4	8.175	8.72	7.4	0.133	0.365	7.79	8.24	8.51	8.7
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/11/87-05/22/97	19	0.004	0.007	0.04	0.002	0.	0.009	0.002	0.003	0.006	0.016
00403	PH, LAB, STANDARD UNITS SU	05/21/87-05/22/97	19	8.4	8.347	8.7	7.9	0.049	0.222	8.	8.2	8.5	8.7
00403	CONVERTED PH, LAB, STANDARD UNITS	05/21/87-05/22/97	19	8.4	8.292	8.7	7.9	0.053	0.229	8.	8.2	8.5	8.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/21/87-05/22/97	19	0.004	0.005	0.013	0.002	0.	0.003	0.002	0.003	0.006	0.01
00405	CARBON DIOXIDE (MG/L AS CO2)	05/21/87-05/22/97	19	2.	2.263	6.	1.	1.649	1.284	1.	1.	3.	4.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/21/87-05/22/97	19	243.	232.158	261.	187.	536.585	23.164	198.	210.	249.	261.
00440	BICARBONATE ION (MG/L AS HCO3)	05/21/87-05/22/97	19	296.	282.684	318.	228.	804.117	28.357	242.	256.	304.	318.
00445	CARBONATE ION (MG/L AS CO3)	05/21/87-05/22/97	19	0.	0.211	4.	0.	0.842	0.918	0.	0.	0.	0.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/21/87-05/22/97	20	4.	12.875	90.	1.5	533.813	23.104	1.5	2.	11.	60.1
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/21/87-05/22/97	19 ##	0.025	0.027	0.057	0.025	0.	0.007	0.025	0.025	0.025	0.025
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/17/88-08/17/88	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/21/87-09/06/90	5 ##	0.005	0.006	0.01	0.005	0.	0.002	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/17/88-08/17/88	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/21/87-09/06/90	5 ##	0.005	0.017	0.05	0.005	0.	0.02	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/21/87-09/06/90	6	0.1	0.217	0.7	0.05	0.065	0.254	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/11/93-05/11/93	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/04/96-05/22/97	13 ##	0.01	0.064	0.6	0.01	0.026	0.162	0.01	0.01	0.04	0.384
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/87-05/22/97	19	0.01	0.017	0.106	0.003	0.001	0.025	0.003	0.005	0.02	0.05
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/04/96-12/11/96	10 ##	0.005	0.008	0.02	0.005	0.	0.005	0.005	0.005	0.011	0.019
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/17/88-08/17/88	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/21/87-09/06/90	4	1.95	1.75	2.7	0.4	0.977	0.988	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/21/87-05/22/97	19	237.	235.579	265.	189.	591.368	24.318	207.	213.	258.	264.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/21/87-05/22/97	19	43.	42.258	58.6	28.2	99.519	9.976	28.6	34.	53.	57.3
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/21/87-05/22/97	19	33.	31.632	36.	21.4	11.906	3.45	27.	29.7	33.5	35.
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/21/87-05/22/97	19	2.	2.089	4.65	1.5	0.435	0.66	1.7	1.8	2.	2.4
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/21/87-05/22/97	19 ##	0.5	0.574	1.41	0.5	0.054	0.233	0.5	0.5	0.5	1.
00941	CHLORIDE, DISSOLVED IN WATER MG/L	05/21/87-05/22/97	19 ##	0.5	1.382	4.	0.25	2.044	1.43	0.25	0.25	2.	4.
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/21/87-05/22/97	19 ##	5.	5.068	7.3	4.	0.456	0.675	4.	5.	5.	6.

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

Parameter Inventory for Station: BRCA0066

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/22/96-04/24/97	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	05/21/87-05/21/87	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/22/96-04/24/97	3	270.	280.	310.	260.	700.	26.458	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	05/21/87-08/17/88	2	305.	305.	310.	300.	50.	7.071	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/22/96-04/24/97	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	05/21/87-05/21/87	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/22/96-04/24/97	3 ##	2.5	3.333	5.	2.5	2.083	1.443	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/21/87-05/21/87	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/22/96-04/24/97	3 ##	6.	6.	6.	6.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	05/21/87-08/17/88	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/11/87-04/24/97	6 ##	10.	15.333	27.	10.	68.667	8.287	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/22/96-04/24/97	3 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	05/21/87-05/21/87	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	05/21/87-08/17/88	2 ##	12.25	12.25	22.	2.5	190.125	13.789	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/22/96-04/24/97	3 ##	2.5	6.333	14.	2.5	44.083	6.64	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/22/96-04/24/97	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	05/21/87-05/21/87	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/22/96-04/24/97	3 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	05/21/87-08/17/88	2 ##	8.75	8.75	10.	7.5	3.125	1.768	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/22/96-04/24/97	3 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/22/96-04/24/97	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	05/21/87-05/21/87	1 ##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/21/87-05/22/97	19	234.	227.263	262.	184.	684.538	26.164	184.	200.	250.	262.
71830	HYDROXIDE ION (MG/L AS OH)	05/21/87-05/22/97	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/21/87-09/06/90	5 ##	0.003	0.005	0.009	0.003	0.	0.003	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/22/96-04/24/97	3 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	05/21/87-05/21/87	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	05/21/87-08/17/88	4	0.11	0.118	0.21	0.04	0.007	0.081	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: BRCA0066

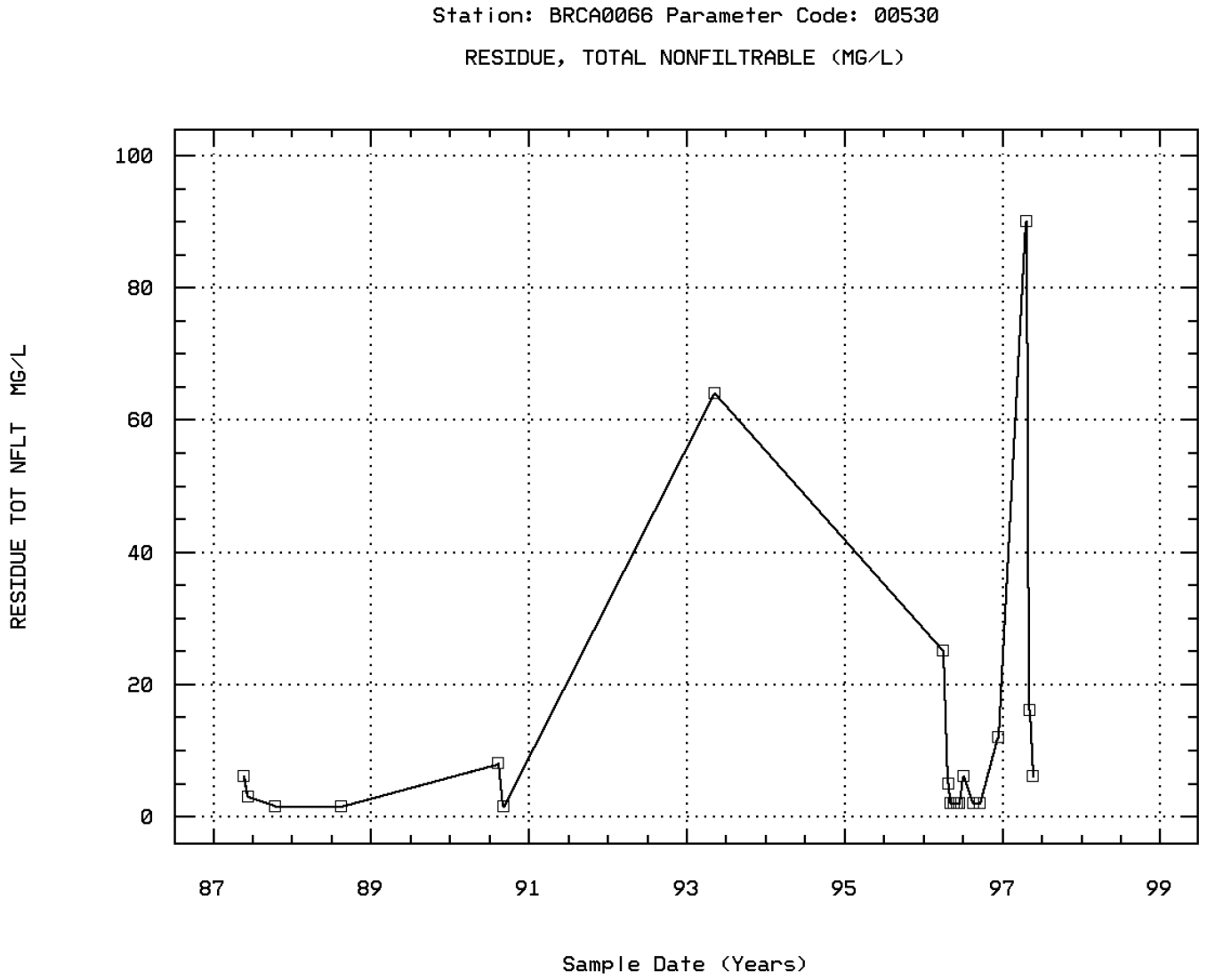
Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	19	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	17	0	0.00	6	0	0.00	5	0	0.00	6	0	0.00			
00400	PH	Fresh Chronic	9.	19	0	0.00	7	0	0.00	5	0	0.00	7	0	0.00			
		Other-Lo Lim.	6.5	19	0	0.00	7	0	0.00	5	0	0.00	7	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	19	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00			
		Other-Lo Lim.	6.5	19	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	5	0	0.00	3	0	0.00				2	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	5	0	0.00	3	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			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	13	0	0.00	3	0	0.00	5	0	0.00	5	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	19	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00			
		Drinking Water	250.	19	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	19	0	0.00	6	0	0.00	5	0	0.00	8	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	50.	3	0	0.00				1	0	0.00	2	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	3	0	0.00				1	0	0.00	2	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	1	0	0.00				1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	5.	3	0	0.00				1	0	0.00	2	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			

& - 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: BRCA0066

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00				1	0	0.00	2	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	1300.	3	0	0.00				1	0	0.00	2	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	1300.	2	0	0.00	1	0	0.00				1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	15.	3	0	0.00				1	0	0.00	2	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	100.	3	0	0.00				1	0	0.00	2	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.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	5000.	3	0	0.00				1	0	0.00	2	0	0.00			
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			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	50.	3	0	0.00				1	0	0.00	2	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	2.	3	0	0.00				1	0	0.00	2	0	0.00			
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



EAST FK SEVIER R AT USGS10183900 AB TRO

Station Inventory for Station: BRCA0067

NPS Station ID: BRCA0067 | LAT/LON: 37.576337/-112.150338 | Agency: 11NPSWRD | Date Created: 11/21/98
Location: SECOND YELLOW CREEK WASH SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_USGS_SYCW
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SECOND YELLOW CREEK WASH SPRING IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE 1963 UNITED STATES GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1475-M "GROUND-WATER RESOURCES OF THE BRYCE CANYON NATIONAL AREA; UTAH" BY I. WENDELL MARINE IN COOPERATION WITH THE NATIONAL PARK SERVICE. THE OBJECTIVES OF THE REPORT WERE "TO DETERMINE THE QUANTITY; QUALITY; AND DEPENDABILITY OF ALL POSSIBLE SOURCES OF WATER SUPPLY FOR THE PARK." THE LATITUDE AND LONGITUDE FOR EACH STATION WERE DETERMINED BY DIGITIZING OFF OF PLATE 24 WHICH IS INCLUDED IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0067

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	06/20/58-06/20/58	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/14/57-10/14/57	1	1020.	1020.	1020.	1020.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/14/57-10/14/57	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/14/57-10/14/57	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/14/57-10/14/57	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/14/57-10/14/57	1	352.	352.	352.	352.	0.	0.	**	**	**	**
00901	HARDNESS, CARBONATE (MG/L AS CACO3)	10/14/57-10/14/57	1	526.	526.	526.	526.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/14/57-10/14/57	1	237.	237.	237.	237.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/14/57-10/14/57	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/14/57-10/14/57	1	71.	71.	71.	71.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	10/14/57-10/14/57	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/14/57-10/14/57	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/14/57-10/14/57	1	293.	293.	293.	293.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/14/57-10/14/57	1	15.	15.	15.	15.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/14/57-10/14/57	1	692.	692.	692.	692.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/14/57-10/14/57	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: BRCA0067

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
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: BRCA0068

NPS Station ID: BRCA0068 LAT/LON: 37.577309/-112.210976 Agency: 11NPSWRD Date Created: 10/17/98
Location: SWAMP CANYON BELOW WHITEMAN CONNECTING TRAIL FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): BRCA_NPS_SWAMP
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 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: 14070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT SWAMP CANYON BELOW WHITEMAN CONNECTING TRAIL AND IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE TAKEN BELOW THE CAMPSITE WHERE THE STREAM CROSSES THE UNDER-THE-RIM TRAIL. DATA ARE FROM "A WATER QUALITY SURVEY OF THE BACK-COUNTRY IN BRYCE CANYON NATIONAL PARK" BY R. STEVEN NAKASHIMA (AN ENVIRONMENTAL HEALTH SPECIALIST); A PARK VOLUNTEER IN THE SUMMER OF 1981. THE STUDY OBJECTIVE WAS TO "DETERMINE THE BACTERIAL QUALITY OF MAJOR BACK-COUNTRY WATER SOURCES." FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717-0001 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0068

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/81-08/18/81	1	53.	53.	53.	53.	0.	0.	**	**	**	**
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/24/81-08/18/81	3	1500.	1443.333	2400.	430.	972633.333	986.222	**	**	**	**
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/24/81-08/18/81	3	3.176	3.063	3.38	2.633	0.149	0.386	**	**	**	**
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			1156.797								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/24/81-08/18/81	3 ##	11.5	8.167	11.5	1.5	33.333	5.774	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/24/81-08/18/81	3 ##	1.061	0.766	1.061	0.176	0.261	0.511	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			5.832								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/24/81-08/18/81	3	9.	8.	11.	4.	13.	3.606	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/24/81-08/18/81	3	0.954	0.866	1.041	0.602	0.054	0.233	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			7.343								

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: BRCA0068

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------7/10-2/19---------- Obs	Exceed	Prop.	----------2/20-5/09---------- Obs	Exceed	Prop.	----------5/10-7/09---------- Obs	Exceed	Prop.	--------------n/a-------------- Obs	Exceed	Prop.
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	3	2	0.67	2	2	1.00				1	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	3	0	0.00	2	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0069

NPS Station ID: BRCA0069 LAT/LON: 37.578142/-112.140504 Agency: 11NPSWRD Date Created: 12/05/98
Location: SPRING AT RIGHT FORK #2 OF YELLOW CREEK FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_UU_36
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 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: 14070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING AT RIGHT FORK #2 OF YELLOW CREEK IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0069

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/68-08/18/68	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

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

Station Inventory for Station: BRCA0070

NPS Station ID: BRCA0070 | LAT/LON: 37.581476/-112.198004 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: SHEEP CREEK SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_006
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 7440 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SHEEP CREEK SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/18/96-06/18/96	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/18/96-06/18/96	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	06/18/96-06/18/96	1	55.	55.	55.	55.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/18/96-06/18/96	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/18/96-06/18/96	1	1180.	1180.	1180.	1180.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/18/96-06/18/96	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/18/96-06/18/96	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/18/96-06/18/96	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/18/96-06/18/96	1	7.81	7.81	7.81	7.81	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/18/96-06/18/96	1	7.81	7.81	7.81	7.81	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/18/96-06/18/96	1	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	06/18/96-06/18/96	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/18/96-06/18/96	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/18/96-06/18/96	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/18/96-06/18/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/18/96-06/18/96	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/18/96-06/18/96	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/18/96-06/18/96	1	178.	178.	178.	178.	0.	0.	**	**	**	**
00953	FLUORINE,TOTAL UG/L	06/18/96-06/18/96	1	450.	450.	450.	450.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	06/18/96-06/18/96	1	600.	600.	600.	600.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/18/96-06/18/96	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/18/96-06/18/96	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: BRCA0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/18/96-06/18/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	06/18/96-06/18/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/18/96-06/18/96	1	1970.	1970.	1970.	1970.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/18/96-06/18/96	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/18/96-06/18/96	1	500.	500.	500.	500.	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	06/18/96-06/18/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/18/96-06/18/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/18/96-06/18/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/18/96-06/18/96	1	81.	81.	81.	81.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	06/18/96-06/18/96	1	2.	2.	2.	2.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	06/18/96-06/18/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	06/18/96-06/18/96	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	06/18/96-06/18/96	1	767.	767.	767.	767.	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/18/96-06/18/96	1	715.	715.	715.	715.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/18/96-06/18/96	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	06/18/96-06/18/96	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
71865	IODIDE (MG/L AS I)	06/18/96-06/18/96	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	06/18/96-06/18/96	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/18/96-06/18/96	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	06/18/96-06/18/96	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	06/18/96-06/18/96	1	67.2	67.2	67.2	67.2	0.	0.	**	**	**	**
82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	06/18/96-06/18/96	1	7.8	7.8	7.8	7.8	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: BRCA0070

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00406	PH, FIELD	Fresh Chronic	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			
00953	FLUORINE, TOTAL	Drinking Water	4000.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00							1	1	1.00			
		Drinking Water	5.	1	1	1.00							1	1	1.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	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	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00							1	0	0.00			
71855	NITRITE NITROGEN, TOTAL (AS NO2)	Drinking Water	3.3	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	1	1.00							1	1	1.00			
		Drinking Water	2.	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: BRCA0071

NPS Station ID: BRCA0071
LAT/LON: 37.582226/-112.226392
Agency: 112WRD
Date Created: 06/20/87
Location: (C-37- 4)16DCB-S1
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 373456112133501
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0071

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/81-10/22/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/22/81-10/22/81	1	0.86	0.86	0.86	0.86	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/22/81-10/22/81	1	455.	455.	455.	455.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/22/81-10/22/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/22/81-10/22/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/22/81-10/22/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/22/81-10/22/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/22/81-10/22/81	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/22/81-10/22/81	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/22/81-10/22/81	1 ##	0.045	0.045	0.045	0.045	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/22/81-10/22/81	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/22/81-10/22/81	1	54.	54.	54.	54.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/22/81-10/22/81	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/22/81-10/22/81	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/22/81-10/22/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/22/81-10/22/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/22/81-10/22/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/22/81-10/22/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/22/81-10/22/81	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/22/81-10/22/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/22/81-10/22/81	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/22/81-10/22/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/22/81-10/22/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/22/81-10/22/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/22/81-10/22/81	1	243.	243.	243.	243.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0071

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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	Fresh Chronic	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: BRCA0071

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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: BRCA0072

NPS Station ID: BRCA0072 | LAT/LON: 37.582448/-112.226310 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: TROUGH SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_011
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 8350 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 16030002 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. TROUGH SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0072

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/01/96-07/01/96	1	25.	25.	25.	25.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/01/96-07/01/96	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

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

Station Inventory for Station: BRCA0073

NPS Station ID: BRCA0073 | LAT/LON: 37.584171/-112.160004 | Agency: 11NPSWRD | Date Created: 10/17/98
Location: YELLOW CREEK AT THE TRAIL CROSSING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): BRCA_NPS_YELL
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT YELLOW CREEK AT THE TRAIL CROSSING AND IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. DATA ARE FROM "A WATER QUALITY SURVEY OF THE BACK-COUNTRY IN BRYCE CANYON NATIONAL PARK" BY R. STEVEN NAKASHIMA (AN ENVIRONMENTAL HEALTH SPECIALIST); A PARK VOLUNTEER IN THE SUMMER OF 1981. THE STUDY OBJECTIVE WAS TO "DETERMINE THE BACTERIAL QUALITY OF MAJOR BACK-COUNTRY WATER SOURCES." FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717-0001 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0073

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/81-08/18/81	1	52.	52.	52.	52.	0.	0.	**	**	**	**
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/23/81-08/18/81	4	150.	2410.75	9300.	43.	21096662.25	4593.11	**	**	**	**
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/23/81-08/18/81	4	2.176	2.489	3.968	1.633	1.039	1.019	**	**	**	**
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			307.988								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-08/18/81	4 ##	11.5	13.75	23.	9.	39.417	6.278	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-08/18/81	4 ##	1.061	1.109	1.362	0.954	0.031	0.176	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			12.863								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-08/18/81	4	23.5	46.5	137.	2.	3847.	62.024	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-08/18/81	4	1.299	1.259	2.137	0.301	0.608	0.78	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			18.149								

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

EPA Water Quality Criteria Analysis for Station: BRCA0073

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	4	1	0.25	2	0	0.00				2	1	0.50			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	4	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: BRCA0074

NPS Station ID: BRCA0074 | LAT/LON: 37.585198/-112.254809 | Agency: 11NPSWRD | Date Created: 08/15/98
Location: CDBG506R | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_NURE_34 /5075782
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: GREAT BASIN | Elevation: 0 | Water Body Id:
Minor Basin: SEVIER RIVER | ECO Region:
RF1 Index: 16030002 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC RESERVOIR UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0074

Parameter		Period of Record	Obs		Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/80-07/22/80	1		7.	7.	7.	7.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/22/80-07/22/80	1		440.	440.	440.	440.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/22/80-07/22/80	1		7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/22/80-07/22/80	1		7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/80-07/22/80	1		0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/22/80-07/22/80	1		250.	250.	250.	250.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/22/80-07/22/80	1		10.81	10.81	10.81	10.81	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/22/80-07/22/80	1		3.	3.	3.	3.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/22/80-07/22/80	1	##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/22/80-07/22/80	1		0.653	0.653	0.653	0.653	0.	0.	**	**	**	**
82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/22/80-07/22/80	1		6200.	6200.	6200.	6200.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0074

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0075

NPS Station ID: BRCA0075
LAT/LON: 37.585503/-112.065310
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDBH511R
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BRCA_NURE_18 /5075797
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 14070007
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 14070007
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE CANNONVILLE UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0075

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/14/80-07/14/80	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/14/80-07/14/80	1	7500.	7500.	7500.	7500.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/14/80-07/14/80	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/14/80-07/14/80	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/80-07/14/80	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/80-07/14/80	1	430.	430.	430.	430.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/14/80-07/14/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/14/80-07/14/80	1	32.3	32.3	32.3	32.3	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	1049.	1049.	1049.	1049.	0.	0.	**	**	**	**
50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/14/80-07/14/80	1	740.8	740.8	740.8	740.8	0.	0.	**	**	**	**
82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/14/80-07/14/80	1	6100.	6100.	6100.	6100.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0075

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	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: BRCA0076

NPS Station ID: BRCA0076
Location: (C-37- 4)17CBC-S1
Station Type: /TYPA/AMBNT/SPRING
RMI-Indexes:
RMI-Miles:
HUC: 16030001
Major Basin:
Minor Basin:
RF1 Index: 16030001
RF3 Index:
Description:

LAT/LON: 37.585559/-112.254726
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 0.00

Agency: 112WRD
FIPS State/County: 49017 UTAH/GARFIELD
STORET Station ID(s): 373508112151701
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.00

Date Created: 06/20/87
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BRCA0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/81-05/23/82	2	6.75	6.75	7.	6.5	0.125	0.354	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	07/24/81-05/23/82	2	44.	44.	60.	28.	512.	22.627	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/81-05/23/82	2	455.	455.	475.	435.	800.	28.284	**	**	**	**
00400	PH (STANDARD UNITS)	07/24/81-05/23/82	2	7.55	7.55	7.6	7.5	0.005	0.071	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/24/81-05/23/82	2	7.547	7.547	7.6	7.5	0.005	0.071	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/24/81-05/23/82	2	0.028	0.028	0.032	0.025	0.	0.005	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/24/81-05/23/82	2	8.05	8.05	8.3	7.8	0.125	0.354	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/24/81-05/23/82	2	7.982	7.982	8.3	7.8	0.134	0.367	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/24/81-05/23/82	2	0.01	0.01	0.016	0.005	0.	0.008	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/23/82-05/23/82	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/24/81-05/23/82	2	0.095	0.095	0.1	0.09	0.	0.007	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/24/81-05/23/82	2	255.	255.	260.	250.	50.	7.071	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/23/82-05/23/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/24/81-05/23/82	2	44.5	44.5	45.	44.	0.5	0.707	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/24/81-05/23/82	2	36.	36.	37.	35.	2.	1.414	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/24/81-05/23/82	2	3.3	3.3	3.4	3.2	0.02	0.141	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/24/81-05/23/82	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	07/24/81-05/23/82	2	3.	3.	3.	3.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/24/81-05/23/82	2	0.65	0.65	0.7	0.6	0.005	0.071	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/24/81-05/23/82	2	5.5	5.5	7.	4.	4.5	2.121	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/24/81-05/23/82	2 ##	3.75	3.75	5.	2.5	3.125	1.768	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/24/81-05/23/82	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/24/81-05/23/82	2	7.	7.	7.1	6.9	0.02	0.141	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	07/24/81-07/24/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/24/81-05/23/82	2	16.	16.	21.	11.	50.	7.071	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/24/81-05/23/82	2 ##	2.75	2.75	4.	1.5	3.125	1.768	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/24/81-05/23/82	2	141.5	141.5	255.	28.	25764.5	160.513	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0076

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: BRCA0076

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0077

NPS Station ID: BRCA0077 | LAT/LON: 37.586115/-112.212448 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: SWAMP SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_005
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 7941 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 16030002 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SWAMP SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0077

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/18/96-06/18/96	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/18/96-06/18/96	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	06/18/96-06/18/96	1	55.	55.	55.	55.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/18/96-06/18/96	1	480.	480.	480.	480.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/18/96-06/18/96	1	530.	530.	530.	530.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/18/96-06/18/96	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/18/96-06/18/96	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/18/96-06/18/96	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/18/96-06/18/96	1	7.63	7.63	7.63	7.63	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/18/96-06/18/96	1	7.63	7.63	7.63	7.63	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/18/96-06/18/96	1	0.023	0.023	0.023	0.023	0.	0.	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	06/18/96-06/18/96	1	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/18/96-06/18/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/18/96-06/18/96	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/18/96-06/18/96	1	9.5	9.5	9.5	9.5	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/18/96-06/18/96	1	4.5	4.5	4.5	4.5	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/18/96-06/18/96	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/18/96-06/18/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00953	FLUORINE,TOTAL UG/L	06/18/96-06/18/96	1	200.	200.	200.	200.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	06/18/96-06/18/96	1	900.	900.	900.	900.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/18/96-06/18/96	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/18/96-06/18/96	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: BRCA0077

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/18/96-06/18/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	06/18/96-06/18/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/18/96-06/18/96	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/18/96-06/18/96	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/18/96-06/18/96	1	500.	500.	500.	500.	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	06/18/96-06/18/96	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/18/96-06/18/96	1	400.	400.	400.	400.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/18/96-06/18/96	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/18/96-06/18/96	1	96.	96.	96.	96.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	06/18/96-06/18/96	1	4.	4.	4.	4.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	06/18/96-06/18/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	06/18/96-06/18/96	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
46123	IRON, FERROUS, AS FE MG/L	06/18/96-06/18/96	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	06/18/96-06/18/96	1	345.	345.	345.	345.	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/18/96-06/18/96	1	312.	312.	312.	312.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/18/96-06/18/96	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	06/18/96-06/18/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
71865	IODIDE (MG/L AS I)	06/18/96-06/18/96	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	06/18/96-06/18/96	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/18/96-06/18/96	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	06/18/96-06/18/96	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	06/18/96-06/18/96	1	14.4	14.4	14.4	14.4	0.	0.	**	**	**	**
82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	06/18/96-06/18/96	1	7.8	7.8	7.8	7.8	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: BRCA0077

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00406	PH, FIELD	Fresh Chronic	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			
00953	FLUORINE, TOTAL	Drinking Water	4000.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00							1	1	1.00			
		Drinking Water	5.	1	1	1.00							1	1	1.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	1	1.00							1	1	1.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	1	1.00							1	1	1.00			
		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			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00							1	0	0.00			
71855	NITRITE NITROGEN, TOTAL (AS NO2)	Drinking Water	3.3	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: BRCA0078

NPS Station ID: BRCA0078 LAT/LON: 37.586670/-112.225837 Agency: 11NPSWRD Date Created: 10/17/98
Location: SHAKER SPRING-SCA CAMP WHITEMAN BENCH FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_NPS_SS
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: GREAT BASIN Elevation: 0 Water Body Id:
Minor Basin: SEVIER RIVER ECO Region:
RF1 Index: 16030002 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SHAKER SPRING IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY NEAR THE STUDENT CONSERVATION ASSOCIATION (SCA) CAMP AT WHITEMAN BENCH. THE SPRING WAS REDEVELOPED BY THE SCA GROUP IN AUGUST 1981. DATA ARE FROM "A WATER QUALITY SURVEY OF THE BACK-COUNTRY IN BRYCE CANYON NATIONAL PARK" BY R. STEVEN NAKASHIMA (AN ENVIRONMENTAL HEALTH SPECIALIST); A PARK VOLUNTEER IN THE SUMMER OF 1981. THE STUDY OBJECTIVE WAS TO "DETERMINE THE BACTERIAL QUALITY OF MAJOR BACK-COUNTRY WATER SOURCES." FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717-0001 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	08/04/81-08/04/81	1 ##	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	08/04/81-08/04/81	1 ##	1.061	1.061	1.061	1.061	0.	0.	**	**	**	**
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			11.5								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	08/04/81-08/04/81	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	08/04/81-08/04/81	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			1.								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/04/81-08/04/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/04/81-08/04/81	1	0.477	0.477	0.477	0.477	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			3.								

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

EPA Water Quality Criteria Analysis for Station: BRCA0078

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0079

NPS Station ID: BRCA0079 | LAT/LON: 37.587781/-112.147227 | Agency: 11NPSWRD | Date Created: 10/17/98
Location: RIGHT FORK YELLOW CREEK CAMPSITE | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): BRCA_NPS_RFYC
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT RIGHT FORK YELLOW CREEK CAMPSITE AND IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. DATA ARE FROM "A WATER QUALITY SURVEY OF THE BACK-COUNTRY IN BRYCE CANYON NATIONAL PARK" BY R. STEVEN NAKASHIMA (AN ENVIRONMENTAL HEALTH SPECIALIST); A PARK VOLUNTEER IN THE SUMMER OF 1981. THE AREA APPEARS TO HAVE HIGH CAMPER USE. THE STUDY OBJECTIVE WAS TO "DETERMINE THE BACTERIAL QUALITY OF MAJOR BACK-COUNTRY WATER SOURCES." FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717-0001 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0079

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/18/81-08/18/81	1	53.	53.	53.	53.	0.	0.	**	**	**	**
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/23/81-08/18/81	5	930.	969.9	2400.	8.	1042891.55	1021.221	**	**	**	**
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/23/81-08/18/81	5	2.968	2.298	3.38	0.903	1.467	1.211	**	**	**	**
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			198.479								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-08/18/81	4	33.	35.5	75.	1.	987.667	31.427	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/23/81-08/18/81	4	1.498	1.218	1.875	0.	0.703	0.838	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			16.503								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-08/18/81	5	20.	61.4	158.	5.	4569.3	67.597	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/23/81-08/18/81	5	1.301	1.492	2.199	0.699	0.38	0.617	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			31.024								

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

EPA Water Quality Criteria Analysis for Station: BRCA0079

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	5	2	0.40	3	0	0.00				2	2	1.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	4	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: BRCA0080

NPS Station ID: BRCA0080 | LAT/LON: 37.587810/-112.150753 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: RIGHT FORK YELLOW CREEK SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_010
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 6831 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. RIGHT FORK YELLOW CREEK SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/28/96-06/28/96	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/28/96-06/28/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	06/28/96-06/28/96	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/28/96-06/28/96	1	650.	650.	650.	650.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/28/96-06/28/96	1	690.	690.	690.	690.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/28/96-06/28/96	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/28/96-06/28/96	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/28/96-06/28/96	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/28/96-06/28/96	1	7.79	7.79	7.79	7.79	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/28/96-06/28/96	1	7.79	7.79	7.79	7.79	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/28/96-06/28/96	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	06/28/96-06/28/96	1	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/28/96-06/28/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/28/96-06/28/96	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/28/96-06/28/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/28/96-06/28/96	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/28/96-06/28/96	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/28/96-06/28/96	1	116.	116.	116.	116.	0.	0.	**	**	**	**
00953	FLUORINE,TOTAL UG/L	06/28/96-06/28/96	1	420.	420.	420.	420.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	06/28/96-06/28/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/28/96-06/28/96	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/28/96-06/28/96	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: BRCA0080

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/28/96-06/28/96	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	06/28/96-06/28/96	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/28/96-06/28/96	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/28/96-06/28/96	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/28/96-06/28/96	1	500.	500.	500.	500.	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	06/28/96-06/28/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/28/96-06/28/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/28/96-06/28/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/28/96-06/28/96	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	06/28/96-06/28/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	06/28/96-06/28/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	06/28/96-06/28/96	1	2.	2.	2.	2.	0.	0.	**	**	**	**
46123	IRON, FERROUS, AS FE MG/L	06/28/96-06/28/96	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	06/28/96-06/28/96	1	449.	449.	449.	449.	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/28/96-06/28/96	1	423.	423.	423.	423.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/28/96-06/28/96	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	06/28/96-06/28/96	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
71865	IODIDE (MG/L AS I)	06/28/96-06/28/96	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	06/28/96-06/28/96	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/28/96-06/28/96	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	06/28/96-06/28/96	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	06/28/96-06/28/96	1	28.2	28.2	28.2	28.2	0.	0.	**	**	**	**
82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	06/28/96-06/28/96	1	9.	9.	9.	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: BRCA0080

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00406	PH, FIELD	Fresh Chronic	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			
00953	FLUORINE, TOTAL	Drinking Water	4000.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00							1	1	1.00			
		Drinking Water	5.	1	1	1.00							1	1	1.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00							1	0	0.00			
71855	NITRITE NITROGEN, TOTAL (AS NO2)	Drinking Water	3.3	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	1	1.00							1	1	1.00			
		Drinking Water	2.	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: BRCA0081

NPS Station ID: BRCA0081 | LAT/LON: 37.588588/-112.162782 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: YELLOW CREEK SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_009
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 6978 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. YELLOW CREEK SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/28/96-06/28/96	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/28/96-06/28/96	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	06/28/96-06/28/96	1	45.	45.	45.	45.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/28/96-06/28/96	1	680.	680.	680.	680.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/28/96-06/28/96	1	710.	710.	710.	710.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/28/96-06/28/96	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/28/96-06/28/96	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/28/96-06/28/96	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/28/96-06/28/96	1	8.45	8.45	8.45	8.45	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/28/96-06/28/96	1	8.45	8.45	8.45	8.45	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/28/96-06/28/96	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	06/28/96-06/28/96	1	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	06/28/96-06/28/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/28/96-06/28/96	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	06/28/96-06/28/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	06/28/96-06/28/96	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/28/96-06/28/96	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	06/28/96-06/28/96	1	97.	97.	97.	97.	0.	0.	**	**	**	**
00953	FLUORINE,TOTAL UG/L	06/28/96-06/28/96	1	410.	410.	410.	410.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	06/28/96-06/28/96	1	900.	900.	900.	900.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/28/96-06/28/96	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/28/96-06/28/96	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: BRCA0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/28/96-06/28/96	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	06/28/96-06/28/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/28/96-06/28/96	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/28/96-06/28/96	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/28/96-06/28/96	1	400.	400.	400.	400.	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	06/28/96-06/28/96	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/28/96-06/28/96	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/28/96-06/28/96	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/28/96-06/28/96	1	95.	95.	95.	95.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	06/28/96-06/28/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	06/28/96-06/28/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	06/28/96-06/28/96	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
46123	IRON, FERROUS, AS FE MG/L	06/28/96-06/28/96	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	06/28/96-06/28/96	1	462.	462.	462.	462.	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/28/96-06/28/96	1	442.	442.	442.	442.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	06/28/96-06/28/96	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	06/28/96-06/28/96	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
71865	IODIDE (MG/L AS I)	06/28/96-06/28/96	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	06/28/96-06/28/96	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/28/96-06/28/96	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	06/28/96-06/28/96	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	06/28/96-06/28/96	1	148.2	148.2	148.2	148.2	0.	0.	**	**	**	**
82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	06/28/96-06/28/96	1	10.7	10.7	10.7	10.7	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: BRCA0081

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00406	PH, FIELD	Fresh Chronic	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			
00953	FLUORINE, TOTAL	Drinking Water	4000.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00							1	1	1.00			
		Drinking Water	5.	1	1	1.00							1	1	1.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	1	1.00							1	1	1.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	1	1.00							1	1	1.00			
		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			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00							1	0	0.00			
71855	NITRITE NITROGEN, TOTAL (AS NO2)	Drinking Water	3.3	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	1	1.00							1	1	1.00			
		Drinking Water	2.	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: BRCA0082

NPS Station ID: BRCA0082 | LAT/LON: 37.588643/-112.162838 | Agency: 11NPSWRD | Date Created: 11/21/98
Location: YELLOW CREEK SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_USGS_YCS
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. YELLOW CREEK SPRING IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE 1963 UNITED STATES GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1475-M "GROUND-WATER RESOURCES OF THE BRYCE CANYON NATIONAL AREA; UTAH" BY I. WENDELL MARINE IN COOPERATION WITH THE NATIONAL PARK SERVICE. THE OBJECTIVES OF THE REPORT WERE "TO DETERMINE THE QUANTITY; QUALITY; AND DEPENDABILITY OF ALL POSSIBLE SOURCES OF WATER SUPPLY FOR THE PARK." THE LATITUDE AND LONGITUDE FOR EACH STATION WERE DETERMINED BY DIGITIZING OFF OF PLATE 2 WHICH IS INCLUDED IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0082

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	06/20/58-09/16/60	6	45.	43.167	49.	31.	50.167	7.083	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/21/57-06/21/57	1	698.	698.	698.	698.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/07/56-06/21/57	2	7.85	7.85	8.2	7.5	0.245	0.495	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/07/56-06/21/57	2	7.722	7.722	8.2	7.5	0.278	0.527	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/07/56-06/21/57	2	0.019	0.019	0.032	0.006	0.	0.018	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	11/07/56-06/21/57	2	310.	310.	318.	302.	128.	11.314	**	**	**	**
00901	HARDNESS, CARBONATE (MG/L AS CACO3)	11/07/56-06/21/57	2	355.	355.	394.	316.	3042.	55.154	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	06/21/57-06/21/57	1	133.	133.	133.	133.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/07/56-06/21/57	2	64.5	64.5	73.	56.	144.5	12.021	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/07/56-06/21/57	2	47.5	47.5	52.	43.	40.5	6.364	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	06/21/57-06/21/57	1	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/07/56-06/21/57	2	6.5	6.5	8.	5.	4.5	2.121	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	11/07/56-06/21/57	2	89.	89.	126.	52.	2738.	52.326	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/07/56-11/07/56	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/07/56-06/21/57	2	17.5	17.5	20.	15.	12.5	3.536	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	11/07/56-11/07/56	1	30.	30.	30.	30.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/21/57-06/21/57	1	431.	431.	431.	431.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/07/56-06/21/57	2	0.25	0.25	0.4	0.1	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: BRCA0082

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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			
00941	CHLORIDE, DISSOLVED 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			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0083

NPS Station ID: BRCA0083
LAT/LON: 37.588892/-112.146392
Agency: 112WRD
Date Created: 02/28/78
Location: (C-37- 3)18BCB-S1
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 373520112084701
RMI-Indexes:
Within Park Boundary: Yes
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/02/70-09/02/70	1	870.	870.	870.	870.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	09/02/70-09/02/70	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	09/02/70-09/02/70	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/02/70-09/02/70	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	09/02/70-09/02/70	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	09/02/70-09/02/70	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/02/70-09/02/70	1	450.	450.	450.	450.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/02/70-09/02/70	1	245.	245.	245.	245.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/02/70-09/02/70	1	65.	65.	65.	65.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/02/70-09/02/70	1	70.	70.	70.	70.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/02/70-09/02/70	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	09/02/70-09/02/70	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/02/70-09/02/70	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	09/02/70-09/02/70	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	09/02/70-09/02/70	1	279.	279.	279.	279.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/02/70-09/02/70	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/02/70-09/02/70	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	09/02/70-09/02/70	1	80.	80.	80.	80.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/02/70-09/02/70	1	598.	598.	598.	598.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/02/70-09/02/70	1	594.	594.	594.	594.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/02/70-09/02/70	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	09/02/70-09/02/70	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: BRCA0083

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: BRCA0083

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0084

NPS Station ID: BRCA0084 LAT/LON: 37.591670/-112.255282 Agency: 11EPALES Date Created: / /
Location: E FORK SEVIER RIVER FIPS State/County: 49000 UTAH/
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 4923A2
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: T/TROPIC RESERVOIR Elevation: 0 Water Body Id:
Minor Basin: DRT RD .3 MI W OF JCT WITH GRAVEL RD ECO Region:
RF1 Index: 16030002020 RF1 Mile Point: 17.820 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
SAMPLE FROM DIRT RD 0.3 MI W OF JCT W GRAVEL RD 3.8 MI N OF GARFIELD/ KANE COUNTY LINE SEC 18 T37S R4W

Parameter Inventory for Station: BRCA0084

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/74-10/11/75	7	0.01	0.023	0.1	0.003	0.001	0.035	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/09/74-11/09/74	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/09/74-11/09/74	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/74-10/11/75	7	0.2	0.357	0.75	0.05	0.08	0.283	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/74-10/11/75	7	0.005	0.029	0.1	0.005	0.001	0.037	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/74-10/11/75	7	0.01	0.021	0.09	0.005	0.001	0.031	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/09/74-10/11/75	7 ##	0.003	0.004	0.01	0.003	0.	0.003	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0084

Parameter				Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------n/a----------		
		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	7	0	0.00	5	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: BRCA0085

NPS Station ID: BRCA0085
LAT/LON: 37.591670/-112.255282
Agency: 21UTAH
Date Created: 03/07/77
Location: E FK SEVIER R ABV TROPIC RES
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 494939
RMI-Indexes: 1508001 281100
Within Park Boundary: No
RMI-Miles: 0255.00 0062.00
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER-UPPER EAST FORK OF SEVIER
ECO Region:
RF1 Index: 16030002020
RF1 Mile Point: 17.820
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0085

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/77-08/12/97	25	13.5	13.1	22.1	7.	14.181	3.766	7.6	10.15	15.55	17.92
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/13/91-08/13/91	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/23/77-08/12/97	13	10.	12.231	48.	3.	126.526	11.248	3.4	7.	12.	34.8
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	01/19/77-06/11/97	17	3.5	34.224	325.	0.8	6989.592	83.604	0.8	1.3	15.6	189.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/14/78-08/12/97	18	423.	417.944	471.	320.	1838.408	42.877	350.6	388.5	456.25	468.3
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/19/77-06/11/97	22	416.	418.545	575.	345.	3989.212	63.16	350.	360.	446.25	540.5
00300p	OXYGEN, DISSOLVED MG/L	03/23/77-08/12/97	25	8.8	9.016	11.5	6.5	1.762	1.327	7.24	8.2	9.9	11.16
00310	BOD, 5 DAY, 20 DEG C MG/L	01/19/77-08/23/78	10	1.05	1.34	2.	1.	0.194	0.44	1.	1.	1.85	2.
00335	COD, .025N K2CR2O7 MG/L	01/19/77-08/14/90	12	7.	10.167	21.	2.	52.879	7.272	2.	4.25	17.75	21.
00400p	PH (STANDARD UNITS)	03/23/77-08/12/97	25	8.4	8.408	9.7	7.9	0.125	0.353	8.1	8.15	8.55	8.74
00400p	CONVERTED PH (STANDARD UNITS)	03/23/77-08/12/97	25	8.4	8.313	9.7	7.9	0.134	0.367	8.1	8.15	8.55	8.74
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/23/77-08/12/97	25	0.004	0.005	0.013	0.	0.	0.003	0.002	0.003	0.007	0.008
00403p	PH, LAB, STANDARD UNITS SU	01/19/77-06/11/97	20	8.4	8.37	8.7	8.	0.054	0.232	8.	8.2	8.575	8.7
00403p	CONVERTED PH, LAB, STANDARD UNITS	01/19/77-06/11/97	20	8.4	8.311	8.7	8.	0.057	0.24	8.	8.2	8.575	8.7
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/19/77-06/11/97	20	0.004	0.005	0.01	0.002	0.	0.003	0.002	0.003	0.006	0.01
00405	CARBON DIOXIDE (MG/L AS CO2)	01/19/77-06/11/97	17	3.	2.471	4.	1.	1.64	1.281	1.	1.	4.	4.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/19/77-06/11/97	17	231.	239.824	325.	191.	1437.654	37.916	193.4	219.5	253.5	325.
00440	BICARBONATE ION (MG/L AS HCO3)	01/19/77-06/11/97	17	274.	284.294	396.	224.	2358.346	48.563	230.4	257.5	300.5	396.
00445	CARBONATE ION (MG/L AS CO3)	01/19/77-06/11/97	17	0.	2.353	10.	0.	11.993	3.463	0.	0.	4.5	8.4
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/19/77-08/03/81	10	22.	103.15	420.	0.	22258.669	149.193	0.	0.	250.	403.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/19/81-08/12/97	14 ##	2.	6.607	34.	1.5	90.584	9.518	1.5	1.5	7.5	27.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/19/77-08/12/97	27 ##	0.025	0.027	0.123	0.	0.001	0.03	0.	0.	0.025	0.06
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/19/77-06/14/90	12 ##	0.003	0.006	0.025	0.	0.	0.009	0.	0.	0.005	0.025
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/20/79-08/14/90	7 ##	0.005	0.011	0.025	0.005	0.	0.01	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/19/77-06/14/90	17	0.005	0.079	0.65	0.	0.025	0.159	0.	0.	0.1	0.29
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/20/79-08/14/90	7	0.02	0.124	0.65	0.005	0.055	0.235	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/19/77-06/11/97	22	0.3	0.282	1.	0.05	0.044	0.209	0.05	0.1	0.4	0.489
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/14/78-09/05/79	3	0.1	0.192	0.45	0.025	0.051	0.227	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/30/91-08/12/97	8 ##	0.01	0.013	0.02	0.01	0.	0.005	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	01/19/77-08/12/97	25	0.01	0.023	0.14	0.	0.001	0.031	0.003	0.007	0.03	0.059
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/30/91-06/11/97	7 ##	0.005	0.022	0.101	0.005	0.001	0.035	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	01/19/77-06/14/90	13	0.01	0.011	0.02	0.	0.	0.008	0.001	0.003	0.02	0.02
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/23/77-08/14/90	10	3.15	11.73	43.	0.	229.698	15.156	0.16	2.2	24.5	41.9
00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/19/77-06/11/97	17	236.	240.235	324.	194.	1359.816	36.876	200.4	213.5	251.5	324.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/19/77-06/11/97	17	43.6	43.506	66.	25.	144.501	12.021	25.8	35.	51.5	66.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/19/77-06/11/97	17	32.	31.971	39.	25.	16.015	4.002	25.8	29.	34.	39.
00930	SODIUM, DISSOLVED (MG/L AS NA)	01/19/77-06/11/97	17	2.	2.532	4.	2.	0.512	0.715	2.	2.	3.	4.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/19/77-06/11/97	15	1.	0.767	1.	0.5	0.067	0.258	0.5	0.5	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: BRCA0085

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940	CHLORIDE,TOTAL IN WATER MG/L	01/19/77-08/17/88	14	2.	2.536	6.	0.5	1.787	1.337	0.75	2.	3.	5.
00941	CHLORIDE, DISSOLVED IN WATER MG/L	06/20/79-06/11/97	6 ##	1.25	1.417	3.	0.5	0.942	0.97	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	01/19/77-06/11/97	17	10.	9.412	17.	4.	19.507	4.417	4.8	5.5	14.	16.2
00950	FLUORIDE, DISSOLVED (MG/L AS F)	01/19/77-09/05/79	10	0.19	0.189	0.24	0.15	0.001	0.031	0.15	0.158	0.22	0.238
00955	SILICA, DISSOLVED (MG/L AS SI02)	01/19/77-09/05/79	10	6.	6.8	9.	5.	1.956	1.398	5.1	6.	8.25	9.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	01/19/77-06/14/78	7	1.	1.5	3.	0.5	1.083	1.041	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/20/79-08/03/81	4 ##	0.5	0.625	1.	0.5	0.063	0.25	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	01/19/77-08/17/88	8	280.	263.75	400.	0.	16112.5	126.935	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	06/20/79-08/17/88	5 ##	0.3	61.07	280.	0.025	15094.342	122.859	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	01/19/77-09/05/79	10	72.5	81.5	120.	55.	539.167	23.22	55.5	63.75	110.	119.
01025	CADMIUM, DISSOLVED (UG/L AS CD)	01/19/77-11/16/77	6	0.	0.	0.	0.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/20/79-08/03/81	4 ##	0.5	0.875	2.	0.5	0.563	0.75	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/19/77-11/16/77	3	5.	3.333	5.	0.	8.333	2.887	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	01/19/77-09/05/79	8	1.5	1.25	2.5	0.	1.286	1.134	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/20/79-08/03/81	4 ##	2.5	4.125	10.	1.5	15.563	3.945	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	01/19/77-08/17/88	7	0.	1.429	10.	0.	14.286	3.78	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/20/79-08/17/88	5 ##	10.	9.4	17.	5.	24.3	4.93	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	01/19/77-08/17/88	11	10.	22.727	100.	0.	741.818	27.236	2.	10.	30.	86.
01049	LEAD, DISSOLVED (UG/L AS PB)	01/19/77-11/16/77	6	0.	1.667	10.	0.	16.667	4.082	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/20/79-08/03/81	4 ##	2.5	5.	12.5	2.5	25.	5.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/20/79-08/17/88	5	10.	14.5	30.	2.5	151.25	12.298	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/19/77-08/17/88	7	0.	0.357	2.5	0.	0.893	0.945	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	01/19/77-11/16/77	6	0.	0.	0.	0.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/20/79-08/03/81	4 ##	8.75	9.375	15.	5.	26.563	5.154	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	01/19/77-11/16/77	6	0.	0.	0.	0.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/20/79-08/03/81	4 ##	1.75	1.75	2.5	1.	0.75	0.866	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	01/19/77-08/17/88	8	0.	3.75	20.	0.	48.214	6.944	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/20/79-08/17/88	5	5.	8.5	20.	2.5	48.75	6.982	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	01/19/77-08/23/78	7	0.5	0.6	1.	0.	0.17	0.412	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/20/79-08/03/81	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	05/30/91-08/13/91	2	438.	438.	796.	80.	256328.	506.288	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	05/30/91-08/13/91	2	2.402	2.402	2.901	1.903	0.498	0.706	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			252.349								
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	01/19/77-09/05/79	12	230.	306.083	1500.	0.	161362.265	401.699	6.9	52.5	382.5	1179.
31506	LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	01/19/77-09/05/79	12	2.362	2.099	3.176	0.	0.664	0.815	0.409	1.69	2.57	3.013
31506	GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			125.607								
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/30/91-08/13/91	2 ##	3.5	3.5	5.	2.	4.5	2.121	**	**	**	**
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	05/30/91-08/13/91	2 ##	0.5	0.5	0.699	0.301	0.079	0.281	**	**	**	**
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			3.162								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	01/19/77-09/05/79	11	23.	114.364	930.	0.	74804.005	273.503	2.3	11.5	40.	774.
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	01/19/77-09/05/79	11	1.362	1.425	2.968	0.	0.529	0.728	0.212	1.061	1.602	2.81
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			26.617								
31672	FECAL STREPTOCOCCI,PLATE COUNT M-ENTER AGAR,35C48	05/30/91-08/13/91	2 ##	24.5	24.5	44.	5.	760.5	27.577	**	**	**	**
31672	LOG FECAL STREPTOCOCCI,PLATE COUNT M-ENTER AGAR,35	05/30/91-08/13/91	2 ##	1.171	1.171	1.643	0.699	0.446	0.668	**	**	**	**
31672	GM FECAL STREPTOCOCCI,PLATE COUNT M-ENTER AGAR,35C	GEOMETRIC MEAN =			14.832								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	01/19/77-11/16/77	6	0.	0.	0.	0.	0.	0.	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/19/77-08/12/97	28	215.	185.875	308.	1.5	9016.03	94.953	3.	192.5	248.	273.2
70324	SOLIDS, VOLATILE SUSPENDED IN MIXED LIQUOR (MG/L)	05/30/91-08/12/97	7	2.	3.429	10.	1.	9.286	3.047	**	**	**	**
71830	HYDROXIDE ION (MG/L AS OH)	01/19/77-06/11/97	17	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	06/20/79-08/14/90	4 ##	0.015	0.018	0.03	0.01	0.	0.01	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	01/19/77-08/03/81	10	0.	0.02	0.05	0.	0.001	0.026	0.	0.	0.05	0.05
74010	IRON, TOTAL (MG/L AS FE)	01/19/77-08/17/88	14	0.21	0.521	3.	0.03	0.781	0.884	0.04	0.098	0.325	2.55

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

EPA Water Quality Criteria Analysis for Station: BRCA0085

				Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------n/a----------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	17	2	0.12	8	0	0.00	2	1	0.50	7	1	0.14			

& - 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: BRCA0085

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	25	0	0.00	12	0	0.00	2	0	0.00	11	0	0.00			
00400	PH	Fresh Chronic	9.	25	1	0.04	12	1	0.08	2	0	0.00	11	0	0.00			
		Other-Lo Lim.	6.5	25	0	0.00	12	0	0.00	2	0	0.00	11	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	20	0	0.00	10	0	0.00	2	0	0.00	8	0	0.00			
		Other-Lo Lim.	6.5	20	0	0.00	10	0	0.00	2	0	0.00	8	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	12	0	0.00	6	0	0.00	2	0	0.00	4	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	7	0	0.00	4	0	0.00				3	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	17	0	0.00	9	0	0.00	2	0	0.00	6	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	7	0	0.00	4	0	0.00				3	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	1	0	0.00				2	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	8	0	0.00	4	0	0.00				4	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	14	0	0.00	8	0	0.00	2	0	0.00	4	0	0.00			
		Drinking Water	250.	14	0	0.00	8	0	0.00	2	0	0.00	4	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	6	0	0.00	2	0	0.00				4	0	0.00			
		Drinking Water	250.	6	0	0.00	2	0	0.00				4	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	17	0	0.00	8	0	0.00	2	0	0.00	7	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	10	0	0.00	5	0	0.00	2	0	0.00	3	0	0.00			
01000	ARSENIC, DISSOLVED	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			
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			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	8	0	0.00	4	0	0.00	2	0	0.00	2	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	5	0	0.00	3	0	0.00				2	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	6	0	0.00	3	0	0.00	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			
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			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	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			
01034	CHROMIUM, TOTAL	Drinking Water	100.	4	0	0.00	2	0	0.00				2	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	1300.	7	0	0.00	4	0	0.00	2	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	5	0	0.00	3	0	0.00				2	0	0.00			
		Drinking Water	1300.	5	0	0.00	3	0	0.00				2	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	15.	6	0	0.00	3	0	0.00	2	0	0.00	1	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			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	100.	6	0	0.00	3	0	0.00	2	0	0.00	1	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			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	100.	6	0	0.00	3	0	0.00	2	0	0.00	1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	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			
01090	ZINC, DISSOLVED	Fresh Acute	120.	8	0	0.00	5	0	0.00	2	0	0.00	1	0	0.00			
		Drinking Water	5000.	8	0	0.00	5	0	0.00	2	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	5	0	0.00	3	0	0.00				2	0	0.00			
		Drinking Water	5000.	5	0	0.00	3	0	0.00				2	0	0.00			
01145	SELENIUM, DISSOLVED	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			
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			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	2	0	0.00	1	0	0.00				1	0	0.00			
31506	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C	Other-Hi Lim.	1000.	12	1	0.08	6	0	0.00	2	1	0.50	4	0	0.00			
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	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

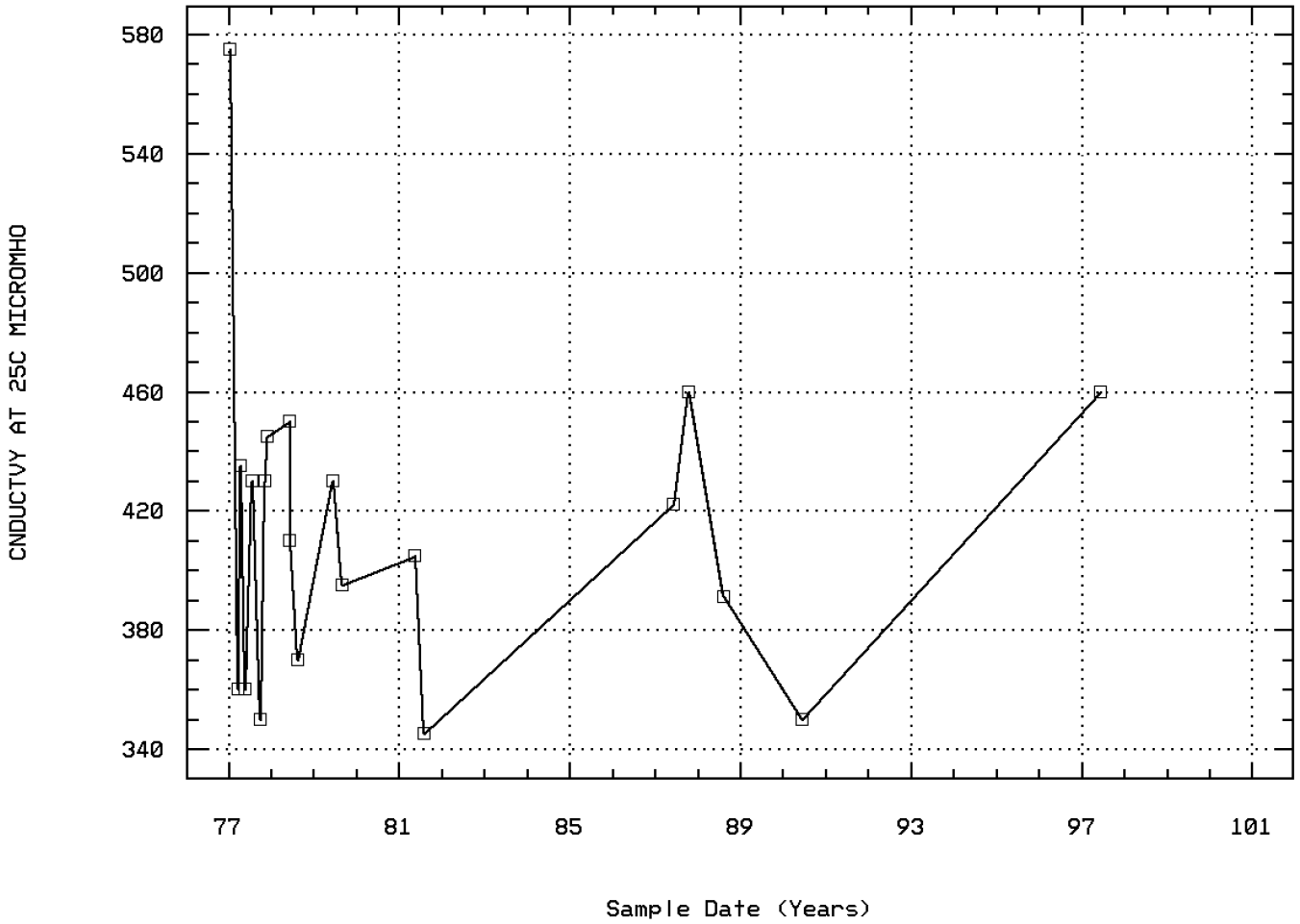
EPA Water Quality Criteria Analysis for Station: BRCA0085

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	11	1	0.09	5	1	0.20	2	0	0.00	4	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	10	0	0.00	5	0	0.00	2	0	0.00	3	0	0.00			
		Drinking Water	2.	10	0	0.00	5	0	0.00	2	0	0.00	3	0	0.00			

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

Station: BRCA0085 Parameter Code: 00095

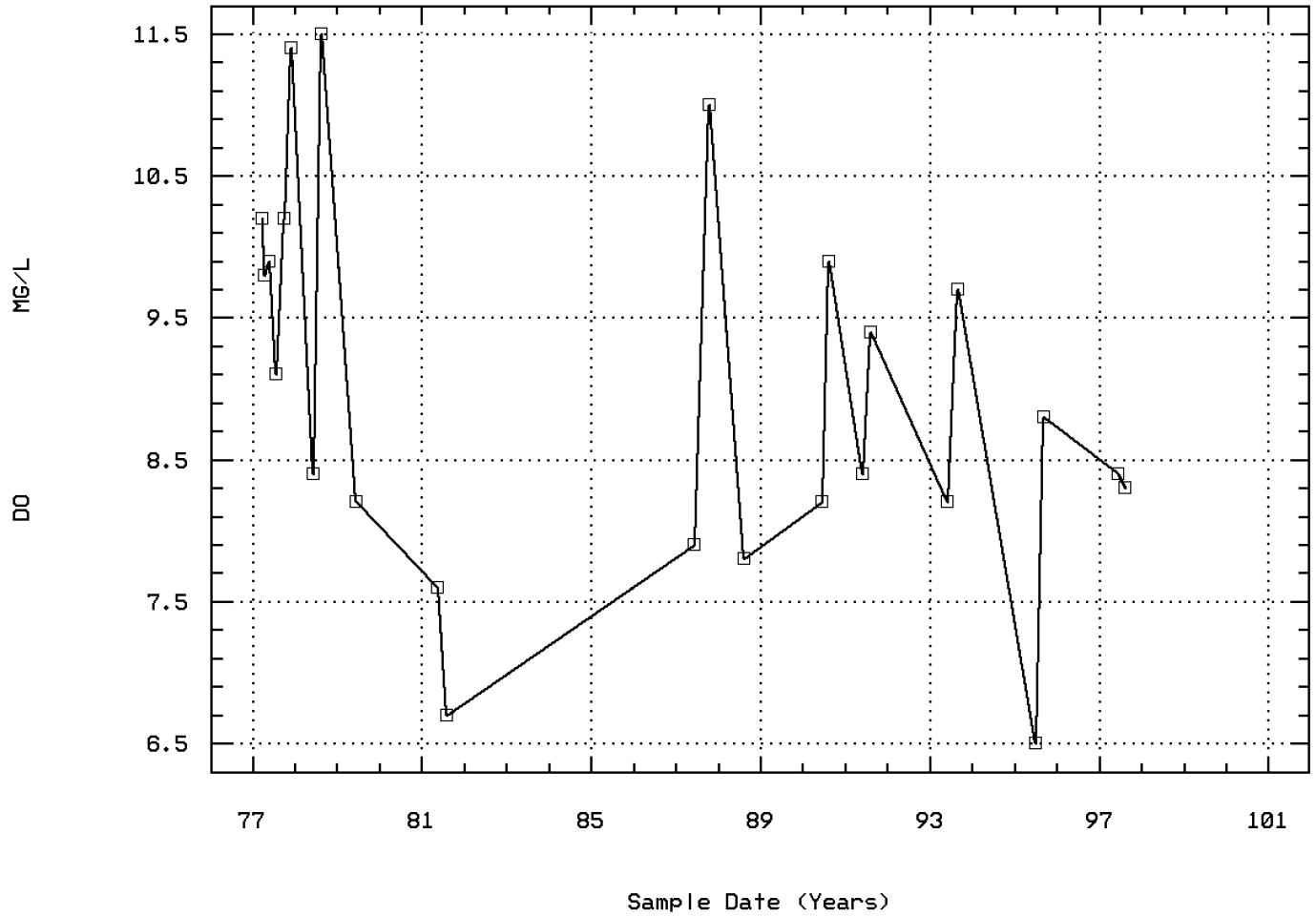
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



E FK SEVIER R ABV TROPIC RES

Station: BRCA0085 Parameter Code: 00300

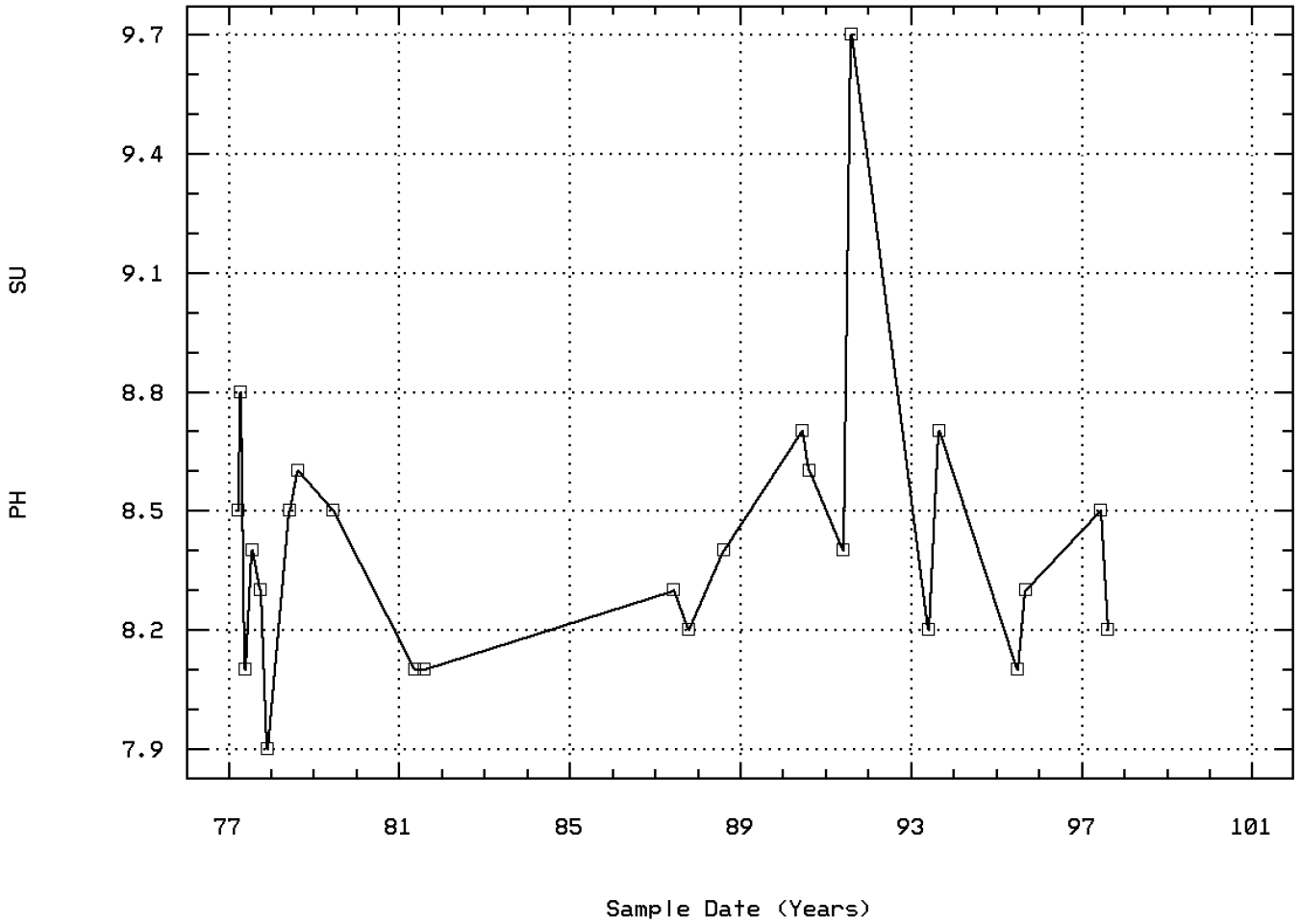
OXYGEN, DISSOLVED



E FK SEVIER R ABV TROPIC RES

Station: BRCA0085 Parameter Code: 00400

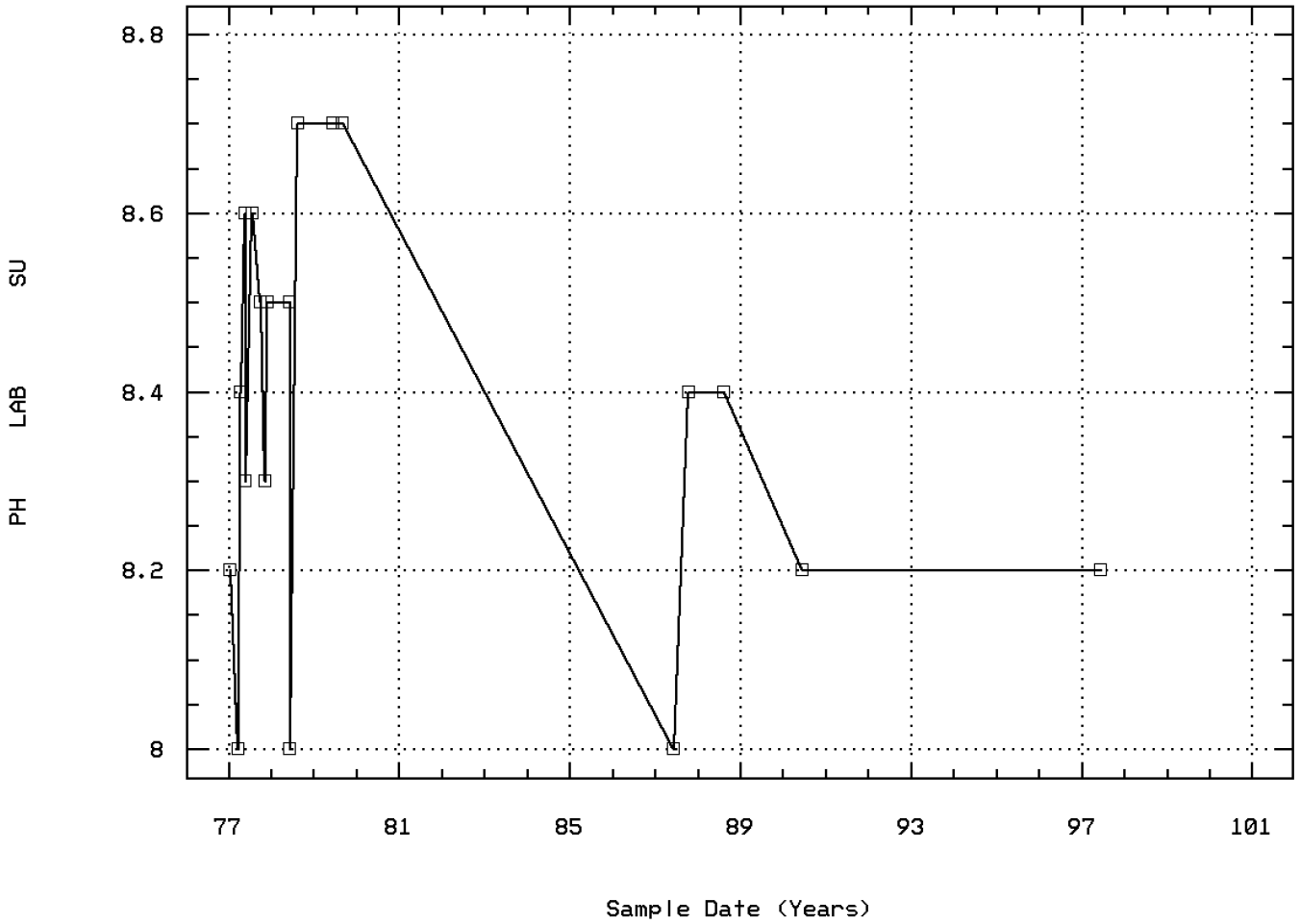
PH (STANDARD UNITS)



E FK SEVIER R ABV TROPIC RES

Station: BRCA0085 Parameter Code: 00403

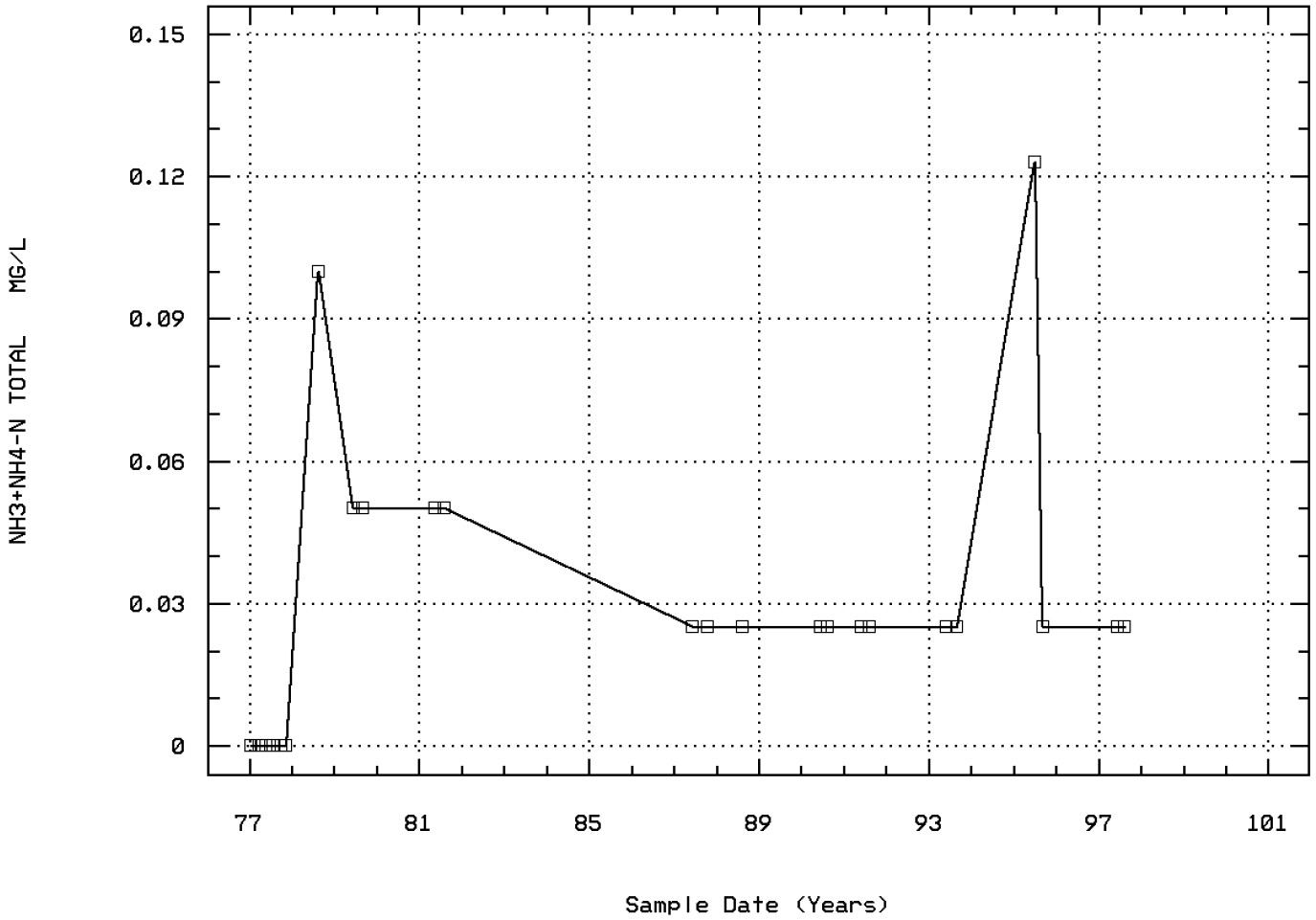
PH, LAB, STANDARD UNITS



E FK SEVIER R ABV TROPIC RES

Station: BRCA0085 Parameter Code: 00610

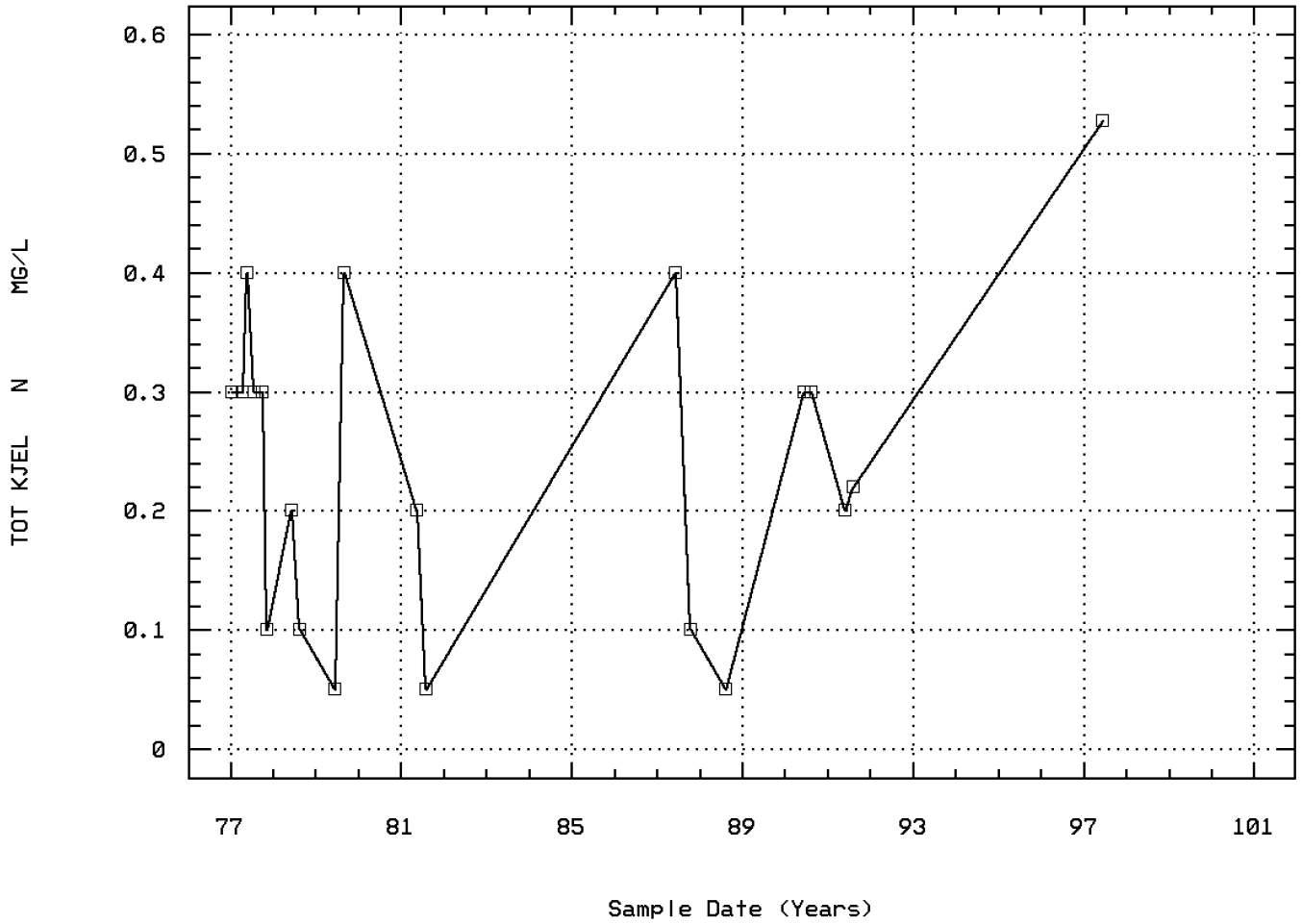
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



E FK SEVIER R ABV TROPIC RES

Station: BRCA0085 Parameter Code: 00625

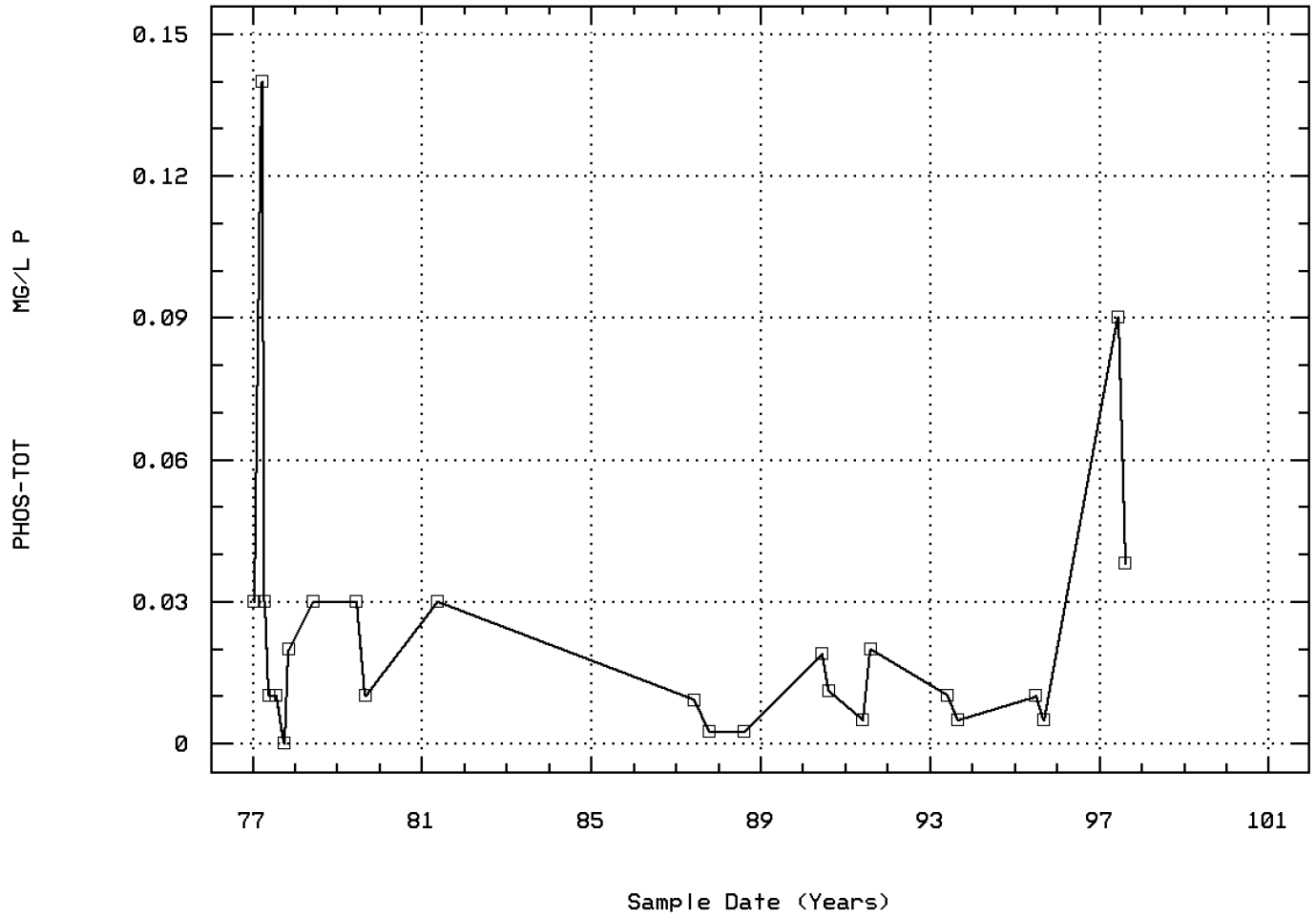
NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)



E FK SEVIER R ABV TROPIC RES

Station: BRCA0085 Parameter Code: 00665

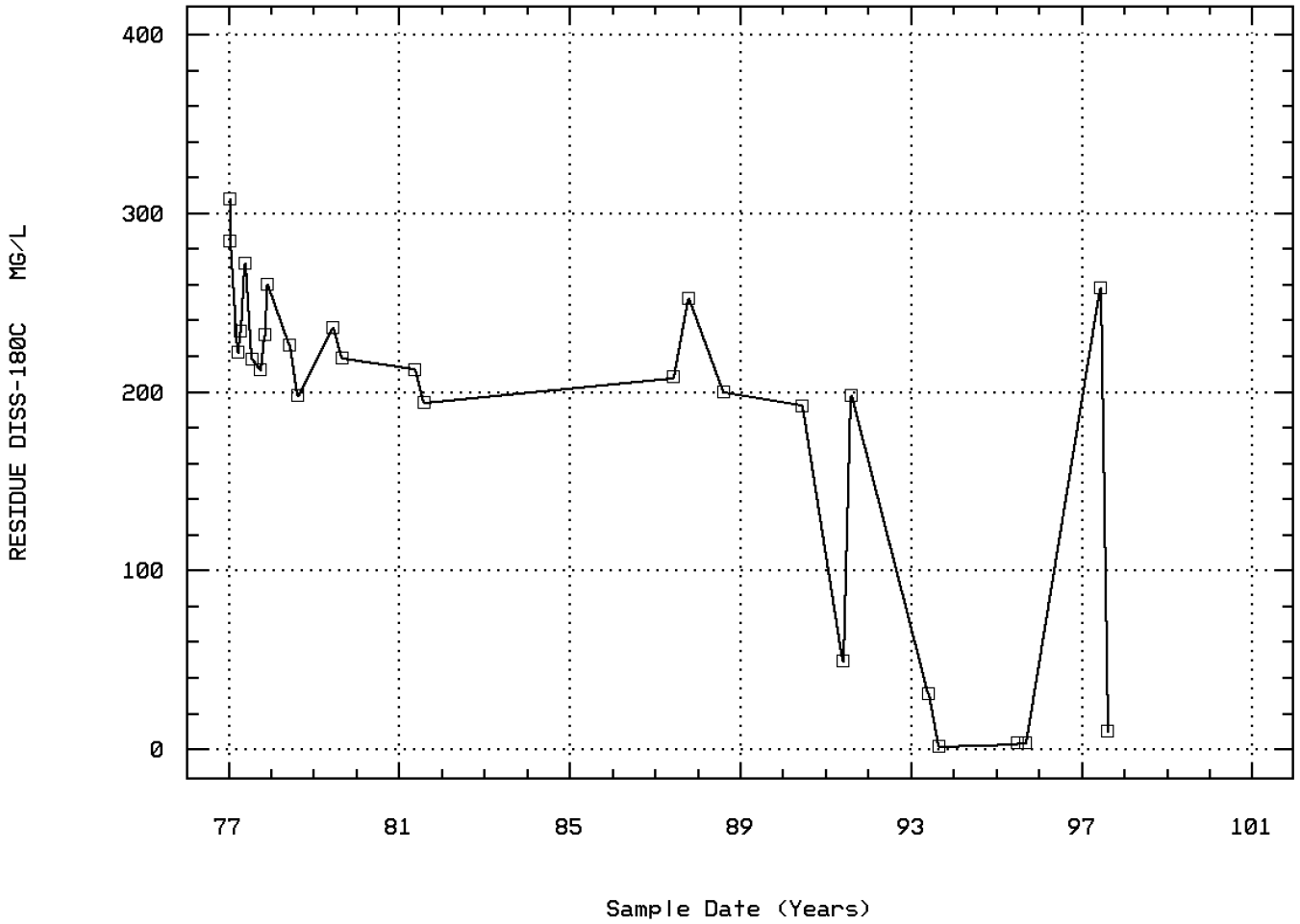
PHOSPHORUS, TOTAL (MG/L AS P)



E FK SEVIER R ABV TROPIC RES

Station: BRCA0085 Parameter Code: 70300

RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



E FK SEVIER R ABV TROPIC RES

Seasonal Analysis for Season #1: 7/10 to 2/19 - Station BRCA0085

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/77-08/12/97	12	14.85	14.35	22.1	9.	13.221	3.636	9.3	11.05	16.35	20.69
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/14/78-08/12/97	9	410.	410.111	471.	354.	1726.861	41.556	354.	370.	450.	471.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/19/77-06/11/97	11	430.	433.273	575.	345.	6302.818	79.39	346.	370.	460.	575.
00300p	OXYGEN, DISSOLVED MG/L	03/23/77-08/12/97	12	9.55	9.483	11.5	6.7	2.125	1.458	7.03	8.425	10.8	11.47
00400p	PH (STANDARD UNITS)	03/23/77-08/12/97	12	8.35	8.45	9.7	7.9	0.206	0.454	7.96	8.2	8.6	9.4
00400p	CONVERTED PH (STANDARD UNITS)	03/23/77-08/12/97	12	8.347	8.313	9.7	7.9	0.227	0.476	7.96	8.2	8.6	9.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/23/77-08/12/97	12	0.004	0.005	0.013	0.	0.	0.003	0.001	0.003	0.006	0.011
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/19/77-08/12/97	15 ##	0.025	0.025	0.1	0.	0.001	0.027	0.	0.	0.025	0.07
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/19/77-06/11/97	11	0.22	0.202	0.4	0.05	0.016	0.125	0.05	0.1	0.3	0.38
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	01/19/77-08/12/97	12	0.01	0.013	0.038	0.	0.	0.012	0.001	0.003	0.02	0.036
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/19/77-08/12/97	15	212.	185.967	308.	1.5	9877.017	99.383	2.4	194.	252.	293.6

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

Seasonal Analysis for Season #2: 2/20 to 5/09 - Station BRCA0085

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/77-08/12/97	2	9.	9.	10.	8.	2.	1.414	**	**	**	**
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/19/77-06/11/97	2	397.5	397.5	435.	360.	2812.5	53.033	**	**	**	**
00300p	OXYGEN, DISSOLVED MG/L	03/23/77-08/12/97	2	10.	10.	10.2	9.8	0.08	0.283	**	**	**	**
00400p	PH (STANDARD UNITS)	03/23/77-08/12/97	2	8.65	8.65	8.8	8.5	0.045	0.212	**	**	**	**
00400p	CONVERTED PH (STANDARD UNITS)	03/23/77-08/12/97	2	8.625	8.625	8.8	8.5	0.046	0.215	**	**	**	**
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/23/77-08/12/97	2	0.002	0.002	0.003	0.002	0.	0.001	**	**	**	**
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/19/77-08/12/97	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/19/77-06/11/97	2	0.65	0.65	1.	0.3	0.245	0.495	**	**	**	**
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	01/19/77-08/12/97	2	0.085	0.085	0.14	0.03	0.006	0.078	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/19/77-08/12/97	2	228.	228.	234.	222.	72.	8.485	**	**	**	**

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

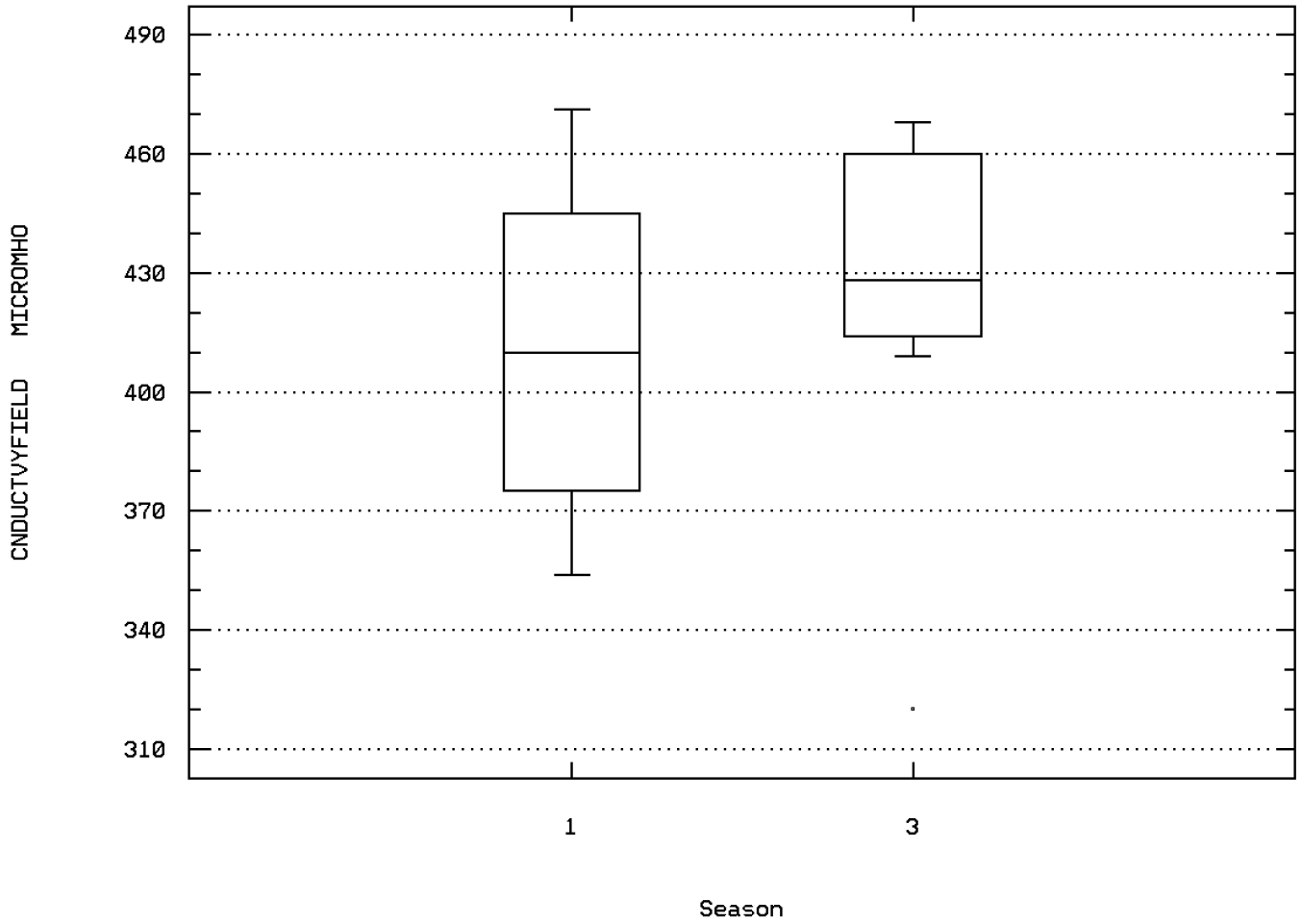
Seasonal Analysis for Season #3: 5/10 to 7/09 - Station BRCA0085

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/77-08/12/97	11	12.6	12.482	18.7	7.	13.634	3.692	7.	10.3	15.	18.34
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/14/78-08/12/97	9	428.	425.778	468.	320.	2041.694	45.185	320.	411.5	460.	468.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/19/77-06/11/97	9	410.	405.222	460.	350.	1632.944	40.41	350.	360.	440.	460.
00300p	OXYGEN, DISSOLVED MG/L	03/23/77-08/12/97	11	8.2	8.327	9.9	6.5	0.906	0.952	6.72	7.9	8.4	9.9
00400p	PH (STANDARD UNITS)	03/23/77-08/12/97	11	8.3	8.318	8.7	8.1	0.046	0.214	8.1	8.1	8.5	8.66
00400p	CONVERTED PH (STANDARD UNITS)	03/23/77-08/12/97	11	8.3	8.274	8.7	8.1	0.048	0.219	8.1	8.1	8.5	8.66
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/23/77-08/12/97	11	0.005	0.005	0.008	0.002	0.	0.002	0.002	0.003	0.008	0.008
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/19/77-08/12/97	10 ##	0.025	0.035	0.123	0.	0.001	0.035	0.	0.019	0.05	0.116
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/19/77-06/11/97	9	0.3	0.297	0.527	0.05	0.022	0.147	0.05	0.2	0.4	0.527
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	01/19/77-08/12/97	11	0.01	0.023	0.09	0.005	0.001	0.024	0.006	0.01	0.03	0.078
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/19/77-08/12/97	11	212.	178.091	272.	3.	10086.691	100.433	8.6	49.	258.	272.

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

Station: BRCA0085 Parameter Code: 00094

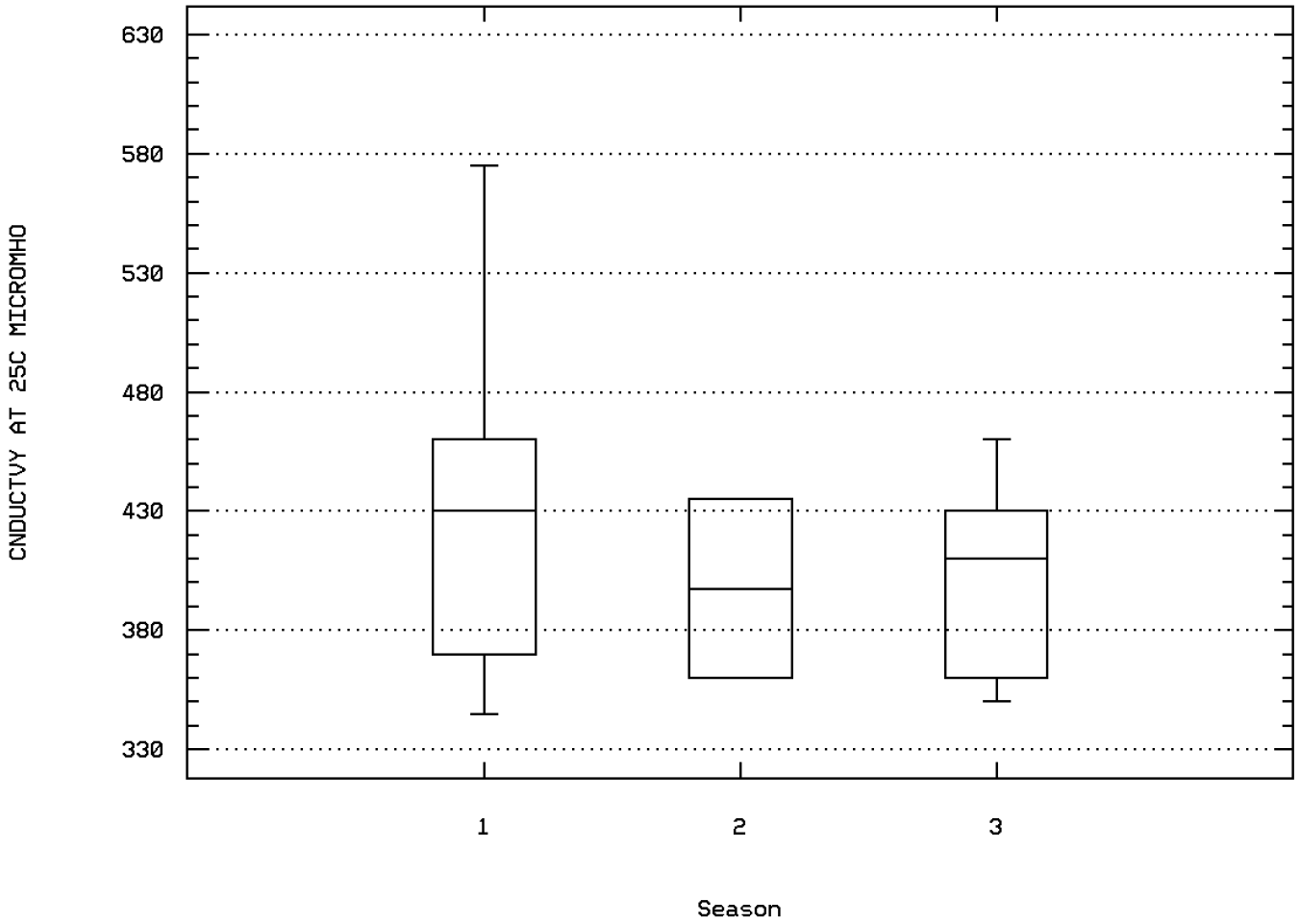
SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @



E FK SEVIER R ABV TROPIC RES

Station: BRCA0085 Parameter Code: 00095

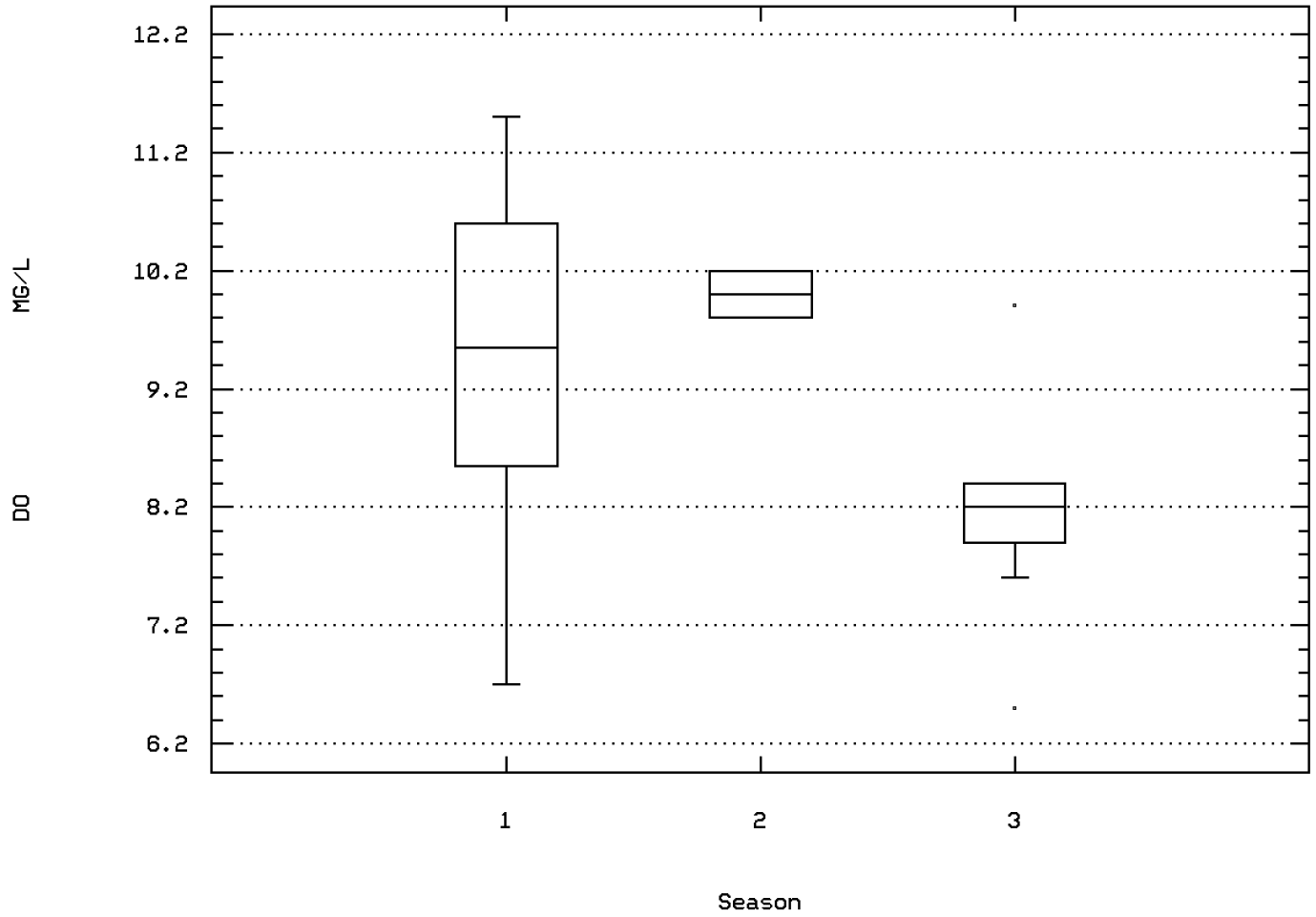
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



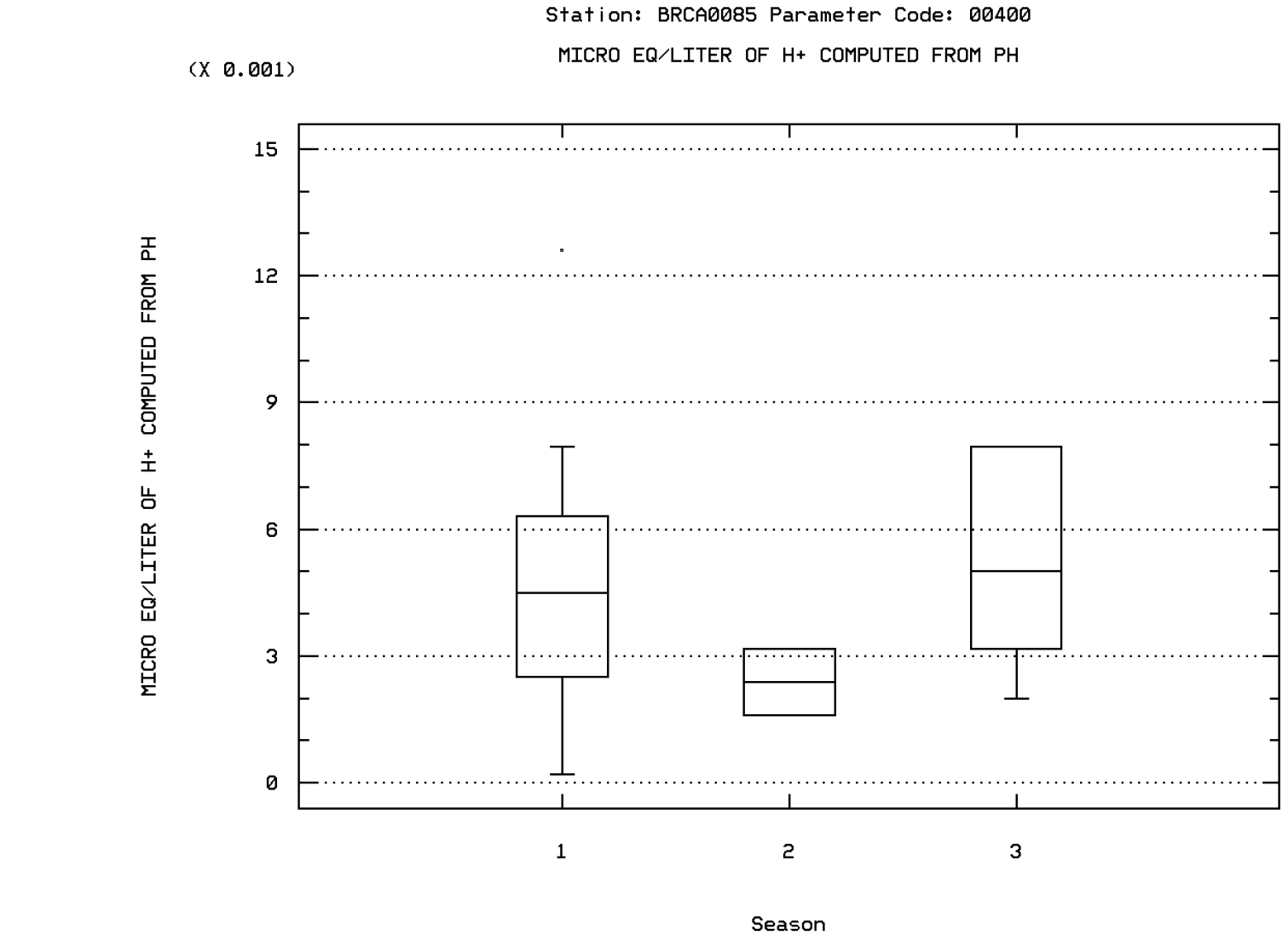
E FK SEVIER R ABV TROPIC RES

Station: BRCA0085 Parameter Code: 00300

OXYGEN, DISSOLVED



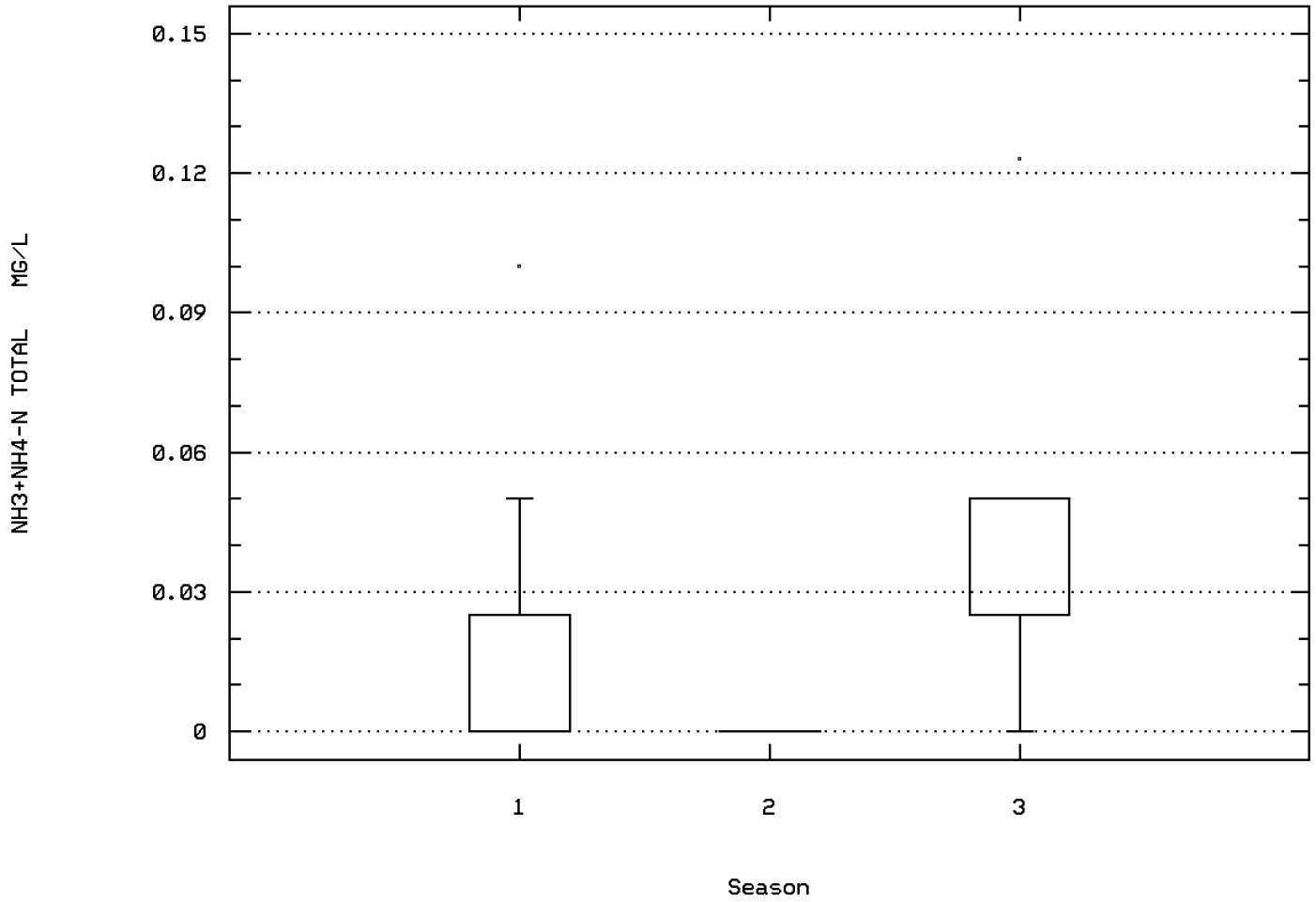
E FK SEVIER R ABV TROPIC RES



E FK SEVIER R ABV TROPIC RES

Station: BRCA0085 Parameter Code: 00610

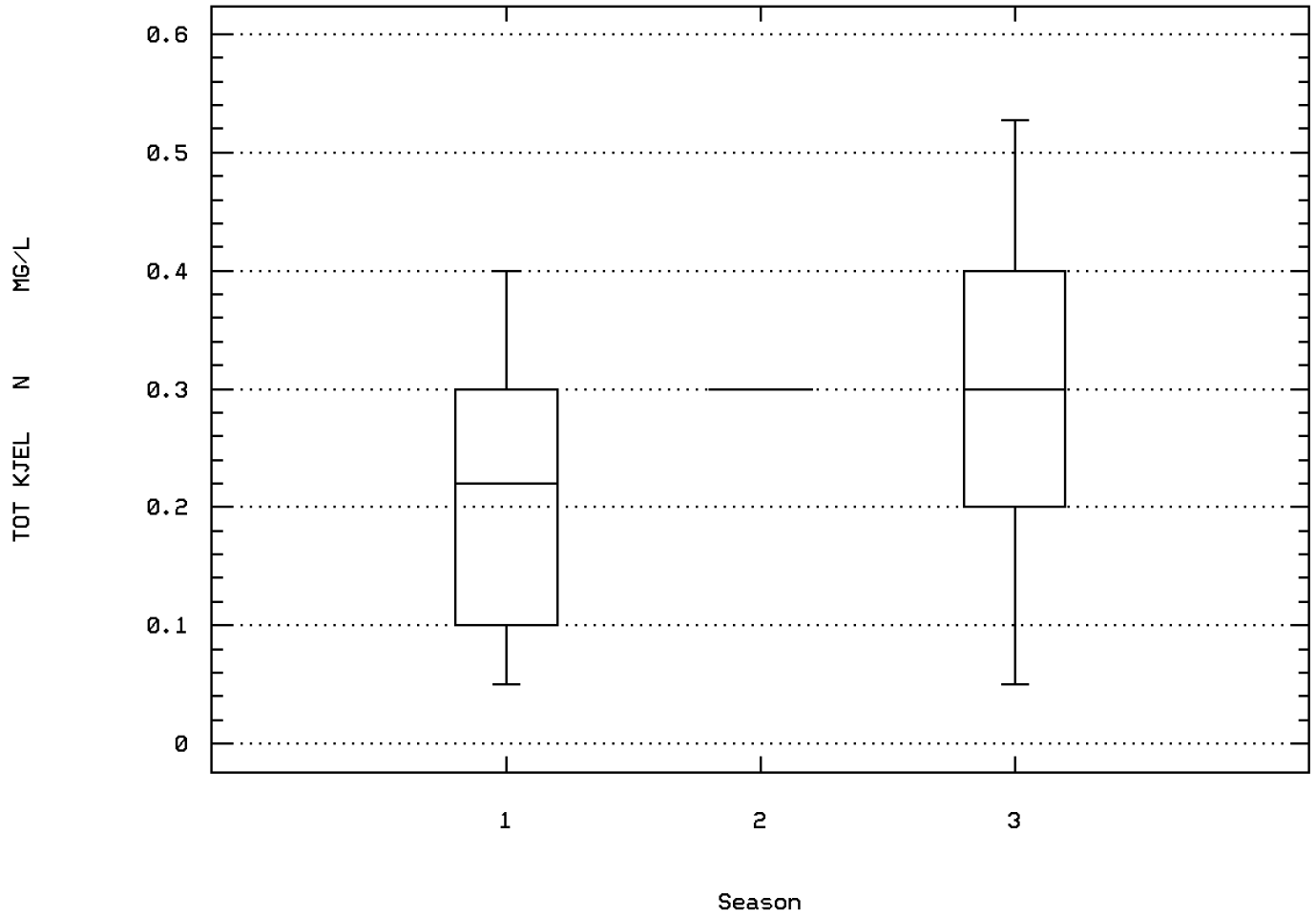
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



E FK SEVIER R ABV TROPIC RES

Station: BRCA0085 Parameter Code: 00625

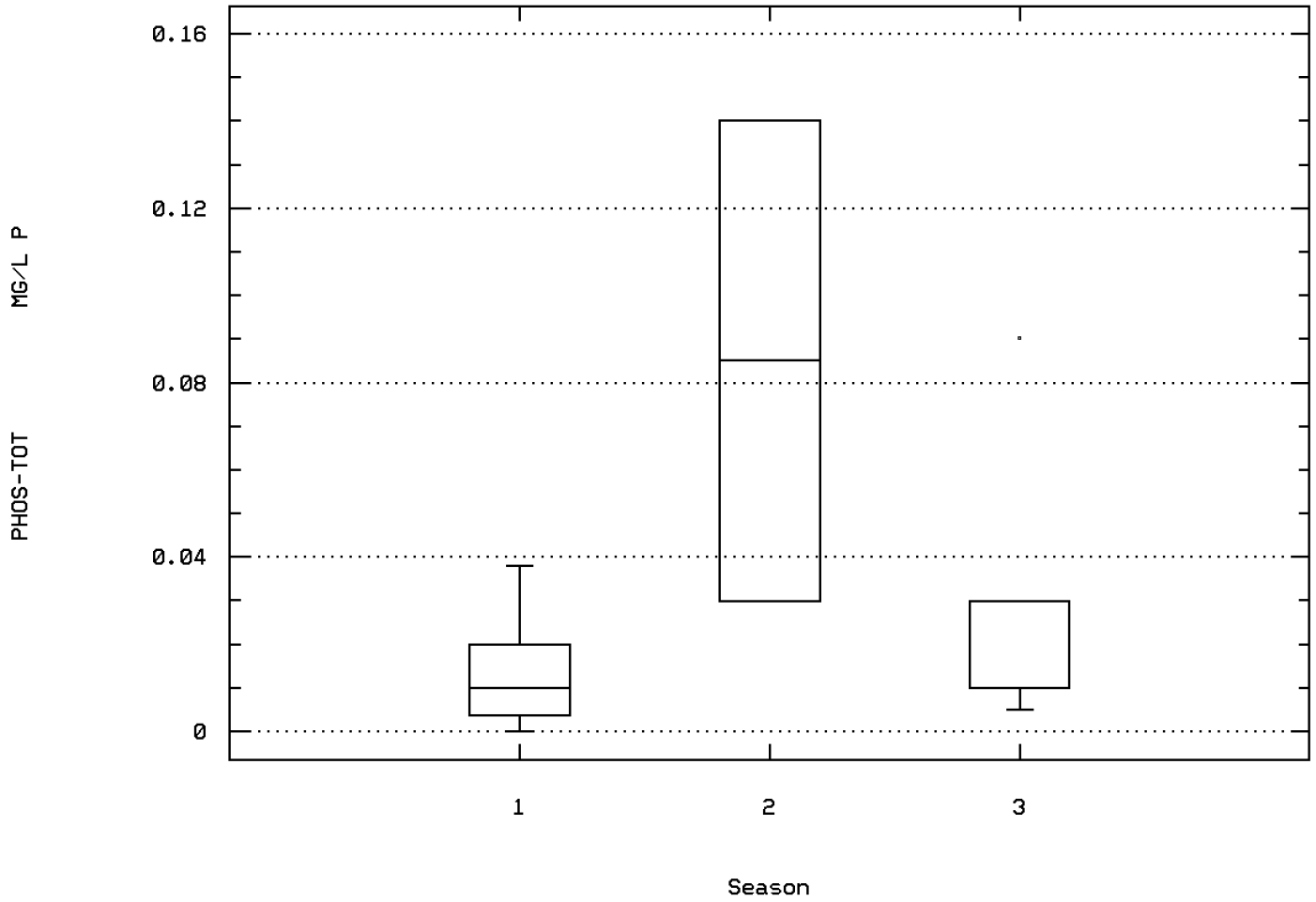
NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)



E FK SEVIER R ABV TROPIC RES

Station: BRCA0085 Parameter Code: 00665

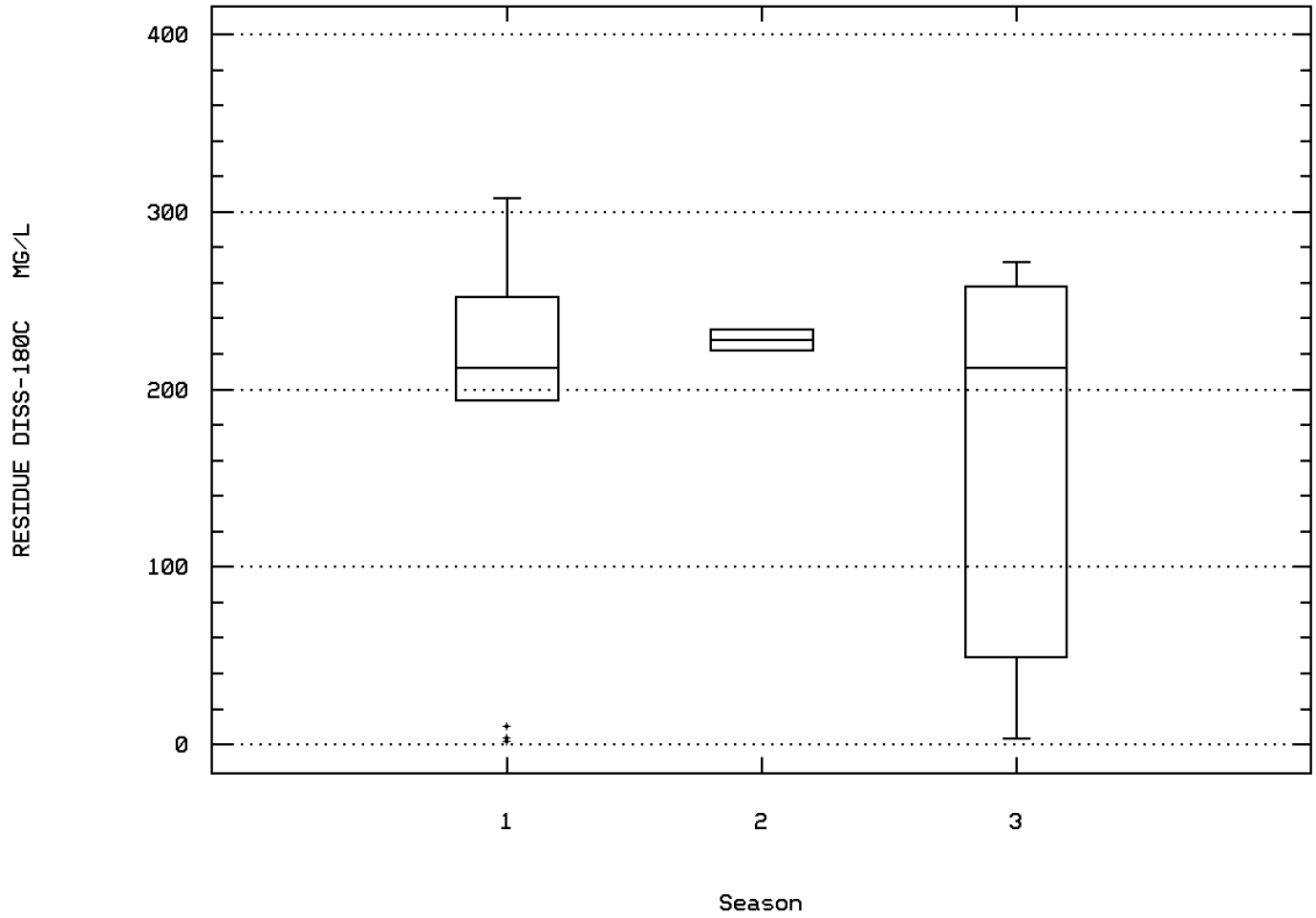
PHOSPHORUS, TOTAL (MG/L AS P)



E FK SEVIER R ABV TROPIC RES

Station: BRCA0085 Parameter Code: 70300

RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



E FK SEVIER R ABV TROPIC RES

Station Inventory for Station: BRCA0086

NPS Station ID: BRCA0086
LAT/LON: 37.592504/-112.252503
Agency: 112WRD
Date Created: 06/20/87
Location: (C-37- 4)17BBD-S1
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 373533112150901
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0086

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: BRCA0087

NPS Station ID: BRCA0087
Location: (C-37- 4)17BBD-S1
Station Type: /TYPA/AMBNT/SPRING
RMI-Indexes:
RMI-Miles:
HUC: 16030002
Major Basin:
Minor Basin:
RF1 Index: 16030002
RF3 Index:
Description:

LAT/LON: 37.592504/-112.254726
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 0.00

Agency: 112WRD
FIPS State/County: 49017 UTAH/GARFIELD
STORET Station ID(s): 373533112151701
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.00

Date Created: 06/20/87
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: BRCA0087

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/19/81-08/19/81	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	08/19/81-08/19/81	1	5.4	5.4	5.4	5.4	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/81-08/19/81	1	390.	390.	390.	390.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/19/81-08/19/81	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/19/81-08/19/81	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/81-08/19/81	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	08/19/81-08/19/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	08/19/81-08/19/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/81-08/19/81	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/19/81-08/19/81	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/19/81-08/19/81	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/19/81-08/19/81	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/19/81-08/19/81	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/19/81-08/19/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	08/19/81-08/19/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	08/19/81-08/19/81	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/19/81-08/19/81	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	08/19/81-08/19/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	08/19/81-08/19/81	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/19/81-08/19/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/19/81-08/19/81	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	08/19/81-08/19/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/19/81-08/19/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/19/81-08/19/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/19/81-08/19/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0087

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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	Fresh Chronic	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: BRCA0087

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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: BRCA0088

NPS Station ID: BRCA0088 LAT/LON: 37.592781/-112.255559 Agency: 21UTDHDW Date Created: 05/26/90
Location: TROPIC SPR RDSIDE STOP - TROPIC SPRING FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/MUN/INTAKE/NONAMB/SPRING/SUPPLY STORET Station ID(s): 0904701 /UT4903031001
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 16030002 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
NOTE: THIS IS A PUBLIC DRINKING WATER SOURCE * * * NOTE: THE SECONDARY STATION CODE IS EPA'S FRDS2 PWS-ID #
SYSTEM TYPE: USFS CAMPGROUND SERVICE AREA TYPE: RECREATION AREA

Parameter Inventory for Station: BRCA0088

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/18/85-04/18/85	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/18/85-04/18/85	1	6.	6.	6.	6.	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: BRCA0088

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00				1	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: BRCA0089

NPS Station ID: BRCA0089
LAT/LON: 37.592781/-112.256671
Agency: 21UTAH
Date Created: 02/20/82
Location: BADGER CK AB TROPIC RES
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 594644 /4938
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER R DRAINAGE
ECO Region:
RF1 Index: 16030002020
RF1 Mile Point: 17.820
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0089

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: BRCA0090

NPS Station ID: BRCA0090 LAT/LON: 37.593060/-112.254170 Agency: 113FORS4 Date Created: 04/02/83
Location: EAST FORK SEVIER RIVER AT TROPIC RESVR INLET FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 070301A /16030002301A/021070301A /P35
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: GREAT BASIN Elevation: 0 Water Body Id:
Minor Basin: SEVIER RIVER - EAST FORK SEVIER RIVER ECO Region:
RF1 Index: 16030002020 RF1 Mile Point: 17.820 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
FOR MORE INFORMATION, CONTACT; FOREST HYDROLOGIST, DIXIE NATIONAL FOREST, 435-865-3733...

Parameter Inventory for Station: BRCA0090

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/77-07/25/79	9	14.4	13.722	20.9	5.5	27.247	5.22	5.5	8.9	17.95	20.9
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	06/05/75-10/06/76	10	60.5	60.3	69.	52.	42.233	6.499	52.1	53.	66.5	68.9
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/05/75-09/30/75	5	2.1	2.36	3.7	0.8	1.603	1.266	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/26/76-07/25/79	14	11.55	46.964	489.3	4.8	16297.982	127.664	5.45	6.3	16.275	265.65
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/05/75-07/25/79	19	277.	331.263	661.	179.	17440.982	132.064	215.	231.	450.	514.
00300	OXYGEN, DISSOLVED MG/L	06/05/75-07/25/79	19	10.3	10.247	12.7	8.	1.989	1.41	8.	9.2	11.	12.5
00400	PH (STANDARD UNITS)	06/05/75-07/25/79	19	8.3	8.205	8.7	7.5	0.123	0.35	7.6	8.	8.5	8.6
00400	CONVERTED PH (STANDARD UNITS)	06/05/75-07/25/79	19	8.3	8.061	8.7	7.5	0.145	0.38	7.6	8.	8.5	8.6
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/05/75-07/25/79	19	0.005	0.009	0.032	0.002	0.	0.008	0.003	0.003	0.01	0.025
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/05/75-06/05/75	1	248.	248.	248.	248.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	06/05/75-06/05/75	1	301.	301.	301.	301.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/05/75-06/05/75	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/05/75-06/21/79	14	0.065	0.074	0.18	0.01	0.002	0.046	0.023	0.038	0.092	0.16
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/05/75-06/21/79	14	0.085	0.09	0.29	0.005	0.007	0.085	0.005	0.009	0.15	0.24
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	06/05/75-06/05/75	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/05/75-06/05/75	1	242.	242.	242.	242.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/05/75-06/05/75	1	50.4	50.4	50.4	50.4	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/05/75-06/05/75	1	28.3	28.3	28.3	28.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/05/75-06/05/75	1	17.4	17.4	17.4	17.4	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/05/75-06/05/75	1	0.41	0.41	0.41	0.41	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/05/75-06/05/75	1 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/05/75-06/05/75	1	34.5	34.5	34.5	34.5	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/05/75-06/05/75	1	0.14	0.14	0.14	0.14	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/05/75-06/05/75	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/05/75-06/05/75	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	06/05/75-06/05/75	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	06/05/75-06/05/75	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	06/05/75-06/05/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/05/75-06/05/75	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	06/05/75-06/05/75	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	06/05/75-10/28/77	7	110.	191.143	750.	30.	63575.81	252.142	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/05/75-06/05/75	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	06/05/75-10/28/77	7	5.	14.	50.	3.	304.	17.436	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/05/75-06/05/75	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	06/05/75-06/05/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	06/05/75-06/05/75	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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Parameter Inventory for Station: BRCA0090

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	06/05/75-06/05/75	1	390.	390.	390.	390.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	06/05/75-06/05/75	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	05/18/79-07/25/79	2	230.	230.	230.	230.	0.	0.	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	05/18/79-07/25/79	2	2.362	2.362	2.362	2.362	0.	0.	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			230.								
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/26/76-07/25/79	13	4.	26.269	230.	0.	3867.151	62.186	0.2	0.5	23.	151.6
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	05/26/76-07/25/79	13	0.602	0.707	2.362	-0.301	0.682	0.826	-0.12	-0.301	1.358	2.03
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			5.096								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/75-09/30/75	5	10.	11.	26.	0.5	123.875	11.13	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/75-09/30/75	5	1.	0.614	1.415	-0.301	0.719	0.848	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			4.108								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/05/75-06/21/79	3	304.	322.	430.	232.	10044.	100.22	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	06/05/75-06/05/75	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: BRCA0090

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	5	0	0.00	4	0	0.00				1	0	0.00			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	14	1	0.07	8	0	0.00	1	0	0.00	5	1	0.20			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	19	0	0.00	12	0	0.00	1	0	0.00	6	0	0.00			
00400	PH	Fresh Chronic	9.	19	0	0.00	12	0	0.00	1	0	0.00	6	0	0.00			
		Other-Lo Lim.	6.5	19	0	0.00	12	0	0.00	1	0	0.00	6	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	14	0	0.00	7	0	0.00	1	0	0.00	6	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	1	0	0.00							1	0	0.00			
		Drinking Water	0.2	1	0	0.00							1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00							1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00							1	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00							1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
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			
01049	LEAD, DISSOLVED	Fresh Acute	82.	7	0	0.00	4	0	0.00	1	0	0.00	2	0	0.00			
		Drinking Water	15.	7	2	0.29	4	1	0.25	1	1	1.00	2	0	0.00			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00							1	0	0.00			
		Drinking Water	5000.	1	0	0.00							1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	2	0	0.00	1	0	0.00				1	0	0.00			
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	13	1	0.08	8	1	0.13	1	0	0.00	4	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	5	0	0.00	4	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: BRCA0091

NPS Station ID: BRCA0091 | LAT/LON: 37.593060/-112.255559 | Agency: 11EPALES | Date Created: / /
Location: BADGER CREEK | FIPS State/County: 49000 UTAH/
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 4923B1
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: T/TROPIC RESERVOIR | Elevation: 0 | Water Body Id:
Minor Basin: DRT RD .4 MI WNW OF JCT WITH GRAVEL RD | ECO Region:
RF1 Index: 16030002020 | RF1 Mile Point: 17.820 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
SAMPLE FROM DIRT RD 0.4 MI WNW OF JCT W GRAVEL RD 3.9 MI N OF GARFIELD/ KANE COUNTY LINE SEC 18 T37S R4W

Parameter Inventory for Station: BRCA0091

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/74-10/11/75	7	0.01	0.017	0.054	0.003	0.	0.018	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/09/74-11/09/74	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/09/74-11/09/74	1	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/74-10/11/75	7	0.337	0.473	1.25	0.1	0.146	0.382	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/74-10/11/75	7	0.06	0.094	0.18	0.005	0.005	0.068	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/74-10/11/75	7	0.01	0.015	0.03	0.005	0.	0.009	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/09/74-10/11/75	7 ##	0.003	0.006	0.02	0.003	0.	0.007	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0091

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	7	0	0.00	5	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: BRCA0092

NPS Station ID: BRCA0092
LAT/LON: 37.593060/-112.255559
Agency: 21UTAH
Date Created: 12/14/85
Location: BADGER CK AB TROPIC RES
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 494938
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVEIR RIVER
ECO Region:
RF1 Index: 16030002020
RF1 Mile Point: 17.820
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
UTAH STATE CLASSIFICATION-3A,4
USGS 7.5 QUADRANGLE-TROPIC RESERVOIR 62600

Parameter Inventory for Station: BRCA0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/79-08/17/88	4	14.95	15.875	22.	11.6	19.183	4.38	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/20/79-08/17/88	4	0.3	0.7	2.	0.2	0.753	0.868	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/79-08/17/88	4	9.75	254.975	1000.	0.4	246739.803	496.729	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/20/79-08/17/88	4	500.5	514.	570.	485.	1507.333	38.824	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/20/79-08/17/88	4	487.5	589.75	905.	479.	44190.25	210.215	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/20/79-08/17/88	4	6.95	7.4	9.2	6.5	1.5	1.225	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	06/20/79-08/17/88	2 ##	28.5	28.5	50.	7.	924.5	30.406	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/79-08/17/88	4	8.45	8.425	8.5	8.3	0.009	0.096	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/79-08/17/88	4	8.447	8.417	8.5	8.3	0.009	0.096	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/79-08/17/88	4	0.004	0.004	0.005	0.003	0.	0.001	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/20/79-08/17/88	4	8.3	8.3	8.6	8.	0.06	0.245	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/20/79-08/17/88	4	8.3	8.249	8.6	8.	0.063	0.252	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/79-08/17/88	4	0.005	0.006	0.01	0.003	0.	0.003	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	06/20/79-08/17/88	4	2.	2.5	5.	1.	3.	1.732	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/79-08/17/88	4	266.5	265.5	272.	257.	39.	6.245	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	06/20/79-08/17/88	4	319.5	321.	332.	313.	83.333	9.129	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/20/79-08/17/88	4	0.	1.5	6.	0.	9.	3.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/11/87-08/17/88	3	10.	13.833	30.	1.5	214.083	14.632	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/79-08/17/88	4 ##	0.025	0.031	0.05	0.025	0.	0.013	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-08/17/88	2 ##	0.018	0.018	0.03	0.005	0.	0.018	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/20/79-10/15/87	3 ##	0.025	0.02	0.03	0.005	0.	0.013	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-08/17/88	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/20/79-10/15/87	3	0.06	0.147	0.35	0.03	0.031	0.177	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/79-08/17/88	4 ##	0.125	0.15	0.3	0.05	0.015	0.122	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/20/79-06/20/79	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/79-08/17/88	4 ##	0.005	0.173	0.68	0.003	0.114	0.338	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/87-08/17/88	3 ##	0.003	0.004	0.007	0.003	0.	0.003	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/17/88-08/17/88	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/20/79-08/17/88	4	264.5	297.	397.	262.	4446.	66.678	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/20/79-08/17/88	4	38.5	43.25	62.	34.	168.917	12.997	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/20/79-08/17/88	4	43.	46.	59.	39.	78.667	8.869	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/20/79-08/17/88	4	4.	12.75	40.	3.	330.25	18.173	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/20/79-08/17/88	4	1.	2.125	6.	0.5	6.729	2.594	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/11/87-08/17/88	3	4.	56.667	163.	3.	8480.333	92.089	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	06/20/79-06/20/79	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/20/79-08/17/88	4	6.	7.	11.	5.	8.	2.828	**	**	**	**

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Parameter Inventory for Station: BRCA0092

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/20/79-06/20/79	1	0.28	0.28	0.28	0.28	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/20/79-06/20/79	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/20/79-06/20/79	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	08/17/88-08/17/88	1	380.	380.	380.	380.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	06/20/79-08/17/88	2 ##	207.5	207.5	390.	25.	66612.5	258.094	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	06/20/79-06/20/79	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/20/79-06/20/79	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/20/79-06/20/79	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/20/79-06/20/79	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/17/88-08/17/88	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/20/79-08/17/88	2 ##	6.25	6.25	10.	2.5	28.125	5.303	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/11/87-08/17/88	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/20/79-06/20/79	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/20/79-08/17/88	2	353.	353.	696.	10.	235298.	485.075	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/17/88-08/17/88	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/20/79-06/20/79	1 ##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/20/79-06/20/79	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/17/88-08/17/88	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/20/79-08/17/88	2 ##	12.5	12.5	15.	10.	12.5	3.536	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/20/79-06/20/79	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	06/20/79-06/20/79	1	2400.	2400.	2400.	2400.	0.	0.	**	**	**	**
31506	LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	06/20/79-06/20/79	1	3.38	3.38	3.38	3.38	0.	0.	**	**	**	**
31506	GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			2400.								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	06/20/79-06/20/79	1 ##	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	06/20/79-06/20/79	1 ##	1.061	1.061	1.061	1.061	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			11.5								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/20/79-08/17/88	4	267.	306.5	438.	254.	7729.	87.915	**	**	**	**
71830	HYDROXIDE ION (MG/L AS OH)	06/20/79-08/17/88	4	0.	0.	0.	0.	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	06/20/79-06/20/79	1 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/20/79-06/20/79	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71910	GOLD, TOTAL (UG/L AS AU)	06/20/79-06/20/79	1	0.	0.	0.	0.	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	06/20/79-08/17/88	4	0.115	0.108	0.18	0.02	0.006	0.075	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0092

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	4	1	0.25	2	0	0.00				2	1	0.50			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	2	0	0.00				2	0	0.00			
00400	PH	Fresh Chronic	9.	4	0	0.00	2	0	0.00				2	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	2	0	0.00				2	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	4	0	0.00	2	0	0.00				2	0	0.00			
		Other-Lo Lim.	6.5	4	0	0.00	2	0	0.00				2	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	2	0	0.00	1	0	0.00				1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	3	0	0.00	1	0	0.00				2	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	3	0	0.00	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.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	250.	3	0	0.00	2	0	0.00				1	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00							1	0	0.00			
		Drinking Water	250.	1	0	0.00							1	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	4	0	0.00	2	0	0.00				2	0	0.00			
00950	FLUORIDE, DISSOLVED 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			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00	1	0	0.00				1	0	0.00			

& - 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: BRCA0092

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	0	0.00							1	0	0.00			
		Drinking Water	5.	1	0	0.00							1	0	0.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	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.	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.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	0	0.00							1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	5000.	2	0	0.00	1	0	0.00				1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	1	0	0.00							1	0	0.00			
		Drinking Water	50.	1	0	0.00							1	0	0.00			
31506	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C	Other-Hi Lim.	1000.	1	1	1.00							1	1	1.00			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	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			

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

Station Inventory for Station: BRCA0093

NPS Station ID: BRCA0093
LAT/LON: 37.595281/-112.060559
Agency: 112WRD
Date Created: 12/02/81
Location: (C-37- 3)12DCD-
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 373543112033801
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0093

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/81-08/25/81	2	18.75	18.75	22.	15.5	21.125	4.596	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/21/81-08/25/81	2	7.	7.	9.	5.	8.	2.828	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/21/81-08/25/81	2	1465.	1465.	1670.	1260.	84050.	289.914	**	**	**	**
00400	PH (STANDARD UNITS)	04/21/81-08/25/81	2	8.175	8.175	8.25	8.1	0.011	0.106	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/21/81-08/25/81	2	8.169	8.169	8.25	8.1	0.011	0.106	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/21/81-08/25/81	2	0.007	0.007	0.008	0.006	0.	0.002	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/21/81-08/25/81	2	7.75	7.75	7.8	7.7	0.005	0.071	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/21/81-08/25/81	2	7.747	7.747	7.8	7.7	0.005	0.071	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/21/81-08/25/81	2	0.018	0.018	0.02	0.016	0.	0.003	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/21/81-08/25/81	2	670.	670.	760.	580.	16200.	127.279	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/21/81-08/25/81	2	138.5	138.5	157.	120.	684.5	26.163	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/21/81-08/25/81	2	79.	79.	90.	68.	242.	15.556	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/21/81-08/25/81	2	86.5	86.5	100.	73.	364.5	19.092	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/21/81-08/25/81	2	1.55	1.55	1.8	1.3	0.125	0.354	**	**	**	**
00932	SODIUM, PERCENT	04/21/81-08/25/81	2	21.5	21.5	22.	21.	0.5	0.707	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/21/81-08/25/81	2	5.75	5.75	6.3	5.2	0.605	0.778	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/21/81-08/25/81	2	23.	23.	30.	16.	98.	9.899	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/21/81-08/25/81	2	550.	550.	670.	430.	28800.	169.706	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/21/81-08/25/81	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/21/81-08/25/81	2	8.9	8.9	11.	6.8	8.82	2.97	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	04/21/81-08/25/81	2	270.	270.	300.	240.	1800.	42.426	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/21/81-08/25/81	2	14100.	14100.	24000.	4200.	196020000.	14000.714	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/21/81-08/25/81	2	14100.	14100.	24000.	4200.	196020000.	14000.714	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/21/81-08/25/81	2	22.	22.	30.	14.	128.	11.314	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	04/21/81-08/25/81	2	325.	325.	560.	90.	110450.	332.34	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/21/81-08/25/81	2	335.	335.	570.	100.	110450.	332.34	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/21/81-08/25/81	2	11.5	11.5	13.	10.	4.5	2.121	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/81-08/25/81	2	1094.5	1094.5	1260.	929.	54780.5	234.052	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/25/81-08/25/81	1	1160.	1160.	1160.	1160.	0.	0.	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	04/21/81-08/25/81	2	19.95	19.95	23.6	16.3	26.645	5.162	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/21/81-08/25/81	2	1.485	1.485	1.71	1.26	0.101	0.318	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/21/81-08/25/81	2	1504.	1504.	2330.	678.	1364552.	1168.14	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/21/81-08/25/81	2	33.9	33.9	59.	8.8	1260.02	35.497	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	04/21/81-04/21/81	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

EPA Water Quality Criteria Analysis for Station: BRCA0093

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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	Fresh Chronic	9.	2	0	0.00	1	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00	1	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	250.	2	0	0.00	1	0	0.00	1	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	2	1.00	1	1	1.00	1	1	1.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	1	0	0.00	1	0	0.00						

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

Station Inventory for Station: BRCA0094

NPS Station ID: BRCA0094
LAT/LON: 37.597781/-112.253060
Agency: 21UTAH
Date Created: 11/23/85
Location: TROPIC RES MIDLAKE 02
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 494935
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVEIR RIVER
ECO Region:
RF1 Index: 16030002020
RF1 Mile Point: 17.620
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
HYDROLOGIC CATALOGING UNIT-16030002
UTAH STATE CLASSIFICATION-2B,3A,4

Parameter Inventory for Station: BRCA0094

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/79-06/03/93	13	14.9	13.192	19.8	0.9	30.022	5.479	1.94	11.35	15.95	19.56
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/03/81-06/03/93	11	2.	3.227	15.	0.4	16.548	4.068	0.42	1.2	3.5	12.72
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/20/79-06/03/93	6	1.65	1.65	2.7	0.2	1.027	1.013	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/20/79-06/03/93	13	394.	393.	527.	292.	5793.833	76.117	293.2	323.5	450.	516.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/03/81-06/14/90	10	406.5	390.5	531.	295.	7962.278	89.232	295.	295.	450.5	529.7
00300	OXYGEN, DISSOLVED MG/L	06/20/79-06/03/93	13	7.9	8.146	10.8	0.3	7.269	2.696	2.98	7.45	9.85	10.8
00335	COD, .025N K2CR2O7 MG/L	06/20/79-02/14/89	7 ##	7.	8.714	23.	5.	40.571	6.37	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/79-06/03/93	13	8.5	8.438	9.1	7.2	0.319	0.565	7.4	8.15	8.9	9.1
00400	CONVERTED PH (STANDARD UNITS)	06/20/79-06/03/93	13	8.5	8.038	9.1	7.2	0.493	0.702	7.4	8.15	8.9	9.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/79-06/03/93	13	0.003	0.009	0.063	0.001	0.	0.017	0.001	0.001	0.007	0.046
00403	PH, LAB, STANDARD UNITS SU	06/11/87-06/14/90	8	8.15	8.225	9.1	7.7	0.185	0.43	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/11/87-06/14/90	8	8.147	8.085	9.1	7.7	0.207	0.455	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/11/87-06/14/90	8	0.007	0.008	0.02	0.001	0.	0.006	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	08/03/81-06/14/90	10	2.	2.7	9.	0.	7.567	2.751	0.	0.75	4.25	8.6
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/03/81-06/03/93	11	226.	222.	294.	167.	2335.4	48.326	167.4	170.	268.	293.2
00440	BICARBONATE ION (MG/L AS HCO3)	08/03/81-06/14/90	10	269.5	255.9	358.	159.	4944.767	70.319	161.3	183.5	303.75	357.6
00445	CARBONATE ION (MG/L AS CO3)	08/03/81-06/14/90	10	0.	4.5	23.	0.	63.389	7.962	0.	0.	10.5	21.9
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/05/79-06/03/93	12 ##	2.	4.833	26.	0.	53.742	7.331	0.45	1.5	3.75	21.8
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/79-06/03/93	16 ##	0.025	0.036	0.056	0.025	0.	0.013	0.025	0.025	0.05	0.052
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-06/14/90	7 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/19/81-10/15/87	6 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-06/14/90	7 ##	0.005	0.008	0.02	0.005	0.	0.006	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/19/81-10/15/87	6 ##	0.013	0.058	0.19	0.005	0.006	0.079	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/79-06/14/90	14	0.2	0.246	0.6	0.05	0.034	0.185	0.05	0.088	0.4	0.55
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/20/79-09/05/79	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	06/03/93-06/03/93	2 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/79-06/03/93	14 ##	0.009	0.01	0.04	0.003	0.	0.01	0.003	0.004	0.01	0.03
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	06/03/93-06/03/93	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/87-06/14/90	8 ##	0.003	0.003	0.008	0.003	0.	0.002	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/17/88-02/14/89	4	4.15	3.7	5.	1.5	2.687	1.639	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	08/17/88-08/17/88	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/03/81-06/03/93	11	237.	229.091	318.	171.	2693.291	51.897	171.6	174.	249.	315.6
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/03/81-06/03/93	11	39.	35.091	60.	14.	316.691	17.796	14.	14.	52.	60.
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/03/81-06/03/93	11	34.	34.455	41.	29.	10.273	3.205	29.4	33.	36.	40.4
00930	SODIUM, DISSOLVED (MG/L AS NA)	08/03/81-06/03/93	11	2.	1.964	2.	1.6	0.015	0.121	1.68	2.	2.	2.
00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/03/81-06/03/93	11 ##	0.5	0.636	2.	0.5	0.205	0.452	0.5	0.5	0.5	1.7

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

Parameter Inventory for Station: BRCA0094

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940	CHLORIDE,TOTAL IN WATER MG/L	06/11/87-02/14/89	7	2.	2.429	4.	2.	0.619	0.787	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/03/81-06/03/93	4 ##	0.75	0.75	1.	0.5	0.083	0.289	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/03/81-06/03/93	11	5.	4.864	7.	3.	1.205	1.098	3.2	4.	5.5	6.8
01002	ARSENIC, TOTAL (UG/L AS AS)	08/03/81-08/03/81	2 ##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	08/17/88-08/17/88	2	220.	220.	310.	130.	16200.	127.279	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	08/03/81-02/14/89	6	230.	271.667	550.	130.	29016.667	170.343	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	08/03/81-08/03/81	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	08/03/81-08/03/81	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/17/88-08/17/88	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	08/03/81-02/14/89	6 ##	10.	8.333	10.	5.	6.667	2.582	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/11/87-08/17/88	5 ##	10.	373.4	1800.	10.	636132.8	797.579	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	08/03/81-08/03/81	2 ##	3.75	3.75	5.	2.5	3.125	1.768	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	08/03/81-02/14/89	6 ##	6.5	39.417	150.	2.5	3530.842	59.421	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/17/88-08/17/88	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	08/03/81-08/03/81	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	08/03/81-08/03/81	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/17/88-08/17/88	2 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	08/03/81-02/14/89	6 ##	10.	23.333	50.	10.	426.667	20.656	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	08/03/81-08/03/81	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	06/20/79-09/05/79	3	40.	53.333	90.	30.	1033.333	32.146	**	**	**	**
31506	LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	06/20/79-09/05/79	3	1.602	1.678	1.954	1.477	0.061	0.247	**	**	**	**
31506	GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			47.622								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	06/20/79-09/05/79	3 ##	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	06/20/79-09/05/79	3 ##	1.061	1.061	1.061	1.061	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			11.5								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/11/87-06/03/93	8	0.3	1.063	4.	0.	2.22	1.49	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/05/79-06/03/93	12	203.5	191.667	308.	3.	5917.152	76.923	44.1	162.5	228.5	300.2
70324	SOLIDS, VOLATILE SUSPENDED IN MIXED LIQUOR (MG/L)	06/03/93-06/03/93	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71830	HYDROXIDE ION (MG/L AS OH)	08/03/81-06/14/90	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/19/81-05/19/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	08/03/81-08/03/81	2 ##	0.075	0.075	0.1	0.05	0.001	0.035	**	**	**	**
72015	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	06/20/79-06/03/93	16	0.	1.638	8.	0.	6.442	2.538	0.	0.	2.925	6.25
74010	IRON, TOTAL (MG/L AS FE)	08/03/81-02/14/89	9	0.09	0.688	2.8	0.04	1.083	1.041	0.04	0.065	1.445	2.8

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

EPA Water Quality Criteria Analysis for Station: BRCA0094

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	11	0	0.00	7	0	0.00				4	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	13	1	0.08	6	1	0.17				7	0	0.00			
00400	PH	Fresh Chronic	9.	13	3	0.23	6	2	0.33				7	1	0.14			
		Other-Lo Lim.	6.5	13	0	0.00	6	0	0.00				7	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	8	1	0.13	5	1	0.20				3	0	0.00			
		Other-Lo Lim.	6.5	8	0	0.00	5	0	0.00				3	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	7	0	0.00	4	0	0.00				3	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	6	0	0.00	3	0	0.00				3	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	7	0	0.00	4	0	0.00				3	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	6	0	0.00	3	0	0.00				3	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	2	0	0.00				1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00							2	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	7	0	0.00	5	0	0.00				2	0	0.00			
		Drinking Water	250.	7	0	0.00	5	0	0.00				2	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	2	0	0.00				2	0	0.00			
		Drinking Water	250.	4	0	0.00	2	0	0.00				2	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	11	0	0.00	7	0	0.00				4	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
01005	BARIUM, DISSOLVED	Drinking Water	2000.	2	0	0.00	2	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: BRCA0094

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01007	BARIUM, TOTAL	Drinking Water	2000.	6	0	0.00	6	0	0.00									
01027	CADMIUM, TOTAL	Fresh Acute	3.9	2	0	0.00	2	0	0.00									
		Drinking Water	5.	2	0	0.00	2	0	0.00									
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	2	0	0.00									
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00	2	0	0.00									
		Drinking Water	1300.	2	0	0.00	2	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	6	0	0.00	6	0	0.00									
		Drinking Water	1300.	6	0	0.00	6	0	0.00									
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	2	0	0.00									
		Drinking Water	15.	2	0	0.00	2	0	0.00									
01067	NICKEL, TOTAL	Fresh Acute	1400.	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01077	SILVER, TOTAL	Fresh Acute	4.1	2	0	0.00	2	0	0.00									
		Drinking Water	100.	2	0	0.00	2	0	0.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00	2	0	0.00									
		Drinking Water	5000.	2	0	0.00	2	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	6	0	0.00	6	0	0.00									
		Drinking Water	5000.	6	0	0.00	6	0	0.00									
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	2	0	0.00									
		Drinking Water	50.	2	0	0.00	2	0	0.00									
31506	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C	Other-Hi Lim.	1000.	3	0	0.00	2	0	0.00				1	0	0.00			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	3	0	0.00	2	0	0.00				1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	2	0	0.00									
		Drinking Water	2.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: BRCA0095

NPS Station ID: BRCA0095 | LAT/LON: 37.598059/-112.253060 | Agency: 11EPALES | Date Created: / /
Location: TROPIC RESERVOIR | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): 492301
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 16030001 | Depth of Water: 3 | Aquifer:
Major Basin: | Elevation: 0 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 16030001 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
1/4 MILE FR S END OF LAKE; EQUIDISTANT BETWEEN SHORES. COMMENTS: 5-8 ULE 18; 1% LIGHT, 1.0M; NO INTEG, 80% COVERED W/ICE.
NOT SAMPLED 2ND ROUND. 9-25 ULE 15; SURF SAMPLE ONLY; WEEDY BOTTOM; 1% LIGHT, BOTTOM PLUS; DEPTH 4 FT.
MAP: TROPHIC RES QUAD

Parameter Inventory for Station: BRCA0095

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/08/75-09/25/75	2	8.9	8.9	13.5	4.3	42.32	6.505	**	**	**	**
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	09/25/75-09/25/75	1	98.	98.	98.	98.	0.	0.	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/08/75-09/25/75	2	30.	30.	48.	12.	648.	25.456	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/08/75-09/25/75	2	246.	246.	247.	245.	2.	1.414	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	05/08/75-09/25/75	2	9.7	9.7	10.4	9.	0.98	0.99	**	**	**	**
00400	PH (STANDARD UNITS)	05/08/75-09/25/75	2	8.625	8.625	8.85	8.4	0.101	0.318	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/08/75-09/25/75	2	8.569	8.569	8.85	8.4	0.107	0.328	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/08/75-09/25/75	2	0.003	0.003	0.004	0.001	0.	0.002	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/08/75-09/25/75	2	217.5	217.5	242.	193.	1200.5	34.648	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/08/75-09/25/75	2 ##	0.02	0.02	0.03	0.01	0.	0.014	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/08/75-09/25/75	2	0.45	0.45	0.6	0.3	0.045	0.212	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/08/75-09/25/75	2 ##	0.045	0.045	0.08	0.01	0.002	0.049	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/08/75-09/25/75	2	0.02	0.02	0.026	0.013	0.	0.009	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	05/08/75-09/25/75	2 ##	0.004	0.004	0.006	0.001	0.	0.004	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	05/08/75-09/25/75	2	9.	9.	17.	1.	128.	11.314	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	05/08/75-09/25/75	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0095

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 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	Fresh Chronic	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						

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

Station Inventory for Station: BRCA0096

NPS Station ID: BRCA0096
LAT/LON: 37.603337/-112.127781
Agency: 112WRD
Date Created: 06/20/87
Location: (C-37- 3) 9BCB-S1
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 373612112074001
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0096

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/81-10/21/81	1	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/21/81-10/21/81	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/21/81-10/21/81	1	560.	560.	560.	560.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/21/81-10/21/81	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/21/81-10/21/81	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/21/81-10/21/81	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/21/81-10/21/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/21/81-10/21/81	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/21/81-10/21/81	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/21/81-10/21/81	1 ##	0.045	0.045	0.045	0.045	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/21/81-10/21/81	1	290.	290.	290.	290.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/21/81-10/21/81	1	65.	65.	65.	65.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/21/81-10/21/81	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/21/81-10/21/81	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/21/81-10/21/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/21/81-10/21/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/21/81-10/21/81	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/21/81-10/21/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/21/81-10/21/81	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/21/81-10/21/81	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/21/81-10/21/81	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/21/81-10/21/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/21/81-10/21/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/21/81-10/21/81	1	18.	18.	18.	18.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/21/81-10/21/81	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: BRCA0096

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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	Fresh Chronic	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: BRCA0096

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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: BRCA0097

NPS Station ID: BRCA0097 | LAT/LON: 37.603476/-112.127670 | Agency: 11NPSWRD | Date Created: 11/21/98
Location: MERRILL RANCH SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_USGS_MRS
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: MIDDLE COLORADO RIVER-SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. MERRILL RANCH SPRING IS LOCATED OUTSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE 1963 UNITED STATES GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1475-M "GROUND-WATER RESOURCES OF THE BRYCE CANYON NATIONAL AREA; UTAH" BY I. WENDELL MARINE IN COOPERATION WITH THE NATIONAL PARK SERVICE. THE OBJECTIVES OF THE REPORT WERE "TO DETERMINE THE QUANTITY; QUALITY; AND DEPENDABILITY OF ALL POSSIBLE SOURCES OF WATER SUPPLY FOR THE PARK." THE LATITUDE AND LONGITUDE FOR EACH STATION WERE DETERMINED BY DIGITIZING OFF OF PLATE 2 WHICH IS INCLUDED IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0097

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	06/21/58-06/21/58	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/18/57-05/18/57	1	557.	557.	557.	557.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/28/56-05/18/57	2	8.	8.	8.1	7.9	0.02	0.141	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/28/56-05/18/57	2	7.989	7.989	8.1	7.9	0.02	0.142	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/28/56-05/18/57	2	0.01	0.01	0.013	0.008	0.	0.003	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/28/56-05/18/57	2	342.5	342.5	344.	341.	4.5	2.121	**	**	**	**
00901	HARDNESS, CARBONATE (MG/L AS CACO3)	10/28/56-05/18/57	2	327.5	327.5	343.	312.	480.5	21.92	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/18/57-05/18/57	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/28/56-05/18/57	2	61.	61.	69.	53.	128.	11.314	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/28/56-05/18/57	2	42.5	42.5	51.	34.	144.5	12.021	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	10/28/56-05/18/57	2	12.9	12.9	23.	2.8	204.02	14.284	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/28/56-05/18/57	2	7.5	7.5	12.	3.	40.5	6.364	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/28/56-05/18/57	2	58.5	58.5	84.	33.	1300.5	36.062	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/28/56-10/28/56	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/28/56-05/18/57	2	10.5	10.5	11.	10.	0.5	0.707	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/28/56-10/28/56	1	160.	160.	160.	160.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/28/56-05/18/57	2	362.	362.	403.	321.	3362.	57.983	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/28/56-05/18/57	2	0.55	0.55	1.1	0.	0.605	0.778	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0097

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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			
00941	CHLORIDE, DISSOLVED 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			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0098

NPS Station ID: BRCA0098 | LAT/LON: 37.603781/-112.134198 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: SPRING AT MERRILL RANCH #2 | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_29
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING AT MERRILL RANCH #2 IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/13/68-08/13/68	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/13/68-08/13/68	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/13/68-08/13/68	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/68-08/13/68	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/68-08/13/68	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/13/68-08/13/68	1	298.	298.	298.	298.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/13/68-08/13/68	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/13/68-08/13/68	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/13/68-08/13/68	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/13/68-08/13/68	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/13/68-08/13/68	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/13/68-08/13/68	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/13/68-08/13/68	1	130.	130.	130.	130.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/13/68-08/13/68	1	275.	275.	275.	275.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/13/68-08/13/68	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: BRCA0098

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0099

NPS Station ID: BRCA0099 LAT/LON: 37.604392/-112.134170 Agency: 11NPSWRD Date Created: 12/05/98
Location: SPRING AT MERRILL HOLLOW NORTH FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_UU_28
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 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: 14070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING AT MERRILL HOLLOW NORTH IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0099

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/13/68-08/13/68	1	56.	56.	56.	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 time series plot

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

Station Inventory for Station: BRCA0100

NPS Station ID: BRCA0100
LAT/LON: 37.606809/-112.214615
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDBH503R
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BRCA_NURE_51 /5075790
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/11/80-07/11/80	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/11/80-07/11/80	1	425.	425.	425.	425.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/11/80-07/11/80	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/11/80-07/11/80	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/11/80-07/11/80	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/11/80-07/11/80	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/11/80-07/11/80	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/11/80-07/11/80	1	4.8	4.8	4.8	4.8	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/11/80-07/11/80	1	2.	2.	2.	2.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/11/80-07/11/80	1	0.792	0.792	0.792	0.792	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/11/80-07/11/80	1	84.	84.	84.	84.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/11/80-07/11/80	1	3600.	3600.	3600.	3600.	0.	0.	**	**	**	**
82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/11/80-07/11/80	1	9400.	9400.	9400.	9400.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0100

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0101

NPS Station ID: BRCA0101 LAT/LON: 37.606948/-112.159171 Agency: 11NPSWRD Date Created: 10/17/98
Location: PEEK-A-BOO LOOP TRAIL PUBLIC WATER FOUNTAIN FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_NPS_BOO
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 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: 14070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. PEEK-A-BOO LOOP TRAIL PUBLIC WATER FOUNTAIN IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. WATER IS PIPED TO THE FOUNTAIN FROM A SOURCE LOCATED UNDER THE RIM BENEATH BRYCE POINT. DATA ARE FROM "A WATER QUALITY SURVEY OF THE BACK-COUNTRY IN BRYCE CANYON NATIONAL PARK" BY R. STEVEN NAKASHIMA; AN ENVIRONMENTAL HEALTH SPECIALIST IN THE SUMMER OF 1981. THE STUDY OBJECTIVE WAS TO "DETERMINE THE BACTERIAL QUALITY OF MAJOR BACK-COUNTRY WATER SOURCES." FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717-0001 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0101

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	07/20/81-07/20/81	1 ##	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	07/20/81-07/20/81	1 ##	1.061	1.061	1.061	1.061	0.	0.	**	**	**	**
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			11.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/20/81-07/20/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/20/81-07/20/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			1.								

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

EPA Water Quality Criteria Analysis for Station: BRCA0101

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0102

NPS Station ID: BRCA0102 | LAT/LON: 37.607392/-112.133642 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: BIG BIRCH SPRING | | FIPS State/County: 49017 UTAH/GARFIELD |
Station Type: /TYPA/AMBNT/SPRING | | STORET Station ID(s): BRCA_UU_24 |
RMI-Indexes: | | Within Park Boundary: Yes |
RMI-Miles: | | |
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:

Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. BIG BIRCH SPRING IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0102

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/13/68-08/13/68	1	53.	53.	53.	53.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BRCA0103

NPS Station ID: BRCA0103 | LAT/LON: 37.608004/-112.159559 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: PEAKABOO SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_013
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 7662 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. PEAKABOO SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0103

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/02/96-07/02/96	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/02/96-07/02/96	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/02/96-07/02/96	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/02/96-07/02/96	1	520.	520.	520.	520.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/02/96-07/02/96	1	480.	480.	480.	480.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/02/96-07/02/96	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/02/96-07/02/96	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/02/96-07/02/96	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	07/02/96-07/02/96	1	8.16	8.16	8.16	8.16	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/02/96-07/02/96	1	8.16	8.16	8.16	8.16	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/02/96-07/02/96	1	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	07/02/96-07/02/96	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	07/02/96-07/02/96	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/02/96-07/02/96	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	07/02/96-07/02/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	07/02/96-07/02/96	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/02/96-07/02/96	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/02/96-07/02/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00953	FLUORINE,TOTAL UG/L	07/02/96-07/02/96	1	310.	310.	310.	310.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	07/02/96-07/02/96	1	300.	300.	300.	300.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	07/02/96-07/02/96	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/02/96-07/02/96	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: BRCA0103

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034	CHROMIUM, TOTAL (UG/L AS CR)	07/02/96-07/02/96	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01037	COBALT, TOTAL (UG/L AS CO)	07/02/96-07/02/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	07/02/96-07/02/96	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	07/02/96-07/02/96	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	07/02/96-07/02/96	1	700.	700.	700.	700.	0.	0.	**	**	**	**
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	07/02/96-07/02/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	07/02/96-07/02/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	07/02/96-07/02/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	07/02/96-07/02/96	1	165.	165.	165.	165.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/02/96-07/02/96	1	3.	3.	3.	3.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	07/02/96-07/02/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
45635	HARDNESS, MAGNESIUM, AS CAC03, WATER, WHOLE, MG/L	07/02/96-07/02/96	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
46123	IRON, FERROUS, AS FE MG/L	07/02/96-07/02/96	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
70294	RESIDUE,TOTAL DISS,UNSPEC CALC BASED ON COND MG/L	07/02/96-07/02/96	1	312.	312.	312.	312.	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/02/96-07/02/96	1	388.	388.	388.	388.	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/02/96-07/02/96	1	0.08	0.08	0.08	0.08	0.	0.	**	**	**	**
71855	NITRITE NITROGEN,TOTAL (MG/L AS NO2)	07/02/96-07/02/96	1	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
71865	IODIDE (MG/L AS I)	07/02/96-07/02/96	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71870	BROMIDE (MG/L AS BR)	07/02/96-07/02/96	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	07/02/96-07/02/96	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	07/02/96-07/02/96	1	0.009	0.009	0.009	0.009	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/02/96-07/02/96	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
82233	SILICON (SI) TOTAL IN WATER MG/L AS (SIO2)	07/02/96-07/02/96	1	7.4	7.4	7.4	7.4	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: BRCA0103

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	1	0	0.00							1	0	0.00			
		Other-Lo Lim.	6.5	1	0	0.00							1	0	0.00			
00406	PH, FIELD	Fresh Chronic	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			
00953	FLUORINE, TOTAL	Drinking Water	4000.	1	0	0.00							1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	1	1	1.00							1	1	1.00			
		Drinking Water	5.	1	1	1.00							1	1	1.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00							1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	1	0	0.00							1	0	0.00			
		Drinking Water	1300.	1	0	0.00							1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	1	0	0.00							1	0	0.00			
		Drinking Water	15.	1	1	1.00							1	1	1.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
		Drinking Water	100.	1	0	0.00							1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	1	1	1.00							1	1	1.00			
		Drinking Water	5000.	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			
71855	NITRITE NITROGEN, TOTAL (AS NO2)	Drinking Water	3.3	1	0	0.00							1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	1	1.00							1	1	1.00			
		Drinking Water	2.	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: BRCA0104

NPS Station ID: BRCA0104
LAT/LON: 37.609449/-112.060282
Agency: 112WRD
Date Created: 06/20/87
Location: (C-37- 3) 1DCD-S1
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 373634112033701
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/81-10/18/81	1	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/18/81-10/18/81	1	4.8	4.8	4.8	4.8	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/81-10/18/81	1	1240.	1240.	1240.	1240.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/81-10/18/81	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/81-10/18/81	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/81-10/18/81	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/18/81-10/18/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/18/81-10/18/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/81-10/18/81	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/18/81-10/18/81	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/81-10/18/81	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/81-10/18/81	1	96.	96.	96.	96.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/81-10/18/81	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/18/81-10/18/81	1	79.	79.	79.	79.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/18/81-10/18/81	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/18/81-10/18/81	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/81-10/18/81	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/18/81-10/18/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/18/81-10/18/81	1	320.	320.	320.	320.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/81-10/18/81	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/18/81-10/18/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/18/81-10/18/81	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/18/81-10/18/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/18/81-10/18/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/18/81-10/18/81	1	790.	790.	790.	790.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0104

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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	Fresh Chronic	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: BRCA0104

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0105

NPS Station ID: BRCA0105 | LAT/LON: 37.609642/-112.060060 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: SPRING AT CANNONVILLE TOWN #1 | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_27
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: MIDDLE COLORADO RIVER-SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE CANNONVILLE UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING AT CANNONVILLE TOWN #1 IS LOCATED OUTSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0105

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/09/68-08/09/68	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/09/68-08/09/68	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/09/68-08/09/68	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/09/68-08/09/68	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/09/68-08/09/68	1	370.	370.	370.	370.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/09/68-08/09/68	1	900.	900.	900.	900.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/09/68-08/09/68	1	121.	121.	121.	121.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/09/68-08/09/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/09/68-08/09/68	1	180.	180.	180.	180.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/09/68-08/09/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/09/68-08/09/68	1	335.	335.	335.	335.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/09/68-08/09/68	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/09/68-08/09/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/09/68-08/09/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/09/68-08/09/68	1	343.	343.	343.	343.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/09/68-08/09/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
74070	FLOW GAL/SEC	08/09/68-08/09/68	1	6.	6.	6.	6.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0105

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0106

NPS Station ID: BRCA0106 | LAT/LON: 37.609698/-112.060088 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: SPRING AT CANNONVILLE #2 | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_26
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: MIDDLE COLORADO RIVER-SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE CANNONVILLE UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING AT CANNONVILLE #2 IS LOCATED OUTSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0106

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400	PH (STANDARD UNITS)	08/14/67-08/14/67	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/14/67-08/14/67	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/14/67-08/14/67	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/14/67-08/14/67	1	353.	353.	353.	353.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/14/67-08/14/67	1	892.	892.	892.	892.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/14/67-08/14/67	1	122.	122.	122.	122.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/14/67-08/14/67	1	70.	70.	70.	70.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/14/67-08/14/67	1	62.	62.	62.	62.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/14/67-08/14/67	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/14/67-08/14/67	1	320.	320.	320.	320.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/14/67-08/14/67	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/14/67-08/14/67	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/14/67-08/14/67	1	2200.	2200.	2200.	2200.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/14/67-08/14/67	1	568.	568.	568.	568.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/14/67-08/14/67	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0106

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	1	1.00	1	1	1.00									
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0107

NPS Station ID: BRCA0107 LAT/LON: 37.609726/-112.251393 Agency: 113FORS4 Date Created: 04/02/83
Location: TROPIC RESERVOIR - ACROSS FROM PARKING LOT FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 070302A /16030002302A/021070302A /P36
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: GREAT BASIN Elevation: 0 Water Body Id:
Minor Basin: SEVIER RIVER - EAST FORK SEVIER RIVER ECO Region:
RF1 Index: 16030002020 RF1 Mile Point: 16.400 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
FOR MORE INFORMATION, CONTACT; FOREST HYDROLOGIST, DIXIE NATIONAL FOREST, 435-865-3733...

Parameter Inventory for Station: BRCA0107

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/77-07/25/79	6	19.25	17.1	20.8	11.3	19.42	4.407	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/26/76-08/20/76	4	68.5	68.	72.	63.	18.	4.243	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/26/76-07/25/79	10	11.45	10.55	21.	2.1	43.583	6.602	2.25	4.05	14.5	20.92
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/26/76-07/25/79	10	245.5	288.3	532.	161.	13436.456	115.916	163.7	208.25	377.5	519.4
00300	OXYGEN, DISSOLVED MG/L	05/26/76-07/25/79	10	10.65	10.6	13.1	8.	3.109	1.763	8.06	8.75	12.15	13.08
00400	PH (STANDARD UNITS)	05/26/76-07/25/79	10	8.65	8.65	9.2	7.9	0.198	0.445	7.94	8.3	9.2	9.2
00400	CONVERTED PH (STANDARD UNITS)	05/26/76-07/25/79	10	8.647	8.456	9.2	7.9	0.24	0.49	7.94	8.3	9.2	9.2
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/26/76-07/25/79	10	0.002	0.003	0.013	0.001	0.	0.004	0.001	0.001	0.005	0.012
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/26/76-06/21/79	9	0.07	0.067	0.121	0.01	0.002	0.041	0.01	0.031	0.106	0.121
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/26/76-06/21/79	9	0.04	0.127	0.73	0.005	0.053	0.23	0.005	0.03	0.115	0.73
01045	IRON, TOTAL (UG/L AS FE)	04/21/77-07/15/77	3	130.	128.	194.	60.	4492.	67.022	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/21/77-07/15/77	3 ##	0.5	7.	20.	0.5	126.75	11.258	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	05/18/79-07/25/79	2	22.	22.	40.	4.	648.	25.456	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	05/18/79-07/25/79	2	1.102	1.102	1.602	0.602	0.5	0.707	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			12.649								
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/26/76-07/25/79	9	0.5	3.111	22.	0.	50.736	7.123	0.	0.25	2.	22.
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	05/26/76-07/25/79	9	-0.301	0.082	1.342	-0.301	0.286	0.534	0.	-0.151	0.301	1.342
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			1.209								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/18/79-06/21/79	2	257.	257.	264.	250.	98.	9.899	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0107

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	10	0	0.00	4	0	0.00	1	0	0.00	5	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	10	0	0.00	4	0	0.00	1	0	0.00	5	0	0.00			
00400	PH	Fresh Chronic	9.	10	3	0.30	4	3	0.75	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			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	9	0	0.00	3	0	0.00	1	0	0.00	5	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00			
		Drinking Water	15.	3	1	0.33	1	0	0.00	1	1	1.00	1	0	0.00			

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

EPA Water Quality Criteria Analysis for Station: BRCA0107

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	2	0	0.00	1	0	0.00				1	0	0.00			
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	9	0	0.00	4	0	0.00	1	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: BRCA0108

NPS Station ID: BRCA0108 LAT/LON: 37.610142/-112.060559 Agency: 21UTDHDW Date Created: 05/26/90
Location: CANNONVILLE - 2 MI NORTH FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/MUN/INTAKE/NONAMB/SPRING/SUPPLY STORET Station ID(s): 0900301 /UT4900140001
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: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
NOTE: THIS IS A PUBLIC DRINKING WATER SOURCE * * * NOTE: THE SECONDARY STATION CODE IS EPA'S FRDS2 PWS-ID #
SYSTEM TYPE: COMMUNITY-POLITICAL SUBDIV SERVICE AREA TYPE: RESIDENTIAL AREA
ATE ENGINEER'S WATER USER CLAIM NUMBER IS: 89-1131

Parameter Inventory for Station: BRCA0108

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/12/80-11/30/83	3	0.9	0.9	1.5	0.3	0.36	0.6	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/12/80-11/30/83	3	775.	766.667	880.	645.	13858.333	117.721	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/12/80-11/30/83	3	8.1	8.067	8.4	7.7	0.123	0.351	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/12/80-11/30/83	3	8.1	7.974	8.4	7.7	0.136	0.369	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/12/80-11/30/83	3	0.008	0.011	0.02	0.004	0.	0.008	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	03/12/80-11/30/83	3	3.	6.	13.	2.	37.	6.083	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/12/80-11/30/83	3	318.	283.667	323.	210.	4076.333	63.846	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/12/80-11/30/83	3	384.	344.667	394.	256.	5921.333	76.95	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	03/12/80-03/12/80	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/08/80-11/30/83	2 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/12/80-11/30/83	3 ##	0.025	0.018	0.025	0.005	0.	0.012	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/12/80-11/30/83	3	0.4	0.533	0.8	0.4	0.053	0.231	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/12/80-11/30/83	3	410.	379.333	420.	308.	3841.333	61.978	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/12/80-11/30/83	3	88.	74.	88.	46.	588.	24.249	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/12/80-11/30/83	3	49.	48.333	49.	47.	1.333	1.155	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/12/80-11/30/83	3	25.	25.667	27.	25.	1.333	1.155	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/12/80-11/30/83	3	3.	3.	4.	2.	1.	1.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/12/80-11/30/83	3	9.	8.667	10.	7.	2.333	1.528	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/12/80-11/30/83	3	130.	98.333	150.	15.	5308.333	72.858	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/12/80-11/30/83	3	0.6	0.633	0.73	0.57	0.007	0.085	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/12/80-11/30/83	3	10.	10.667	12.	10.	1.333	1.155	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/12/80-11/30/83	3 ##	0.5	0.417	0.5	0.25	0.021	0.144	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	03/12/80-11/30/83	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	03/12/80-12/08/80	2	147.5	147.5	160.	135.	312.5	17.678	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/12/80-11/30/83	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	03/12/80-11/30/83	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/12/80-11/30/83	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/12/80-11/30/83	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/12/80-11/30/83	3 ##	2.5	3.333	5.	2.5	2.083	1.443	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/12/80-11/30/83	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/12/80-12/08/80	2 ##	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: BRCA0108

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01077	SILVER, TOTAL (UG/L AS AG)	03/12/80-11/30/83	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/12/80-11/30/83	3	17.	25.667	50.	10.	456.333	21.362	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/12/80-11/30/83	3 ##	0.5	0.417	0.5	0.25	0.021	0.144	**	**	**	**
01501	ALPHA, TOTAL	07/29/81-12/06/89	5	4.	4.	6.	2.	2.5	1.581	**	**	**	**
09501	RADIUM 226, TOTAL	07/29/81-07/29/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/12/80-11/30/83	3	484.	465.333	516.	396.	3861.333	62.14	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/12/80-11/30/83	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	03/12/80-11/30/83	3 ##	0.015	0.027	0.05	0.015	0.	0.02	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0108

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------7/10-2/19---------- Obs	Exceed	Prop.	----------2/20-5/09---------- Obs	Exceed	Prop.	----------5/10-7/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00	2	0	0.00	1	0	0.00						
00403	PH, LAB	Fresh Chronic	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						
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	3	0	0.00	2	0	0.00	1	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	3	0	0.00	2	0	0.00	1	0	0.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	250.	3	0	0.00	2	0	0.00	1	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	3	0	0.00	2	0	0.00	1	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	2	0	0.00	1	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	50.	3	0	0.00	2	0	0.00	1	0	0.00						
01007	BARIUM, TOTAL	Drinking Water	2000.	3	0	0.00	2	0	0.00	1	0	0.00						
01027	CADMIUM, TOTAL	Fresh Acute	3.9	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	5.	3	0	0.00	2	0	0.00	1	0	0.00						
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	100.	3	0	0.00	2	0	0.00	1	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	3	0	0.00	2	0	0.00	1	0	0.00						
01042	COPPER, TOTAL	Fresh Acute	18.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	1300.	3	0	0.00	2	0	0.00	1	0	0.00						
01051	LEAD, TOTAL	Fresh Acute	82.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	15.	3	0	0.00	2	0	0.00	1	0	0.00						
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	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	100.	3	0	0.00	2	0	0.00	1	0	0.00						
01092	ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	5000.	3	0	0.00	2	0	0.00	1	0	0.00						
01147	SELENIUM, TOTAL	Fresh Acute	20.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	50.	3	0	0.00	2	0	0.00	1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	2.	3	0	0.00	2	0	0.00	1	0	0.00						

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

Station Inventory for Station: BRCA0109

NPS Station ID: BRCA0109
LAT/LON: 37.610559/-112.061115
Agency: 112WRD
Date Created: 01/23/82
Location: (C-37- 3) 1DCA-S1
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 373638112034001
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0109

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/81-10/18/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/18/81-10/18/81	1	345.	345.	345.	345.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/81-10/18/81	1	825.	825.	825.	825.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/81-10/18/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/81-10/18/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/81-10/18/81	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/18/81-10/18/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/18/81-10/18/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/81-10/18/81	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/18/81-10/18/81	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/81-10/18/81	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/81-10/18/81	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/81-10/18/81	1	51.	51.	51.	51.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/18/81-10/18/81	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/18/81-10/18/81	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/18/81-10/18/81	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/81-10/18/81	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/18/81-10/18/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/18/81-10/18/81	1	130.	130.	130.	130.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/81-10/18/81	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/18/81-10/18/81	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/18/81-10/18/81	1	100.	100.	100.	100.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/18/81-10/18/81	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/18/81-10/18/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/18/81-10/18/81	1	498.	498.	498.	498.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0109

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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	Fresh Chronic	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: BRCA0109

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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: BRCA0110

NPS Station ID: BRCA0110
LAT/LON: 37.610559/-112.255003
Agency: 112WRD
Date Created: 06/20/87
Location: (C-37- 4) 5CCC-S1
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 373638112151801
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0110

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/24/81-05/23/82	3	7.5	7.333	7.5	7.	0.083	0.289	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	07/24/81-05/23/82	2	85.	85.	120.	50.	2450.	49.497	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/81-05/23/82	3	505.	506.667	530.	485.	508.333	22.546	**	**	**	**
00400	PH (STANDARD UNITS)	07/24/81-05/23/82	3	7.5	7.533	7.6	7.5	0.003	0.058	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/24/81-05/23/82	3	7.5	7.531	7.6	7.5	0.003	0.058	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/24/81-05/23/82	3	0.032	0.029	0.032	0.025	0.	0.004	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/24/81-05/23/82	2	8.05	8.05	8.2	7.9	0.045	0.212	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/24/81-05/23/82	2	8.025	8.025	8.2	7.9	0.046	0.215	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/24/81-05/23/82	2	0.009	0.009	0.013	0.006	0.	0.004	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/23/82-05/23/82	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	07/24/81-05/23/82	2	0.14	0.14	0.2	0.08	0.007	0.085	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/24/81-05/23/82	2	275.	275.	280.	270.	50.	7.071	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/23/82-05/23/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/24/81-05/23/82	2	36.	36.	37.	35.	2.	1.414	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/24/81-05/23/82	2	45.5	45.5	46.	45.	0.5	0.707	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/23/82-05/23/82	1	4.4	4.4	4.4	4.4	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	07/24/81-05/23/82	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	07/24/81-05/23/82	2	3.	3.	3.	3.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/24/81-05/23/82	2	1.	1.	1.1	0.9	0.02	0.141	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/24/81-05/23/82	2	5.5	5.5	6.	5.	0.5	0.707	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/24/81-05/23/82	2 ##	3.75	3.75	5.	2.5	3.125	1.768	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/24/81-05/23/82	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/24/81-05/23/82	2	6.75	6.75	6.8	6.7	0.005	0.071	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	07/24/81-07/24/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	07/24/81-05/23/82	2 ##	4.75	4.75	5.	4.5	0.125	0.354	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/24/81-05/23/82	2 ##	1.	1.	1.5	0.5	0.5	0.707	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	07/24/81-05/23/82	2	284.	284.	297.	271.	338.	18.385	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0110

			Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------n/a----------		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00400 PH	Fresh Chronic	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			

& - 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: BRCA0110

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	9.	2	0	0.00	1	0	0.00				1	0	0.00			
		Other-Lo Lim.	6.5	2	0	0.00	1	0	0.00				1	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0111

NPS Station ID: BRCA0111
LAT/LON: 37.610809/-112.255310
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDBG040R
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): BRCA_NURE_47 /5083876
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC RESERVOIR UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A STREAM AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/80-07/22/80	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/22/80-07/22/80	1	480.	480.	480.	480.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/22/80-07/22/80	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/22/80-07/22/80	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/80-07/22/80	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/22/80-07/22/80	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/22/80-07/22/80	1	14.8	14.8	14.8	14.8	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/22/80-07/22/80	1	9.23	9.23	9.23	9.23	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/22/80-07/22/80	1	54.	54.	54.	54.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/22/80-07/22/80	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/22/80-07/22/80	1	302.	302.	302.	302.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/22/80-07/22/80	1	0.537	0.537	0.537	0.537	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	1	40.	40.	40.	40.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	1	3400.	3400.	3400.	3400.	0.	0.	**	**	**	**
82331	DYSPROSIUM, DISSOLVED AS DY IN WATER UG/L	07/22/80-07/22/80	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: BRCA0111

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0112

NPS Station ID: BRCA0112
LAT/LON: 37.610838/-112.255003
Agency: 21UTAH
Date Created: 02/20/82
Location: KINGS CANYON CK AB TROPIC RES
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 594643 /4937
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER R DRAINAGE
ECO Region:
RF1 Index: 16030002020
RF1 Mile Point: 16.400
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0112

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: BRCA0113

NPS Station ID: BRCA0113
LAT/LON: 37.611115/-112.250281
Agency: 21UTAH
Date Created: 11/23/85
Location: TROPIC RES AB DAM 01
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 494934
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVEIR RIVER
ECO Region:
RF1 Index: 16030002020
RF1 Mile Point: 16.260
Distance from RF1: 0.00
On/Off RF1: OFF
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
HYDROLOGIC CATALOGING UNIT-16030002
UTAH STATE CLASSIFICATION-2B,3A,4

Parameter Inventory for Station: BRCA0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/79-08/12/97	49	15.2	13.331	19.5	0.6	21.75	4.664	4.3	12.3	16.3	17.2
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/13/91-08/13/91	2	26.	26.	26.	26.	0.	0.	**	**	**	**
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/79-08/12/97	31	1.	1.874	7.	0.3	3.864	1.966	0.34	0.5	2.5	6.2
00078	TRANSPARENCY, SECCHI DISC (METERS)	06/20/79-08/12/97	16	3.	3.381	7.	0.2	3.346	1.829	0.97	1.925	4.9	6.16
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/20/79-08/12/97	49	404.	383.163	545.	240.	7085.181	84.174	263.	321.5	442.5	504.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/20/79-06/14/90	19	405.	385.737	533.	276.	5345.427	73.112	283.	330.	425.	520.
00300p	OXYGEN, DISSOLVED MG/L	06/20/79-08/12/97	49	8.2	7.733	14.5	0.	7.488	2.737	3.7	7.45	8.7	10.5
00335	COD, .025N K2CR2O7 MG/L	06/20/79-08/15/90	9	15.	13.	21.	5.	41.75	6.461	5.	7.	19.5	21.
00400p	PH (STANDARD UNITS)	06/20/79-08/12/97	47	8.5	8.583	10.8	6.7	0.612	0.782	7.68	8.	9.	9.54
00400p	CONVERTED PH (STANDARD UNITS)	06/20/79-08/12/97	47	8.5	7.984	10.8	6.7	0.978	0.989	7.68	8.	9.	9.54
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/79-08/12/97	47	0.003	0.01	0.2	0.	0.001	0.029	0.	0.001	0.01	0.021
00403p	PH, LAB, STANDARD UNITS SU	06/20/79-08/12/97	24	8.55	8.633	9.6	7.8	0.33	0.575	7.9	8.1	9.225	9.5
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/20/79-08/12/97	24	8.547	8.341	9.6	7.8	0.419	0.647	7.9	8.1	9.225	9.5
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/79-08/12/97	24	0.003	0.005	0.016	0.	0.	0.005	0.	0.001	0.008	0.013
00405p	CARBON DIOXIDE (MG/L AS CO2)	06/20/79-08/12/97	27	1.	1.704	7.	0.	4.447	2.109	0.	0.	3.	5.
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/79-08/12/97	31	203.	202.	296.	54.	2331.8	48.289	149.	167.	228.	262.4
00440p	BICARBONATE ION (MG/L AS HCO3)	06/20/79-08/12/97	27	232.	232.333	361.	60.	5466.231	73.934	117.4	182.	277.	309.2
00445p	CARBONATE ION (MG/L AS CO3)	06/20/79-08/12/97	27	0.	6.704	60.	0.	184.755	13.592	0.	0.	10.	28.2
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/19/81-08/12/97	23 ##	1.5	3.326	20.	1.5	20.377	4.514	1.5	1.5	2.	11.
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/79-08/12/97	44 ##	0.025	0.057	1.17	0.025	0.03	0.172	0.025	0.025	0.025	0.05
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-06/14/90	10 ##	0.005	0.006	0.01	0.005	0.	0.002	0.005	0.005	0.005	0.01
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/20/79-08/15/90	15 ##	0.005	0.014	0.05	0.005	0.	0.013	0.005	0.005	0.025	0.035
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-06/14/90	10 ##	0.005	0.015	0.1	0.005	0.001	0.03	0.005	0.005	0.005	0.091
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/20/79-08/15/90	15	0.05	0.058	0.2	0.005	0.003	0.058	0.005	0.005	0.1	0.146
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/79-06/10/97	29	0.2	0.289	1.6	0.05	0.094	0.307	0.1	0.1	0.3	0.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/20/79-09/05/79	4 ##	0.025	0.031	0.05	0.025	0.	0.013	**	**	**	**
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/30/91-08/12/97	24 ##	0.01	0.012	0.04	0.005	0.	0.008	0.005	0.01	0.01	0.025
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/79-08/12/97	43 ##	0.005	0.013	0.08	0.003	0.	0.016	0.005	0.005	0.017	0.025
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/30/91-06/10/97	22 ##	0.005	0.019	0.185	0.005	0.002	0.042	0.005	0.005	0.005	0.074
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/87-06/14/90	12 ##	0.003	0.006	0.048	0.003	0.	0.013	0.003	0.003	0.003	0.035
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/17/88-08/15/90	5	2.7	2.88	4.5	2.2	0.897	0.947	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)	08/17/88-08/17/88	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/20/79-08/12/97	34	204.	202.441	310.	55.	2254.981	47.487	153.5	171.	235.5	246.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/20/79-08/12/97	34	26.	28.909	60.	9.	247.911	15.745	9.7	13.	42.25	50.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/20/79-08/12/97	34	32.	31.662	39.	8.	23.166	4.813	28.5	30.75	34.	35.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	06/20/79-08/12/97	31	2.	2.255	8.	0.5	1.591	1.261	1.7	1.9	2.	3.

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

Parameter Inventory for Station: BRCA0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	06/20/79-08/12/97	31 ##	0.5	0.613	1.	0.5	0.045	0.213	0.5	0.5	0.5	1.
00940	CHLORIDE,TOTAL IN WATER MG/L	06/11/87-02/14/89	9	2.	1.889	4.	1.	0.861	0.928	1.	1.	2.	4.
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	06/20/79-08/12/97	22	1.5	1.477	3.	0.25	0.791	0.889	0.325	0.5	2.	3.
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	06/20/79-08/12/97	31	6.	6.313	17.	2.5	10.548	3.248	3.	5.	7.	10.4
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/20/79-09/05/79	5	0.14	0.144	0.16	0.13	0.	0.015	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/20/79-08/13/91	9	5.1	4.844	6.	2.3	2.298	1.516	2.3	3.6	6.	6.
01000	ARSENIC, DISSOLVED (UG/L AS AS)	08/31/93-08/12/97	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/20/79-08/13/91	12 ##	1.	1.375	2.5	0.5	0.733	0.856	0.5	0.625	2.5	2.5
01005	BARIUM, DISSOLVED (UG/L AS BA)	08/17/88-08/12/97	3	100.	100.333	110.	91.	90.333	9.504	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	06/20/79-08/13/91	16	105.	140.938	370.	25.	14480.729	120.336	25.	25.	217.5	356.
01020	BORON, DISSOLVED (UG/L AS B)	06/20/79-09/05/79	5	65.	58.	75.	25.	445.	21.095	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	08/31/93-08/12/97	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/20/79-08/13/91	12 ##	0.5	0.75	2.	0.5	0.341	0.584	0.5	0.5	0.5	2.
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	08/12/97-08/12/97	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/20/79-09/05/79	5 ##	2.5	7.	25.	2.5	101.25	10.062	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/20/79-08/13/91	12 ##	2.5	4.208	10.	1.5	12.339	3.513	1.5	2.5	8.125	10.
01040	COPPER, DISSOLVED (UG/L AS CU)	08/17/88-08/12/97	6 ##	8.	8.	10.	6.	4.8	2.191	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/20/79-08/13/91	16 ##	10.	138.75	2115.	2.5	277740.	527.01	2.5	3.125	10.	641.5
01046	IRON, DISSOLVED (UG/L AS FE)	06/11/87-08/12/97	9 ##	10.	208.889	1800.	10.	356011.111	596.667	10.	10.	10.	1800.
01049	LEAD, DISSOLVED (UG/L AS PB)	08/31/93-08/12/97	4 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/20/79-08/13/91	12 ##	2.5	4.167	12.5	2.5	15.152	3.892	2.5	2.5	2.5	12.5
01055	MANGANESE, TOTAL (UG/L AS MN)	06/20/79-08/13/91	16	6.	14.644	86.	2.5	454.017	21.308	2.5	2.5	15.	53.1
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/17/88-08/12/97	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/20/79-08/03/81	8 ##	10.	10.	20.	5.	28.571	5.345	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	08/12/97-08/12/97	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/20/79-08/13/91	12 ##	1.	1.625	2.5	1.	0.597	0.772	1.	1.	2.5	2.5
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/17/88-08/12/97	3 ##	10.	11.667	15.	10.	8.333	2.887	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/20/79-08/13/91	16 ##	10.	11.406	45.	2.5	110.807	10.527	2.5	5.	10.	31.
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/12/97-08/12/97	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	08/31/93-08/12/97	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/20/79-08/13/91	12 ##	0.5	0.833	2.5	0.5	0.606	0.778	0.5	0.5	0.5	2.5
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C	05/30/91-08/13/91	2 ##	11.	11.	20.	2.	162.	12.728	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,	05/30/91-08/13/91	2 ##	0.801	0.801	1.301	0.301	0.5	0.707	**	**	**	**
31501	GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3	GEOMETRIC MEAN =			6.325								
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	06/20/79-09/05/79	4 ##	25.75	38.25	90.	11.5	1370.75	37.024	**	**	**	**
31506	LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	06/20/79-09/05/79	4 ##	1.331	1.419	1.954	1.061	0.192	0.438	**	**	**	**
31506	GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			26.268								
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/30/91-08/13/91	2 ##	3.5	3.5	5.	2.	4.5	2.121	**	**	**	**
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	05/30/91-08/13/91	2 ##	0.5	0.5	0.699	0.301	0.079	0.281	**	**	**	**
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			3.162								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	06/20/79-09/05/79	2 ##	11.5	11.5	11.5	11.5	0.	0.	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	06/20/79-09/05/79	2 ##	1.061	1.061	1.061	1.061	0.	0.	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			11.5								
31672	FECAL STREPTOCOCCI,PLATE COUNT M-ENTER AGAR,35C48	05/30/91-08/13/91	2 ##	3.5	3.5	5.	2.	4.5	2.121	**	**	**	**
31672	LOG FECAL STREPTOCOCCI,PLATE COUNT M-ENTER AGAR,35	05/30/91-08/13/91	2 ##	0.5	0.5	0.699	0.301	0.079	0.281	**	**	**	**
31672	GM FECAL STREPTOCOCCI,PLATE COUNT M-ENTER AGAR,35C	GEOMETRIC MEAN =			3.162								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/11/87-08/12/97	17	0.9	1.203	5.	0.	2.055	1.434	0.	0.	2.	3.64
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/20/79-08/12/97	29	180.	157.241	306.	1.5	9037.011	95.063	1.5	92.	233.	254.
70324	SOLIDS, VOLATILE SUSPENDED IN MIXED LIQUOR (MG/L)	05/30/91-08/12/97	8	2.	2.125	4.5	0.	2.625	1.62	**	**	**	**
71830p	HYDROXIDE ION (MG/L AS OH)	06/20/79-08/12/97	27	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	06/20/79-08/15/90	8 ##	0.01	0.015	0.03	0.01	0.	0.008	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	08/31/93-08/12/97	4 ##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/20/79-08/13/91	12 ##	0.05	0.071	0.1	0.05	0.001	0.026	0.05	0.05	0.1	0.1
72015p	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	06/20/79-08/12/97	49	2.	2.712	8.	0.	6.205	2.491	0.	0.	4.5	6.
74010p	IRON, TOTAL (MG/L AS FE)	06/20/79-08/13/91	22	0.08	0.236	3.4	0.01	0.504	0.71	0.015	0.038	0.125	0.262

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

EPA Water Quality Criteria Analysis for Station: BRCA0113

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	31	0	0.00	16	0	0.00				15	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	49	5	0.10	24	3	0.13				25	2	0.08			
00400	PH	Fresh Chronic	9.	47	12	0.26	22	10	0.45				25	2	0.08			
		Other-Lo Lim.	6.5	47	0	0.00	22	0	0.00				25	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	24	8	0.33	13	8	0.62				11	0	0.00			
		Other-Lo Lim.	6.5	24	0	0.00	13	0	0.00				11	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	10	0	0.00	4	0	0.00				6	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	15	0	0.00	6	0	0.00				9	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	10	0	0.00	4	0	0.00				6	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	15	0	0.00	6	0	0.00				9	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			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	24	0	0.00	10	0	0.00				14	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	9	0	0.00	6	0	0.00				3	0	0.00			
		Drinking Water	250.	9	0	0.00	6	0	0.00				3	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	22	0	0.00	10	0	0.00				12	0	0.00			
		Drinking Water	250.	22	0	0.00	10	0	0.00				12	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	31	0	0.00	16	0	0.00				15	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	5	0	0.00	2	0	0.00				3	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	50.	4	0	0.00	3	0	0.00				1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	12	0	0.00	5	0	0.00				7	0	0.00			
		Drinking Water	50.	12	0	0.00	5	0	0.00				7	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	3	0	0.00	3	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	16	0	0.00	9	0	0.00				7	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	5.	4	0	0.00	3	0	0.00				1	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	12	0	0.00	5	0	0.00				7	0	0.00			
		Drinking Water	5.	12	0	0.00	5	0	0.00				7	0	0.00			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00	1	0	0.00									
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	5	1	0.20	2	0	0.00				3	1	0.33			
		Drinking Water	100.	5	0	0.00	2	0	0.00				3	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	12	0	0.00	5	0	0.00				7	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	6	0	0.00	5	0	0.00				1	0	0.00			
		Drinking Water	1300.	6	0	0.00	5	0	0.00				1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	16	1	0.06	9	0	0.00				7	1	0.14			
		Drinking Water	1300.	16	1	0.06	9	0	0.00				7	1	0.14			
01049	LEAD, DISSOLVED	Fresh Acute	82.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	15.	4	0	0.00	3	0	0.00				1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	12	0	0.00	5	0	0.00				7	0	0.00			
		Drinking Water	15.	12	0	0.00	5	0	0.00				7	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	8	0	0.00	3	0	0.00				5	0	0.00			
		Drinking Water	100.	8	0	0.00	3	0	0.00				5	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	12	0	0.00	5	0	0.00				7	0	0.00			
		Drinking Water	100.	12	0	0.00	5	0	0.00				7	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	3	0	0.00									
		Drinking Water	5000.	3	0	0.00	3	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	16	0	0.00	9	0	0.00				7	0	0.00			
		Drinking Water	5000.	16	0	0.00	9	0	0.00				7	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	50.	4	0	0.00	3	0	0.00				1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	12	0	0.00	5	0	0.00				7	0	0.00			
		Drinking Water	50.	12	0	0.00	5	0	0.00				7	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	2	0	0.00	1	0	0.00				1	0	0.00			
31506	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C	Other-Hi Lim.	1000.	4	0	0.00	1	0	0.00				3	0	0.00			
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	2	0	0.00	1	0	0.00				1	0	0.00			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	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

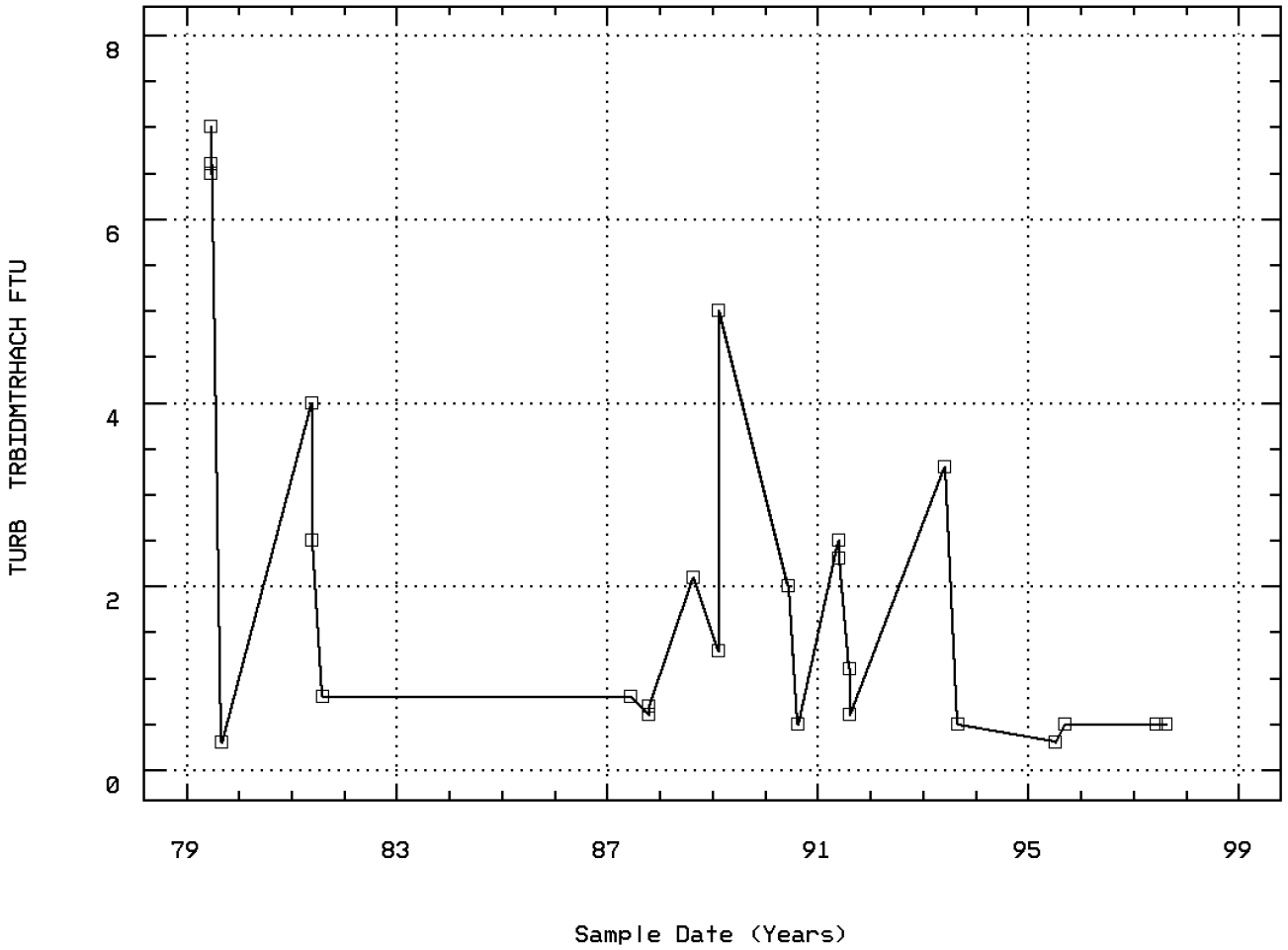
EPA Water Quality Criteria Analysis for Station: BRCA0113

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	4	0	0.00	3	0	0.00				1	0	0.00			
		Drinking Water	2.	4	0	0.00	3	0	0.00				1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	12	0	0.00	5	0	0.00				7	0	0.00			
		Drinking Water	2.	12	0	0.00	5	0	0.00				7	0	0.00			

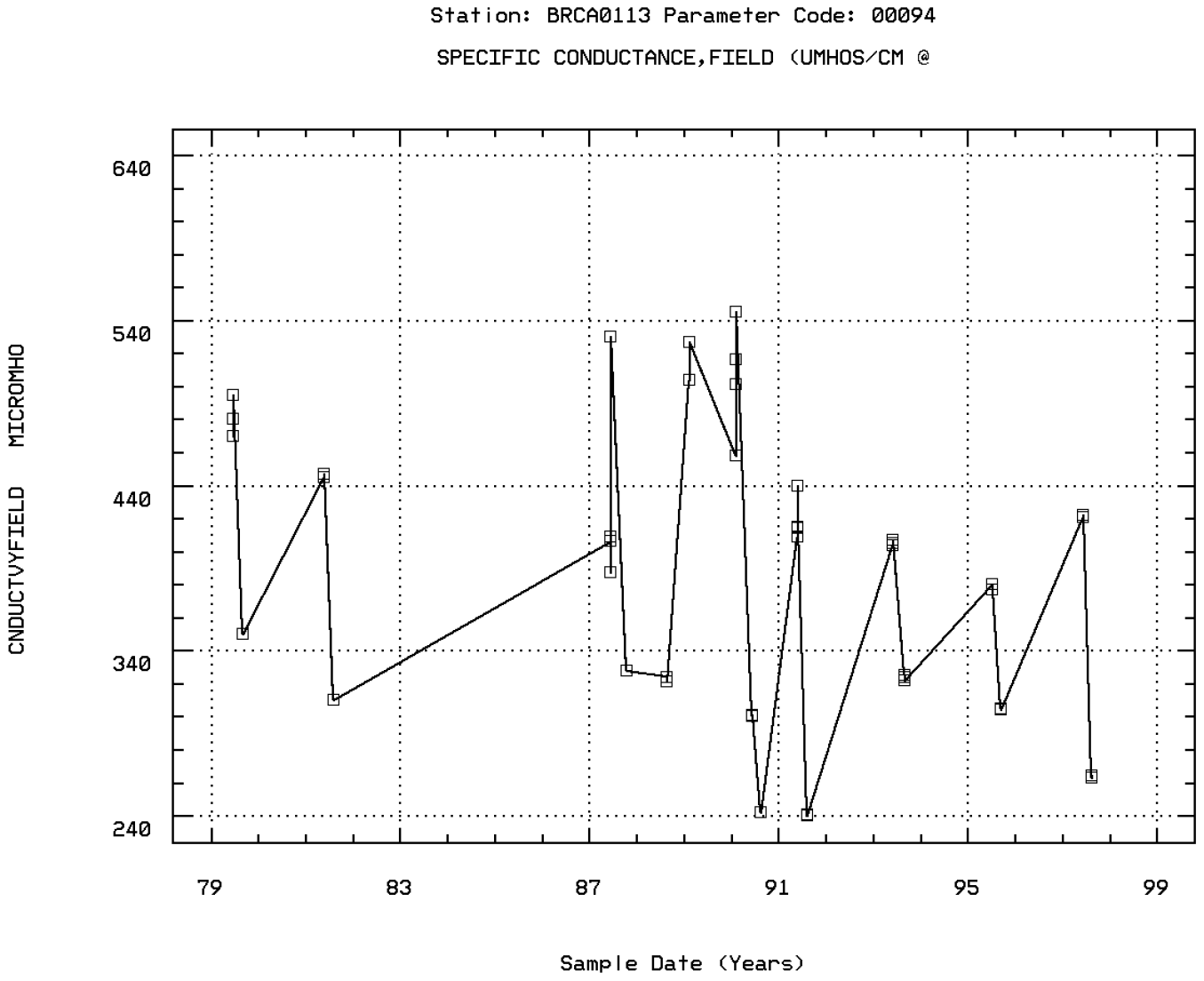
& - Below detection limit observations, for which half the detection limit exceeded the criterion, were excluded from the criterion comparison for this parameter

Station: BRCA0113 Parameter Code: 00076

TURBIDITY,HACH TURBIDIMETER (FORMAZIN T



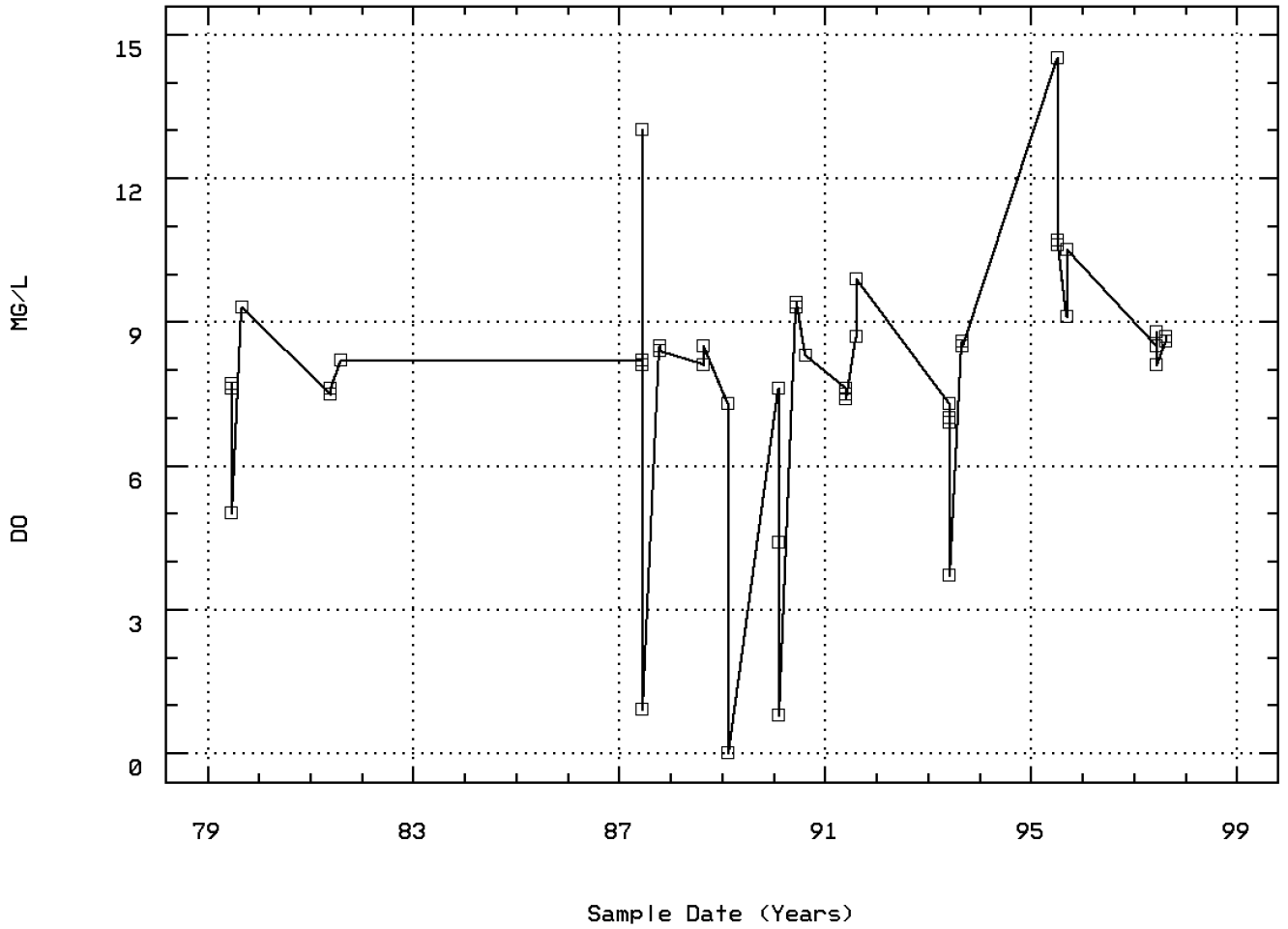
TROPIC RES AB DAM 01



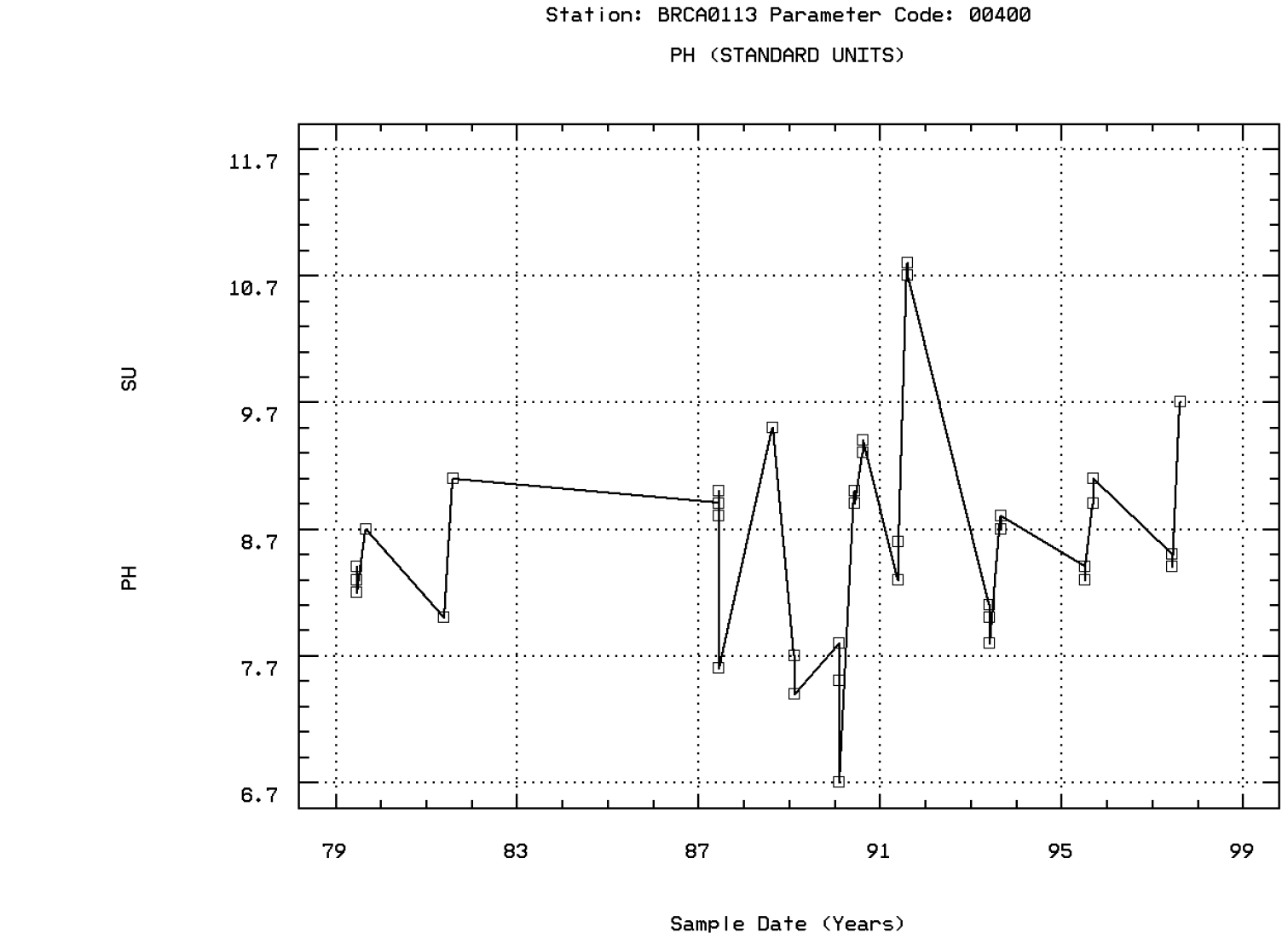
TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00300

OXYGEN, DISSOLVED



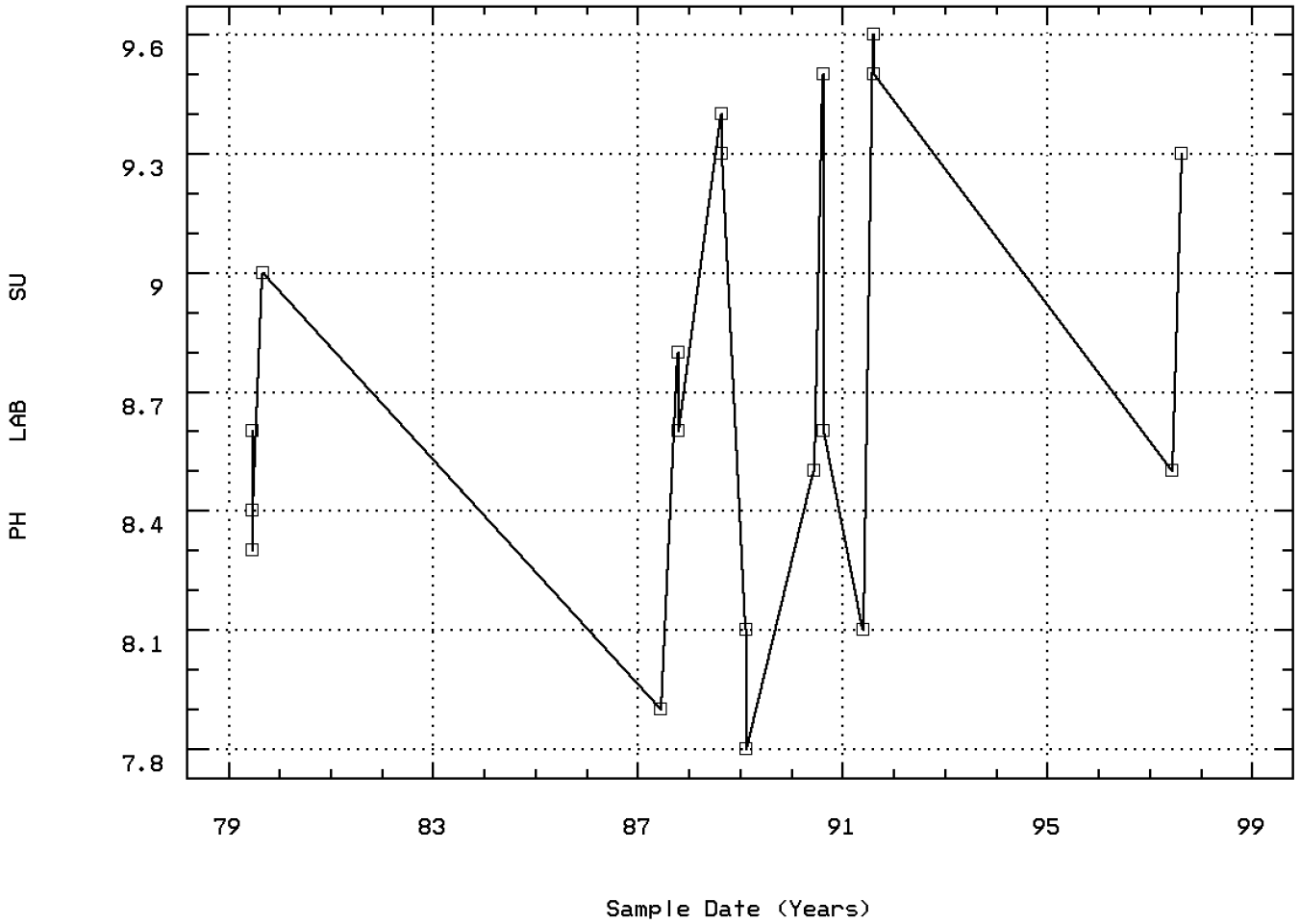
TROPIC RES AB DAM 01



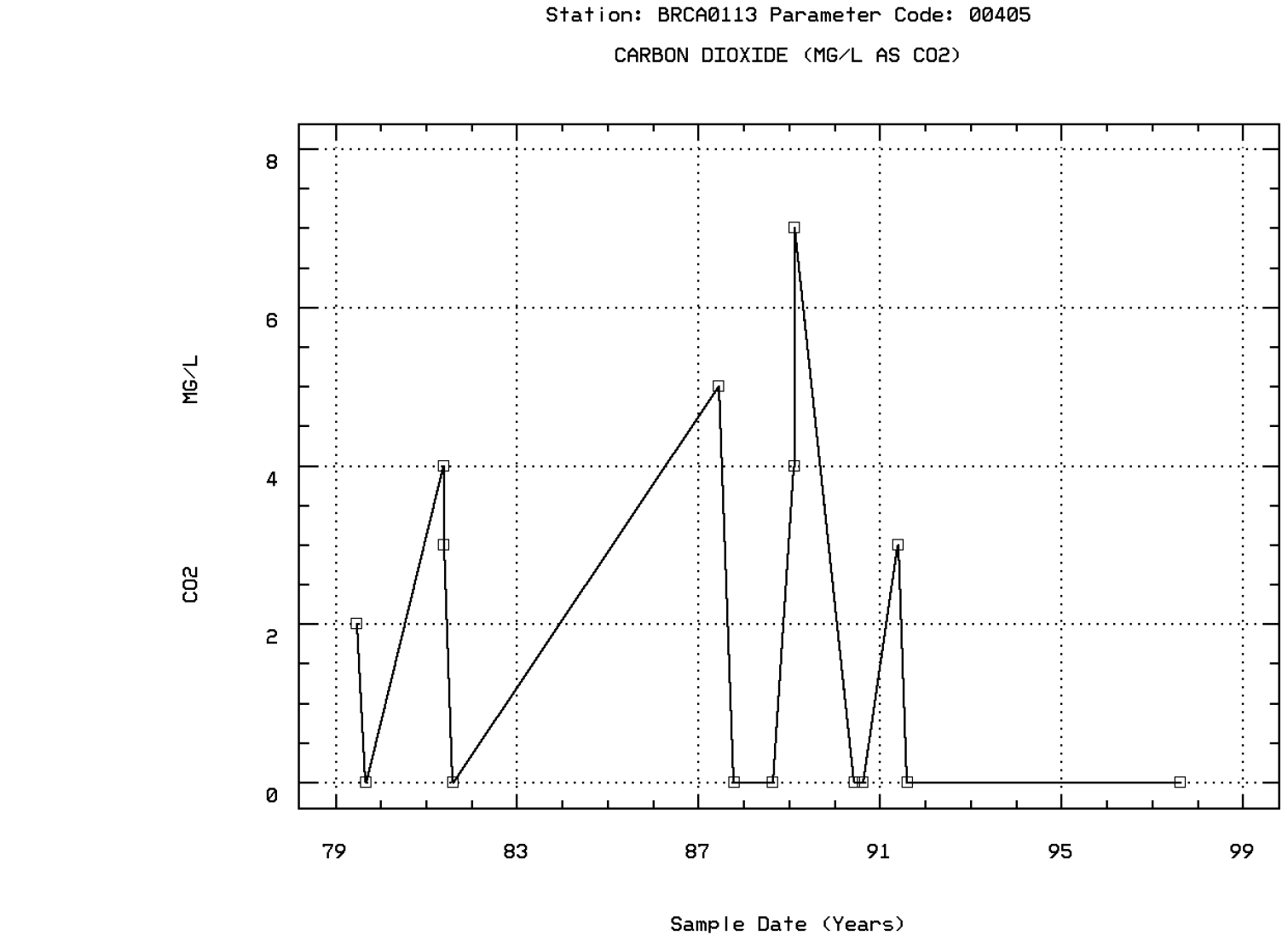
TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00403

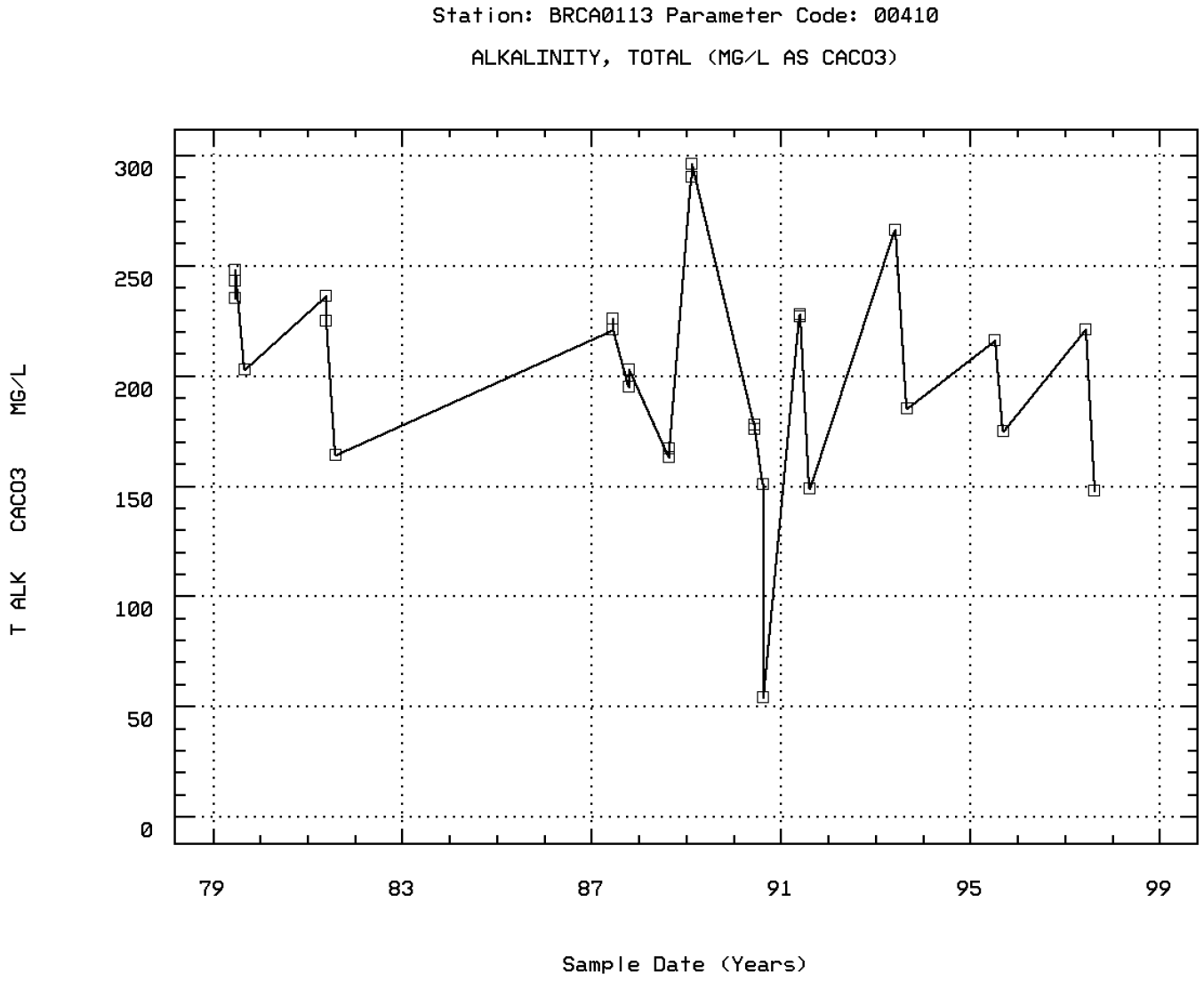
PH, LAB, STANDARD UNITS



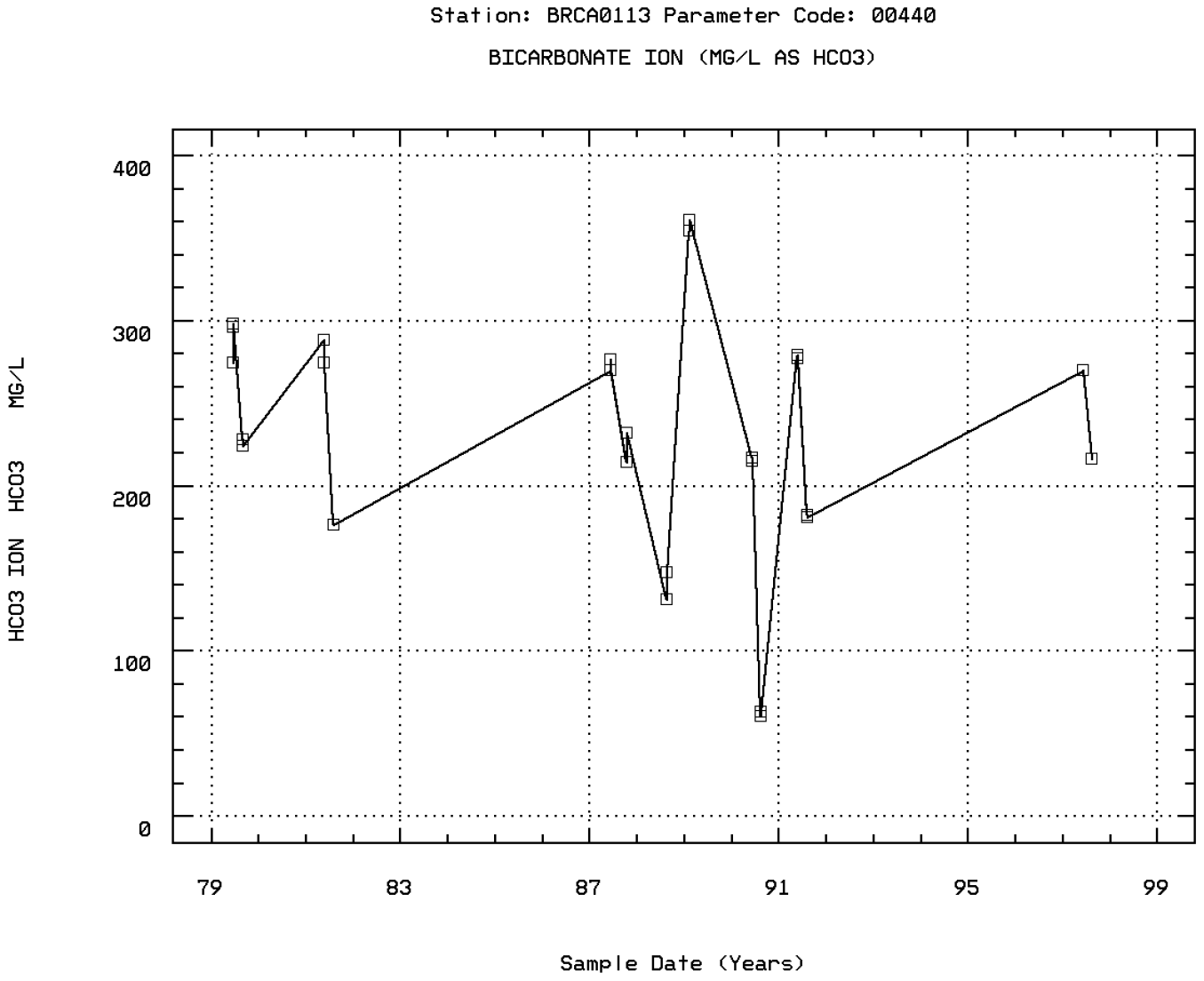
TROPIC RES AB DAM 01



TROPIC RES AB DAM 01



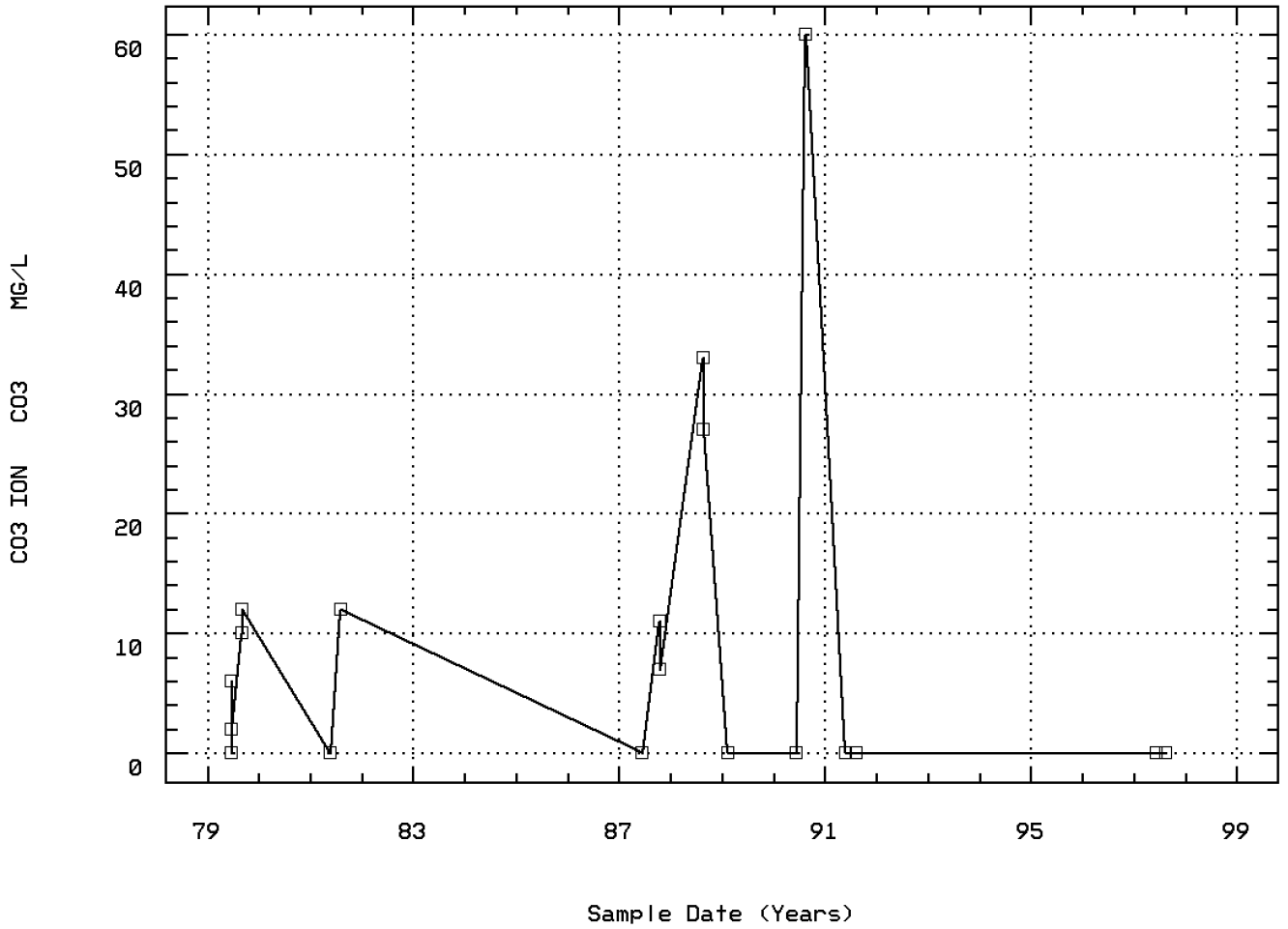
TROPIC RES AB DAM 01



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00445

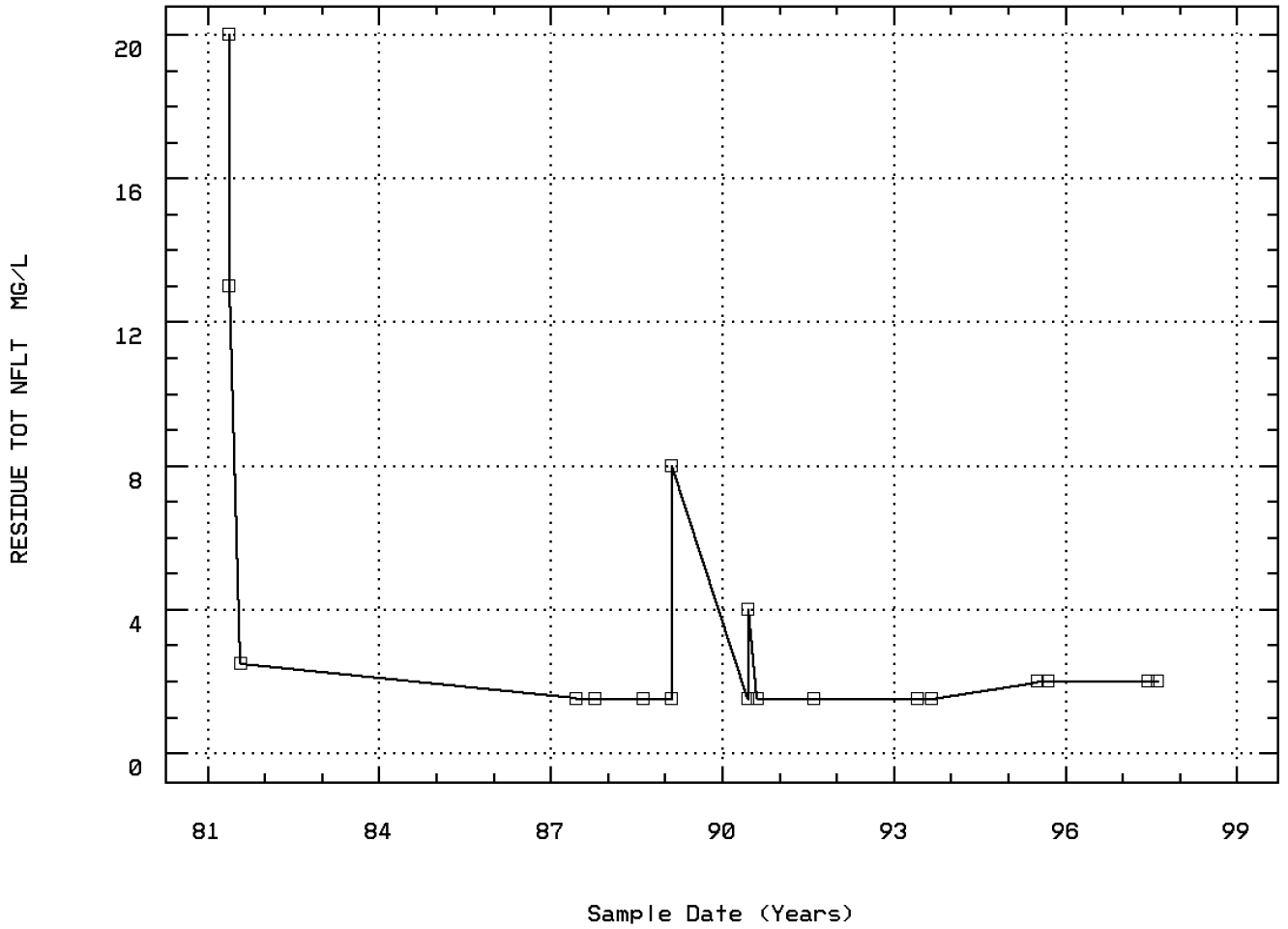
CARBONATE ION (MG/L AS CO3)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00530

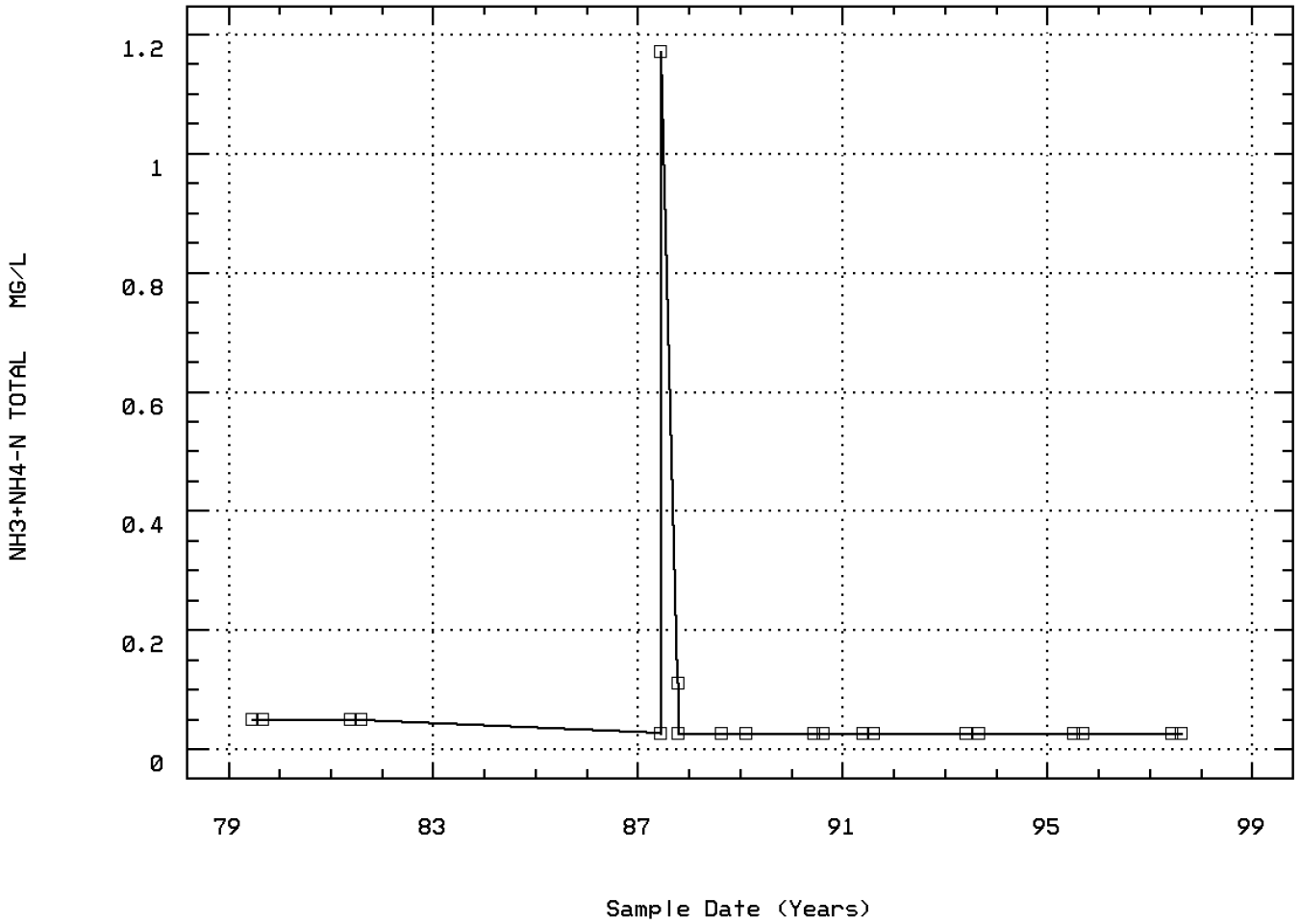
RESIDUE, TOTAL NONFILTRABLE (MG/L)



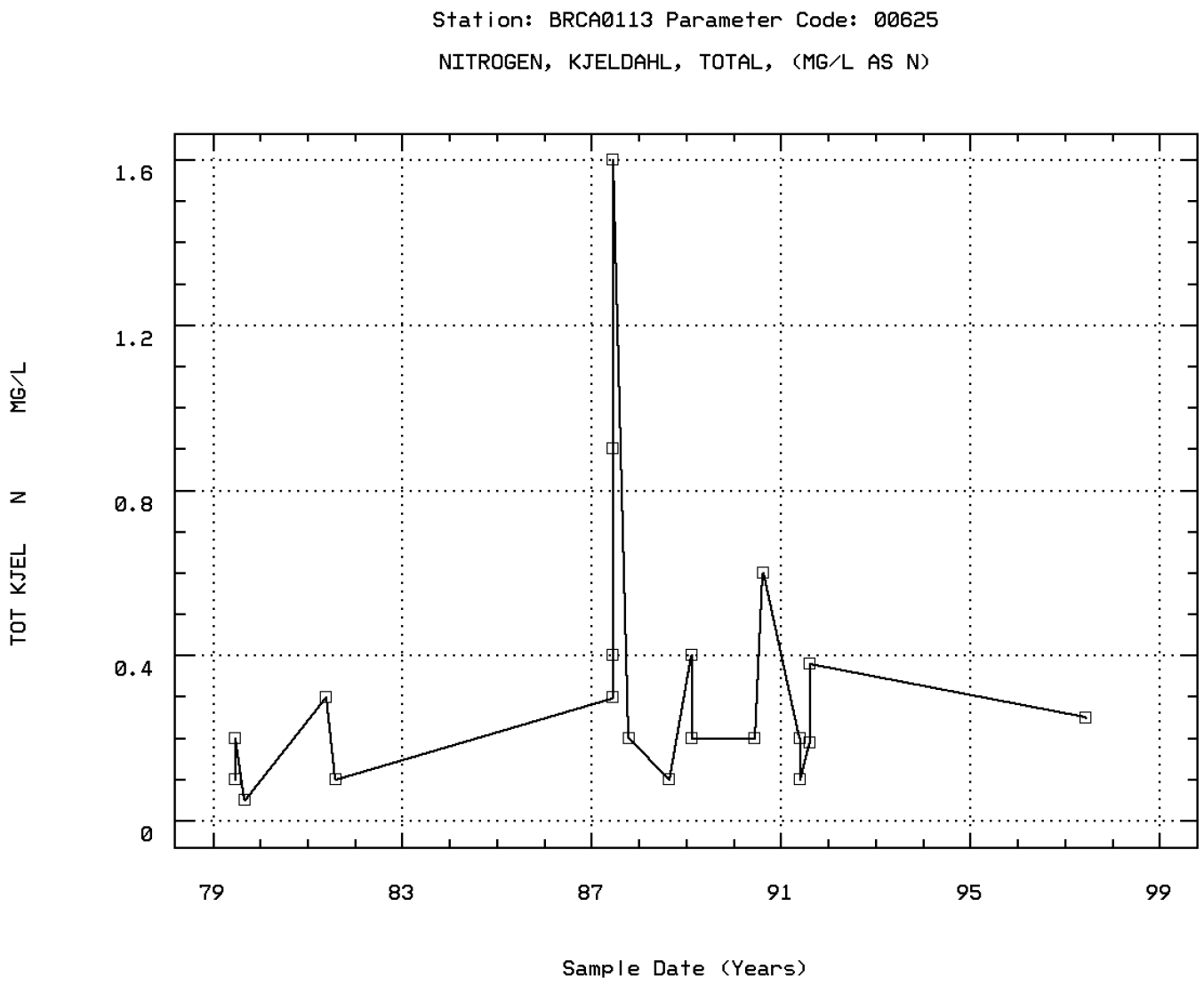
TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00610

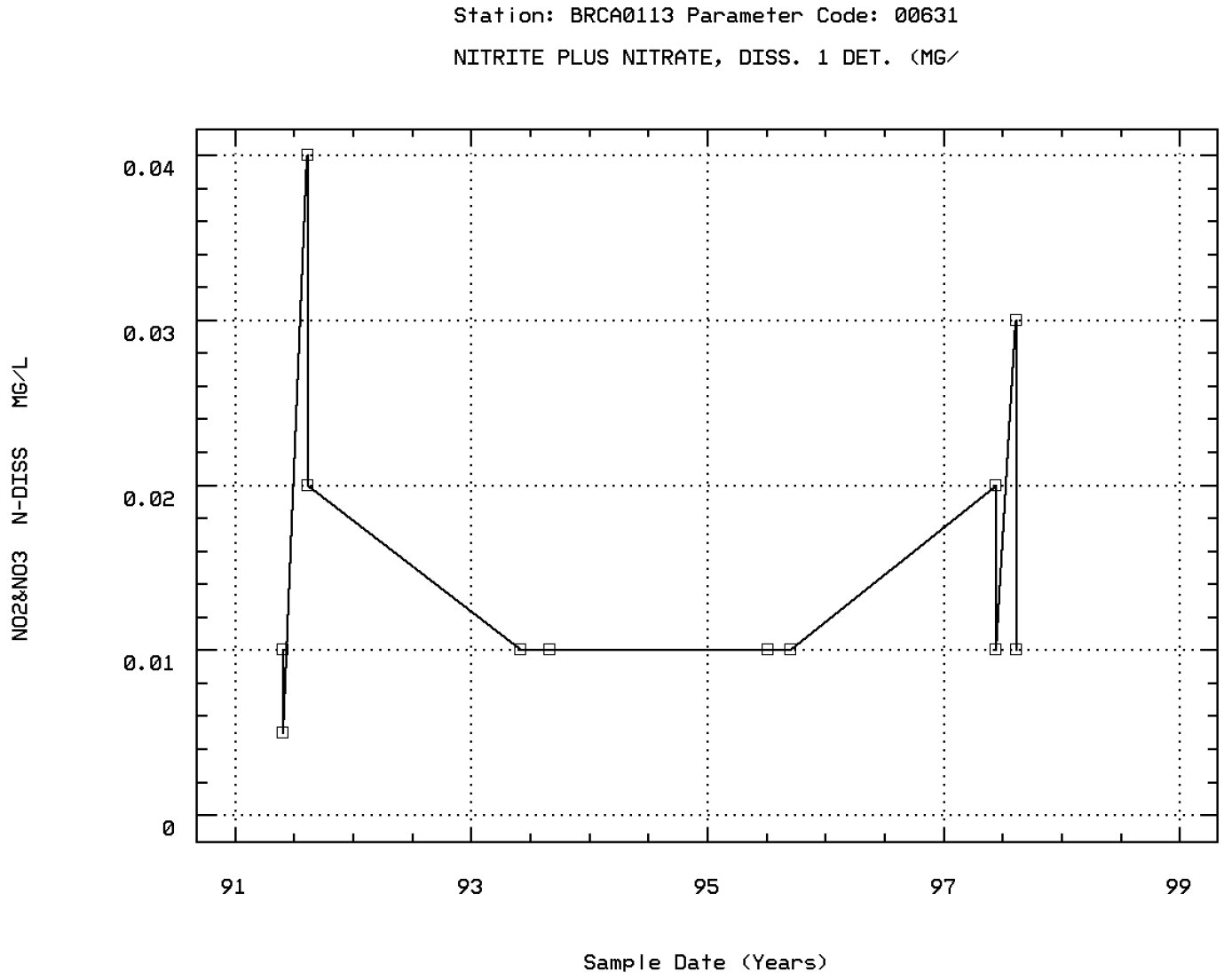
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



TROPIC RES AB DAM 01



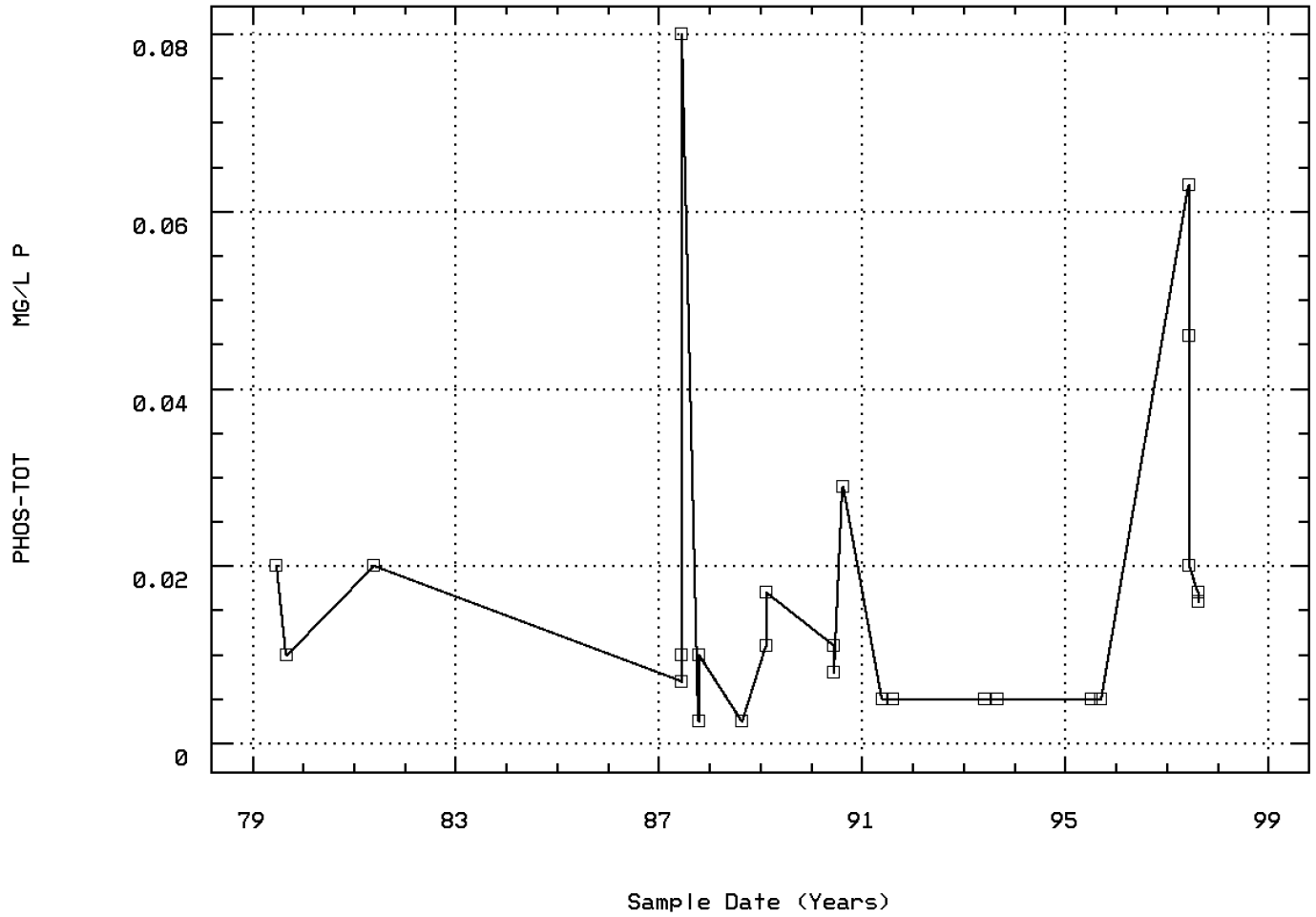
TROPIC RES AB DAM 01



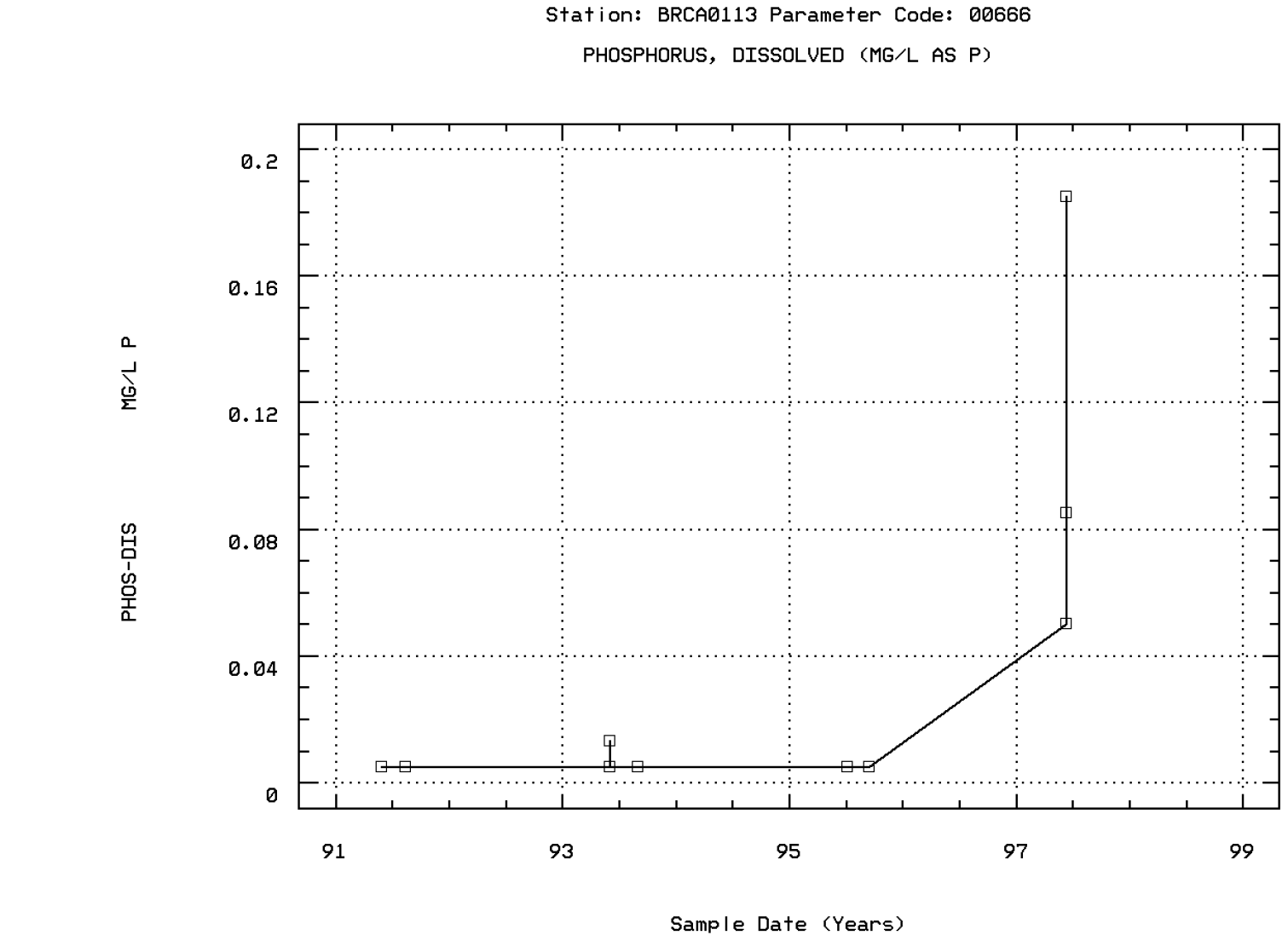
TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00665

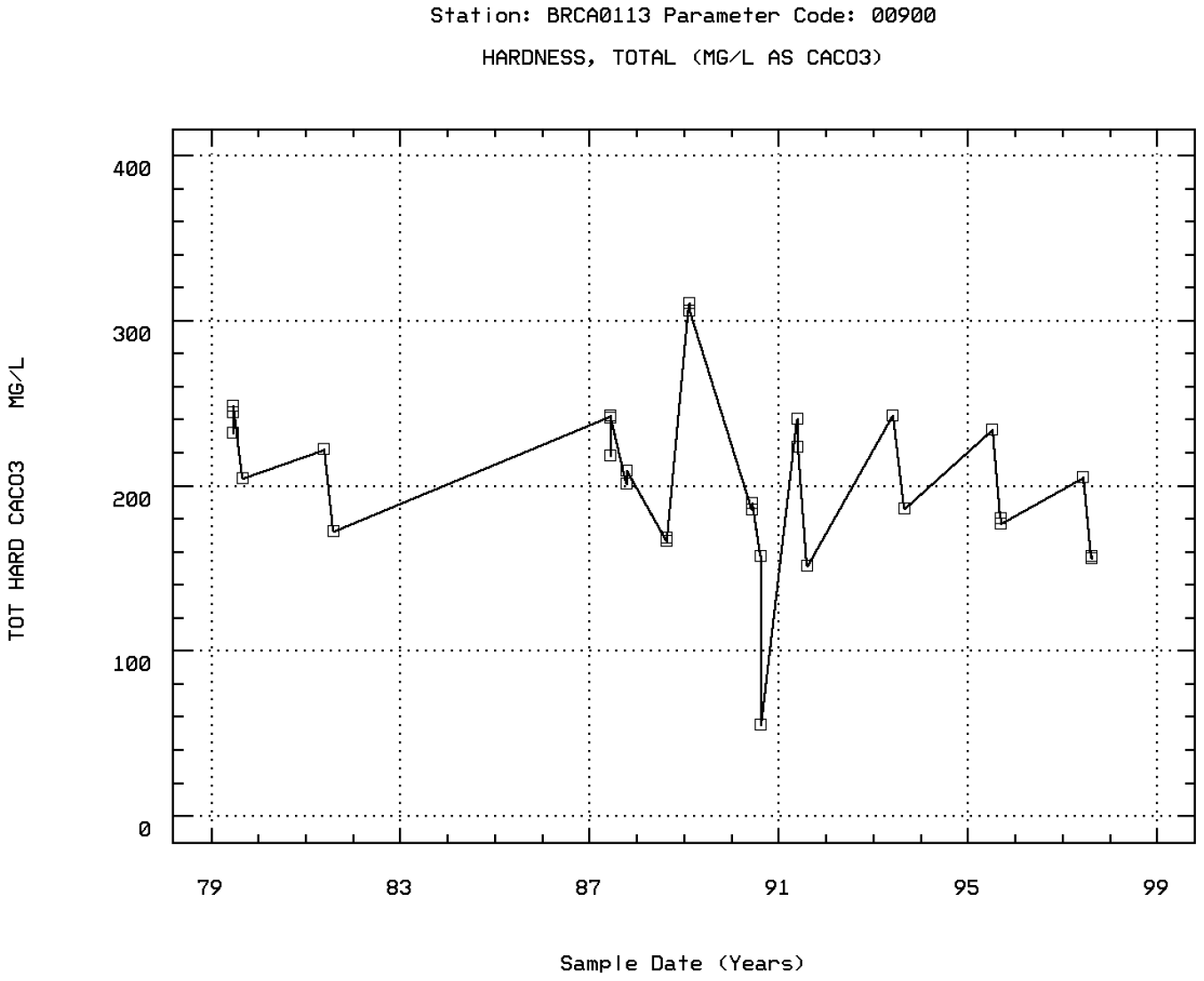
PHOSPHORUS, TOTAL (MG/L AS P)



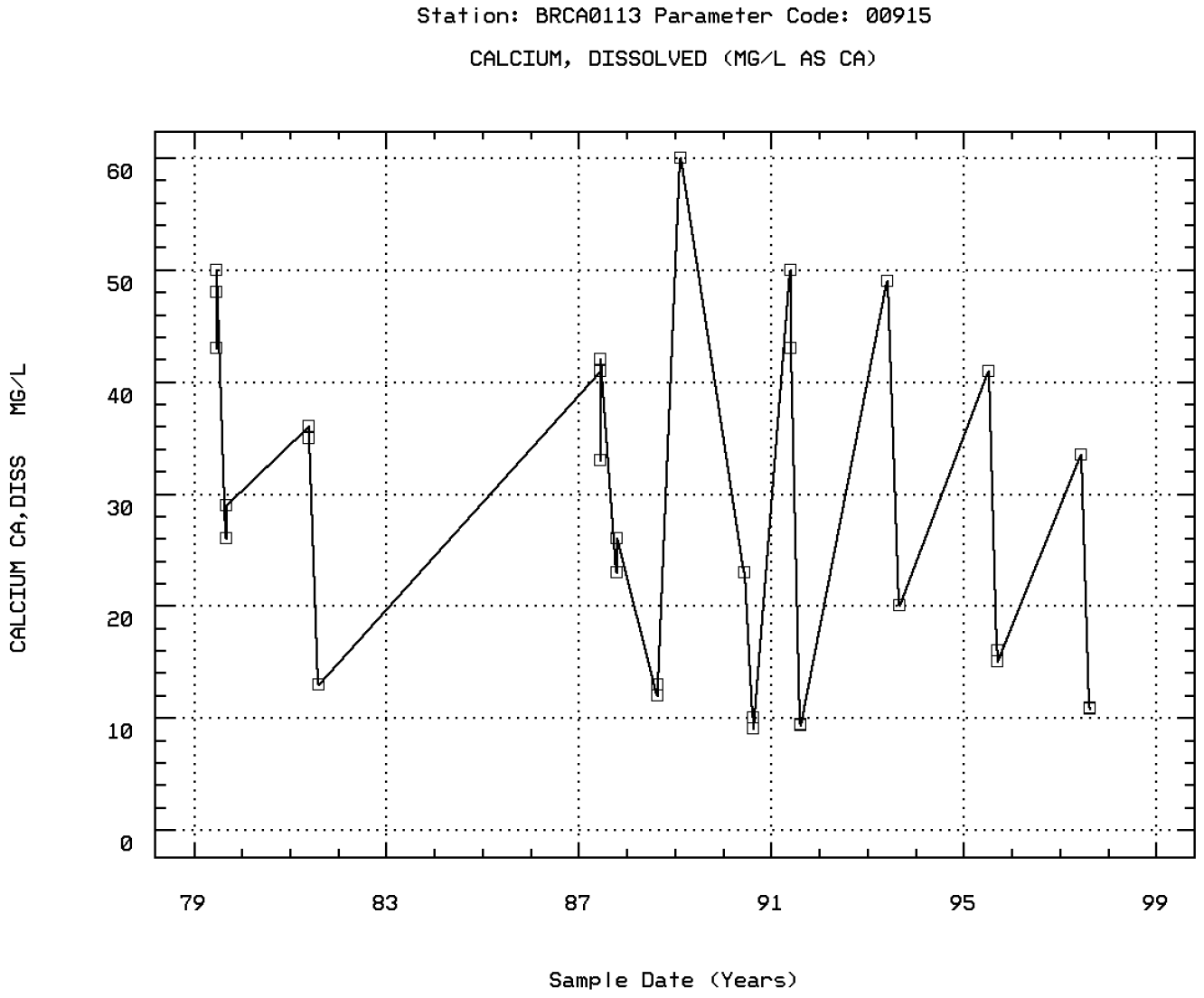
TROPIC RES AB DAM 01



TROPIC RES AB DAM 01



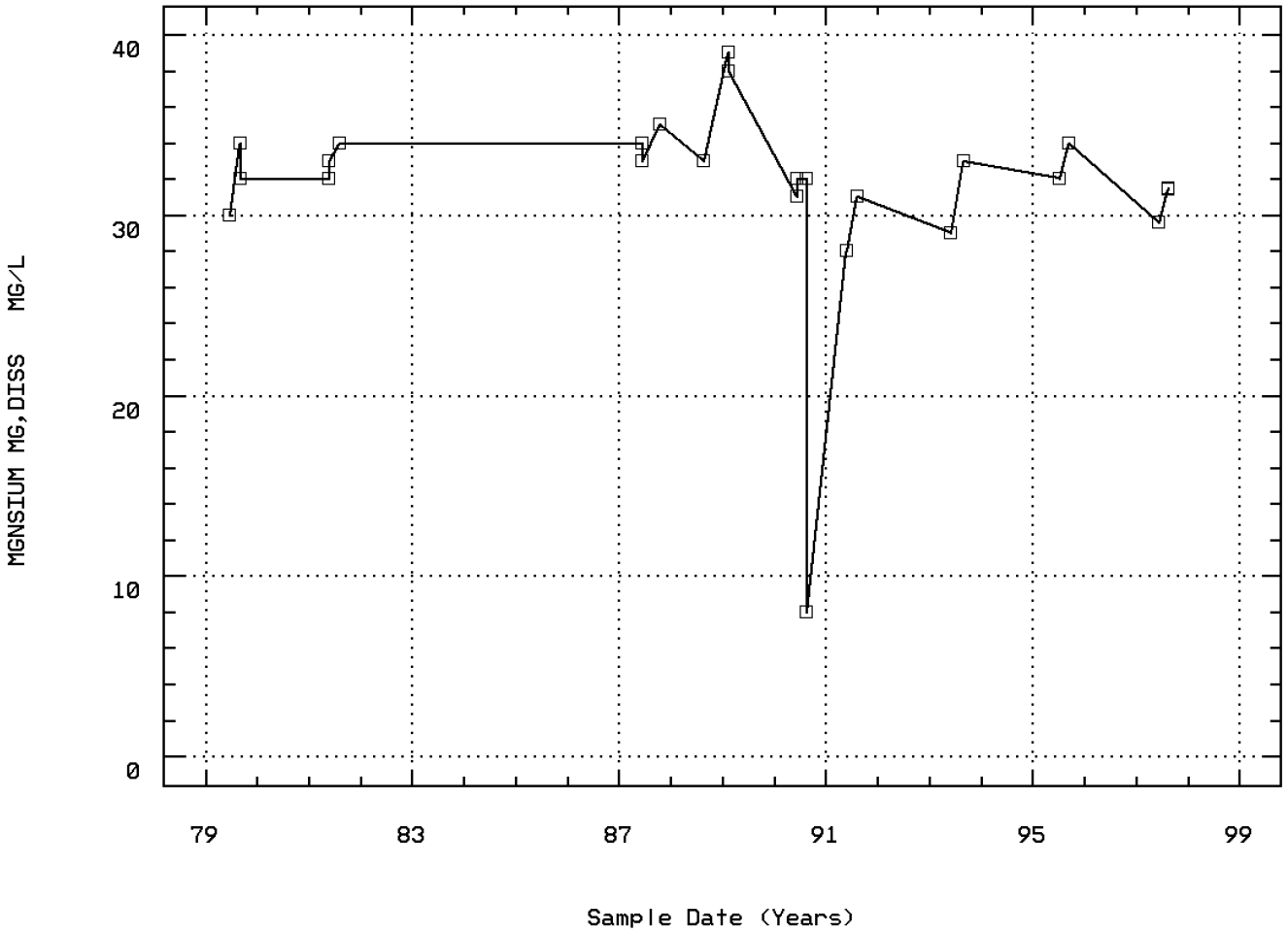
TROPIC RES AB DAM 01



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00925

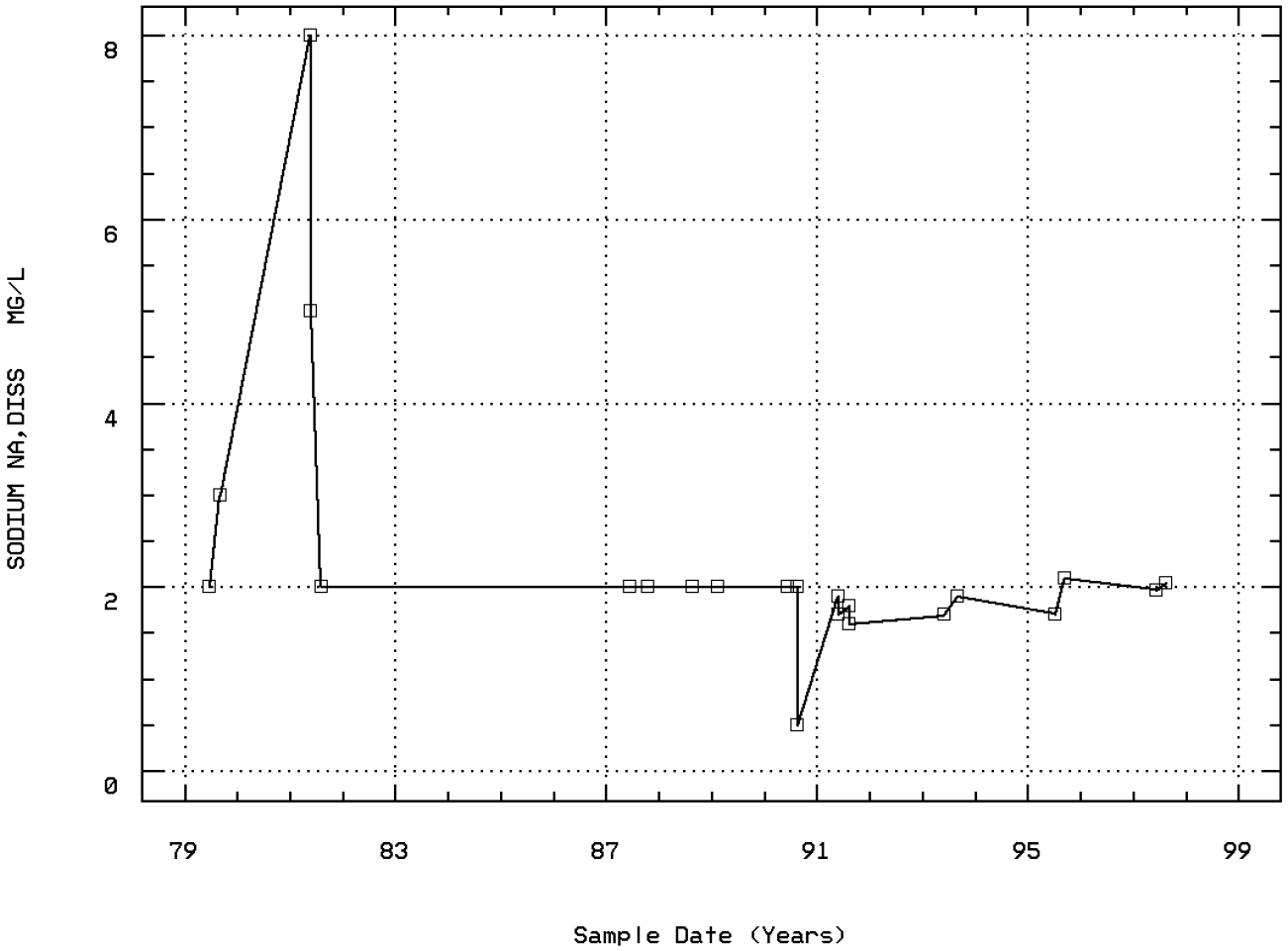
MAGNESIUM, DISSOLVED (MG/L AS MG)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00930

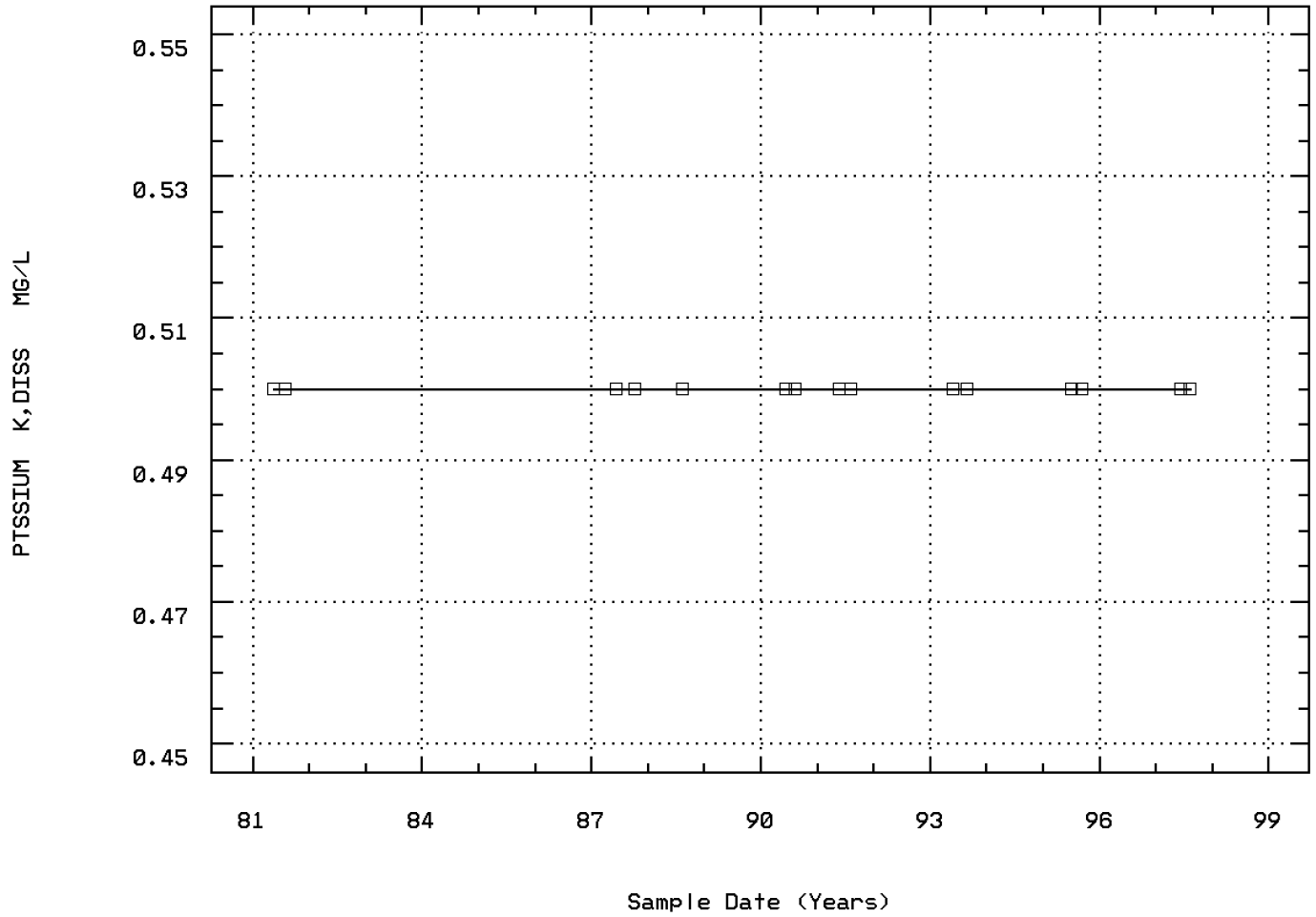
SODIUM, DISSOLVED (MG/L AS NA)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00935

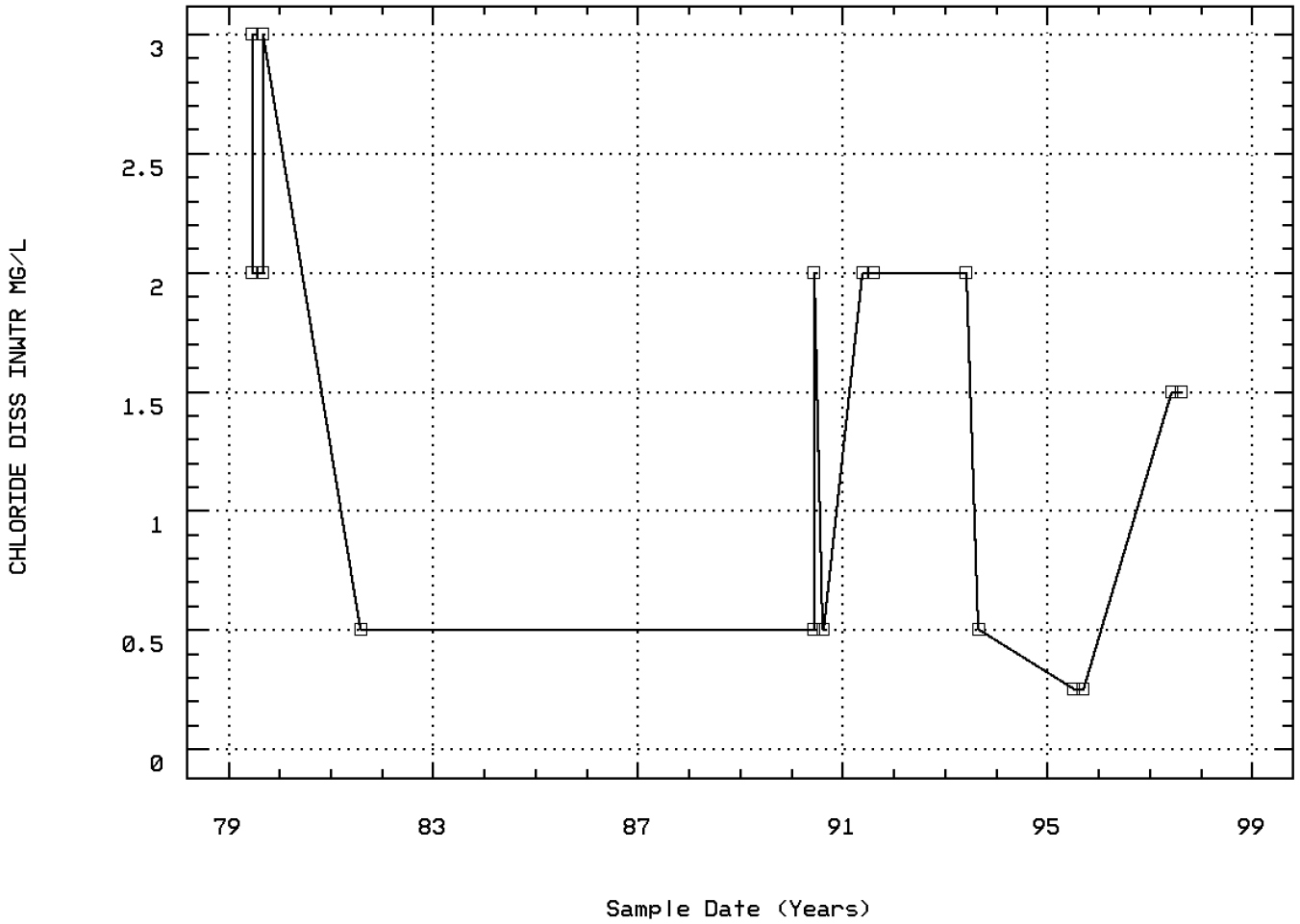
POTASSIUM, DISSOLVED (MG/L AS K)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00941

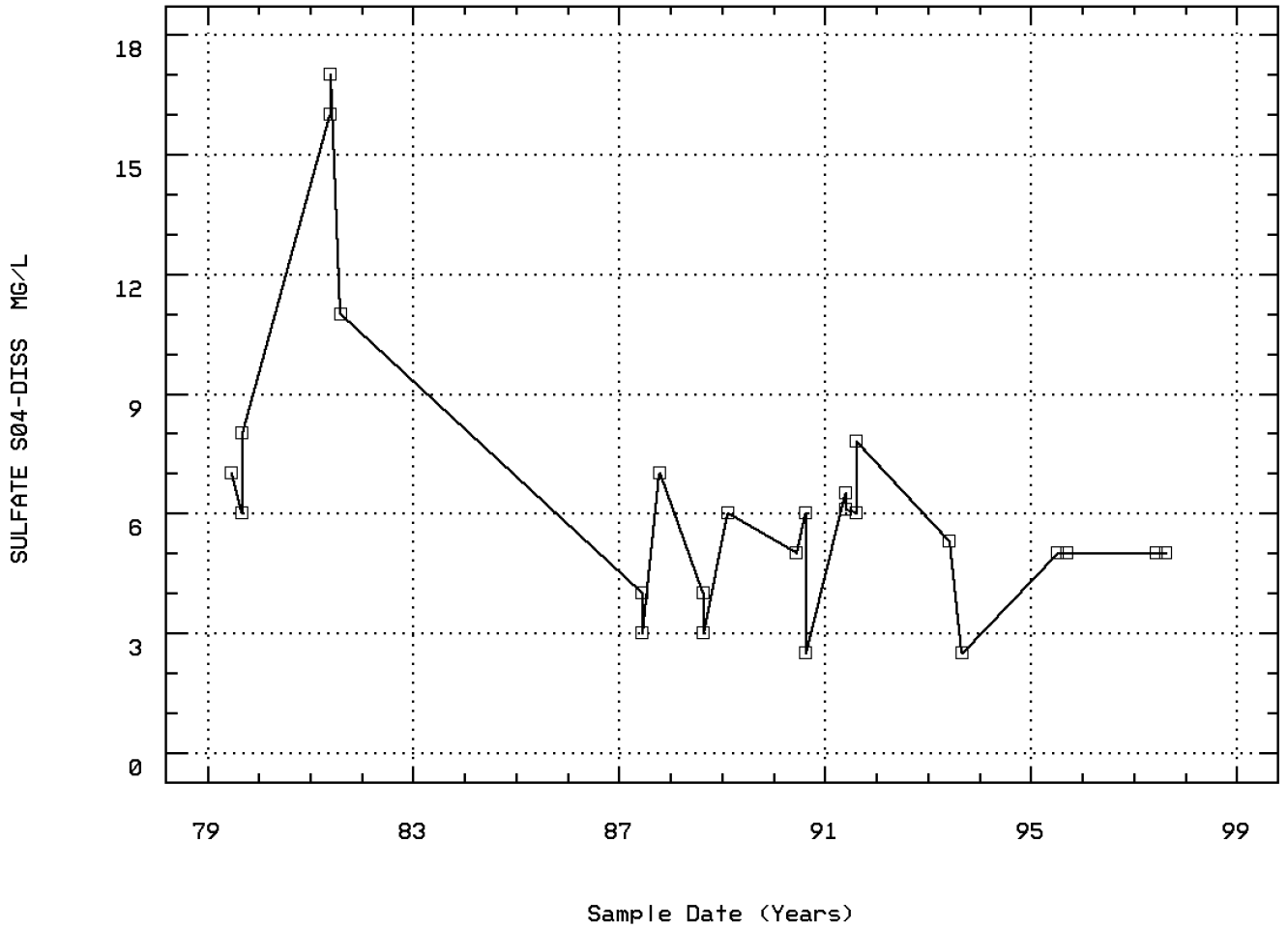
CHLORIDE, DISSOLVED IN WATER



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00946

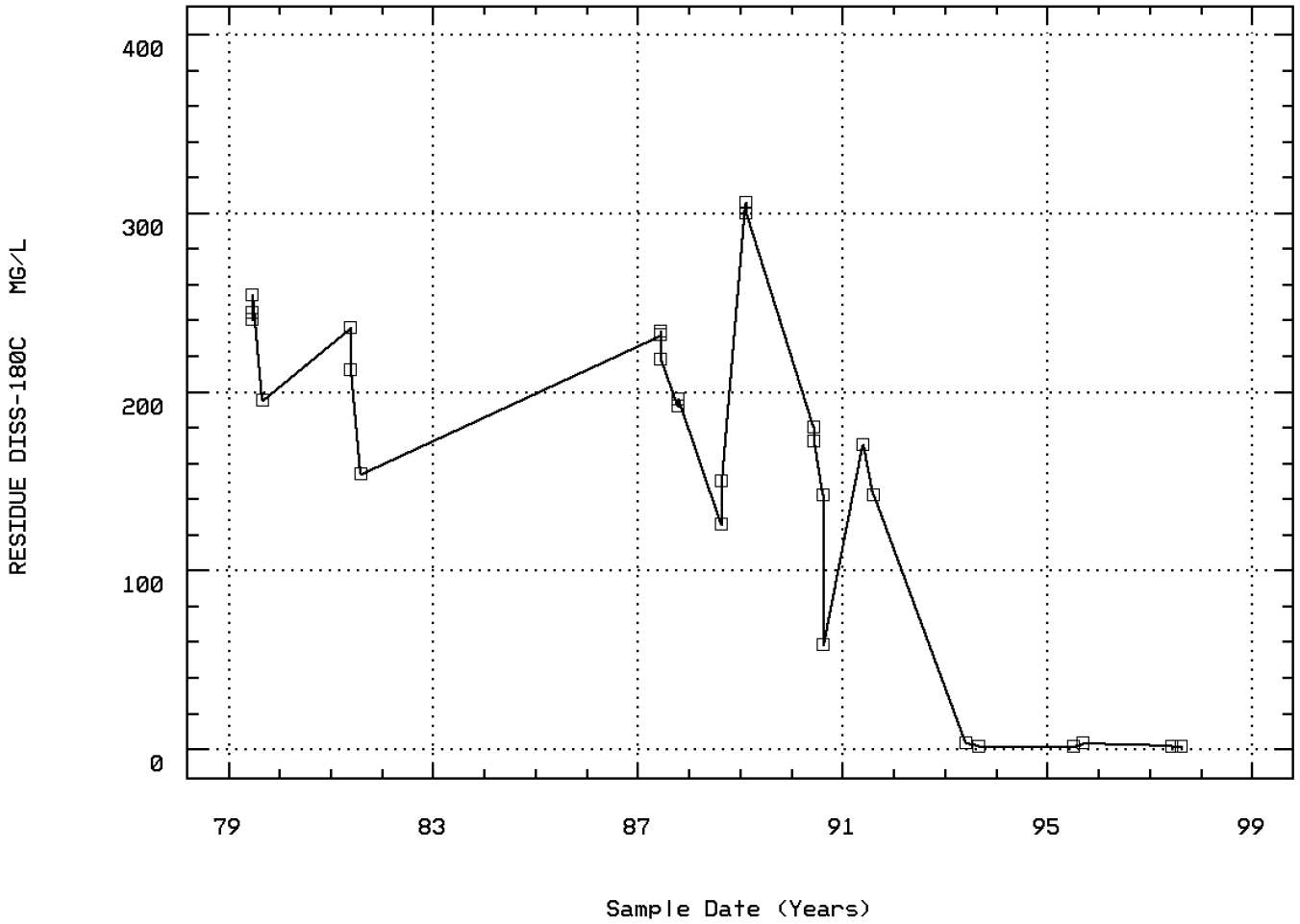
SULFATE, DISSOLVED (MG/L AS SO4)



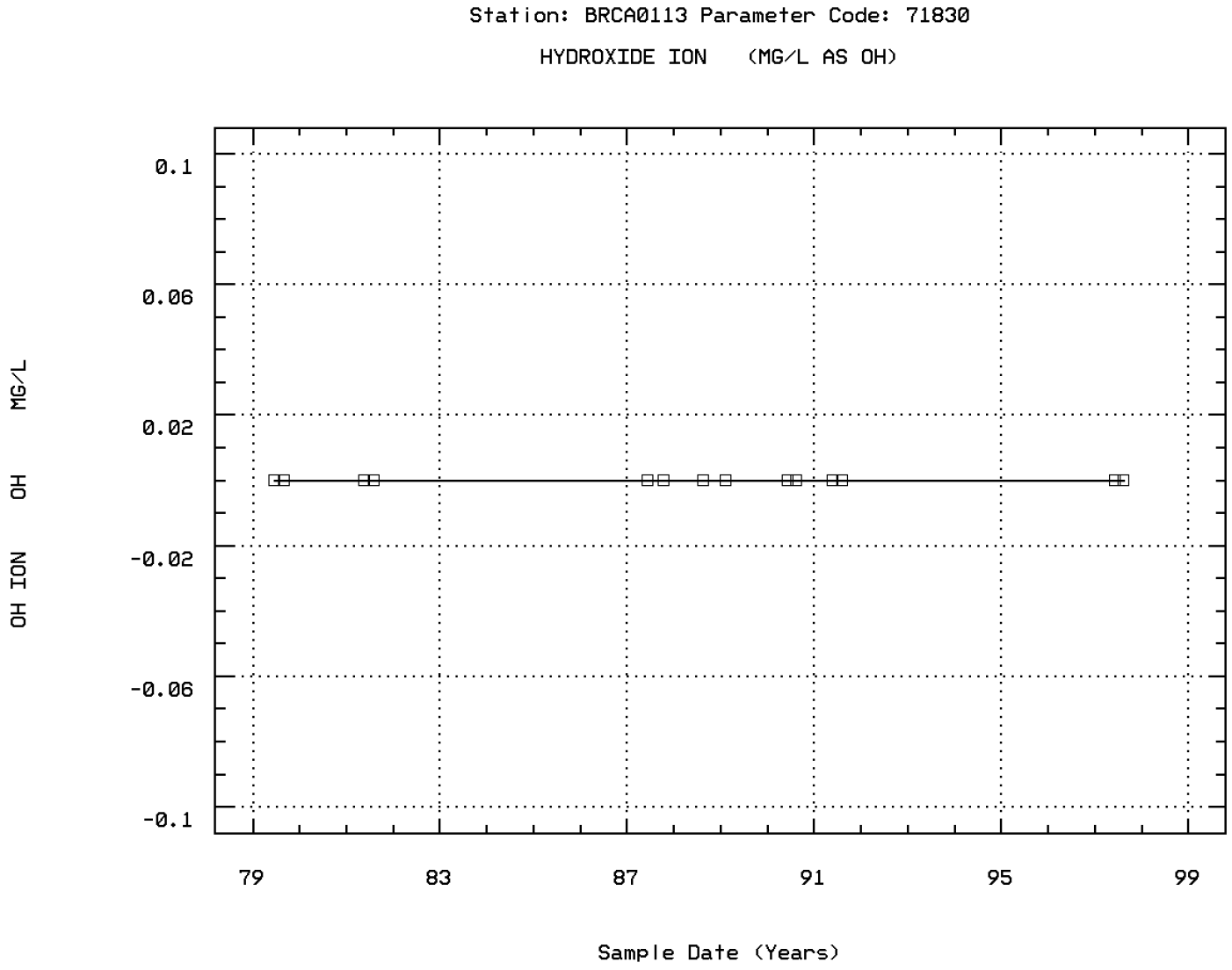
TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 70300

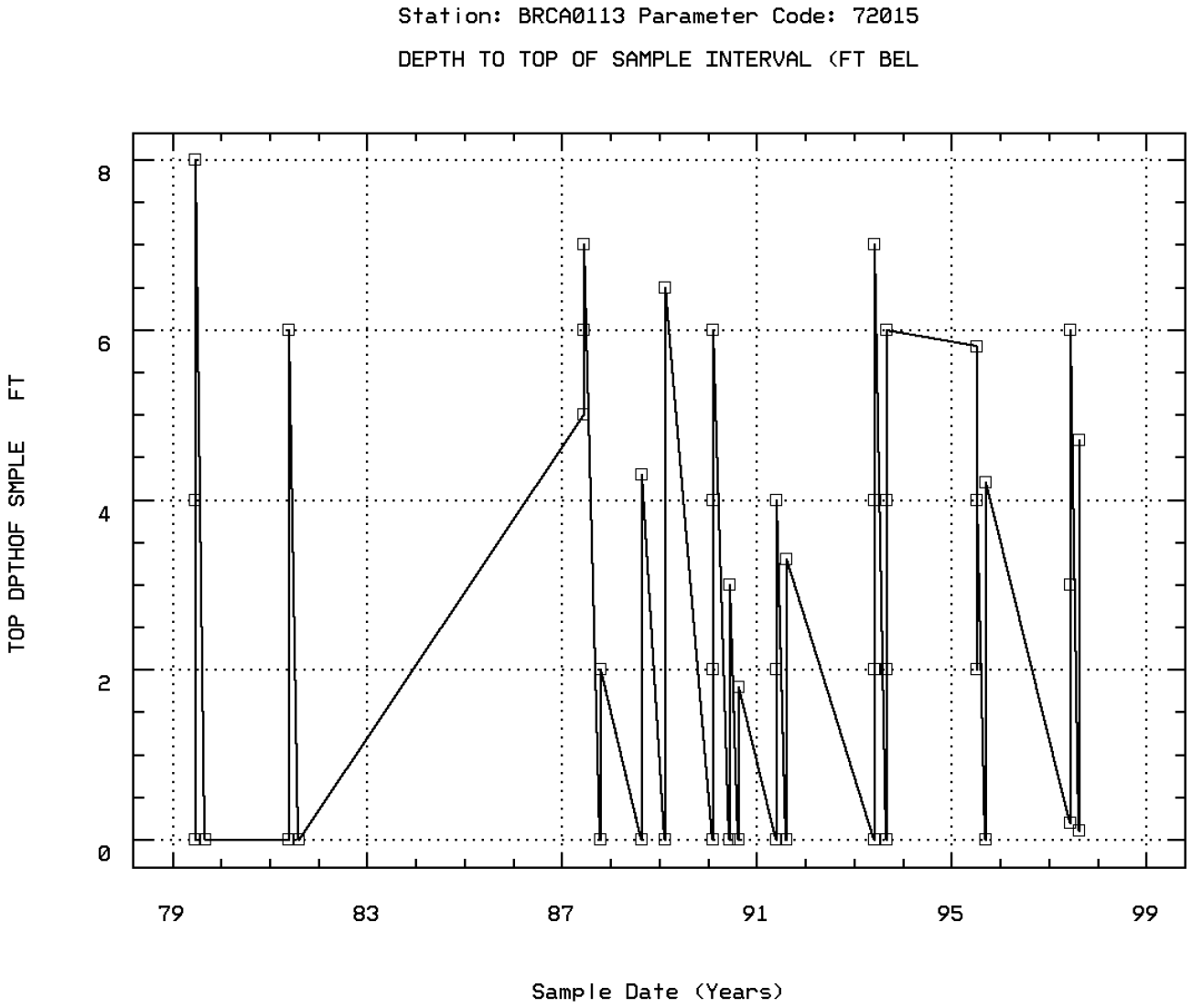
RESIDUE,TOTAL FILTRABLE (DRIED AT 180C)



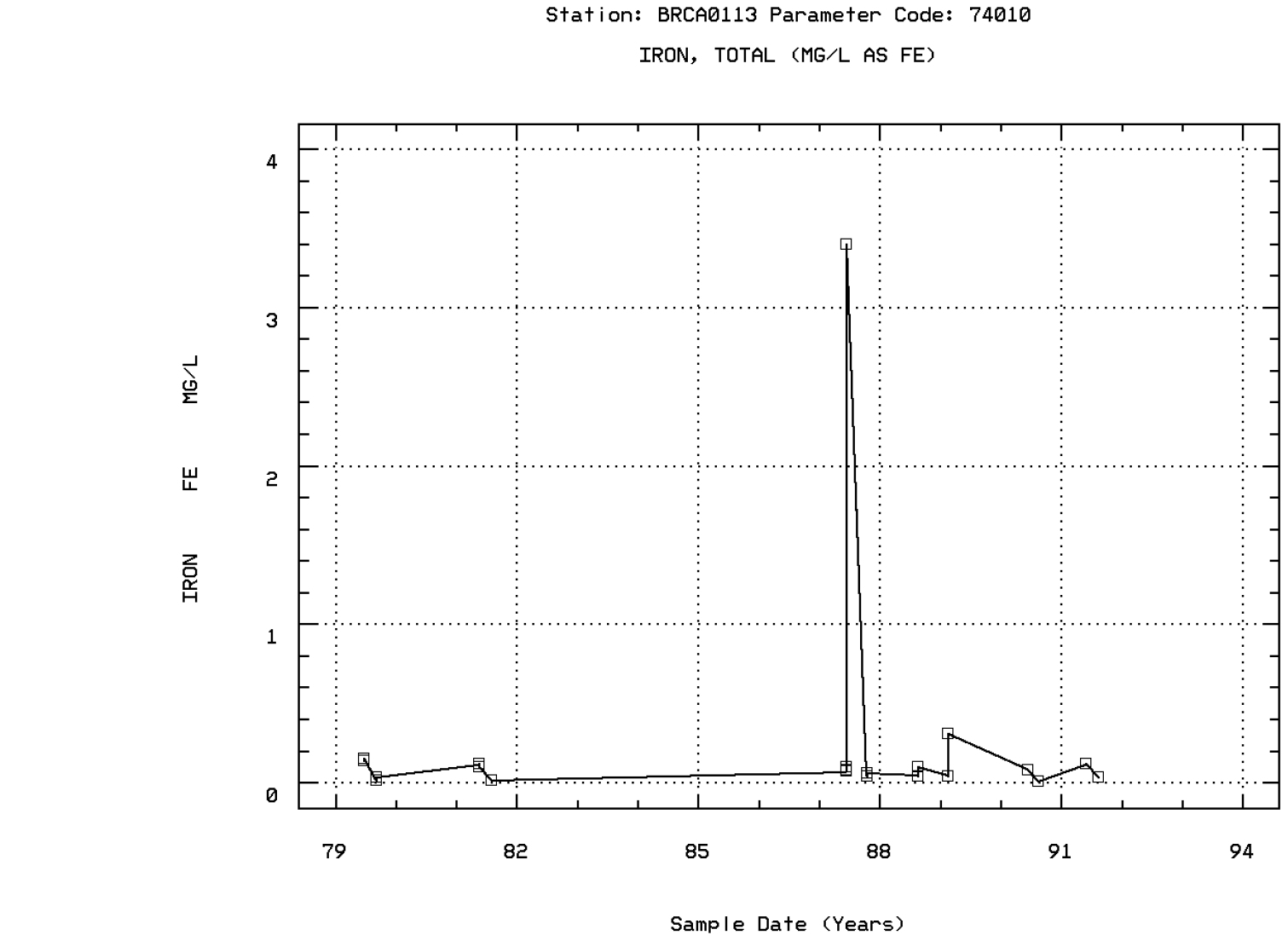
TROPIC RES AB DAM 01



TROPIC RES AB DAM 01



TROPIC RES AB DAM 01



TROPIC RES AB DAM 01

Seasonal Analysis for Season #1: 7/10 to 2/19 - Station BRCA0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/79-08/12/97	24	16.05	12.533	19.5	0.6	41.112	6.412	2.25	5.15	16.8	18.5
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/79-08/12/97	16	0.65	1.05	5.	0.3	1.313	1.146	0.3	0.5	1.075	2.97
00078p	TRANSPARENCY, SECCHI DISC (METERS)	06/20/79-08/12/97	9	3.2	3.989	7.	1.8	2.944	1.716	1.8	2.7	5.35	7.
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/20/79-08/12/97	24	324.	350.375	545.	240.	9925.984	99.629	241.5	274.	431.	521.5
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/20/79-06/14/90	9	350.	365.778	533.	276.	9307.944	96.478	276.	284.	437.5	533.
00300p	OXYGEN, DISSOLVED MG/L	06/20/79-08/12/97	24	8.5	7.437	10.5	0.	8.138	2.853	0.9	7.725	8.675	9.6
00400p	PH (STANDARD UNITS)	06/20/79-08/12/97	22	8.85	8.836	10.8	6.7	1.061	1.03	7.43	7.8	9.5	10.4
00400p	CONVERTED PH (STANDARD UNITS)	06/20/79-08/12/97	22	8.847	7.816	10.8	6.7	2.152	1.467	7.43	7.8	9.5	10.4
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/79-08/12/97	22	0.001	0.015	0.2	0.	0.002	0.043	0.	0.	0.016	0.037
00403p	PH, LAB, STANDARD UNITS SU	06/20/79-08/12/97	13	9.	8.962	9.6	7.8	0.316	0.562	7.92	8.6	9.45	9.56
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/20/79-08/12/97	13	9.	8.574	9.6	7.8	0.479	0.692	7.92	8.6	9.45	9.56
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/79-08/12/97	13	0.001	0.003	0.016	0.	0.	0.004	0.	0.	0.003	0.013
00405p	CARBON DIOXIDE (MG/L AS CO2)	06/20/79-08/12/97	14	0.	0.786	7.	0.	4.335	2.082	0.	0.	0.	5.5
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/79-08/12/97	16	171.	180.938	296.	54.	3185.396	56.439	119.8	149.5	203.	291.8
00440p	BICARBONATE ION (MG/L AS HCO3)	06/20/79-08/12/97	14	198.	197.786	361.	60.	7661.874	87.532	61.5	143.	229.	357.5
00445p	CARBONATE ION (MG/L AS CO3)	06/20/79-08/12/97	14	8.5	12.357	60.	0.	295.324	17.185	0.	0.	15.75	46.5
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/19/81-08/12/97	13 ##	1.5	2.154	8.	1.5	3.183	1.784	1.5	1.5	2.	5.8
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/79-08/12/97	19 ##	0.025	0.032	0.11	0.025	0.	0.02	0.025	0.025	0.025	0.05
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/79-06/10/97	11	0.2	0.229	0.6	0.05	0.028	0.166	0.06	0.1	0.38	0.56
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/30/91-08/12/97	10 ##	0.01	0.016	0.04	0.01	0.	0.011	0.01	0.01	0.023	0.039
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/79-08/12/97	18 ##	0.005	0.009	0.029	0.003	0.	0.007	0.003	0.005	0.012	0.018
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/30/91-06/10/97	8 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/20/79-08/12/97	19	177.	184.	310.	55.	3018.444	54.94	151.	157.	204.	306.
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/20/79-08/12/97	19	15.	20.653	60.	9.	231.789	15.225	9.3	10.8	26.	60.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/20/79-08/12/97	19	33.	32.205	39.	8.	38.934	6.24	31.	31.5	34.	38.
00930p	SODIUM, DISSOLVED (MG/L AS NA)	06/20/79-08/12/97	16	2.	1.996	3.	0.5	0.298	0.546	1.27	1.925	2.03	3.
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	06/20/79-08/12/97	16 ##	0.5	0.625	1.	0.5	0.05	0.224	0.5	0.5	0.875	1.
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	06/20/79-08/12/97	10 ##	1.25	1.325	3.	0.25	0.834	0.913	0.275	0.5	2.	2.9
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	06/20/79-08/12/97	16	6.	5.8	11.	2.5	4.873	2.208	2.5	4.25	7.	8.9
01007p	BARIUM, TOTAL (UG/L AS BA)	06/20/79-08/13/91	9	120.	181.111	370.	70.	13061.111	114.285	70.	90.	285.	370.
01042p	COPPER, TOTAL (UG/L AS CU)	06/20/79-08/13/91	9 ##	10.	7.778	10.	2.5	11.632	3.411	2.5	3.75	10.	10.
01055p	MANGANESE, TOTAL (UG/L AS MN)	06/20/79-08/13/91	9 ##	2.5	12.722	86.	2.5	757.069	27.515	2.5	2.5	5.5	86.
01092p	ZINC, TOTAL (UG/L AS ZN)	06/20/79-08/13/91	9 ##	10.	12.222	45.	2.5	161.632	12.713	2.5	6.25	10.	45.
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/20/79-08/12/97	15	150.	144.133	306.	1.5	9224.802	96.046	1.5	58.	195.	302.4
71830p	HYDROXIDE ION (MG/L AS OH)	06/20/79-08/12/97	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
72015p	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	06/20/79-08/12/97	24	1.9	2.121	6.5	0.	5.333	2.309	0.	0.	4.15	6.
74010p	IRON, TOTAL (MG/L AS FE)	06/20/79-08/13/91	11	0.04	0.063	0.31	0.01	0.007	0.086	0.011	0.015	0.06	0.268

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

Seasonal Analysis for Season #3: 5/10 to 7/09 - Station BRCA0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/79-08/12/97	25	14.	14.096	16.5	11.4	2.855	1.69	11.86	12.3	15.75	16.34
00076p	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/79-08/12/97	15	2.3	2.753	7.	0.3	5.268	2.295	0.42	1.	4.	6.76
00078p	TRANSPARENCY, SECCHI DISC (METERS)	06/20/79-08/12/97	7	2.	2.6	4.9	0.2	3.173	1.781	**	**	**	**
00094p	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/20/79-08/12/97	25	409.	414.64	530.	300.	2550.823	50.506	346.6	395.5	442.5	486.
00095p	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/20/79-06/14/90	10	419.	403.7	450.	330.	1660.233	40.746	330.	386.25	426.25	448.
00300p	OXYGEN, DISSOLVED MG/L	06/20/79-08/12/97	25	7.6	8.016	14.5	0.9	7.007	2.647	4.48	7.35	9.05	11.62
00400p	PH (STANDARD UNITS)	06/20/79-08/12/97	25	8.3	8.36	9.	7.6	0.134	0.366	7.92	8.05	8.55	8.94
00400p	CONVERTED PH (STANDARD UNITS)	06/20/79-08/12/97	25	8.3	8.219	9.	7.6	0.155	0.394	7.92	8.05	8.55	8.94
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/79-08/12/97	25	0.005	0.006	0.025	0.001	0.	0.005	0.001	0.003	0.009	0.012
00403p	PH, LAB, STANDARD UNITS SU	06/20/79-08/12/97	11	8.3	8.245	8.6	7.9	0.075	0.273	7.9	7.9	8.5	8.58
00403p	CONVERTED PH, LAB, STANDARD UNITS	06/20/79-08/12/97	11	8.3	8.168	8.6	7.9	0.081	0.285	7.9	7.9	8.5	8.58
00403p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/79-08/12/97	11	0.005	0.007	0.013	0.003	0.	0.004	0.003	0.003	0.013	0.013
00405p	CARBON DIOXIDE (MG/L AS CO2)	06/20/79-08/12/97	13	3.	2.692	5.	0.	2.897	1.702	0.4	1.	4.5	5.
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/79-08/12/97	15	226.	224.467	266.	176.	535.981	23.151	177.2	221.	236.	255.2

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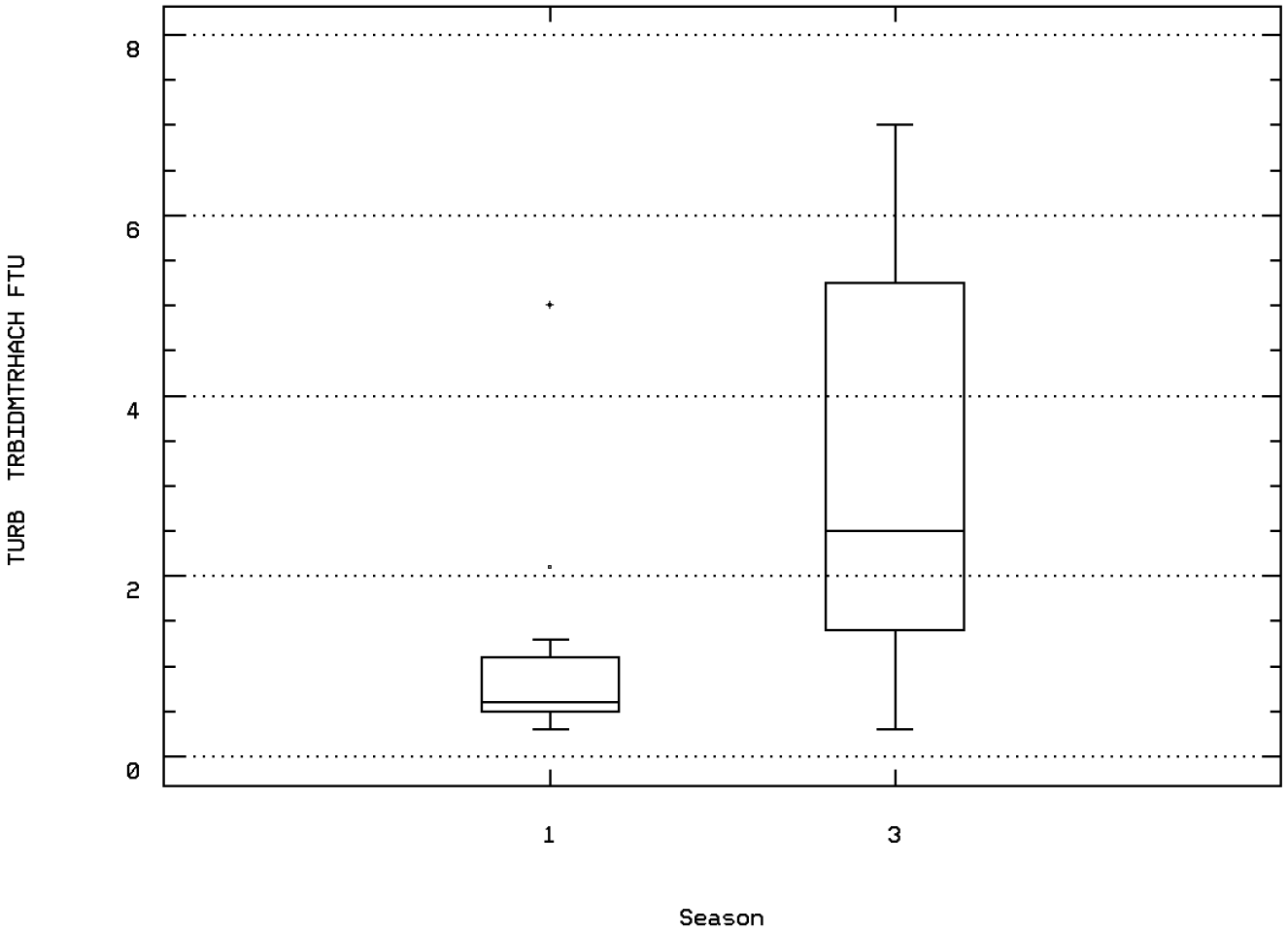
Seasonal Analysis for Season #3: 5/10 to 7/09 - Station BRCA0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00440p	BICARBONATE ION (MG/L AS HCO3)	06/20/79-08/12/97	13	274.	269.538	298.	215.	651.103	25.517	215.8	270.	283.5	297.2
00445p	CARBONATE ION (MG/L AS CO3)	06/20/79-08/12/97	13	0.	0.615	6.	0.	2.923	1.71	0.	0.	0.	4.4
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/19/81-08/12/97	10 ##	1.75	4.85	20.	1.5	41.003	6.403	1.5	1.5	6.25	19.3
00610p	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/79-08/12/97	25 ##	0.025	0.076	1.17	0.025	0.052	0.228	0.025	0.025	0.038	0.05
00625p	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/79-06/10/97	18	0.225	0.325	1.6	0.1	0.135	0.368	0.1	0.1	0.3	0.97
00631p	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	05/30/91-08/12/97	14 ##	0.01	0.01	0.02	0.005	0.	0.004	0.005	0.009	0.01	0.015
00665p	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/79-08/12/97	25	0.007	0.016	0.08	0.005	0.	0.019	0.005	0.005	0.02	0.053
00666p	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/30/91-06/10/97	14 ##	0.005	0.027	0.185	0.005	0.003	0.051	0.005	0.005	0.022	0.135
00900p	HARDNESS, TOTAL (MG/L AS CACO3)	06/20/79-08/12/97	15	232.	225.8	248.	185.	388.314	19.706	187.4	218.	242.	245.6
00915p	CALCIUM, DISSOLVED (MG/L AS CA)	06/20/79-08/12/97	15	41.	39.367	50.	23.	76.66	8.756	23.	33.5	48.	50.
00925p	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/20/79-08/12/97	15	31.	30.973	34.	28.	3.639	1.908	28.	29.6	33.	33.4
00930p	SODIUM, DISSOLVED (MG/L AS NA)	06/20/79-08/12/97	15	2.	2.531	8.	1.7	2.933	1.713	1.7	1.9	2.	6.2
00935p	POTASSIUM, DISSOLVED (MG/L AS K)	06/20/79-08/12/97	15 ##	0.5	0.6	1.	0.5	0.043	0.207	0.5	0.5	0.5	1.
00941p	CHLORIDE, DISSOLVED IN WATER MG/L	06/20/79-08/12/97	12	1.75	1.604	3.	0.25	0.789	0.888	0.325	1.	2.	3.
00946p	SULFATE, DISSOLVED (MG/L AS SO4)	06/20/79-08/12/97	15	5.3	6.86	17.	3.	16.761	4.094	3.6	5.	7.	16.4
01007p	BARIUM, TOTAL (UG/L AS BA)	06/20/79-08/13/91	7 ##	25.	89.286	310.	25.	13253.571	115.124	**	**	**	**
01042p	COPPER, TOTAL (UG/L AS CU)	06/20/79-08/13/91	7 ##	5.	307.143	2115.	2.5	635521.726	797.196	**	**	**	**
01055p	MANGANESE, TOTAL (UG/L AS MN)	06/20/79-08/13/91	7	15.	17.114	39.	6.	112.958	10.628	**	**	**	**
01092p	ZINC, TOTAL (UG/L AS ZN)	06/20/79-08/13/91	7	10.	10.357	25.	2.5	59.226	7.696	**	**	**	**
70300p	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/20/79-08/12/97	14	215.	171.286	254.	1.5	9119.258	95.495	1.5	128.25	237.	249.
71830p	HYDROXIDE ION (MG/L AS OH)	06/20/79-08/12/97	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
72015p	DEPTH TO TOP OF SAMPLE INTERVAL (FT BELOW LSD)	06/20/79-08/12/97	25	3.	3.28	8.	0.	6.613	2.572	0.	0.6	5.9	7.
74010p	IRON, TOTAL (MG/L AS FE)	06/20/79-08/13/91	11	0.12	0.41	3.4	0.07	0.984	0.992	0.072	0.08	0.15	2.75

** - Less than 9 observations ## - Computed 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: BRCA0113 Parameter Code: 00076

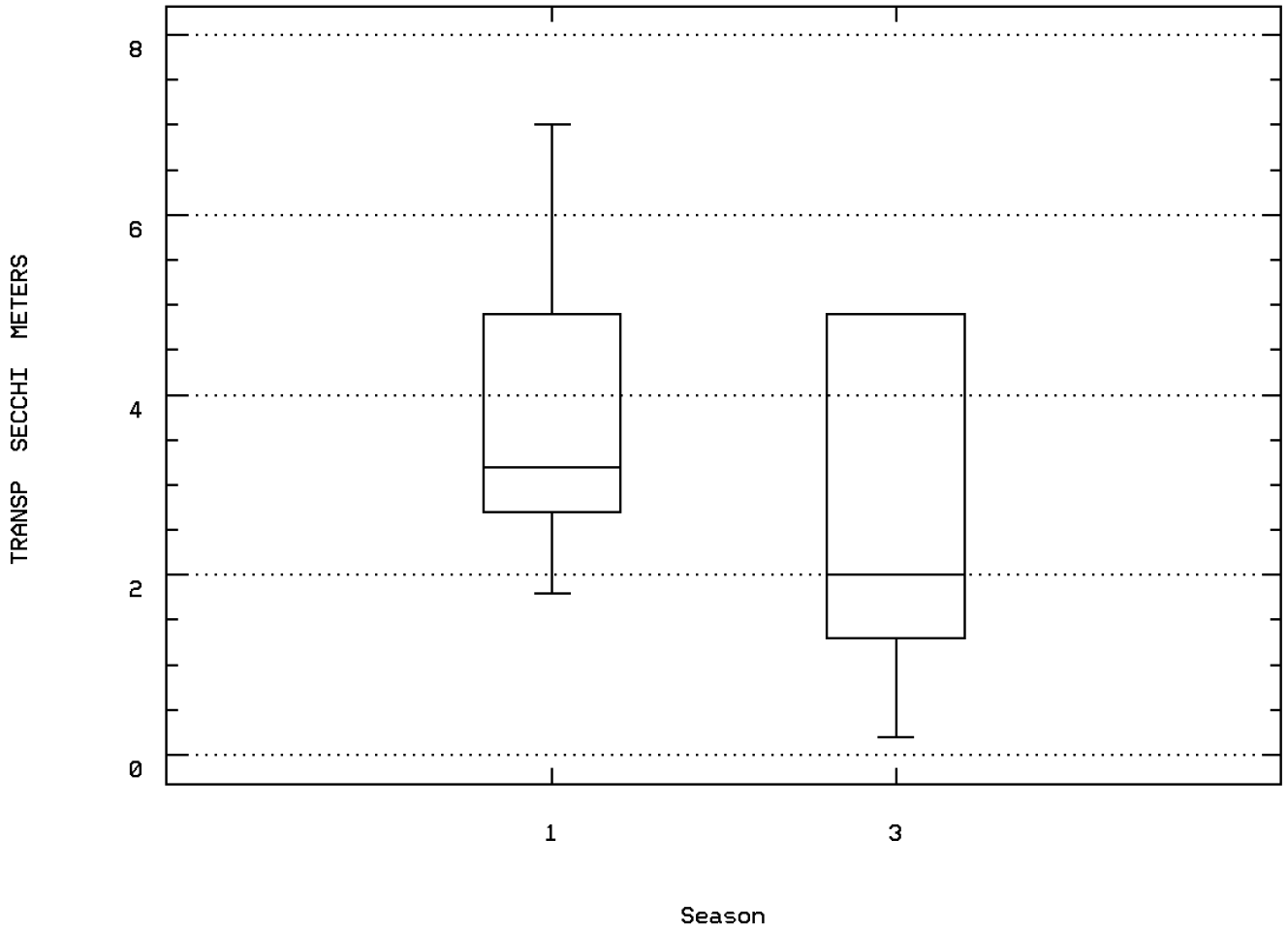
TURBIDITY,HACH TURBIDIMETER (FORMAZIN T



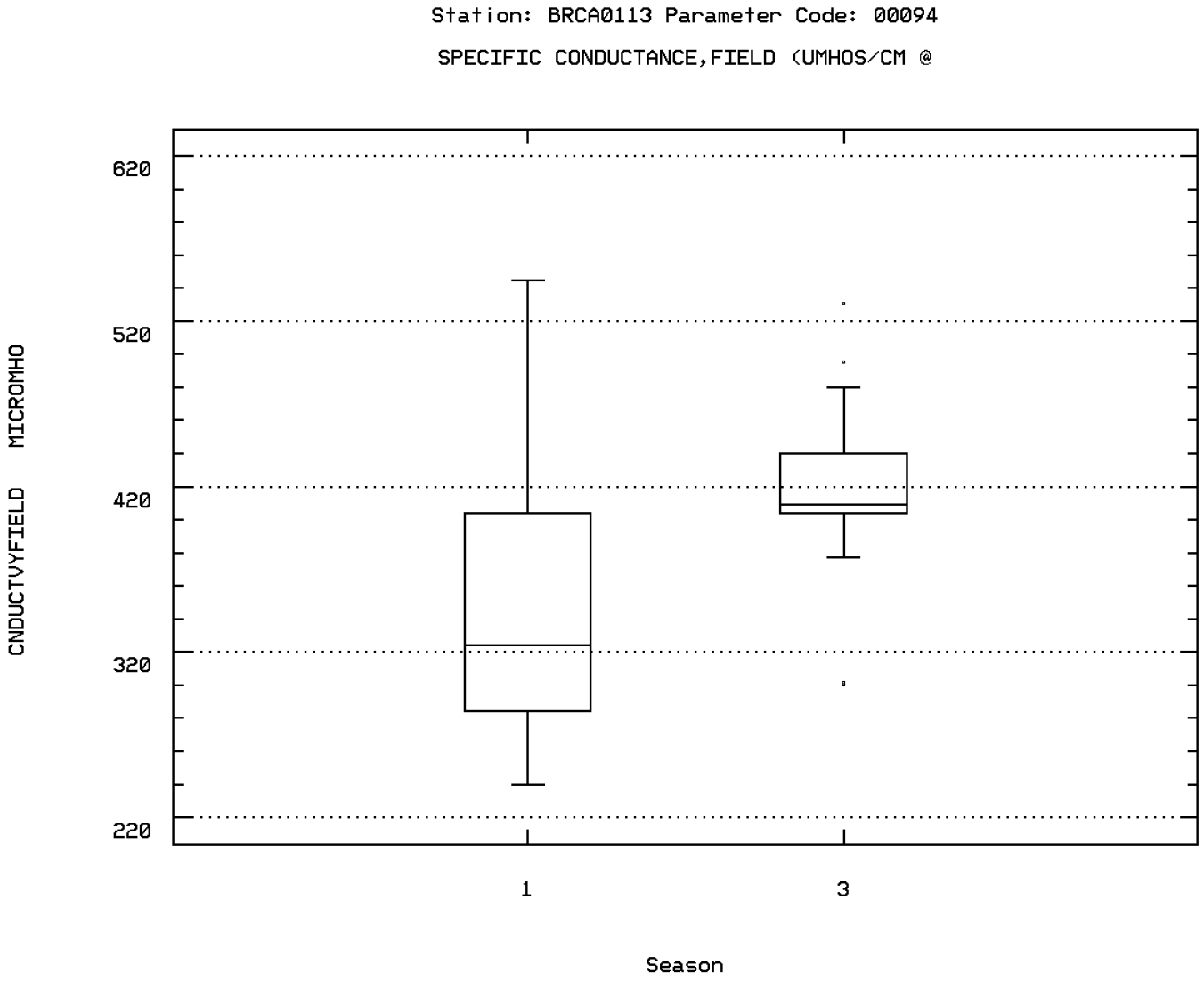
TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00078

TRANSPARENCY, SECCHI DISC (METERS)



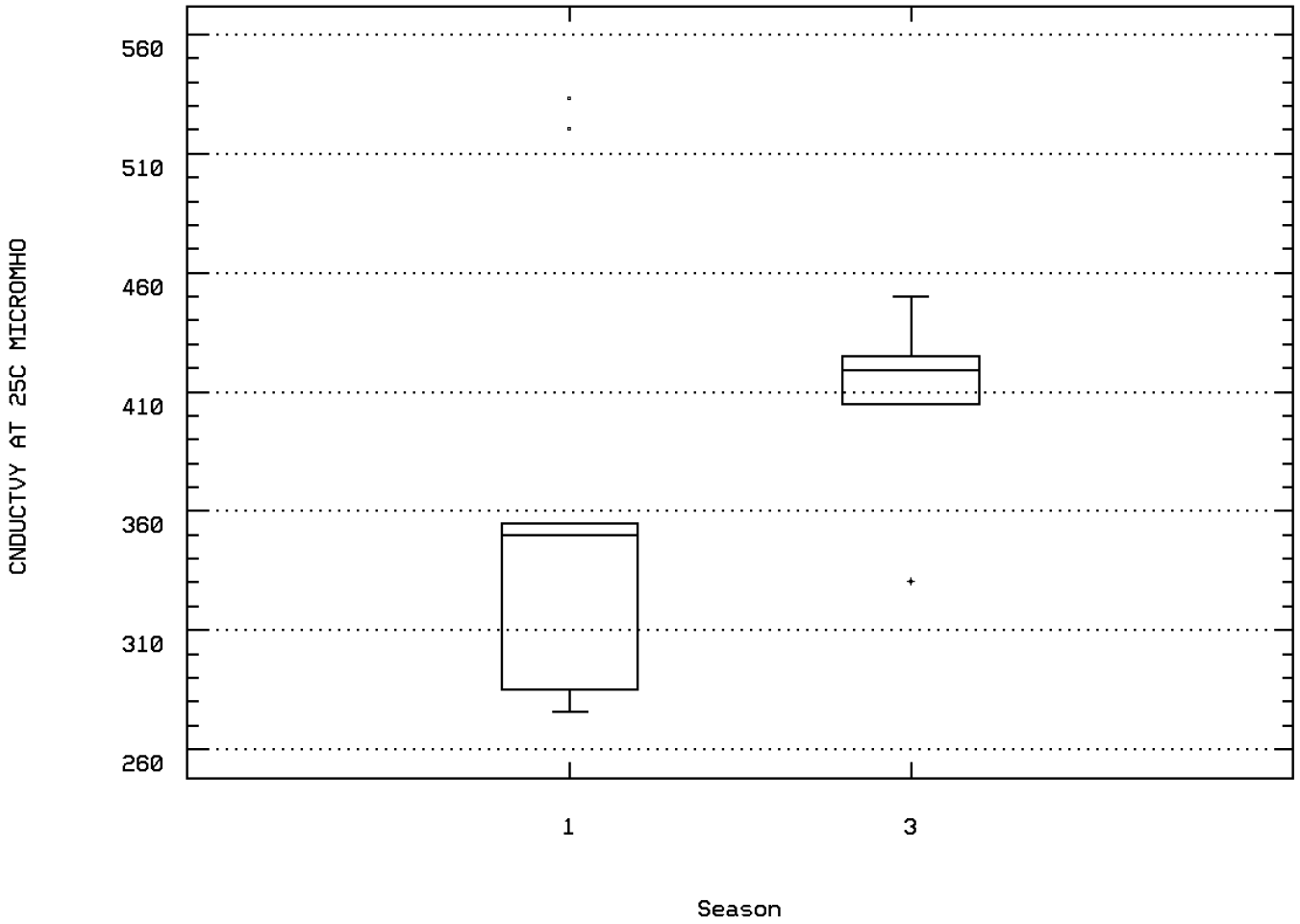
TROPIC RES AB DAM 01



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00095

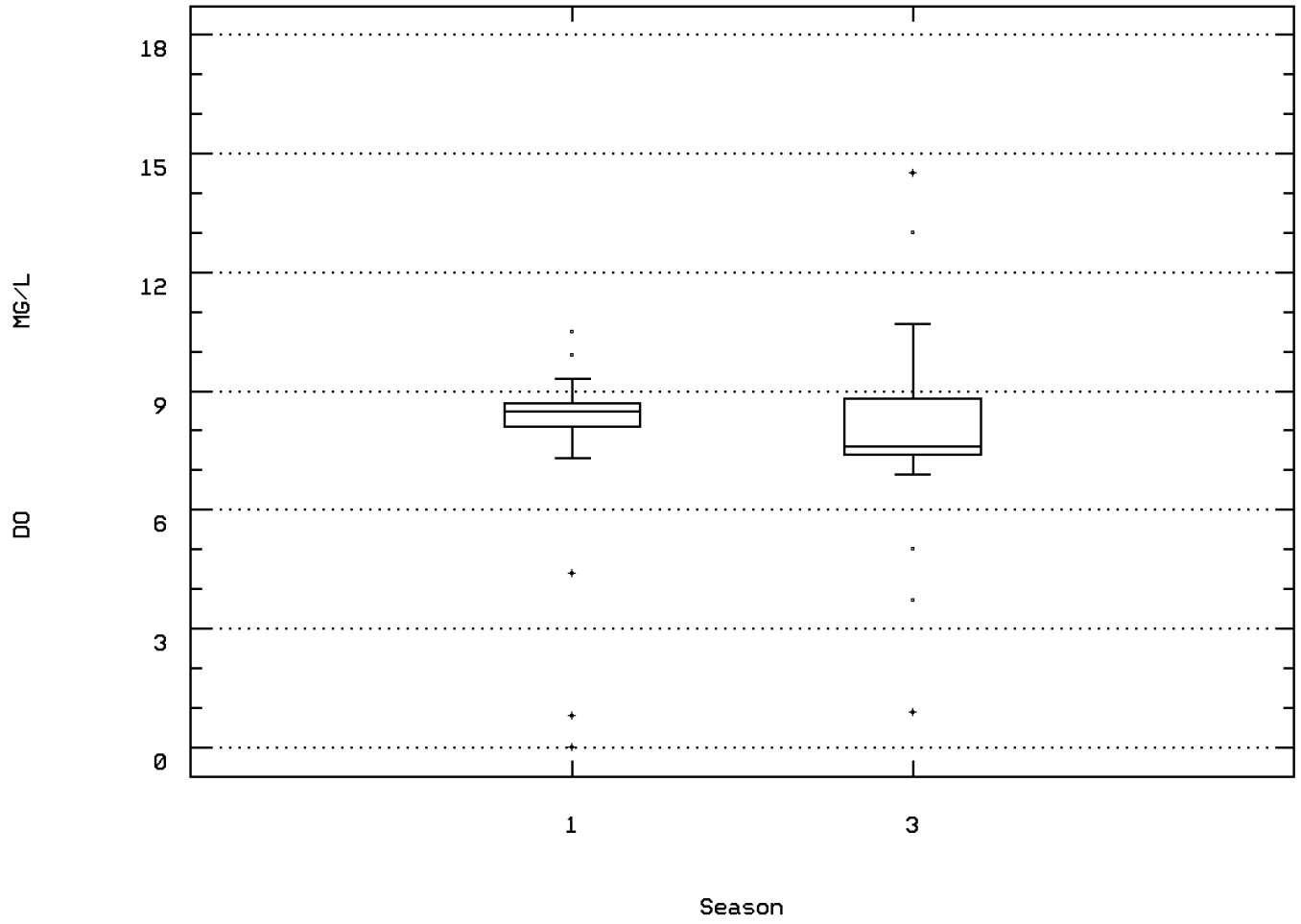
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



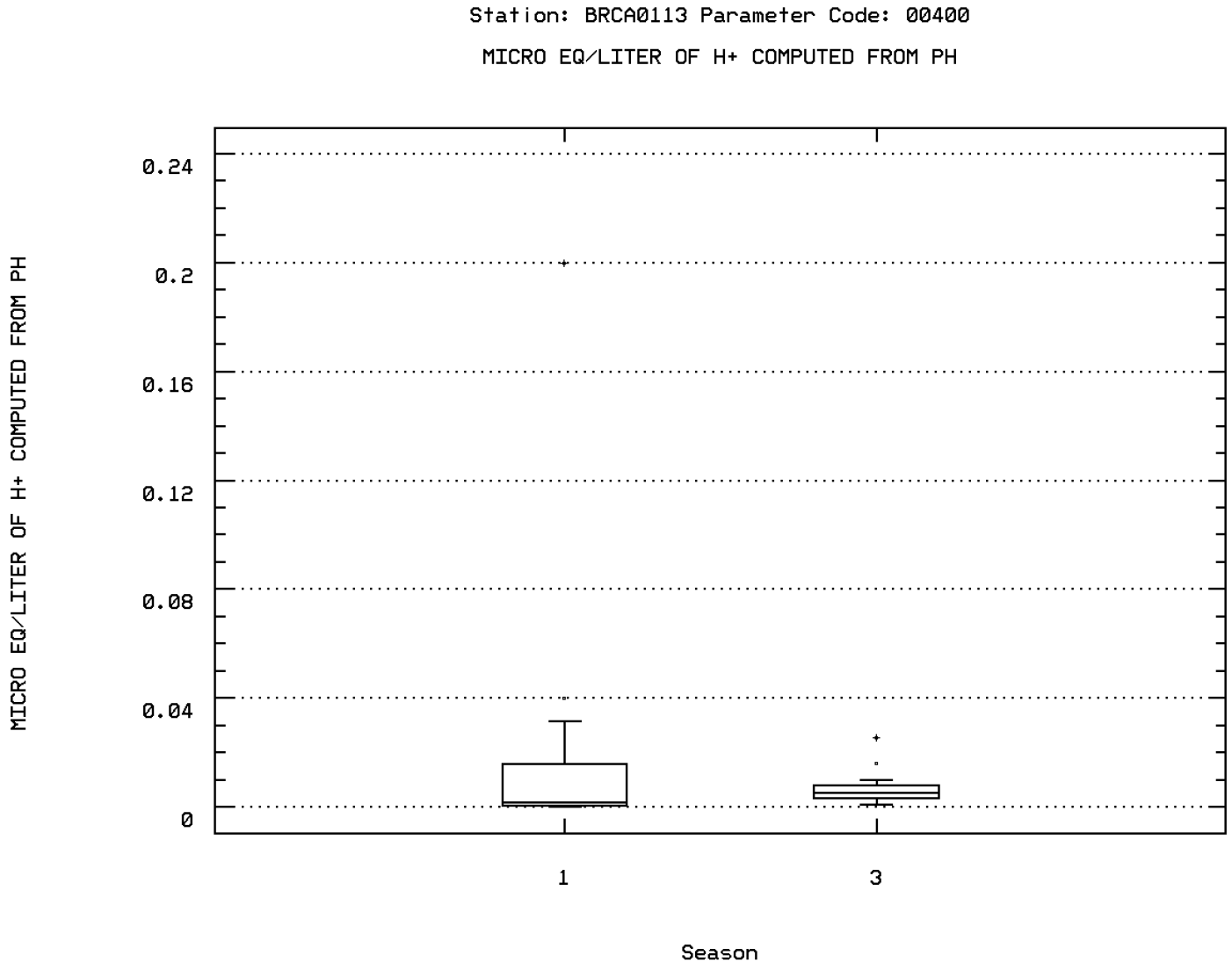
TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00300

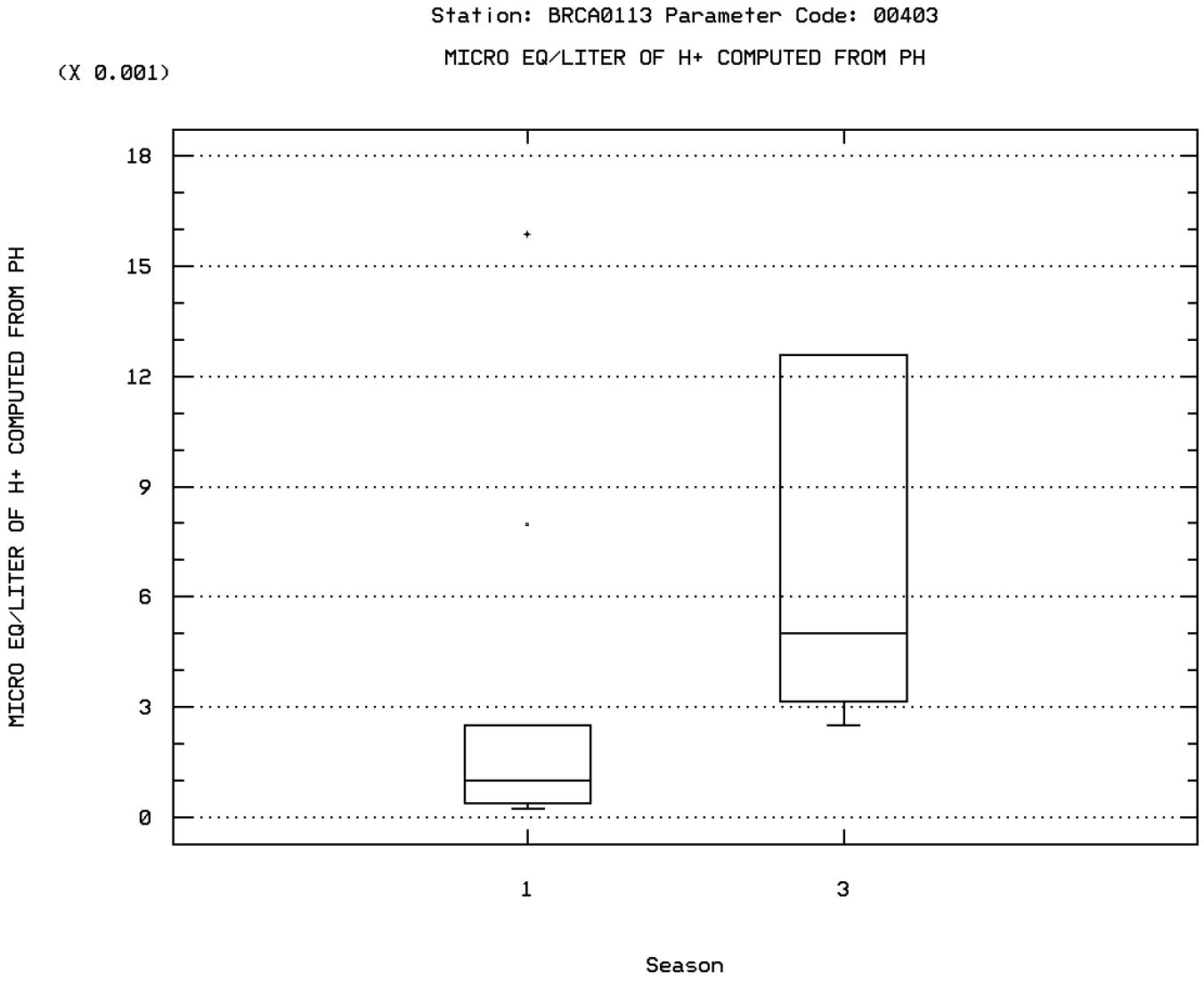
OXYGEN, DISSOLVED



TROPIC RES AB DAM 01



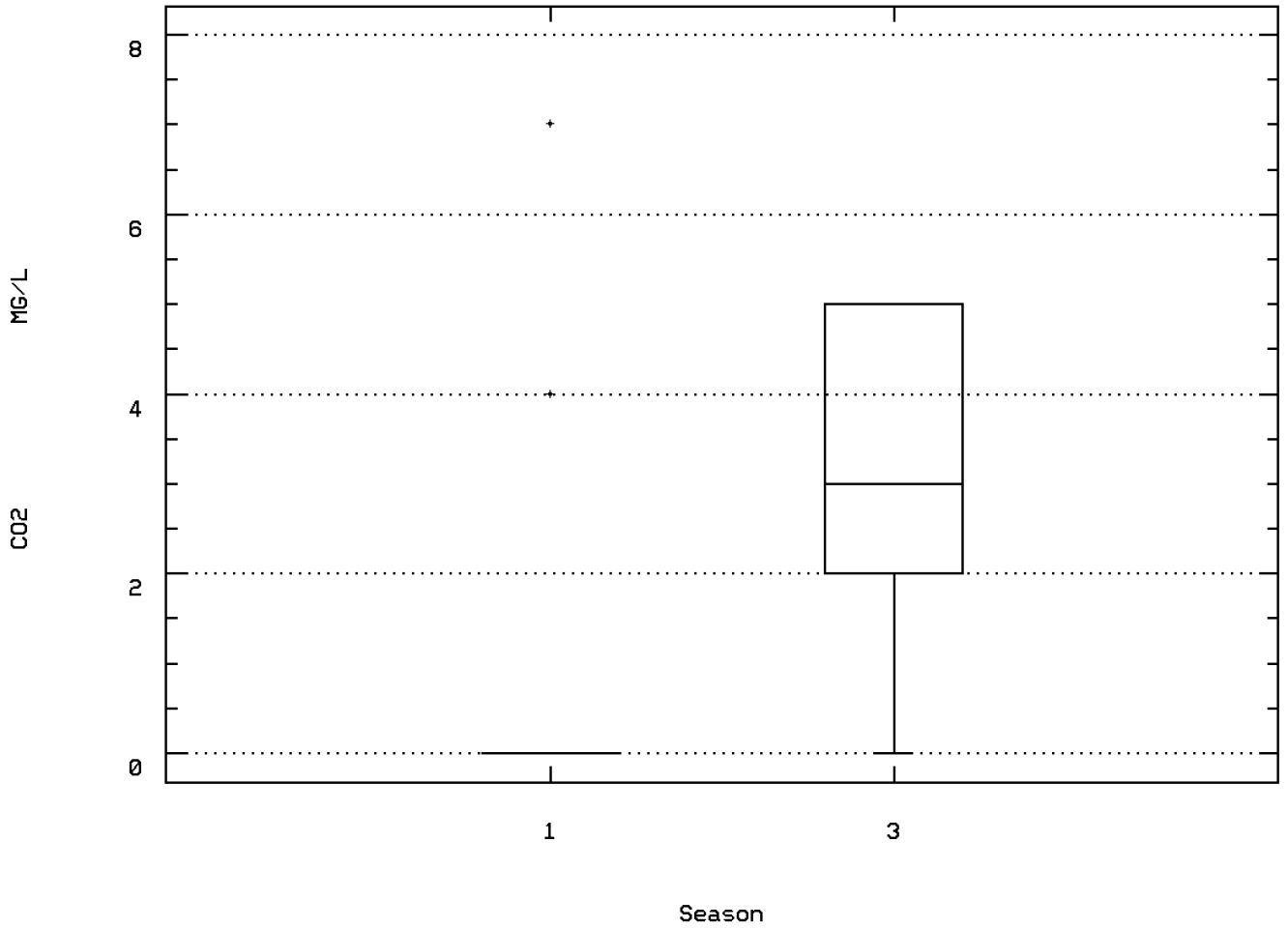
TROPIC RES AB DAM 01



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00405

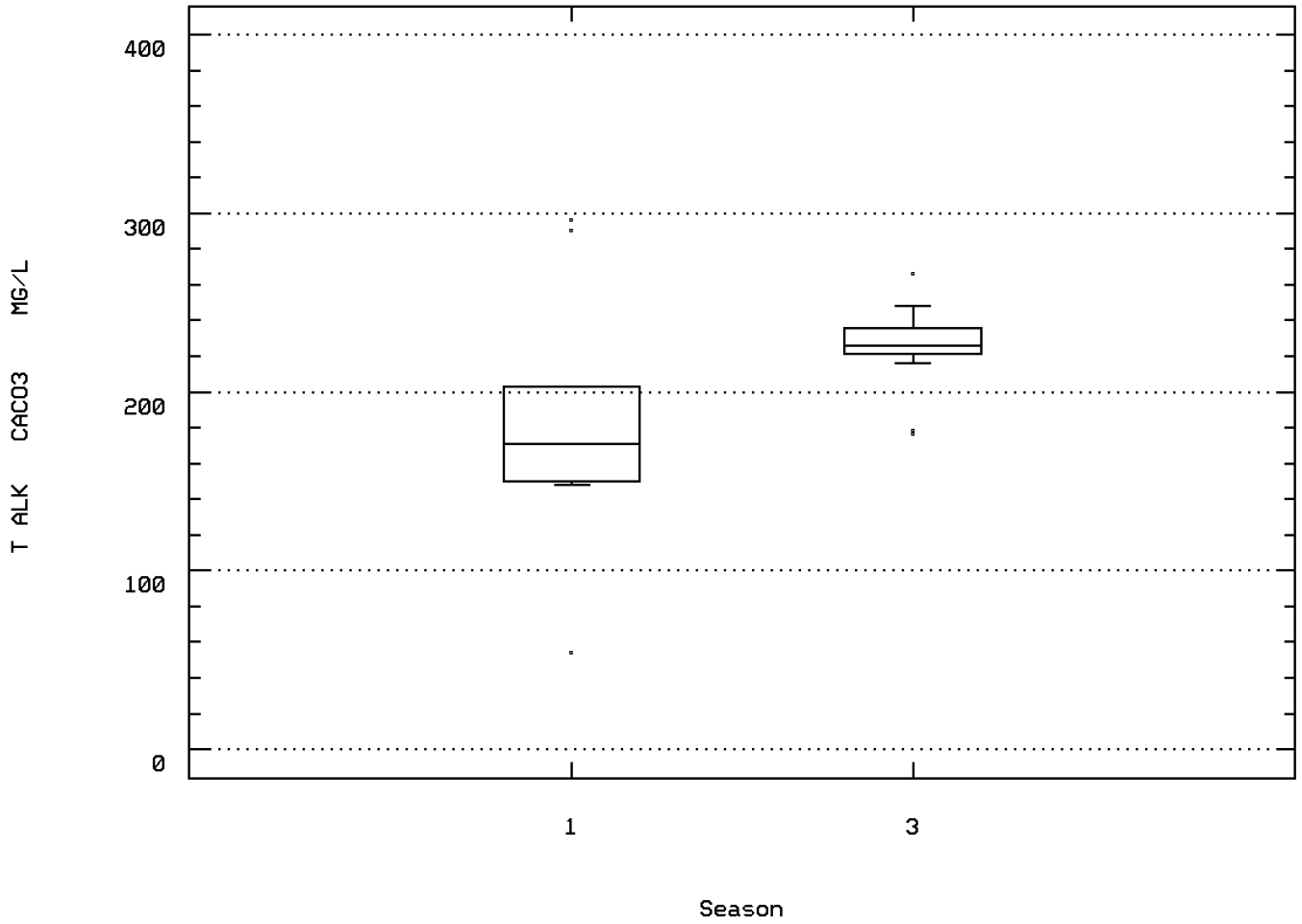
CARBON DIOXIDE (MG/L AS CO2)



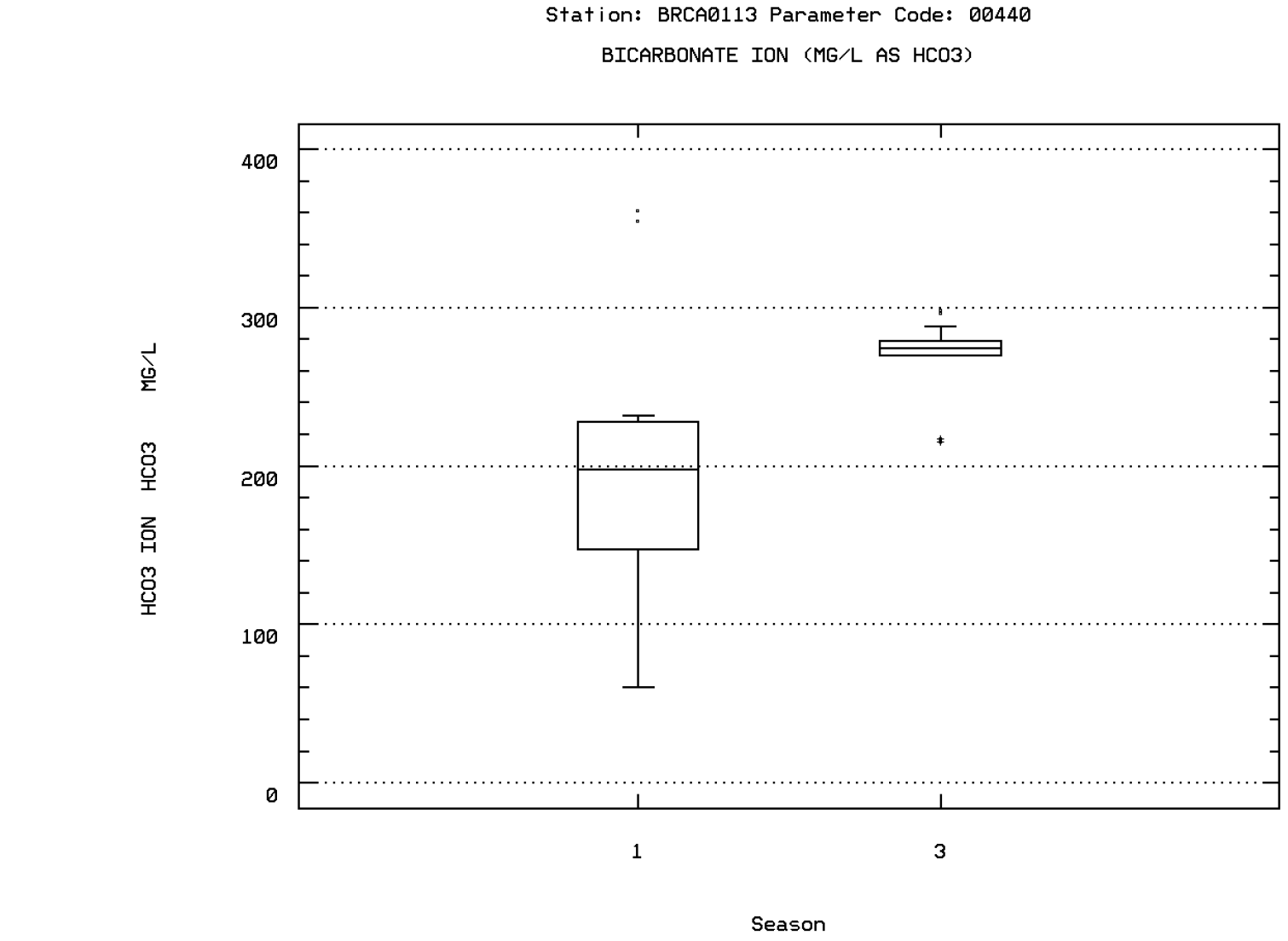
TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00410

ALKALINITY, TOTAL (MG/L AS CACO3)



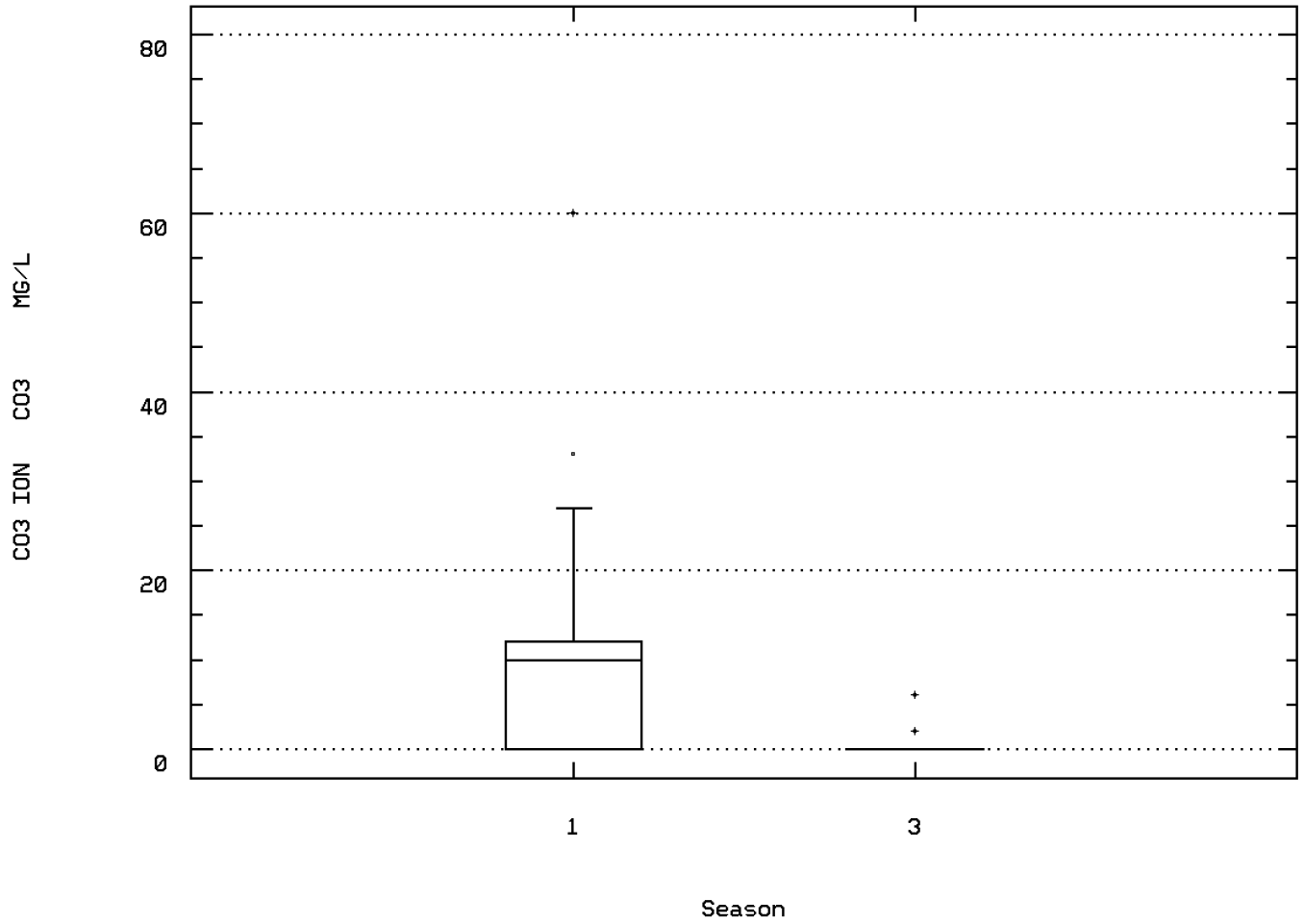
TROPIC RES AB DAM 01



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00445

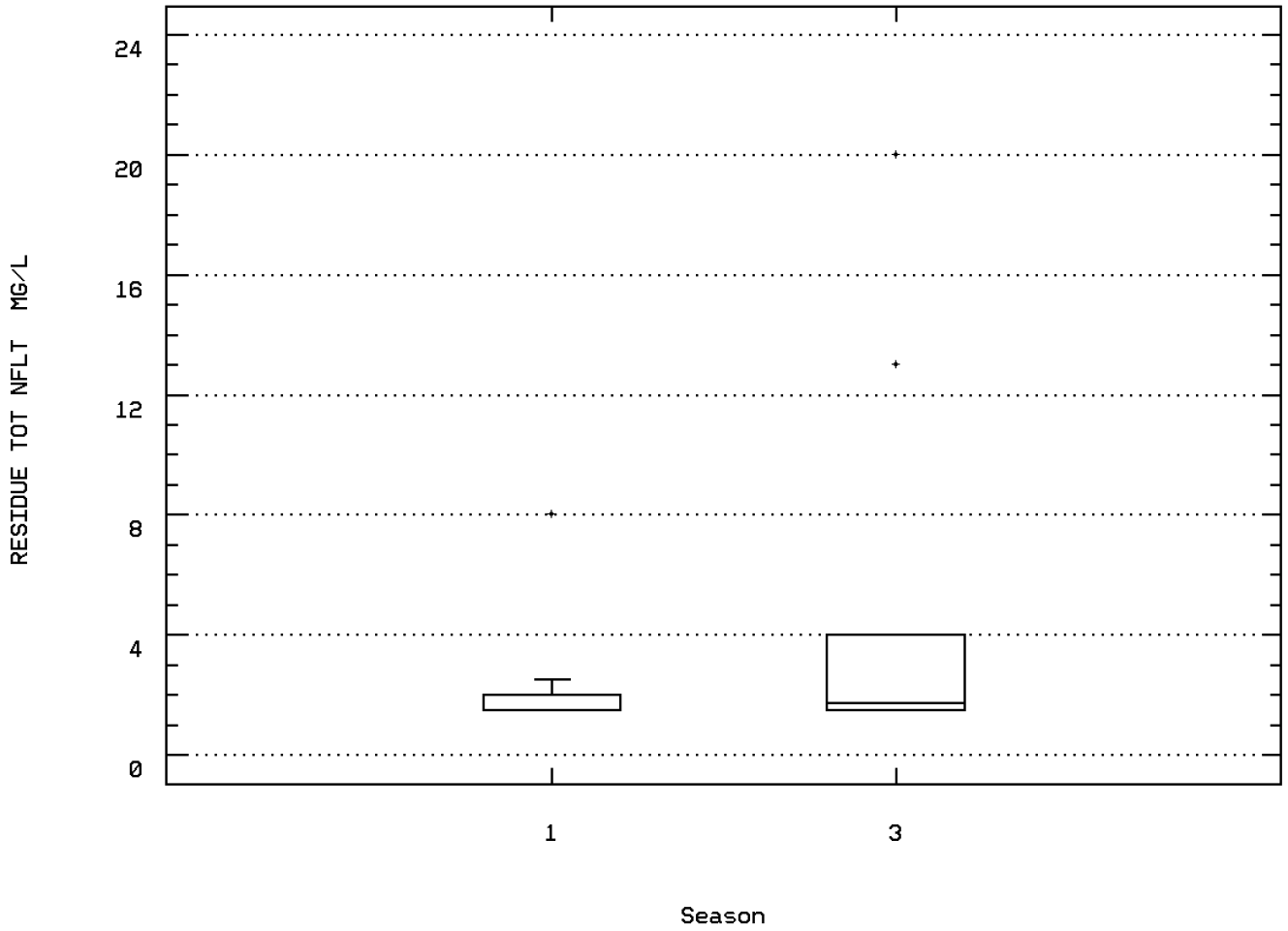
CARBONATE ION (MG/L AS CO3)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00530

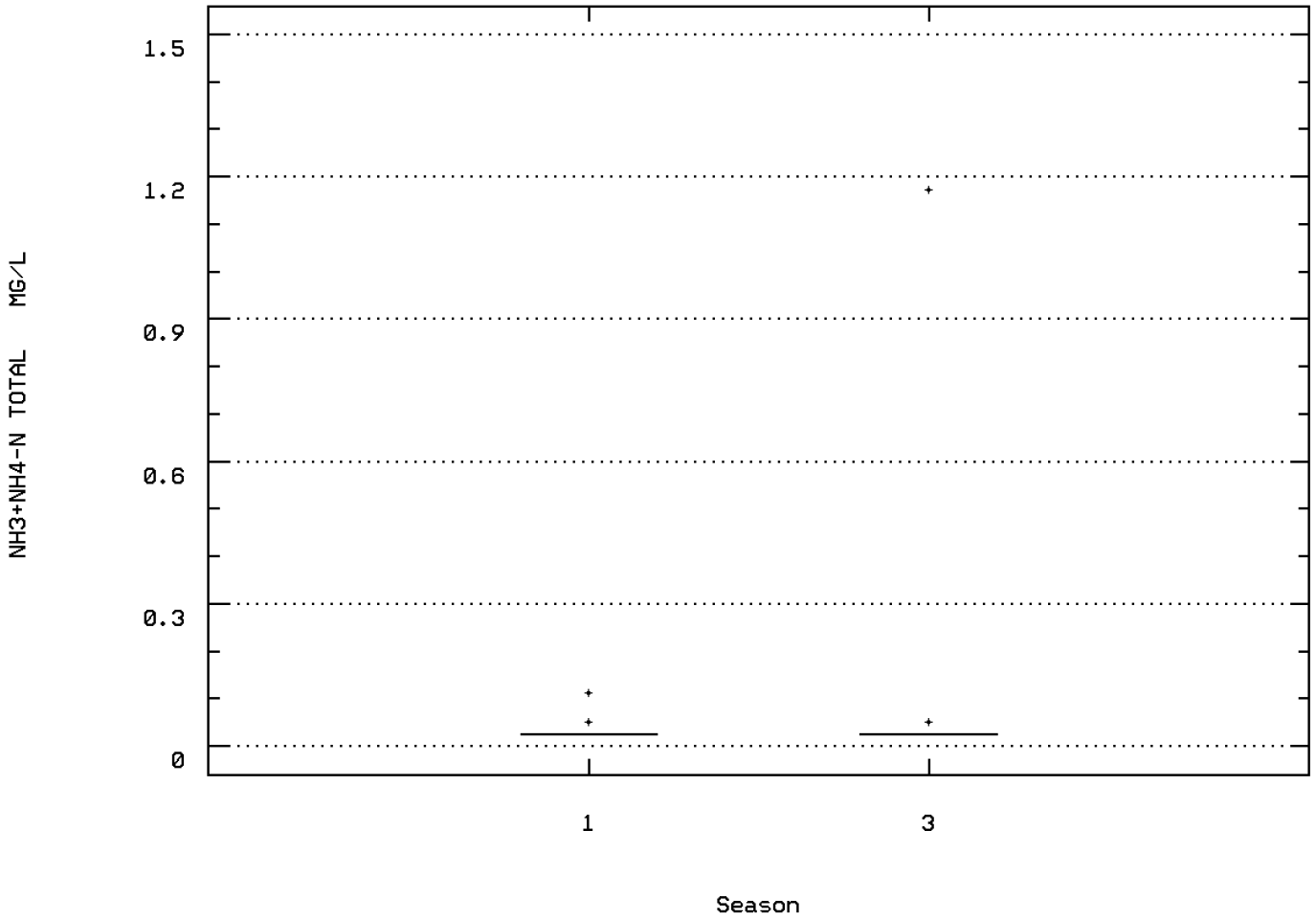
RESIDUE, TOTAL NONFILTRABLE (MG/L)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00610

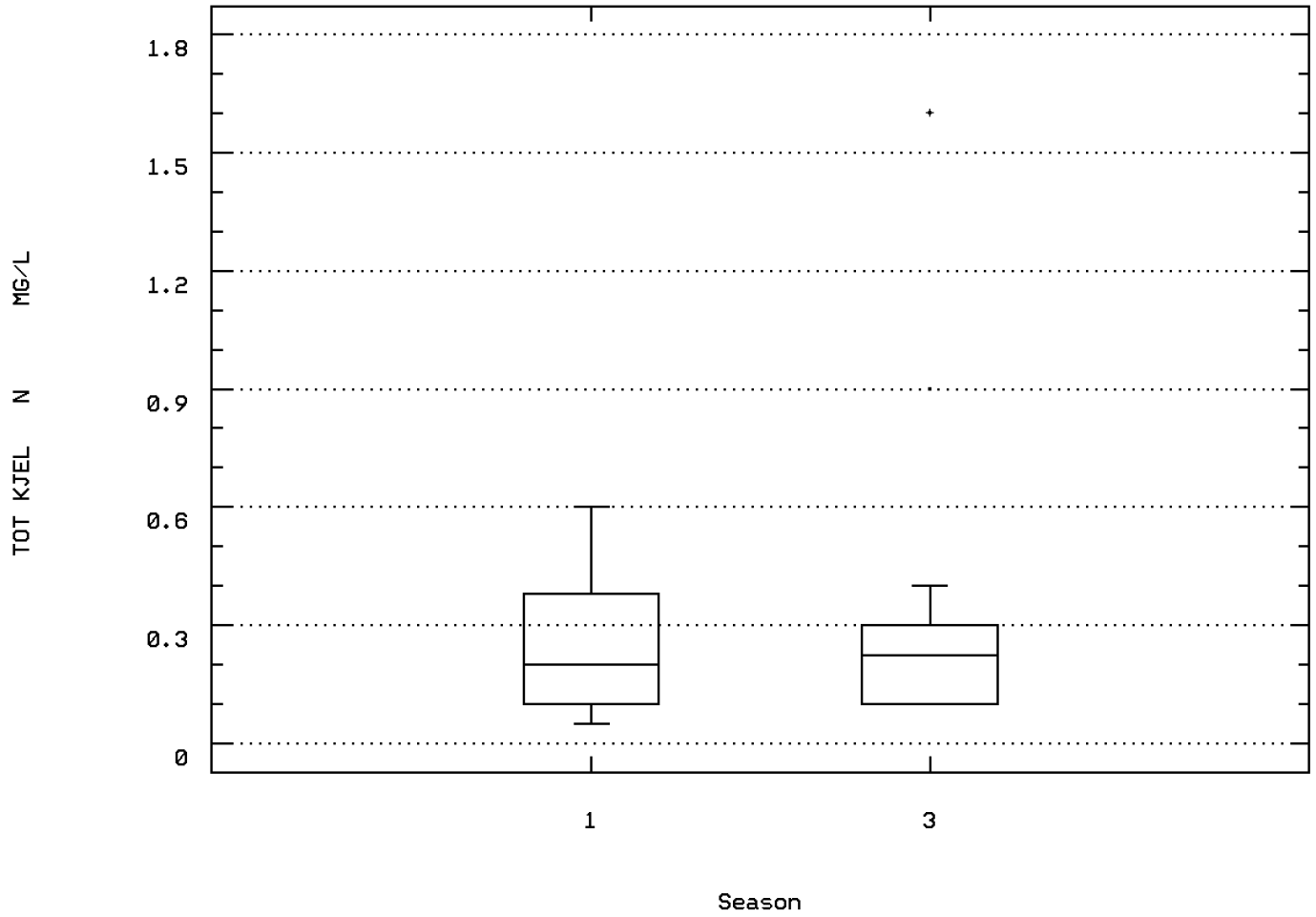
NITROGEN, AMMONIA, TOTAL (MG/L AS N)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00625

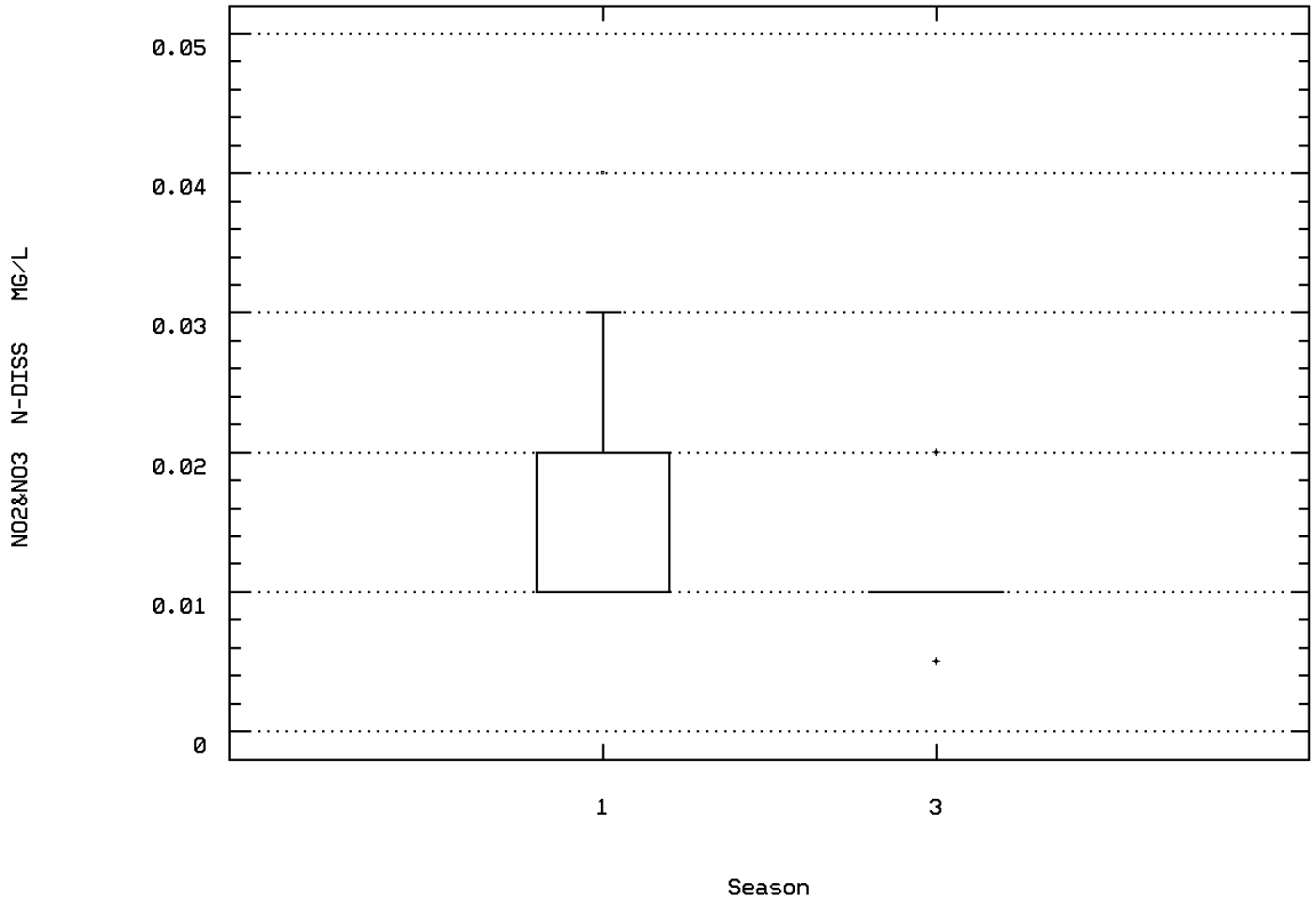
NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00631

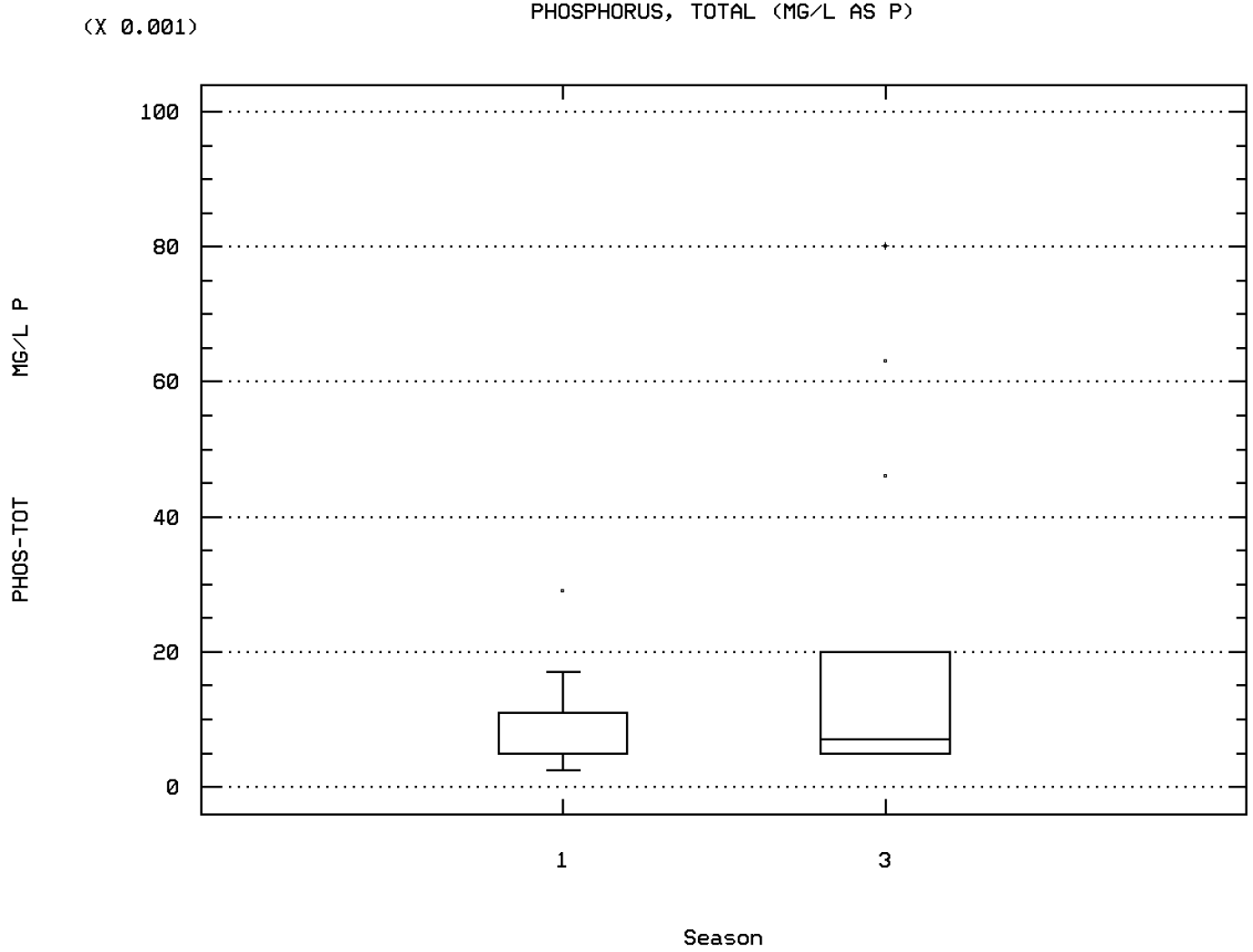
NITRITE PLUS NITRATE, DISS. 1 DET. (MG/



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00665

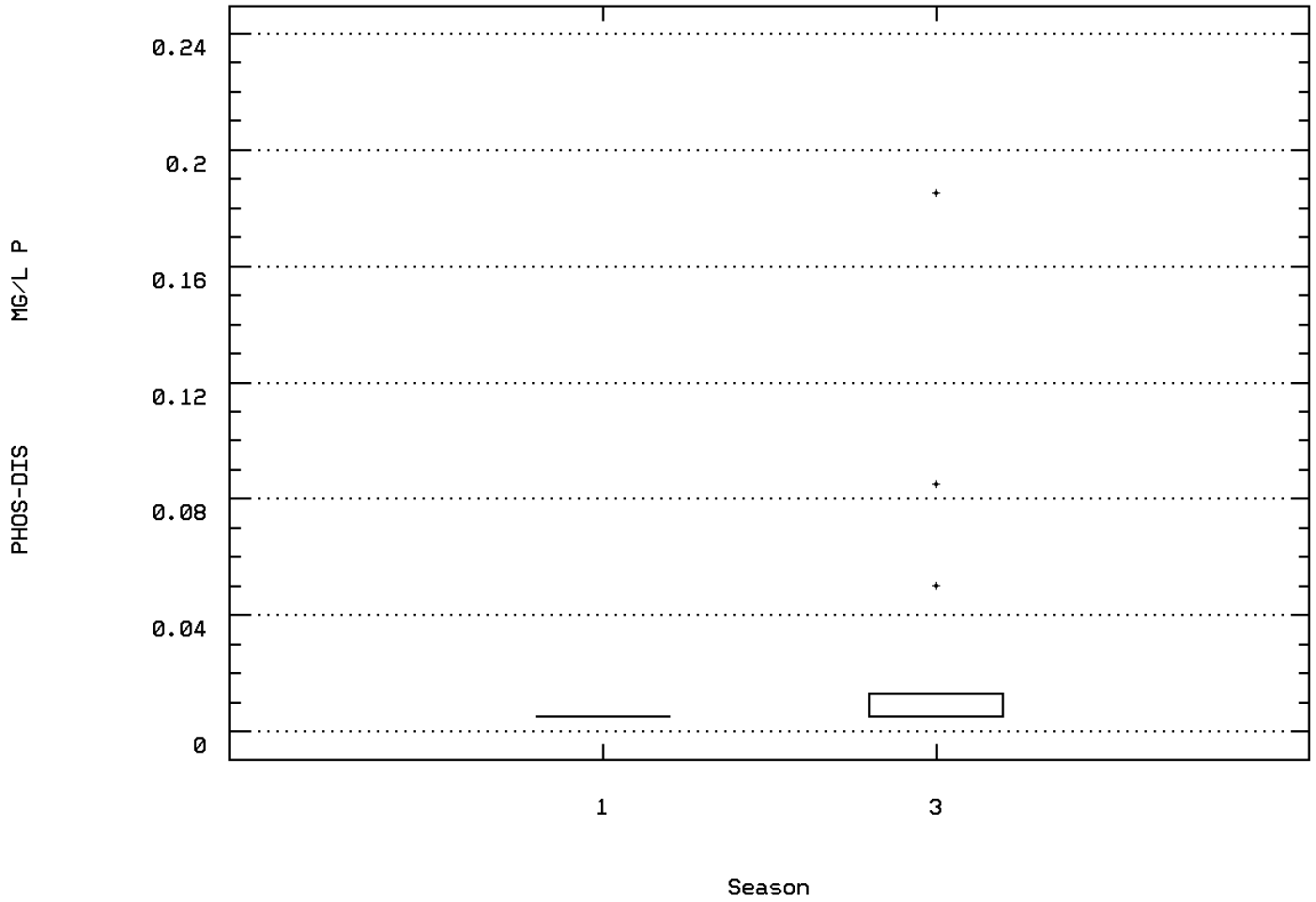
PHOSPHORUS, TOTAL (MG/L AS P)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00666

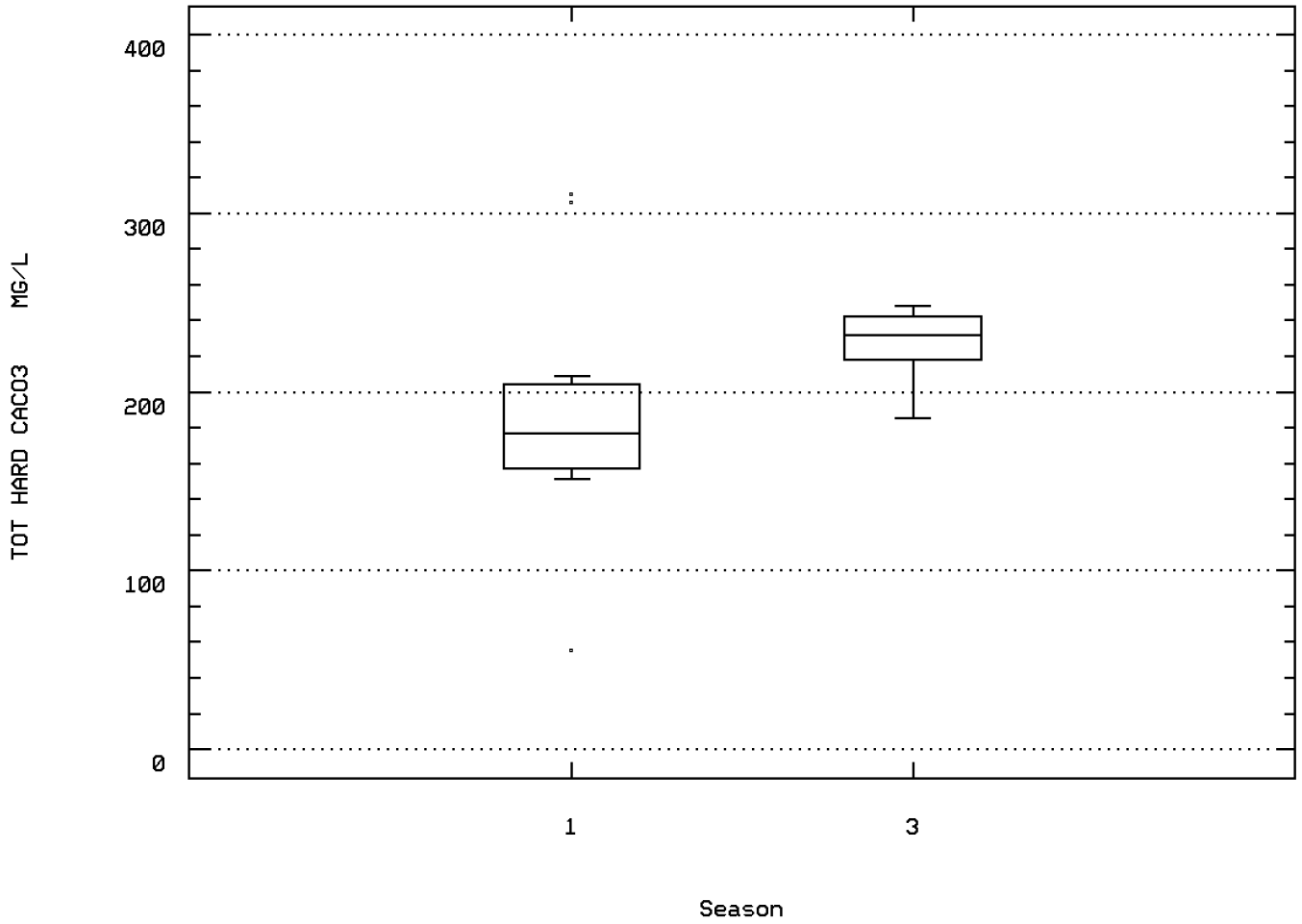
PHOSPHORUS, DISSOLVED (MG/L AS P)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00900

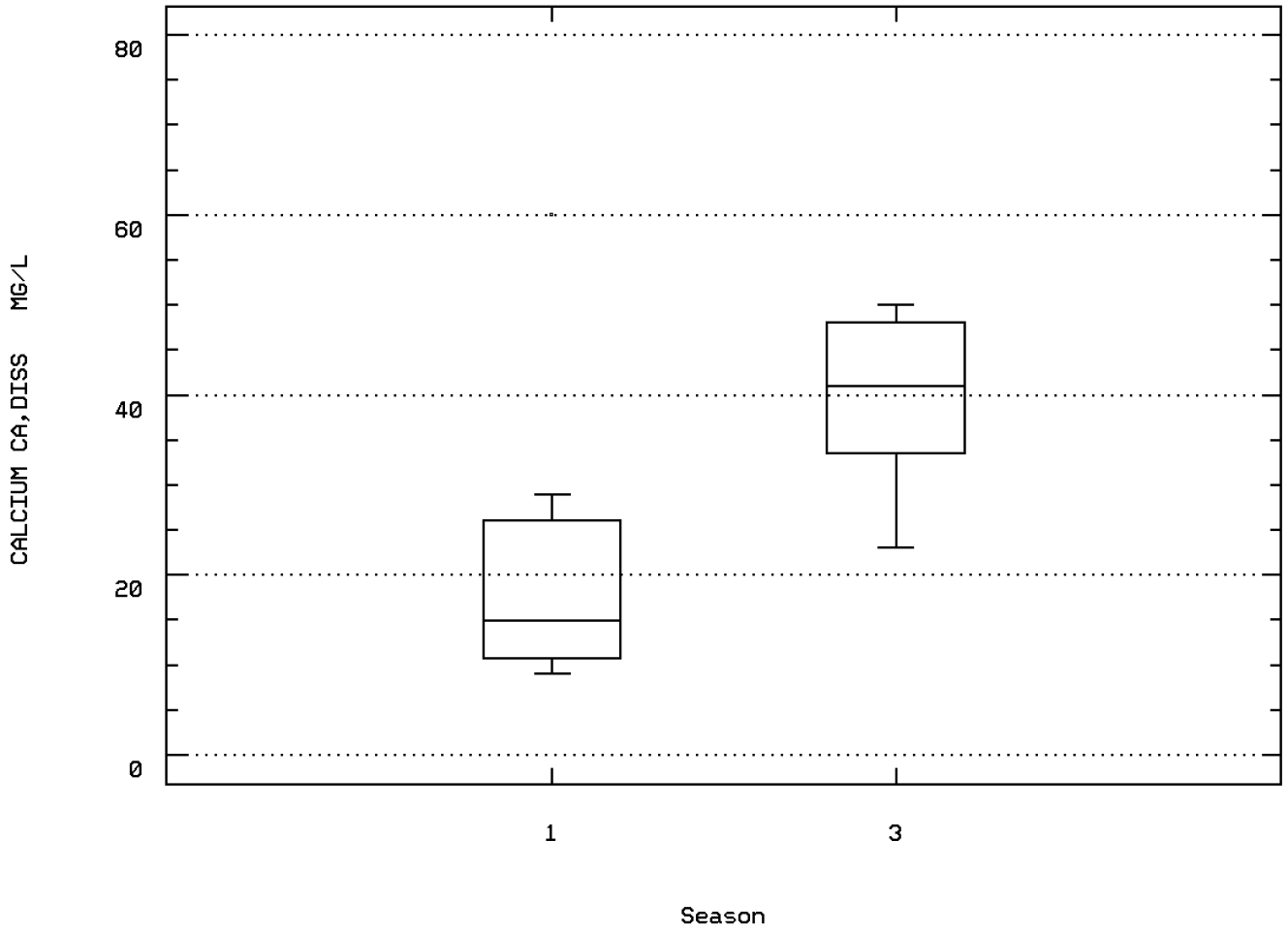
HARDNESS, TOTAL (MG/L AS CACO3)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00915

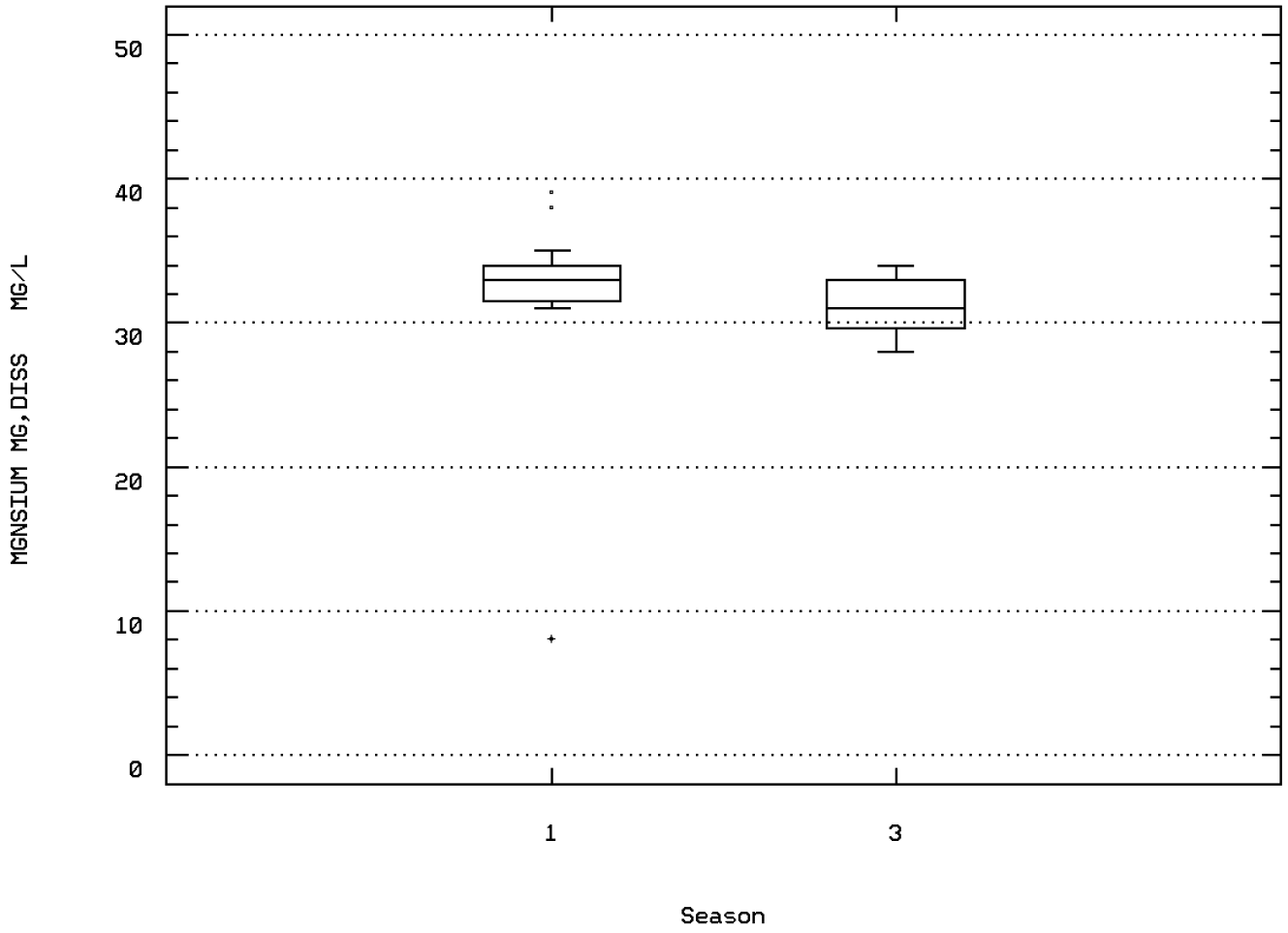
CALCIUM, DISSOLVED (MG/L AS CA)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00925

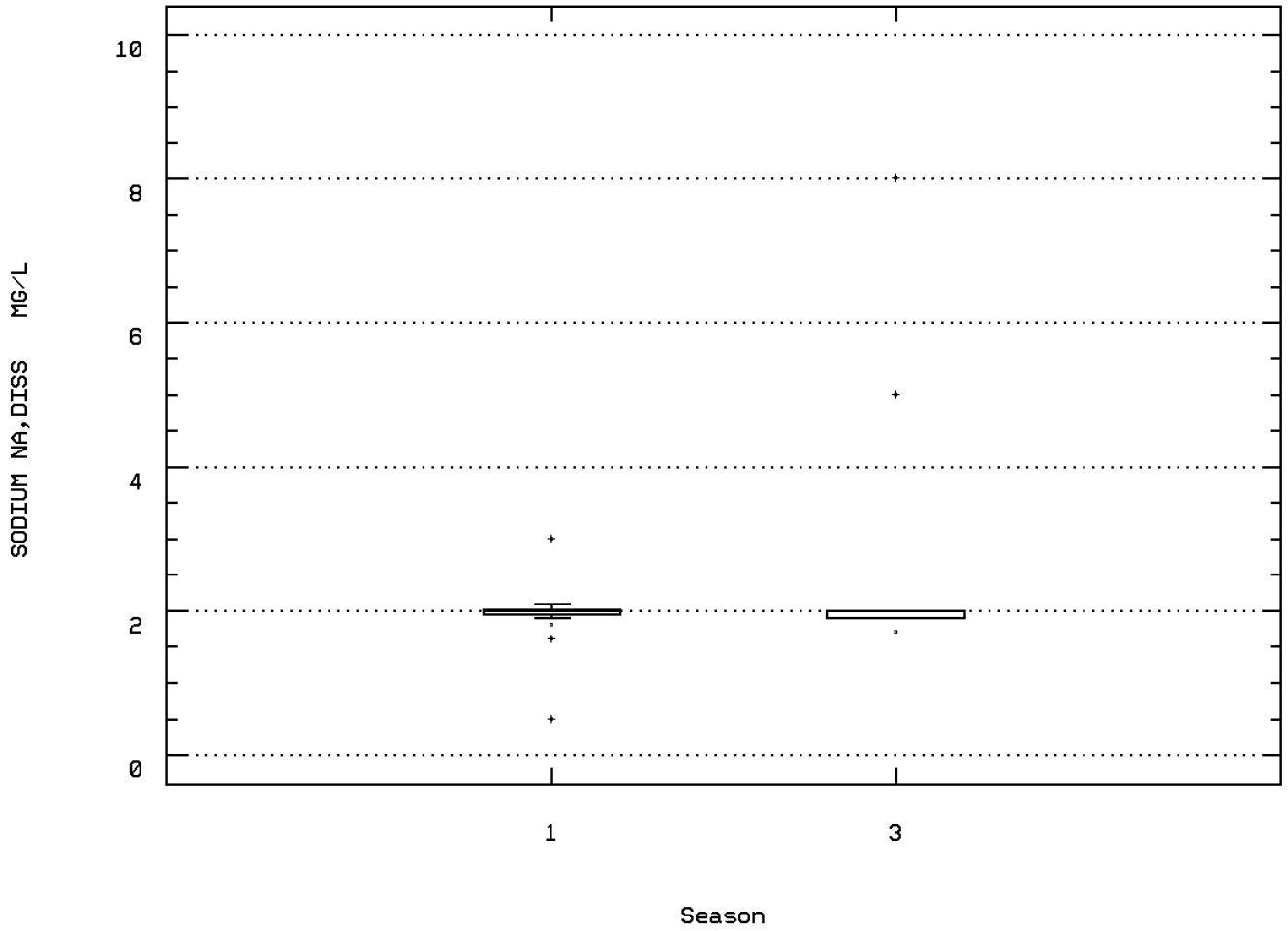
MAGNESIUM, DISSOLVED (MG/L AS MG)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00930

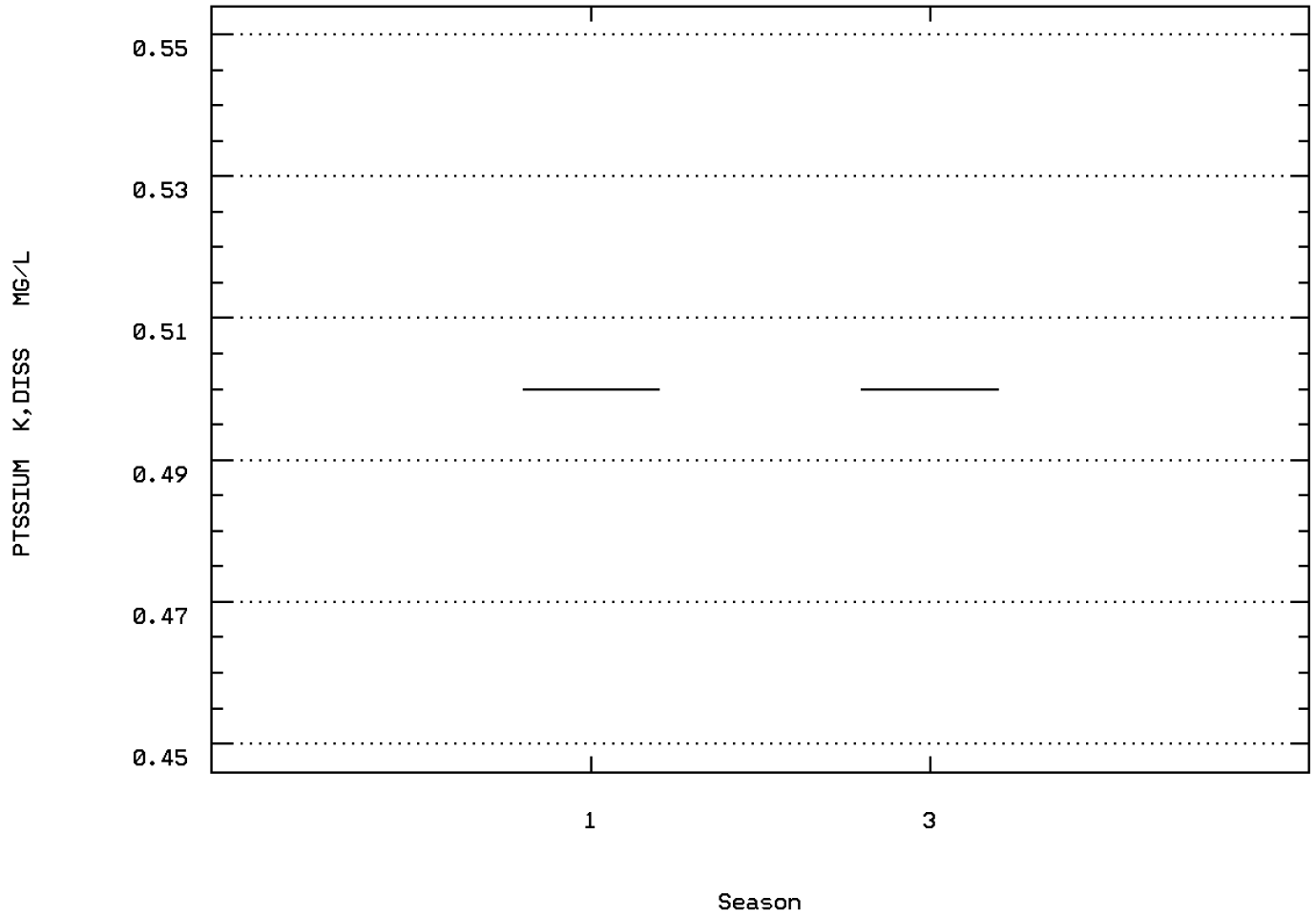
SODIUM, DISSOLVED (MG/L AS NA)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00935

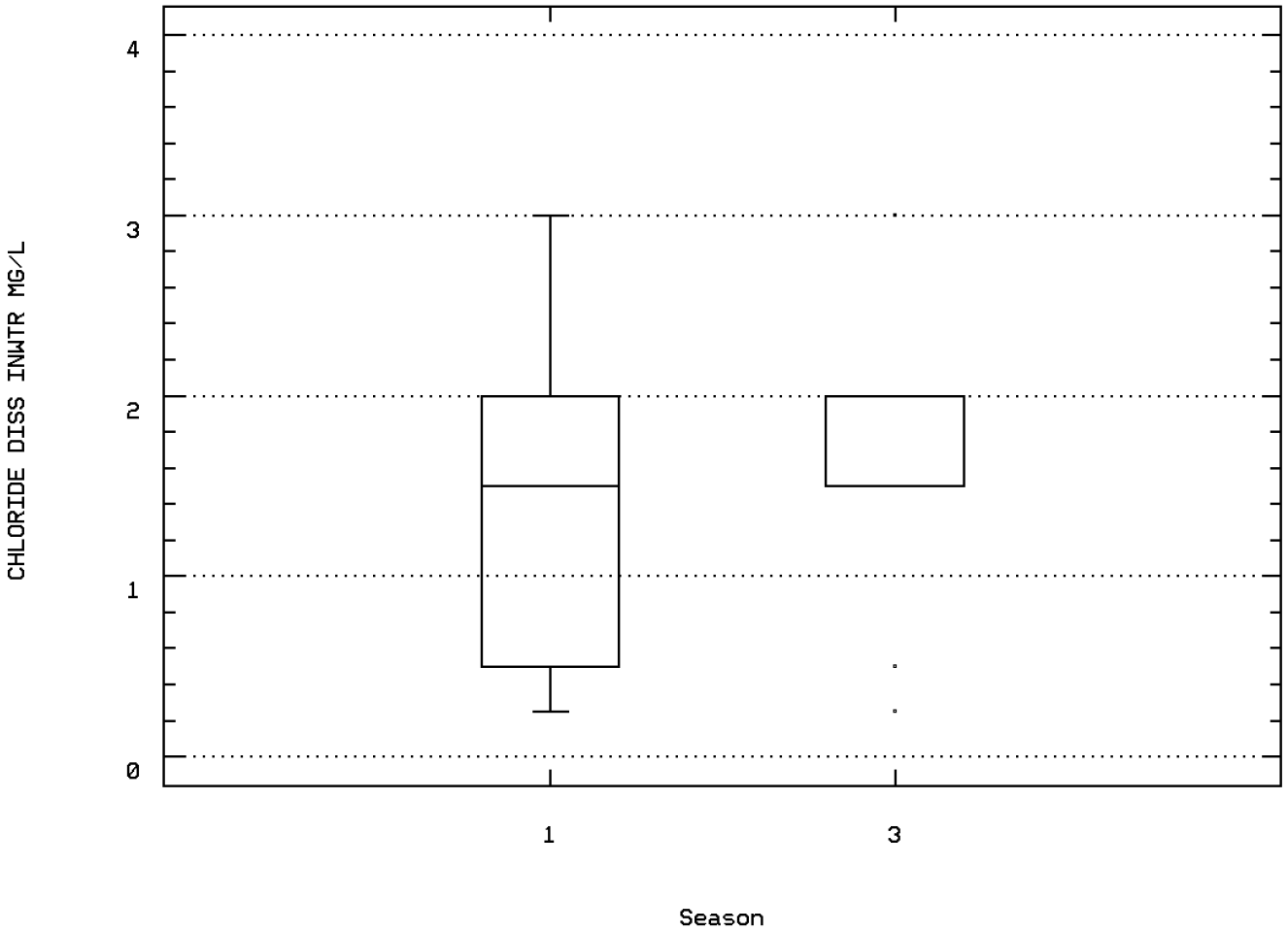
POTASSIUM, DISSOLVED (MG/L AS K)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00941

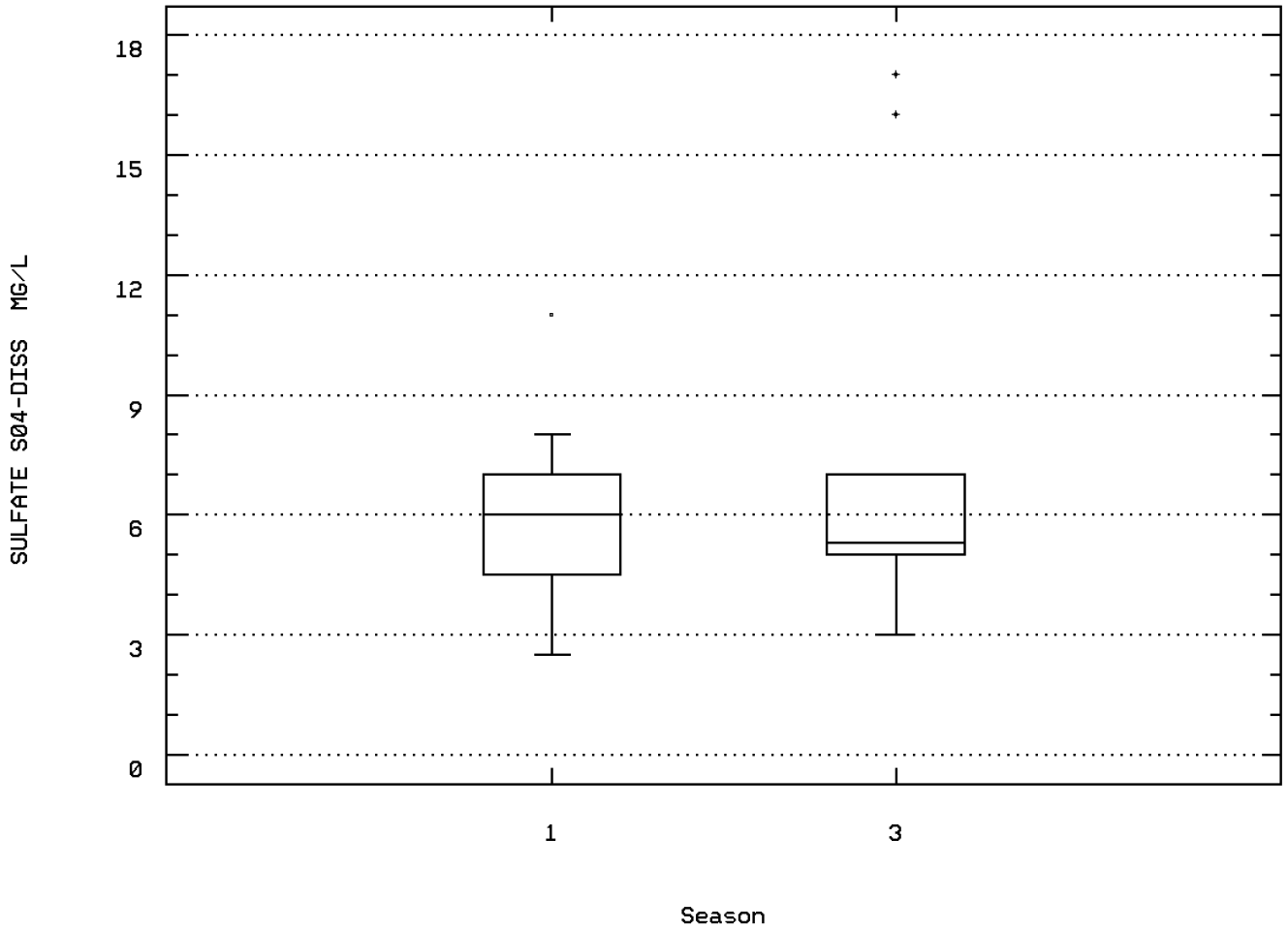
CHLORIDE, DISSOLVED IN WATER



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 00946

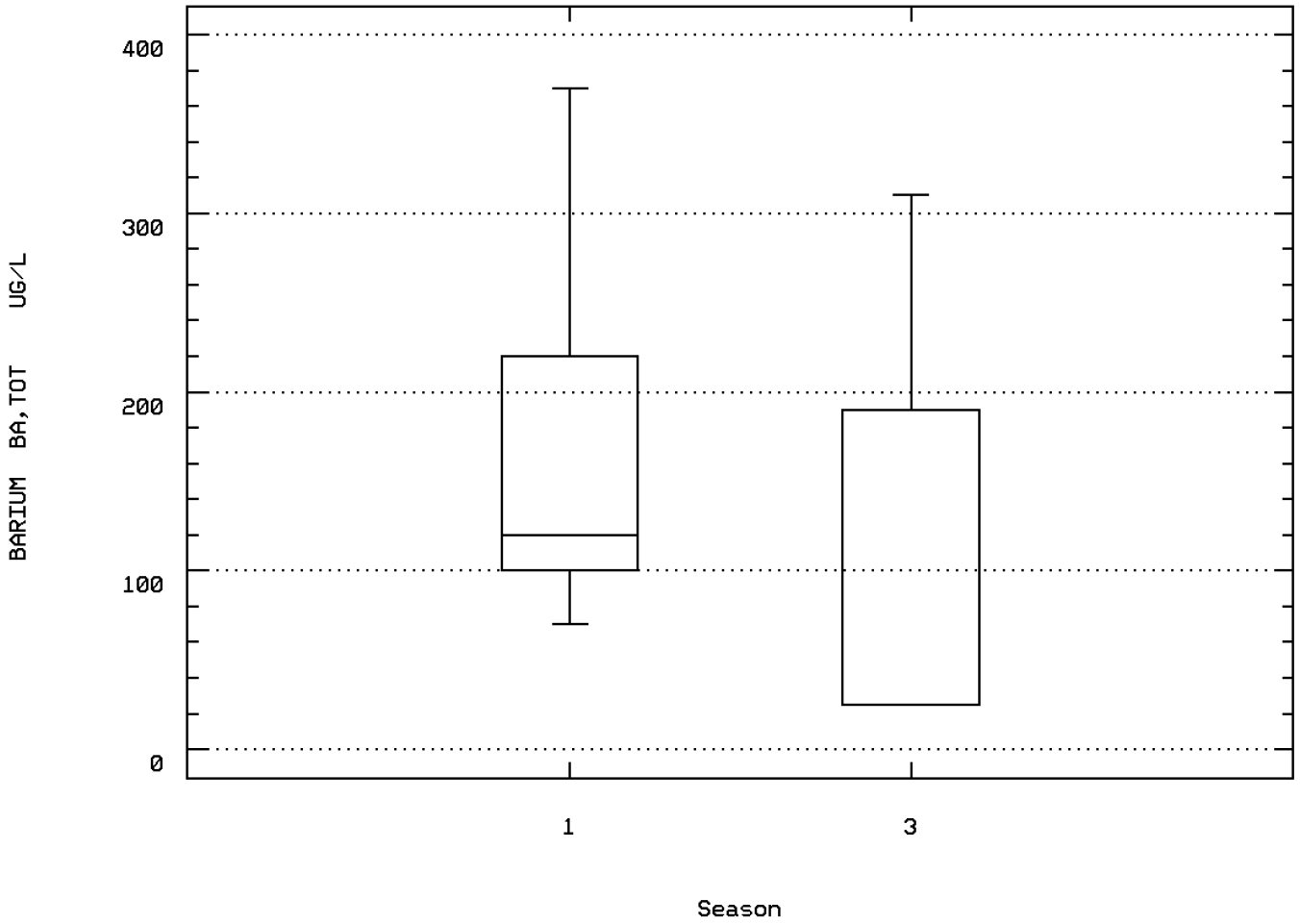
SULFATE, DISSOLVED (MG/L AS SO4)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 01007

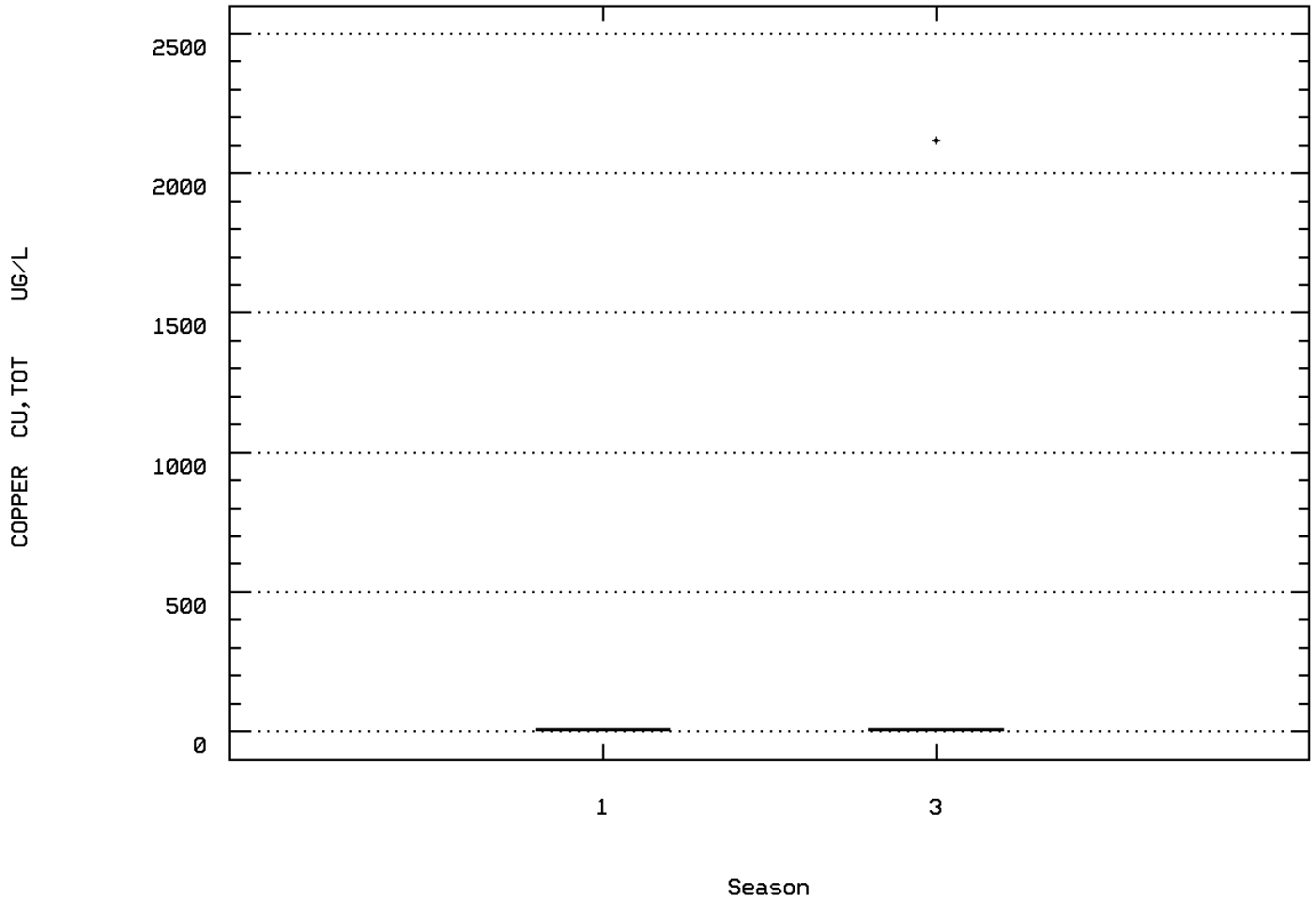
BARIUM, TOTAL (UG/L AS BA)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 01042

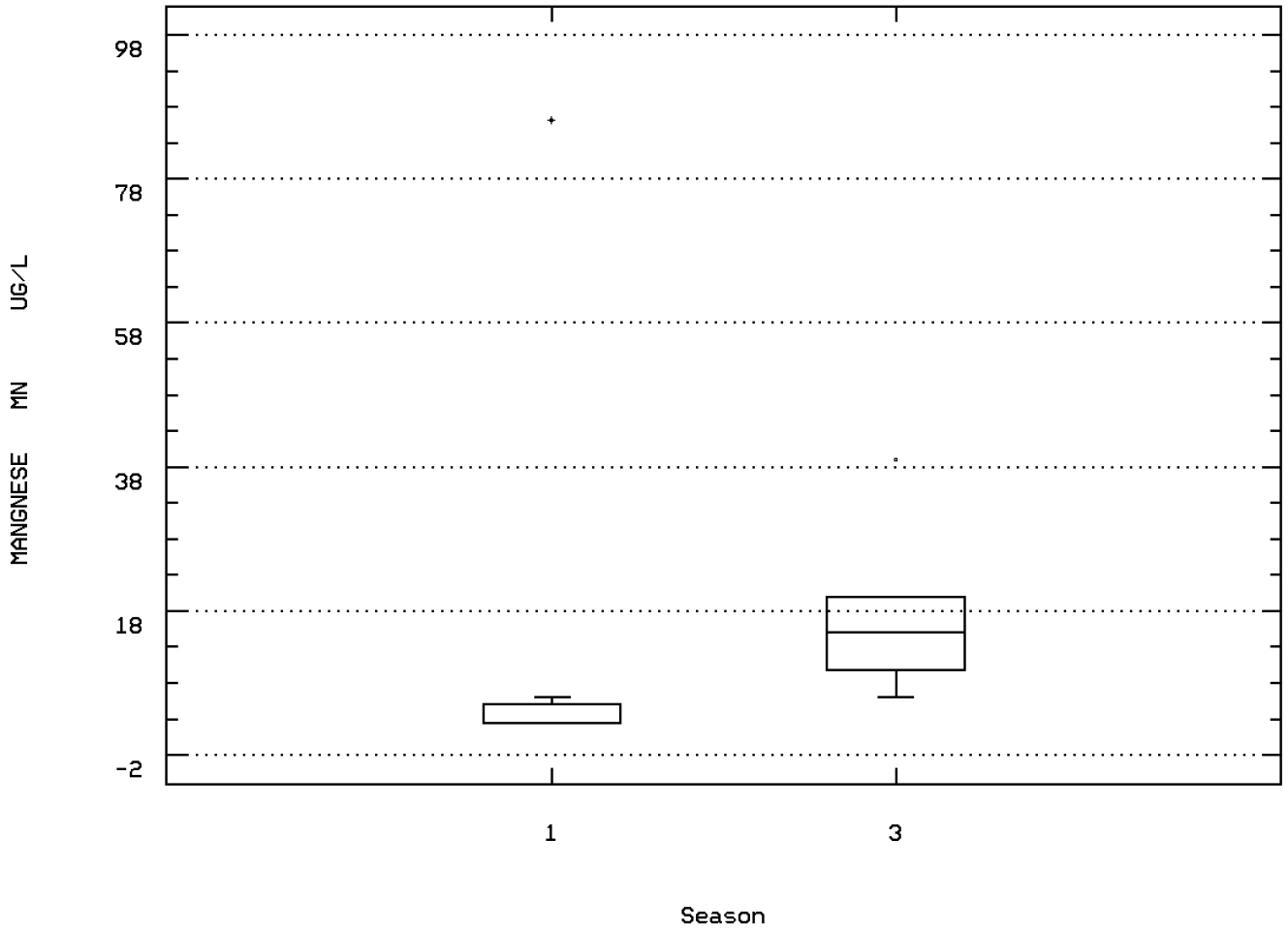
COPPER, TOTAL (UG/L AS CU)



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 01055

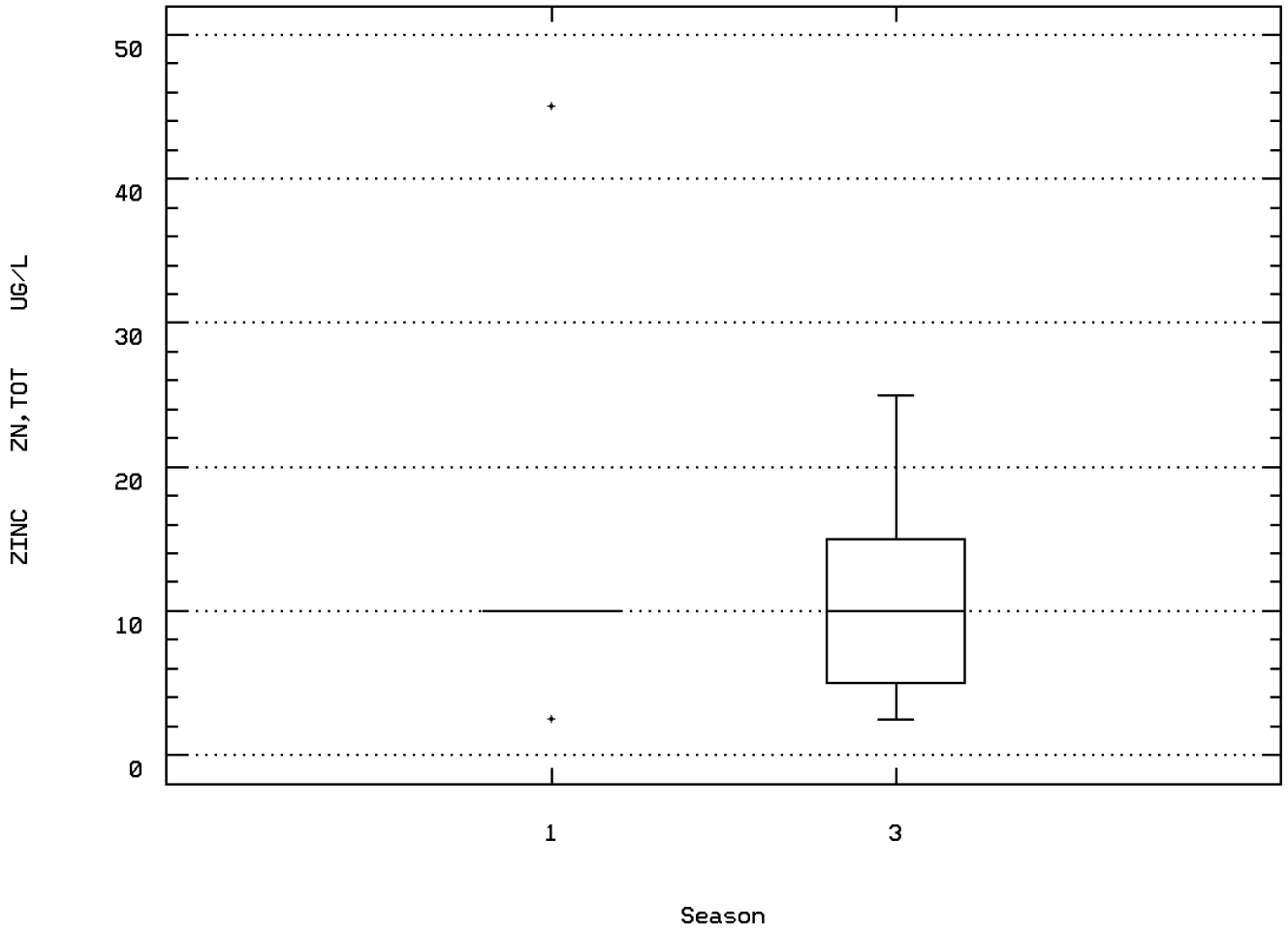
MANGANESE, TOTAL (UG/L AS MN)



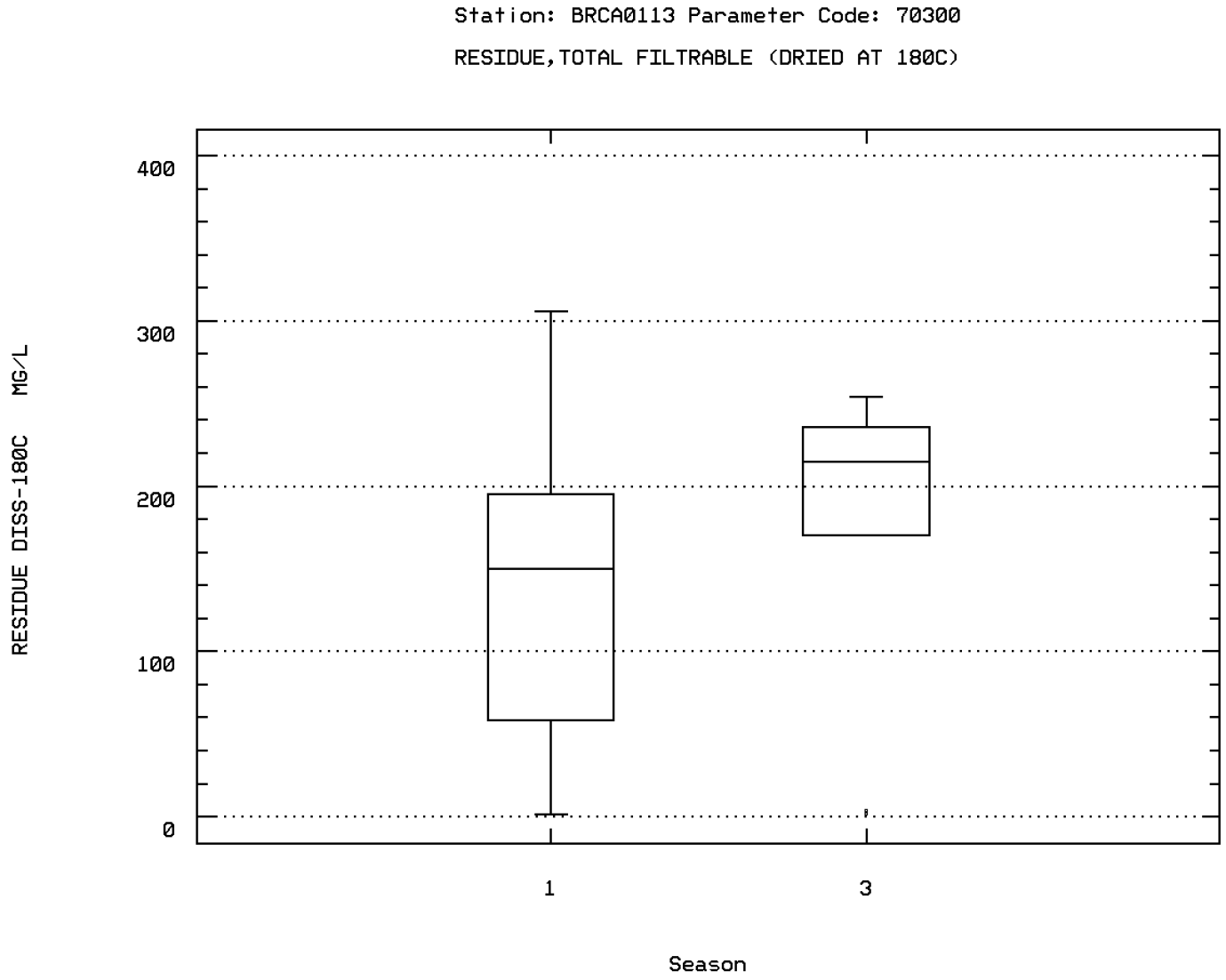
TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 01092

ZINC, TOTAL (UG/L AS ZN)



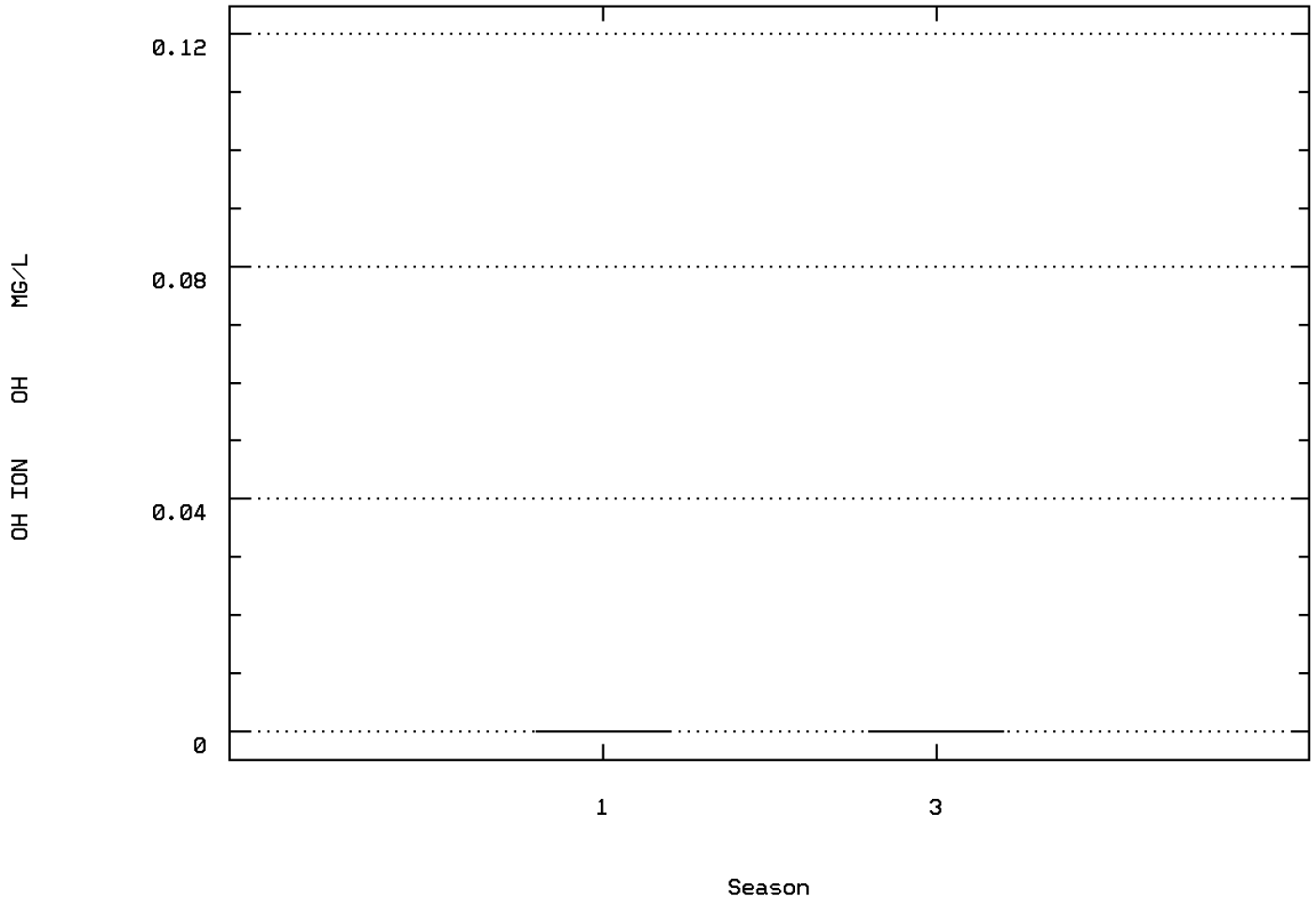
TROPIC RES AB DAM 01



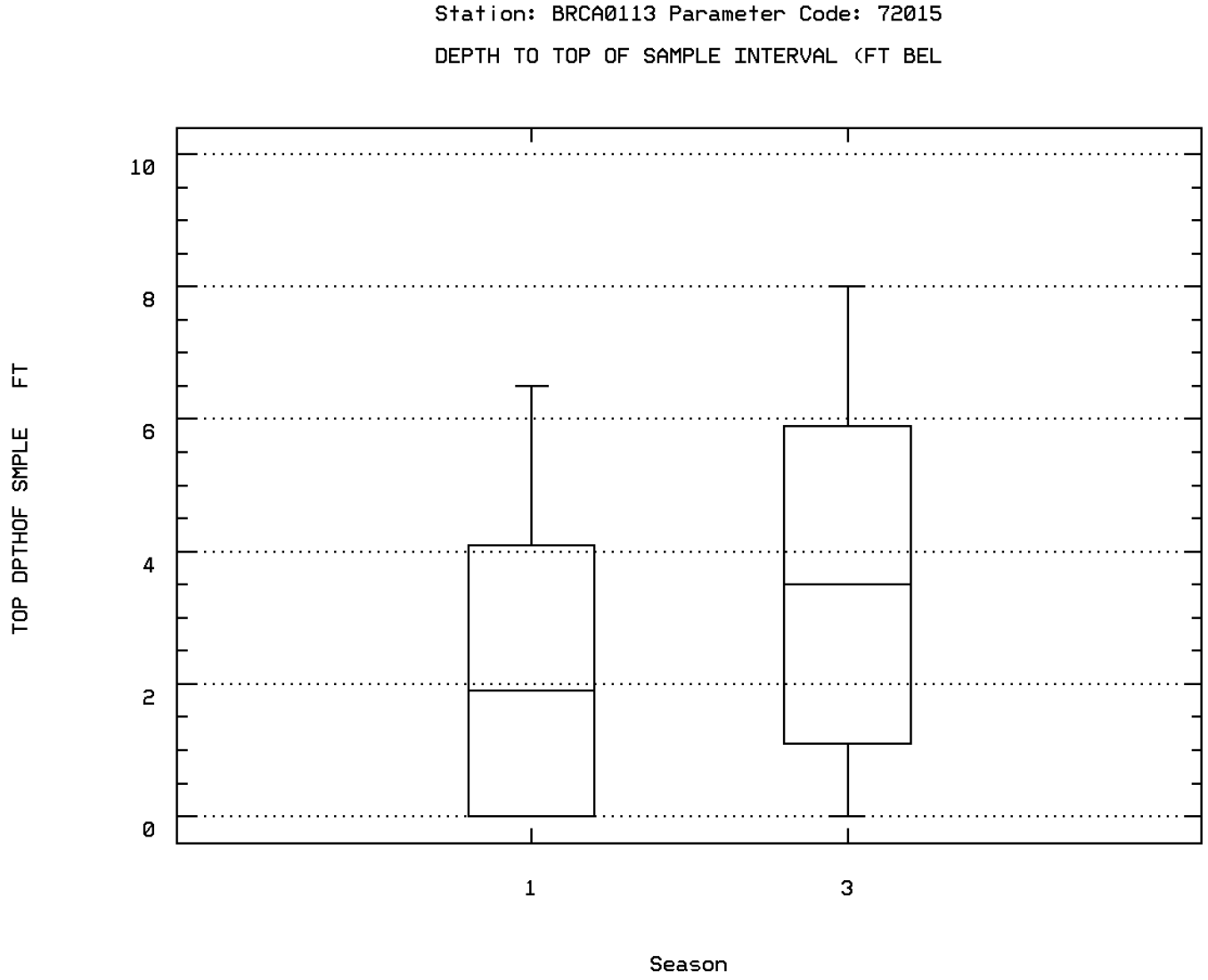
TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 71830

HYDROXIDE ION (MG/L AS OH)



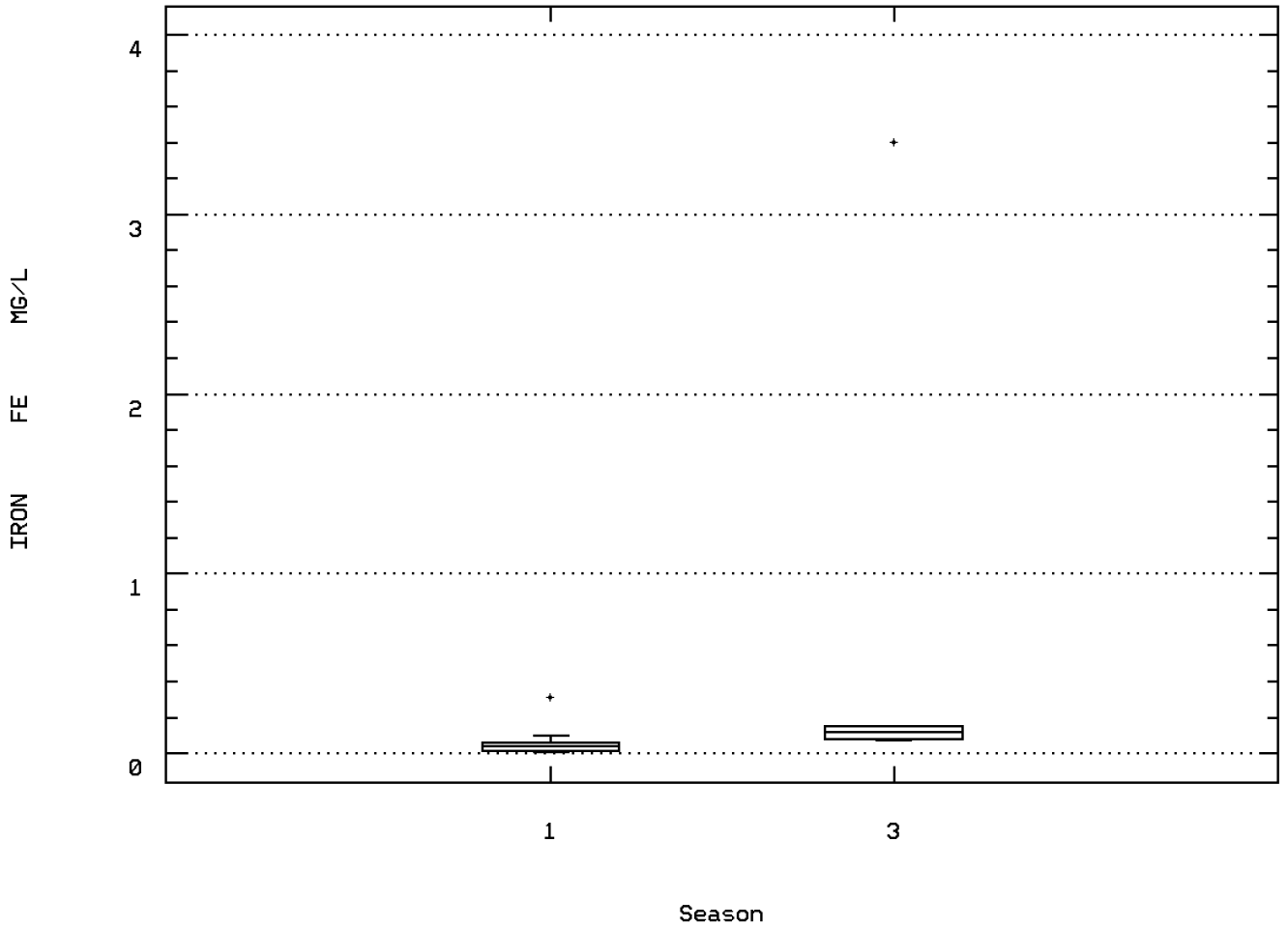
TROPIC RES AB DAM 01



TROPIC RES AB DAM 01

Station: BRCA0113 Parameter Code: 74010

IRON, TOTAL (MG/L AS FE)



TROPIC RES AB DAM 01

Station Inventory for Station: BRCA0114

NPS Station ID: BRCA0114 LAT/LON: 37.611115/-112.254726 Agency: 11EPALES Date Created: / /
Location: KING CREEK FIPS State/County: 49000 UTAH/
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 4923C1
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: T/TROPIC RESERVOIR Elevation: 0 Water Body Id:
Minor Basin: GRVL RD BRDG .3 MI WSW OF TROPIC RES DAM ECO Region:
RF1 Index: 16030002020 RF1 Mile Point: 16.400 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
SAMPLE FROM BRDG ON GRAVEL RD 0.3 MI WSW OF TROPIC RES DAM 5.1 MI N OF GARFIELD/KANE CO LINE SEC 5 T37S R4W

Parameter Inventory for Station: BRCA0114

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/74-10/11/75	11	0.016	0.018	0.04	0.003	0.	0.013	0.003	0.003	0.025	0.039
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/09/74-11/09/74	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	11/09/74-11/09/74	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/74-10/11/75	11	0.4	0.736	2.1	0.1	0.529	0.727	0.11	0.25	1.6	2.04
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/74-10/11/75	11	0.18	0.186	0.22	0.15	0.	0.02	0.154	0.17	0.2	0.218
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/74-10/11/75	10	0.01	0.012	0.03	0.005	0.	0.009	0.005	0.005	0.02	0.029
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/09/74-10/11/75	10 ##	0.004	0.005	0.01	0.003	0.	0.003	0.003	0.003	0.006	0.01

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

EPA Water Quality Criteria Analysis for Station: BRCA0114

				Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			--------------n/a--------------		
Parameter		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	11	0	0.00	8	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: BRCA0115

NPS Station ID: BRCA0115 LAT/LON: 37.611115/-112.255559 Agency: 113FORS4 Date Created: 04/02/83
Location: KINGS CREEK - ABOVE CAMPGROUND ROAD FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 070305A /16030002305A/021070305A /KC36
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: GREAT BASIN Elevation: 0 Water Body Id:
Minor Basin: SEVIER RIVER - EAST FORK SEVIER RIVER ECO Region:
RF1 Index: 16030002020 RF1 Mile Point: 16.400 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
FOR MORE INFORMATION, CONTACT; FOREST HYDROLOGIST, DIXIE NATIONAL FOREST, 435-865-3733...

Parameter Inventory for Station: BRCA0115

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/16/77-08/12/77	2	17.25	17.25	19.	15.5	6.125	2.475	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	06/05/75-09/28/76	8	47.5	50.	59.	43.	44.	6.633	**	**	**	**
00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/05/75-09/30/75	5	0.3	0.62	1.7	0.3	0.372	0.61	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/27/76-08/12/77	5	8.4	11.94	21.	5.7	43.578	6.601	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/05/75-08/12/77	10	446.	434.1	655.	229.	24654.989	157.019	230.9	269.75	562.5	649.5
00300	OXYGEN, DISSOLVED MG/L	06/05/75-08/12/77	10	8.	8.	10.	5.4	1.589	1.261	5.57	7.175	9.	9.9
00400	PH (STANDARD UNITS)	06/05/75-08/12/77	10	7.3	7.36	7.8	7.	0.069	0.263	7.02	7.2	7.575	7.8
00400	CONVERTED PH (STANDARD UNITS)	06/05/75-08/12/77	10	7.3	7.298	7.8	7.	0.074	0.271	7.02	7.2	7.575	7.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/05/75-08/12/77	10	0.05	0.05	0.1	0.016	0.001	0.025	0.016	0.028	0.063	0.096
00405	CARBON DIOXIDE (MG/L AS CO2)	08/12/77-08/12/77	1	13.2	13.2	13.2	13.2	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/27/76-08/12/77	2	180.	180.	219.	141.	3042.	55.154	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/27/76-08/12/77	2	219.5	219.5	267.	172.	4512.5	67.175	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/27/76-08/12/77	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/27/76-08/12/77	2	0.341	0.341	0.44	0.242	0.02	0.14	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/27/76-08/12/77	2	0.165	0.165	0.2	0.13	0.002	0.049	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	05/27/76-08/12/77	2 ##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/27/76-08/12/77	2	174.	174.	208.	140.	2312.	48.083	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/27/76-08/12/77	2	7.5	7.5	8.	7.	0.5	0.707	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	05/27/76-08/12/77	2	19.5	19.5	30.	9.	220.5	14.849	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/27/76-08/12/77	2	0.305	0.305	0.31	0.3	0.	0.007	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/27/76-08/12/77	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/27/76-08/12/77	2 ##	15.25	15.25	30.	0.5	435.125	20.86	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/27/76-08/12/77	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/27/76-08/12/77	2	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/27/76-08/12/77	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	05/27/76-08/12/77	2	39.	39.	70.	8.	1922.	43.841	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/27/76-08/12/77	2	50.	50.	80.	20.	1800.	42.426	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/27/76-08/12/77	2 ##	5.25	5.25	10.	0.5	45.125	6.718	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/27/76-08/12/77	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/27/76-08/12/77	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/27/76-08/12/77	5 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	05/27/76-08/12/77	5 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			0.5								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/75-09/30/75	5 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/75-09/30/75	5 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			0.5								

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

Parameter Inventory for Station: BRCA0115

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	05/27/76-08/12/77	2	203.	203.	252.	154.	4802.	69.296	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/27/76-08/12/77	2 ##	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: BRCA0115

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	5	0	0.00	4	0	0.00				1	0	0.00			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	5	0	0.00	3	0	0.00				2	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	10	0	0.00	7	0	0.00				3	0	0.00			
00400	PH	Fresh Chronic	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			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	0.2	2	0	0.00	1	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	50.	2	0	0.00	1	0	0.00				1	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	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	2	1.00	1	1	1.00				1	1	1.00			
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			
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	5	0	0.00	3	0	0.00				2	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	5	0	0.00	4	0	0.00				1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	2	0	0.00	1	0	0.00				1	0	0.00			
		Drinking Water	2.	2	0	0.00	1	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0116

NPS Station ID: BRCA0116
LAT/LON: 37.611115/-112.255810
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDBG507R
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BRCA_NURE_46 /5075783
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC RESERVOIR UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0116

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/22/80-07/22/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/22/80-07/22/80	1	460.	460.	460.	460.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/22/80-07/22/80	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/22/80-07/22/80	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/22/80-07/22/80	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/22/80-07/22/80	1	310.	310.	310.	310.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/22/80-07/22/80	1	13.7	13.7	13.7	13.7	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/22/80-07/22/80	1	10.73	10.73	10.73	10.73	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/22/80-07/22/80	1	170.	170.	170.	170.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/22/80-07/22/80	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/22/80-07/22/80	1	0.667	0.667	0.667	0.667	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	1	59.	59.	59.	59.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	1	4600.	4600.	4600.	4600.	0.	0.	**	**	**	**
50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/22/80-07/22/80	1	34.4	34.4	34.4	34.4	0.	0.	**	**	**	**
82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/22/80-07/22/80	1	5200.	5200.	5200.	5200.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0116

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0117

NPS Station ID: BRCA0117
LAT/LON: 37.611671/-112.130559
Agency: 112WRD
Date Created: 02/28/78
Location: (C-37- 3) 5DA -S1
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 373642112075001
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0117

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/68-05/21/68	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/21/68-05/21/68	1	523.	523.	523.	523.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/21/68-05/21/68	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/21/68-05/21/68	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/21/68-05/21/68	1	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/21/68-05/21/68	1	324.	324.	324.	324.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/21/68-05/21/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/21/68-05/21/68	1	294.	294.	294.	294.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/21/68-05/21/68	1	28.	28.	28.	28.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/21/68-05/21/68	1	58.	58.	58.	58.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/21/68-05/21/68	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/21/68-05/21/68	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	05/21/68-05/21/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/21/68-05/21/68	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/21/68-05/21/68	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/21/68-05/21/68	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/21/68-05/21/68	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/21/68-05/21/68	1	300.	300.	300.	300.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/21/68-05/21/68	1	298.	298.	298.	298.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/21/68-05/21/68	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: BRCA0117

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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			
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: BRCA0118

NPS Station ID: BRCA0118 | LAT/LON: 37.611671/-112.250281 | Agency: 11EPALES | Date Created: / /
Location: TROPIC RESERVOIR | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/LAKE | STORET Station ID(s): 492302
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 16030002 | Depth of Water: 23 | Aquifer:
Major Basin: | Elevation: 0 | Water Body Id:
Minor Basin: | ECO Region:
RF1 Index: 16030002020 | RF1 Mile Point: 16.260 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
N PORTION OF LAKE; 270 DEGREES FR ISLAND AT E SIDE OF DAM; APPR 100 YDS FR ISLAND.
COMMENTS: 8-14 ULE 15; 1% LIGHT, 23 FT; INTEG 19 FT. 9-25 ULE 15; WEEDY BOTTOM; 1% LIGHT, BOTTOM PLUS. NOT SAMPLED FIRST ROUND.
MAP: TROPIC RES QUAD

Parameter Inventory for Station: BRCA0118

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/14/75-09/25/75	5	15.8	15.62	16.	15.1	0.157	0.396	**	**	**	**
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	08/14/75-09/25/75	5	95.	95.6	98.	93.	5.3	2.302	**	**	**	**
00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/14/75-09/25/75	2	120.	120.	120.	120.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/14/75-09/25/75	5	117.	157.6	221.	116.	3194.3	56.518	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	08/14/75-09/25/75	3	9.2	8.4	9.4	6.6	2.44	1.562	**	**	**	**
00400	PH (STANDARD UNITS)	08/14/75-09/25/75	5	8.85	8.86	9.05	8.7	0.017	0.129	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/14/75-09/25/75	5	8.85	8.845	9.05	8.7	0.017	0.13	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/14/75-09/25/75	5	0.001	0.001	0.002	0.001	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/14/75-09/25/75	5	75.	113.2	174.	73.	2883.7	53.7	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/14/75-09/25/75	5 ##	0.01	0.02	0.04	0.01	0.	0.014	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/14/75-09/25/75	5	0.4	0.36	0.4	0.2	0.008	0.089	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/14/75-09/25/75	5 ##	0.01	0.014	0.03	0.01	0.	0.009	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/14/75-09/25/75	5	0.021	0.018	0.022	0.012	0.	0.004	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/14/75-09/25/75	5	0.011	0.008	0.012	0.002	0.	0.004	**	**	**	**
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/14/75-09/25/75	2	5.4	5.4	9.4	1.4	32.	5.657	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	08/14/75-09/25/75	2	16.5	16.5	23.	10.	84.5	9.192	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0118

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00	3	0	0.00									
00400	PH	Fresh Chronic	9.	5	1	0.20	5	1	0.20									
		Other-Lo Lim.	6.5	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									

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

Station Inventory for Station: BRCA0119

NPS Station ID: BRCA0119 | LAT/LON: 37.612226/-112.059948 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: SWAMP CANNONVILLE SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_25
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: MIDDLE COLORADO RIVER-SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE CANNONVILLE UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SWAMP CANNONVILLE SPRING IS LOCATED OUTSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0119

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/17/68-08/17/68	1	53.	53.	53.	53.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/17/68-08/17/68	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/17/68-08/17/68	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/17/68-08/17/68	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/17/68-08/17/68	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/17/68-08/17/68	1	570.	570.	570.	570.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/17/68-08/17/68	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/17/68-08/17/68	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/17/68-08/17/68	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/17/68-08/17/68	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/17/68-08/17/68	1	185.	185.	185.	185.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/17/68-08/17/68	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/17/68-08/17/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/17/68-08/17/68	1	352.	352.	352.	352.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/17/68-08/17/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
74070	FLOW GAL/SEC	08/17/68-08/17/68	1	19.	19.	19.	19.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0119

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0120

NPS Station ID: BRCA0120 LAT/LON: 37.612504/-112.250005 Agency: 113FORS4 Date Created: 04/02/83
Location: EAST FORK SEVIER RIVER AT TROPIC RESVR OUTLET FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 070301B /16030002301B/021070301B /P37
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: GREAT BASIN Elevation: 0 Water Body Id:
Minor Basin: SEVIER RIVER - EAST FORK SEVIER RIVER ECO Region:
RF1 Index: 16030002020 RF1 Mile Point: 16.260 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
FOR MORE INFORMATION, CONTACT; FOREST HYDROLOGIST, DIXIE NATIONAL FOREST, 435-865-3733...

Parameter Inventory for Station: BRCA0120

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/77-10/28/77	6	15.2	14.733	22.1	8.4	30.775	5.547	**	**	**	**
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	07/10/74-10/06/76	10	60.5	58.4	72.	39.	84.267	9.18	40.2	53.25	64.5	71.4
00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/10/74-09/30/75	6	1.2	1.3	2.1	0.6	0.388	0.623	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/26/76-10/28/77	10	6.3	7.59	18.9	2.1	27.31	5.226	2.1	3.225	10.875	18.27
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/10/74-10/28/77	16	244.	300.438	626.	147.	19262.529	138.79	156.1	188.75	419.75	528.
00300	OXYGEN, DISSOLVED MG/L	06/05/75-10/28/77	14	10.2	10.15	12.8	8.	1.27	1.127	8.35	9.675	10.625	11.9
00400	PH (STANDARD UNITS)	07/10/74-10/28/77	16	8.635	8.538	9.5	6.1	0.696	0.834	7.29	8.15	9.175	9.5
00400	CONVERTED PH (STANDARD UNITS)	07/10/74-10/28/77	16	8.634	7.273	9.5	6.1	2.403	1.55	7.29	8.15	9.175	9.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/10/74-10/28/77	16	0.002	0.053	0.794	0.	0.039	0.198	0.	0.001	0.007	0.249
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/10/74-06/05/75	3	182.	180.	242.	116.	3972.	63.024	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/10/74-06/05/75	3	255.	243.333	293.	182.	3182.333	56.412	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	07/10/74-06/05/75	3 ##	0.005	10.67	32.	0.005	341.227	18.472	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	07/10/74-10/28/77	13	0.054	0.077	0.262	0.034	0.004	0.063	0.036	0.045	0.08	0.215
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	07/10/74-10/28/77	13	0.08	0.095	0.25	0.005	0.005	0.069	0.005	0.045	0.14	0.222
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/10/74-06/05/75	3 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/10/74-06/05/75	3	208.	210.	260.	162.	2404.	49.031	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/10/74-06/05/75	3	44.8	42.4	55.2	27.2	200.32	14.153	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/10/74-06/05/75	3	29.3	24.967	33.6	12.	130.723	11.433	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/10/74-06/05/75	3	11.	12.84	24.3	3.22	113.631	10.66	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/10/74-06/05/75	3	0.55	0.593	1.	0.23	0.15	0.387	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/10/74-06/05/75	3	4.	4.	6.	2.	4.	2.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/10/74-06/05/75	3	6.5	11.167	23.	4.	106.583	10.324	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/10/74-06/05/75	3	0.3	0.273	0.32	0.2	0.004	0.064	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/10/74-06/05/75	3	1.3	2.333	4.5	1.2	3.523	1.877	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/10/74-06/05/75	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	07/10/74-06/05/75	3	30.	66.667	150.	20.	5233.333	72.342	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	07/10/74-06/05/75	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	07/10/74-06/05/75	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	07/10/74-06/05/75	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	07/10/74-06/05/75	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	07/10/74-10/28/77	9	84.	116.222	280.	26.	6902.444	83.081	26.	65.	183.	280.
01046	IRON, DISSOLVED (UG/L AS FE)	07/10/74-06/05/75	3	90.	86.667	120.	50.	1233.333	35.119	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	07/10/74-10/28/77	9	7.	56.778	390.	5.	15927.694	126.205	5.	5.	39.5	390.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/10/74-06/05/75	3 ##	5.	13.333	30.	5.	208.333	14.434	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	07/10/74-06/05/75	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	07/10/74-06/05/75	3	100.	116.667	150.	100.	833.333	28.868	**	**	**	**

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

Parameter Inventory for Station: BRCA0120

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/10/74-06/05/75	3	150.	150.	200.	100.	2500.	50.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	07/10/74-06/05/75	3 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
31613	FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24HR	05/26/76-10/28/77	10 ##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
31613	LOG FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24	05/26/76-10/28/77	10 ##	-0.301	-0.301	-0.301	-0.301	0.	0.	-0.301	-0.301	-0.301	-0.301
31613	GM FECAL COLIFORM,MEMBR FILTER,M-FC AGAR,44.5C,24H	GEOMETRIC MEAN =			0.5								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/75-09/30/75	4 ##	1.25	1.75	4.	0.5	2.75	1.658	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/05/75-09/30/75	4 ##	0.	0.075	0.602	-0.301	0.204	0.452	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			1.189								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/10/74-06/05/75	3	336.	349.333	407.	305.	2734.333	52.291	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	07/10/74-06/05/75	3 ##	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: BRCA0120

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	6	0	0.00	5	0	0.00				1	0	0.00			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	10	0	0.00	6	0	0.00	1	0	0.00	3	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	14	0	0.00	9	0	0.00	1	0	0.00	4	0	0.00			
00400	PH	Fresh Chronic	9.	16	5	0.31	11	5	0.45	1	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	16	1	0.06	11	1	0.09	1	0	0.00	4	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	13	0	0.00	8	0	0.00	1	0	0.00	4	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	0.2	3	0	0.00	2	0	0.00				1	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	250.	3	0	0.00	2	0	0.00				1	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	3	0	0.00	2	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	3	0	0.00	2	0	0.00				1	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	50.	3	0	0.00	2	0	0.00				1	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	3	0	0.00	2	0	0.00				1	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	5.	3	0	0.00	2	0	0.00				1	0	0.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	1300.	3	0	0.00	2	0	0.00				1	0	0.00			
01049	LEAD, DISSOLVED	Fresh Acute	82.	9	1	0.11	6	0	0.00	1	0	0.00	2	1	0.50			
		Drinking Water	15.	9	4	0.44	6	2	0.33	1	1	1.00	2	1	0.50			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	100.	3	0	0.00	2	0	0.00				1	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	1	0.33	2	1	0.50				1	0	0.00			
		Drinking Water	5000.	3	0	0.00	2	0	0.00				1	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	50.	3	0	0.00	2	0	0.00				1	0	0.00			
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	10	0	0.00	6	0	0.00	1	0	0.00	3	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	4	0	0.00	3	0	0.00				1	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	2.	3	0	0.00	2	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0121

NPS Station ID: BRCA0121 | LAT/LON: 37.612642/-112.131837 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: BRYCE SOUTH SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_23
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: MIDDLE COLORADO RIVER-SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. BRYCE SOUTH SPRING IS LOCATED OUTSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0121

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/15/68-08/15/68	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/15/68-08/15/68	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/15/68-08/15/68	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/15/68-08/15/68	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/15/68-08/15/68	1	270.	270.	270.	270.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/15/68-08/15/68	1	334.	334.	334.	334.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/15/68-08/15/68	1	48.	48.	48.	48.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/15/68-08/15/68	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/15/68-08/15/68	1	32.	32.	32.	32.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/15/68-08/15/68	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/15/68-08/15/68	1	40.	40.	40.	40.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/15/68-08/15/68	1	3.2	3.2	3.2	3.2	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/15/68-08/15/68	1	50.	50.	50.	50.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/15/68-08/15/68	1	254.	254.	254.	254.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/15/68-08/15/68	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: BRCA0121

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0122

NPS Station ID: BRCA0122 | LAT/LON: 37.612781/-112.248338 | Agency: 11EPALES | Date Created: / /
Location: E FORK SEVIER RIVER | FIPS State/County: 49000 UTAH/
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): 4923A1
RMI-Indexes: | Within Park Boundary: No
RMI-Miles:
HUC: 16030002 | Depth of Water: 0 | Aquifer:
Major Basin: O/TROPIC RESERVOIR | Elevation: 0 | Water Body Id:
Minor Basin: BELO TROPIC RES DAM NEAR SPLWY FRM GR RD | ECO Region:
RF1 Index: 16030002020 | RF1 Mile Point: 16.010 | Distance from RF1: 0.00 | On/Off RF1: OFF
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
SAMPLE BELOW TROPIC RES DAM NEAR SPILLWAY FROM GRAVEL RD 6.0 MI S OF JCT W STATE RT 12 SEC 5 T37S R4W

Parameter Inventory for Station: BRCA0122

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/09/74-10/11/75	11	0.016	0.037	0.191	0.01	0.003	0.053	0.01	0.015	0.025	0.166
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	11/09/74-11/09/74	1 ##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/09/74-10/11/75	11	0.5	0.759	3.15	0.2	0.686	0.828	0.2	0.25	0.8	2.7
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/09/74-10/11/75	11	0.008	0.019	0.06	0.004	0.	0.02	0.004	0.005	0.03	0.058
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/09/74-10/11/75	11	0.02	0.016	0.03	0.005	0.	0.01	0.005	0.005	0.025	0.03
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/09/74-10/11/75	11 ##	0.004	0.006	0.02	0.003	0.	0.005	0.003	0.003	0.005	0.018

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

EPA Water Quality Criteria Analysis for Station: BRCA0122

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00	1	0	0.00									
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	11	0	0.00	8	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: BRCA0123

NPS Station ID: BRCA0123 LAT/LON: 37.612781/-112.248338 Agency: 21UTAH Date Created: 12/14/85
Location: E FK SEVIER R AT OUTFALL FROM TROPIC RES FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 494932 /4923A1
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: GREAT BASIN Elevation: 0 Water Body Id:
Minor Basin: SEVEIR RIVER ECO Region:
RF1 Index: 16030002020 RF1 Mile Point: 16.010 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
UTAH STATE CLASSIFICATION-3A,4 USGS 7.5 QUADRANGLE-BRYCE POINT 06700

Parameter Inventory for Station: BRCA0123

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/79-08/14/90	7	16.1	14.6	17.1	9.	9.98	3.159	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	06/20/79-08/14/90	6	11.	16.167	47.	4.	243.767	15.613	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/79-08/17/88	6	0.85	37.333	210.	0.5	7172.135	84.688	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/20/79-08/14/90	7	359.	365.	460.	253.	6767.	82.262	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/20/79-08/17/88	6	400.	461.667	863.	277.	44676.267	211.368	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	06/20/79-08/14/90	7	8.	8.457	12.2	7.	3.106	1.762	**	**	**	**
00335	COD, .025N K2CR2O7 MG/L	06/20/79-08/14/90	4 ##	7.	8.75	16.	5.	24.25	4.924	**	**	**	**
00400	PH (STANDARD UNITS)	06/20/79-08/14/90	7	8.5	8.829	10.4	8.	0.632	0.795	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	06/20/79-08/14/90	7	8.5	8.486	10.4	8.	0.769	0.877	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/79-08/14/90	7	0.003	0.003	0.01	0.	0.	0.003	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	06/20/79-08/17/88	5	8.8	8.74	9.4	7.9	0.308	0.555	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	06/20/79-08/17/88	5	8.8	8.442	9.4	7.9	0.419	0.647	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/79-08/17/88	5	0.002	0.004	0.013	0.	0.	0.005	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	06/20/79-08/17/88	6	0.5	2.667	10.	0.	16.667	4.082	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/79-08/17/88	6	218.	216.333	251.	164.	1179.867	34.349	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	06/20/79-08/17/88	6	254.	242.667	306.	132.	4285.867	65.467	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	06/20/79-08/17/88	6	8.5	10.333	33.	0.	149.867	12.242	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/19/81-08/14/90	5 ##	1.5	51.2	250.	1.5	12350.45	111.133	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/20/79-08/14/90	7 ##	0.025	0.036	0.05	0.025	0.	0.013	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-08/17/88	2 ##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/20/79-08/14/90	6 ##	0.005	0.012	0.025	0.005	0.	0.01	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	06/11/87-08/17/88	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/20/79-08/14/90	6	0.11	0.399	1.95	0.005	0.585	0.765	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/20/79-08/14/90	7	0.1	0.171	0.3	0.1	0.009	0.095	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/20/79-09/09/79	2 ##	0.038	0.038	0.05	0.025	0.	0.018	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/79-08/14/90	7	0.01	0.013	0.03	0.003	0.	0.009	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/11/87-08/17/88	3 ##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/17/88-08/14/90	2	2.95	2.95	3.4	2.5	0.405	0.636	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/20/79-08/17/88	6	230.	246.667	384.	164.	5898.667	76.803	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	06/20/79-08/17/88	6	40.	40.833	73.	13.	507.367	22.525	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	06/20/79-08/17/88	6	32.5	35.167	49.	30.	48.567	6.969	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	06/20/79-08/17/88	6	2.5	6.167	18.	2.	43.367	6.585	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	06/20/79-08/17/88	6 ##	0.75	1.917	8.	0.5	8.942	2.99	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	06/11/87-08/17/88	3	3.	58.333	170.	2.	9352.333	96.707	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	06/20/79-05/19/81	3	3.	2.333	3.	1.	1.333	1.155	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	06/20/79-08/17/88	6	7.5	7.667	14.	3.	16.267	4.033	**	**	**	**

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

Parameter Inventory for Station: BRCA0123

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00950	FLUORIDE, DISSOLVED (MG/L AS F)	06/20/79-09/05/79	2	0.155	0.155	0.16	0.15	0.	0.007	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	06/20/79-09/05/79	2	5.5	5.5	6.	5.	0.5	0.707	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	06/20/79-05/19/81	3 ##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	08/17/88-08/17/88	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	06/20/79-08/17/88	4 ##	67.5	87.5	190.	25.	6275.	79.215	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	06/20/79-09/05/79	2 ##	50.	50.	75.	25.	1250.	35.355	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	06/20/79-05/19/81	3 ##	0.5	1.	2.	0.5	0.75	0.866	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	06/20/79-09/05/79	2 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/20/79-05/19/81	3 ##	2.5	4.667	10.	1.5	21.583	4.646	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	08/17/88-08/17/88	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	06/20/79-08/17/88	4 ##	3.75	5.	10.	2.5	12.5	3.536	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	06/11/87-08/17/88	3 ##	10.	19.667	39.	10.	280.333	16.743	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	06/20/79-05/19/81	3 ##	2.5	5.833	12.5	2.5	33.333	5.774	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	06/20/79-08/17/88	4 ##	11.25	12.5	25.	2.5	137.5	11.726	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/17/88-08/17/88	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	06/20/79-05/19/81	3 ##	7.5	8.333	12.5	5.	14.583	3.819	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	06/20/79-05/19/81	3 ##	1.	1.25	2.5	0.25	1.313	1.146	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	08/17/88-08/17/88	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	06/20/79-08/17/88	4 ##	3.75	5.	10.	2.5	12.5	3.536	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	06/20/79-05/19/81	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31506	COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	06/20/79-09/09/79	2	95.	95.	150.	40.	6050.	77.782	**	**	**	**
31506	LOG COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	06/20/79-09/09/79	2	1.889	1.889	2.176	1.602	0.165	0.406	**	**	**	**
31506	GM COLIFORM,TOT,MPN, CONFIRMED TEST, TUBE CONFIG.	GEOMETRIC MEAN =			77.46								
31614	FECAL COLIFORM,MPN,TUBE CONFIGURATION	06/20/79-09/09/79	2 ##	25.75	25.75	40.	11.5	406.125	20.153	**	**	**	**
31614	LOG FECAL COLIFORM,MPN,TUBE CONFIGURATION	06/20/79-09/09/79	2 ##	1.331	1.331	1.602	1.061	0.147	0.383	**	**	**	**
31614	GM FECAL COLIFORM,MPN,TUBE CONFIGURATION	GEOMETRIC MEAN =			21.448								
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/20/79-08/17/88	6	220.5	260.167	508.	150.	16549.767	128.646	**	**	**	**
71830	HYDROXIDE ION (MG/L AS OH)	06/20/79-08/17/88	6	0.	0.	0.	0.	0.	0.	**	**	**	**
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	06/20/79-08/14/90	4 ##	0.01	0.013	0.03	0.003	0.	0.012	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	06/20/79-05/19/81	3 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	06/20/79-08/17/88	6	0.07	0.088	0.17	0.05	0.002	0.045	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0123

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	6	1	0.17	3	0	0.00				3	1	0.33			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	7	0	0.00	4	0	0.00				3	0	0.00			
00400	PH	Fresh Chronic	9.	7	2	0.29	4	2	0.50				3	0	0.00			
		Other-Lo Lim.	6.5	7	0	0.00	4	0	0.00				3	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	5	2	0.40	3	2	0.67				2	0	0.00			
		Other-Lo Lim.	6.5	5	0	0.00	3	0	0.00				2	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	2	0	0.00	1	0	0.00				1	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	6	0	0.00	3	0	0.00				3	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00	1	0	0.00				1	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	6	0	0.00	3	0	0.00				3	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.	3	0	0.00	2	0	0.00				1	0	0.00			
		Drinking Water	250.	3	0	0.00	2	0	0.00				1	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	250.	3	0	0.00	1	0	0.00				2	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	6	0	0.00	3	0	0.00				3	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00	1	0	0.00				1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00				2	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00	1	0	0.00									
01007	BARIUM, TOTAL	Drinking Water	2000.	4	0	0.00	2	0	0.00				2	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	5.	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

EPA Water Quality Criteria Analysis for Station: BRCA0123

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	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			
01034	CHROMIUM, TOTAL	Drinking Water	100.	3	0	0.00	1	0	0.00				2	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00	1	0	0.00									
		Drinking Water	1300.	1	0	0.00	1	0	0.00									
01042	COPPER, TOTAL	Fresh Acute	18.	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.	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	15.	3	0	0.00	1	0	0.00				2	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	100.	3	0	0.00	1	0	0.00				2	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	100.	3	0	0.00	1	0	0.00				2	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00	1	0	0.00									
		Drinking Water	5000.	1	0	0.00	1	0	0.00									
01092	ZINC, TOTAL	Fresh Acute	120.	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			
01147	SELENIUM, TOTAL	Fresh Acute	20.	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	50.	3	0	0.00	1	0	0.00				2	0	0.00			
31506	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C	Other-Hi Lim.	1000.	2	0	0.00	1	0	0.00				1	0	0.00			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	2	0	0.00	1	0	0.00				1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	3	0	0.00	1	0	0.00				2	0	0.00			
		Drinking Water	2.	3	0	0.00	1	0	0.00				2	0	0.00			

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

Station Inventory for Station: BRCA0124

NPS Station ID: BRCA0124 | LAT/LON: 37.613670/-112.128893 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: SPRING T-3 AT BRYCE CREEK | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_17
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: MIDDLE COLORADO RIVER-SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SPRING T-3 AT BRYCE CREEK IS LOCATED OUTSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0124

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/10/68-08/10/68	1	53.	53.	53.	53.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/10/68-08/10/68	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/10/68-08/10/68	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/10/68-08/10/68	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/10/68-08/10/68	1	280.	280.	280.	280.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/10/68-08/10/68	1	309.	309.	309.	309.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/10/68-08/10/68	1	63.	63.	63.	63.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/10/68-08/10/68	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/10/68-08/10/68	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/10/68-08/10/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/10/68-08/10/68	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/10/68-08/10/68	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/10/68-08/10/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/10/68-08/10/68	1	257.	257.	257.	257.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/10/68-08/10/68	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: BRCA0124

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0125

NPS Station ID: BRCA0125 | LAT/LON: 37.614226/-112.129865 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: SPRING T-2 AT BRYCE CREEK | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_16
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: MIDDLE COLORADO RIVER-SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SPRING T-2 AT BRYCE CREEK IS LOCATED OUTSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0125

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/10/68-08/10/68	1	53.	53.	53.	53.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/10/68-08/10/68	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/10/68-08/10/68	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/10/68-08/10/68	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/10/68-08/10/68	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/10/68-08/10/68	1	330.	330.	330.	330.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/10/68-08/10/68	1	64.	64.	64.	64.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/10/68-08/10/68	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/10/68-08/10/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/10/68-08/10/68	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/10/68-08/10/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/10/68-08/10/68	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/10/68-08/10/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/10/68-08/10/68	1	294.	294.	294.	294.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/10/68-08/10/68	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: BRCA0125

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0126

NPS Station ID: BRCA0126 | LAT/LON: 37.614698/-112.130171 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: SPRING T-4 AT BRYCE CREEK | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_18
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: MIDDLE COLORADO RIVER-SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SPRING T-4 AT BRYCE CREEK IS LOCATED OUTSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0126

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/10/68-08/10/68	1	54.	54.	54.	54.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/10/68-08/10/68	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/10/68-08/10/68	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/10/68-08/10/68	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/10/68-08/10/68	1	270.	270.	270.	270.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/10/68-08/10/68	1	319.	319.	319.	319.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/10/68-08/10/68	1	69.	69.	69.	69.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/10/68-08/10/68	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/10/68-08/10/68	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/10/68-08/10/68	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/10/68-08/10/68	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/10/68-08/10/68	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/10/68-08/10/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/10/68-08/10/68	1	267.	267.	267.	267.	0.	0.	**	**	**	**
74070	FLOW GAL/SEC	08/10/68-08/10/68	1	35.	35.	35.	35.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0126

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0127

NPS Station ID: BRCA0127 | LAT/LON: 37.616420/-112.129253 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: SPRING T-1 AT BRYCE CREEK | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_19
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE POINT UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. SPRING T-1 AT BRYCE CREEK IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0127

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/10/68-08/10/68	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/10/68-08/10/68	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/10/68-08/10/68	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/10/68-08/10/68	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/10/68-08/10/68	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/10/68-08/10/68	1	272.	272.	272.	272.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/10/68-08/10/68	1	53.	53.	53.	53.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/10/68-08/10/68	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/10/68-08/10/68	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/10/68-08/10/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/10/68-08/10/68	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/10/68-08/10/68	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/10/68-08/10/68	1	80.	80.	80.	80.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/10/68-08/10/68	1	234.	234.	234.	234.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/10/68-08/10/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
74070	FLOW GAL/SEC	08/10/68-08/10/68	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

EPA Water Quality Criteria Analysis for Station: BRCA0127

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0128

NPS Station ID: BRCA0128 LAT/LON: 37.616670/-112.250005 Agency: 21UTDHDW Date Created: 05/26/90
Location: KINGS CREEK CAMPGROUND - CAMPGROUND SPR. FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/MUN/INTAKE/NONAMB/SPRING/SUPPLY STORET Station ID(s): 0905201 /UT4909011001
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 16030002 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
NOTE: THIS IS A PUBLIC DRINKING WATER SOURCE * * * NOTE: THE SECONDARY STATION CODE IS EPA'S FRDS2 PWS-ID #
SYSTEM TYPE: USFS CAMPGROUND SERVICE AREA TYPE: RECREATION AREA

Parameter Inventory for Station: BRCA0128

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00946 SULFATE, DISSOLVED (MG/L AS SO4)	04/18/85-04/18/85	1	8.	8.	8.	8.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0128

			Total	Exceed	Prop.	7/10-2/19			2/20-5/09			5/10-7/09			n/a		
Parameter	Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: BRCA0129

NPS Station ID: BRCA0129 | LAT/LON: 37.632059/-112.142476 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: TOWER BRIDGE SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_014
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 7119 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE CANYON UT-GARFIELD CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. TOWER BRIDGE SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0129

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/04/96-07/04/96	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/04/96-07/04/96	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/04/96-07/04/96	1	390.	390.	390.	390.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	07/04/96-07/04/96	1	8.11	8.11	8.11	8.11	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	07/04/96-07/04/96	1	8.11	8.11	8.11	8.11	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/04/96-07/04/96	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	07/04/96-07/04/96	1	253.	253.	253.	253.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	07/04/96-07/04/96	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0129

				Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------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	Fresh Chronic	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: BRCA0130

NPS Station ID: BRCA0130
LAT/LON: 37.633116/-112.271004
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDBG505R
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BRCA_NURE_48 /5075781
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE WILSON PEAK UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0130

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/18/80-07/18/80	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/18/80-07/18/80	1	550.	550.	550.	550.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/18/80-07/18/80	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/18/80-07/18/80	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/18/80-07/18/80	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/18/80-07/18/80	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/18/80-07/18/80	1	26.5	26.5	26.5	26.5	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/18/80-07/18/80	1	22.86	22.86	22.86	22.86	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/18/80-07/18/80	1	322.	322.	322.	322.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/18/80-07/18/80	1	4.	4.	4.	4.	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/18/80-07/18/80	1	1.11	1.11	1.11	1.11	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/18/80-07/18/80	1	136.	136.	136.	136.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/18/80-07/18/80	1	7800.	7800.	7800.	7800.	0.	0.	**	**	**	**
50761	BROMINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/18/80-07/18/80	1	42.1	42.1	42.1	42.1	0.	0.	**	**	**	**
82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/18/80-07/18/80	1	5700.	5700.	5700.	5700.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0130

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0131

NPS Station ID: BRCA0131 | LAT/LON: 37.633142/-112.122893 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: SPRING AT LOWER CAMPBELL CANYON | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_15
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING AT LOWER CAMPBELL CANYON IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0131

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/12/68-08/12/68	1	57.	57.	57.	57.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/12/68-08/12/68	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/12/68-08/12/68	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/12/68-08/12/68	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/12/68-08/12/68	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/12/68-08/12/68	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/12/68-08/12/68	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/12/68-08/12/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/12/68-08/12/68	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/12/68-08/12/68	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/12/68-08/12/68	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/12/68-08/12/68	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/12/68-08/12/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/12/68-08/12/68	1	212.	212.	212.	212.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/12/68-08/12/68	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
74070	FLOW GAL/SEC	08/12/68-08/12/68	1	9.	9.	9.	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: BRCA0131

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0132

NPS Station ID: BRCA0132
LAT/LON: 37.633337/-112.120281
Agency: 112WRD
Date Created: 02/28/78
Location: (C-36- 3)33BDA-S1
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 373800112071301
RMI-Indexes:
Within Park Boundary: Yes
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0132

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/68-05/21/68	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/21/68-05/21/68	1	404.	404.	404.	404.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	05/21/68-05/21/68	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	05/21/68-05/21/68	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/21/68-05/21/68	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	05/21/68-05/21/68	1	248.	248.	248.	248.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	05/21/68-05/21/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/21/68-05/21/68	1	218.	218.	218.	218.	0.	0.	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/21/68-05/21/68	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/21/68-05/21/68	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/21/68-05/21/68	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	05/21/68-05/21/68	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	05/21/68-05/21/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/21/68-05/21/68	1	3.7	3.7	3.7	3.7	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	05/21/68-05/21/68	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	05/21/68-05/21/68	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	05/21/68-05/21/68	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/21/68-05/21/68	1	224.	224.	224.	224.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/21/68-05/21/68	1	224.	224.	224.	224.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/21/68-05/21/68	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: BRCA0132

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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			
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: BRCA0133

NPS Station ID: BRCA0133
LAT/LON: 37.633337/-112.124448
Agency: 112WRD
Date Created: 06/20/87
Location: (C-36- 3)33BCA-S1
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 373800112072801
RMI-Indexes:
Within Park Boundary: Yes
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0133

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/15/81-11/15/81	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/15/81-11/15/81	1	410.	410.	410.	410.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	11/15/81-11/15/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/15/81-11/15/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/81-11/15/81	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/15/81-11/15/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/15/81-11/15/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/81-11/15/81	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/15/81-11/15/81	1 ##	0.045	0.045	0.045	0.045	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/15/81-11/15/81	1	210.	210.	210.	210.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/15/81-11/15/81	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/15/81-11/15/81	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/15/81-11/15/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	11/15/81-11/15/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	11/15/81-11/15/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/15/81-11/15/81	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	11/15/81-11/15/81	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	11/15/81-11/15/81	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/15/81-11/15/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/15/81-11/15/81	1	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	11/15/81-11/15/81	1	40.	40.	40.	40.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	11/15/81-11/15/81	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/15/81-11/15/81	1	14.	14.	14.	14.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/15/81-11/15/81	1	216.	216.	216.	216.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0133

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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	Fresh Chronic	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: BRCA0133

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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: BRCA0134

NPS Station ID: BRCA0134 | LAT/LON: 37.634032/-112.120170 | Agency: 11NPSWRD | Date Created: 11/21/98
Location: CAMPBELL CANYON SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_USGS_CCS
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UTAH-GARFIELD COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. CAMPBELL CANYON SPRING IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE 1963 UNITED STATES GEOLOGICAL SURVEY WATER-SUPPLY PAPER 1475-M "GROUND-WATER RESOURCES OF THE BRYCE CANYON NATIONAL AREA; UTAH" BY I. WENDELL MARINE IN COOPERATION WITH THE NATIONAL PARK SERVICE. THE OBJECTIVES OF THE REPORT WERE "TO DETERMINE THE QUANTITY; QUALITY; AND DEPENDABILITY OF ALL POSSIBLE SOURCES OF WATER SUPPLY FOR THE PARK." THE LATITUDE AND LONGITUDE FOR EACH STATION WERE DETERMINED BY DIGITIZING OFF OF PLATE 24 WHICH IS INCLUDED IN THE REPORT. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0134

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/18/57-05/18/57	1	57.	57.	57.	57.	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	06/21/58-06/21/58	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/18/57-05/18/57	1	401.	401.	401.	401.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/05/56-05/18/57	2	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/05/56-05/18/57	2	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/05/56-05/18/57	2	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	10/05/56-05/18/57	2	245.	245.	249.	241.	32.	5.657	**	**	**	**
00901	HARDNESS, CARBONATE (MG/L AS CACO3)	10/05/56-05/18/57	2	216.	216.	218.	214.	8.	2.828	**	**	**	**
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/18/57-05/18/57	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/05/56-05/18/57	2	42.5	42.5	49.	36.	84.5	9.192	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/05/56-05/18/57	2	26.5	26.5	31.	22.	40.5	6.364	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	10/05/56-05/18/57	2	14.45	14.45	25.	3.9	222.605	14.92	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	10/05/56-05/18/57	2	7.	7.	12.	2.	50.	7.071	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/05/56-05/18/57	2	35.	35.	53.	17.	648.	25.456	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/05/56-10/05/56	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/05/56-05/18/57	2	9.8	9.8	10.	9.6	0.08	0.283	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	10/05/56-10/05/56	1	200.	200.	200.	200.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/05/56-05/18/57	2	257.5	257.5	288.	227.	1860.5	43.134	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/05/56-05/18/57	2	0.55	0.55	1.	0.1	0.405	0.636	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0134

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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			
00941	CHLORIDE, DISSOLVED 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			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	2	0	0.00	1	0	0.00				1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	2	0	0.00	1	0	0.00				1	0	0.00			

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

Station Inventory for Station: BRCA0135

NPS Station ID: BRCA0135 | LAT/LON: 37.634699/-112.125032 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: SPRING AT UPPER CAMPBELL CANYON | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_14
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE CANYON UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING AT UPPER CAMPBELL CANYON IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0135

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/15/68-08/15/68	1	56.	56.	56.	56.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/15/68-08/15/68	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/15/68-08/15/68	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/15/68-08/15/68	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/15/68-08/15/68	1	190.	190.	190.	190.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/15/68-08/15/68	1	226.	226.	226.	226.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/15/68-08/15/68	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/15/68-08/15/68	1	22.	22.	22.	22.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/15/68-08/15/68	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/15/68-08/15/68	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/15/68-08/15/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/15/68-08/15/68	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/15/68-08/15/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/15/68-08/15/68	1	215.	215.	215.	215.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/15/68-08/15/68	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: BRCA0135

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0136

NPS Station ID: BRCA0136 | LAT/LON: 37.657587/-112.111253 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: JOLLEY HOLLOW SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_008
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 6912 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UT-GARFIELD CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. JOLLEY HOLLOW SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0136

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/26/96-06/26/96	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/26/96-06/26/96	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/26/96-06/26/96	1	520.	520.	520.	520.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/26/96-06/26/96	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/26/96-06/26/96	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/26/96-06/26/96	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/26/96-06/26/96	1	338.	338.	338.	338.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	06/26/96-06/26/96	1	76.8	76.8	76.8	76.8	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: BRCA0136

			Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------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	Fresh Chronic	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: BRCA0137

NPS Station ID: BRCA0137 | LAT/LON: 37.658337/-112.110559 | Agency: 11NPSWRD | Date Created: 10/17/98
Location: JOLLEY HOLLOW WATERFALL | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM | STORET Station ID(s): BRCA_NPS_JOLLY
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UTAH-GARFIELD COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. JOLLEY HOLLOW WATERFALL IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. DATA ARE FROM "A WATER QUALITY SURVEY OF THE BACK-COUNTRY IN BRYCE CANYON NATIONAL PARK" BY R. STEVEN NAKASHIMA (AN ENVIRONMENTAL HEALTH SPECIALIST); IN THE SUMMER OF 1981. THE STUDY OBJECTIVE WAS TO "DETERMINE THE BACTERIAL QUALITY OF MAJOR BACK-COUNTRY WATER SOURCES." FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717-0001 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0137

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	06/24/81-06/24/81	1	75.	75.	75.	75.	0.	0.	**	**	**	**
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	06/24/81-06/24/81	1	1.875	1.875	1.875	1.875	0.	0.	**	**	**	**
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			75.								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/24/81-06/24/81	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	06/24/81-06/24/81	1 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			1.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/24/81-06/24/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	06/24/81-06/24/81	1	1.041	1.041	1.041	1.041	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			11.								

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

EPA Water Quality Criteria Analysis for Station: BRCA0137

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	1	0	0.00							1	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BRCA0138

NPS Station ID: BRCA0138 LAT/LON: 37.660226/-112.097338 Agency: 11NPSWRD Date Created: 12/05/98
Location: SPRING AT TROPIC CANYON #2 FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_UU_11
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 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: 14070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING AT TROPIC CANYON #2 IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0138

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/20/68-08/20/68	1	48.	48.	48.	48.	0.	0.	**	**	**	**
74070	FLOW GAL/SEC	08/20/68-08/20/68	1	6.	6.	6.	6.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: BRCA0139

NPS Station ID: BRCA0139
LAT/LON: 37.662227/-112.104171
Agency: 112WRD
Date Created: 06/20/87
Location: (C-36- 3)22BDB-S1
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 373944112061501
RMI-Indexes:
Within Park Boundary: Yes
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0139

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/21/81-10/21/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	10/21/81-10/21/81	1	241.	241.	241.	241.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/21/81-10/21/81	1	480.	480.	480.	480.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/21/81-10/21/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/21/81-10/21/81	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/21/81-10/21/81	1	0.032	0.032	0.032	0.032	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/21/81-10/21/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/21/81-10/21/81	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/21/81-10/21/81	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/21/81-10/21/81	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/21/81-10/21/81	1	240.	240.	240.	240.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/21/81-10/21/81	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/21/81-10/21/81	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/21/81-10/21/81	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/21/81-10/21/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/21/81-10/21/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/21/81-10/21/81	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/21/81-10/21/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/21/81-10/21/81	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/21/81-10/21/81	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/21/81-10/21/81	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/21/81-10/21/81	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/21/81-10/21/81	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/21/81-10/21/81	1	1.	1.	1.	1.	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/21/81-10/21/81	1	239.	239.	239.	239.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0139

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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	Fresh Chronic	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: BRCA0139

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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: BRCA0140

NPS Station ID: BRCA0140 | LAT/LON: 37.662420/-112.103977 | Agency: 11NPSWRD | Date Created: 11/21/98
Location: TROPIC CANYON SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_JCE_TCS
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UTAH-GARFIELD COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. TROPIC CANYON SPRING IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE FEBRUARY 1987 REPORT "PRELIMINARY REPORT OF WATER SYSTEM IMPROVEMENTS FOR THE TOWN OF TROPIC; UTAH" PREPARED BY JOHN CALL ENGINEERING; INC. THE OBJECTIVES OF THE REPORT WERE "TO INVESTIGATE THE EXISTING WATER COLLECTION; TRANSMISSION LINES; STORAGE FACILITIES; DISTRIBUTION; AND ADDITIONAL WATER SYSTEM." THE SAMPLES WERE ASSUMED TO BE FILTERED. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UTAH 84532 (TEL 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL 970-225-3516).

Parameter Inventory for Station: BRCA0140

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/27/86-02/27/86	2	459.5	459.5	487.	432.	1512.5	38.891	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	02/27/86-02/27/86	2	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	02/27/86-02/27/86	2	8.	8.	8.	8.	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/27/86-02/27/86	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/27/86-02/27/86	2	242.5	242.5	252.	233.	180.5	13.435	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	02/27/86-02/27/86	2	295.5	295.5	307.	284.	264.5	16.263	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	02/27/86-02/27/86	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	02/27/86-02/27/86	2 ##	0.053	0.053	0.1	0.005	0.005	0.067	**	**	**	**
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	02/27/86-02/27/86	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	02/27/86-02/27/86	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	02/27/86-02/27/86	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/27/86-02/27/86	2	259.	259.	274.	244.	450.	21.213	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	02/27/86-02/27/86	2	55.	55.	58.	52.	18.	4.243	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	02/27/86-02/27/86	2	29.5	29.5	31.	28.	4.5	2.121	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	02/27/86-02/27/86	2	7.5	7.5	8.	7.	0.5	0.707	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/27/86-02/27/86	2	2.	2.	2.	2.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	02/27/86-02/27/86	2	9.5	9.5	11.	8.	4.5	2.121	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	02/27/86-02/27/86	2	24.	24.	30.	18.	72.	8.485	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	02/27/86-02/27/86	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	02/27/86-02/27/86	2	7.5	7.5	8.	7.	0.5	0.707	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	02/27/86-02/27/86	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	02/27/86-02/27/86	2	295.	295.	370.	220.	11250.	106.066	**	**	**	**

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

Parameter Inventory for Station: BRCA0140

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01020	BORON, DISSOLVED (UG/L AS B)	02/27/86-02/27/86	2	55.	55.	70.	40.	450.	21.213	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	02/27/86-02/27/86	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	02/27/86-02/27/86	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	02/27/86-02/27/86	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	02/27/86-02/27/86	2	55.	55.	60.	50.	50.	7.071	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	02/27/86-02/27/86	2 ##	32.5	32.5	60.	5.	1512.5	38.891	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	02/27/86-02/27/86	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/27/86-02/27/86	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	02/27/86-02/27/86	2 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	02/27/86-02/27/86	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	02/27/86-02/27/86	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/27/86-02/27/86	2 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	02/27/86-02/27/86	2 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/27/86-02/27/86	2	277.	277.	284.	270.	98.	9.899	**	**	**	**
71830	HYDROXIDE ION (MG/L AS OH)	02/27/86-02/27/86	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	02/27/86-02/27/86	2 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	02/27/86-02/27/86	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0140

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Fresh Chronic	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.	2	0	0.00				2	0	0.00						
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	2	0	0.00				2	0	0.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	2	0	0.00				2	0	0.00						
		Drinking Water	250.	2	0	0.00				2	0	0.00						
00946	SULFATE, DISSOLVED (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.	2	0	0.00				2	0	0.00						
		Drinking Water	50.	2	0	0.00				2	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	2	0	0.00				2	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	2	0	0.00				2	0	0.00						
		Drinking Water	5.	2	0	0.00				2	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00				2	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00				2	0	0.00						
		Drinking Water	1300.	2	0	0.00				2	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00				2	0	0.00						
		Drinking Water	15.	2	0	0.00				2	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00				2	0	0.00						
		Drinking Water	100.	2	0	0.00				2	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	2	0	0.00				2	0	0.00						
		Drinking Water	100.	2	0	0.00				2	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00				2	0	0.00						
		Drinking Water	5000.	2	0	0.00				2	0	0.00						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	2	0	0.00				2	0	0.00						
		Drinking Water	50.	2	0	0.00				2	0	0.00						
01220	CHROMIUM, HEXAVALENT, DISSOLVED	Fresh Acute	16.	2	0	0.00				2	0	0.00						
		Drinking Water	100.	2	0	0.00				2	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						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	2	0	0.00				2	0	0.00						

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

Station Inventory for Station: BRCA0141

NPS Station ID: BRCA0141 LAT/LON: 37.662420/-112.103977 Agency: 11NPSWRD Date Created: 12/05/98
Location: SPRING AT TROPIC CANYON #1 FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_UU_10
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 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: 14070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING AT TROPIC CANYON #1 IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0141

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/19/68-08/19/68	1	54.	54.	54.	54.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/19/68-08/19/68	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/19/68-08/19/68	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/19/68-08/19/68	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/19/68-08/19/68	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/19/68-08/19/68	1	346.	346.	346.	346.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/19/68-08/19/68	1	50.	50.	50.	50.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/19/68-08/19/68	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/19/68-08/19/68	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/19/68-08/19/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/19/68-08/19/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/19/68-08/19/68	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/19/68-08/19/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/19/68-08/19/68	1	269.	269.	269.	269.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/19/68-08/19/68	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: BRCA0141

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0142

NPS Station ID: BRCA0142 | LAT/LON: 37.662420/-112.103977 | Agency: 11NPSWRD | Date Created: 12/19/98
Location: TROPIC CANYON SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_CLE_10
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UTAH-GARFIELD COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. TROPIC CANYON SPRING IS A NATURAL SPRING AND IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM A PRELIMINARY ENGINEERING REPORT COMPLETED IN MAY 1974 "TOWN OF TROPIC; CULINARY WATERWORKS" PREPARED BY CANYON LANDS ENGINEERING; INC. THE SAMPLES WERE ASSUMED TO BE FILTERED. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UTAH 84532 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0142

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00070	TURBIDITY, (JACKSON CANDLE UNITS)	03/09/74-03/09/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/09/74-03/09/74	1	485.	485.	485.	485.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/09/74-03/09/74	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/09/74-03/09/74	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/09/74-03/09/74	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/09/74-03/09/74	1	238.	238.	238.	238.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/09/74-03/09/74	1	290.	290.	290.	290.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	03/09/74-03/09/74	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/09/74-03/09/74	1	0.082	0.082	0.082	0.082	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	03/09/74-03/09/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/09/74-03/09/74	1	270.	270.	270.	270.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/09/74-03/09/74	1	51.	51.	51.	51.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/09/74-03/09/74	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/09/74-03/09/74	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/09/74-03/09/74	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/09/74-03/09/74	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/09/74-03/09/74	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/09/74-03/09/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/09/74-03/09/74	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	03/09/74-03/09/74	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	03/09/74-03/09/74	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	03/09/74-03/09/74	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/09/74-03/09/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	03/09/74-03/09/74	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: BRCA0142

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01045	IRON, TOTAL (UG/L AS FE)	03/09/74-03/09/74	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	03/09/74-03/09/74	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	03/09/74-03/09/74	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/09/74-03/09/74	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01065	NICKEL, DISSOLVED (UG/L AS NI)	03/09/74-03/09/74	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	03/09/74-03/09/74	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	03/09/74-03/09/74	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	03/09/74-03/09/74	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	03/09/74-03/09/74	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	03/09/74-03/09/74	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
46003	PHOSPHATE, TOTAL, FILTER PASSING (MG/L AS P)	03/09/74-03/09/74	1 ##	0.	0.	0.	0.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/09/74-03/09/74	1	286.	286.	286.	286.	0.	0.	**	**	**	**
71830	HYDROXIDE ION (MG/L AS OH)	03/09/74-03/09/74	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: BRCA0142

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						
00400	PH	Fresh Chronic	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						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
		Drinking Water	250.	1	0	0.00				1	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00				1	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	1	0	0.00				1	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	1	0	0.00				1	0	0.00						
		Drinking Water	5.	1	0	0.00				1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	1	0	0.00				1	0	0.00						
		Drinking Water	1300.	1	0	0.00				1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00				1	0	0.00						
		Drinking Water	15.	1	0	0.00				1	0	0.00						
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	1	0	0.00				1	0	0.00						
		Drinking Water	5000.	1	0	0.00				1	0	0.00						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00				1	0	0.00						
		Drinking Water	50.	1	0	0.00				1	0	0.00						
01220	CHROMIUM, HEXAVALENT, DISSOLVED	Fresh Acute	16.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: BRCA0143

NPS Station ID: BRCA0143 | LAT/LON: 37.662420/-112.114031 | Agency: 11NPSWRD | Date Created: 10/17/98
Location: MOSSY CAVE | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_NPS_MOSSY
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UTAH-GARFIELD COUNTY 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. MOSSY CAVE IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLE WAS TAKEN AS WATER FALLS FROM SOURCE IN THE CEILING. DATA ARE FROM "A WATER QUALITY SURVEY OF THE BACK-COUNTRY IN BRYCE CANYON NATIONAL PARK" BY R. STEVEN NAKASHIMA (AN ENVIRONMENTAL HEALTH SPECIALIST); IN THE SUMMER OF 1981. THE STUDY OBJECTIVE WAS TO "DETERMINE THE BACTERIAL QUALITY OF MAJOR BACK-COUNTRY WATER SOURCES." FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717-0001 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525-5596 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0143

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31507	COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508)	07/08/81-07/08/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**
31507	LOG COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 3150	07/08/81-07/08/81	1	1.041	1.041	1.041	1.041	0.	0.	**	**	**	**
31507	GM COLIFORM,TOT,MPN,COMPLETED TEST,35C (TUBE 31508	GEOMETRIC MEAN =			11.								
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/08/81-07/08/81	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31615	LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/08/81-07/08/81	1 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31615	GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	GEOMETRIC MEAN =			1.5								
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/08/81-07/08/81	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
31673	LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/08/81-07/08/81	1 ##	0.176	0.176	0.176	0.176	0.	0.	**	**	**	**
31673	GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	GEOMETRIC MEAN =			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

EPA Water Quality Criteria Analysis for Station: BRCA0143

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	1	0	0.00							1	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	1	0	0.00							1	0	0.00			

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

Station Inventory for Station: BRCA0144

NPS Station ID: BRCA0144 LAT/LON: 37.662504/-112.104171 Agency: 21UTDHDW Date Created: 05/26/90
Location: TROPIC - BRYCE SPRINGS FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/MUN/INTAKE/NONAMB/SPRING/SUPPLY STORET Station ID(s): 0900801 /UT4900443001
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 16030002 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 16030002 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
NOTE: THIS IS A PUBLIC DRINKING WATER SOURCE * * * NOTE: THE SECONDARY STATION CODE IS EPA'S FRDS2 PWS-ID #
SYSTEM TYPE: COMMUNITY-POLITICAL SUBDIV SERVICE AREA TYPE: RESIDENTIAL AREA
GS NUMBER FOR THIS SITE IS: 373944112061501

Parameter Inventory for Station: BRCA0144

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/11/80-06/08/85	2 ##	0.35	0.35	0.6	0.1	0.125	0.354	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/11/80-03/11/80	1	490.	490.	490.	490.	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/11/80-06/08/85	2	8.3	8.3	8.5	8.1	0.08	0.283	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/11/80-06/08/85	2	8.255	8.255	8.5	8.1	0.084	0.29	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/11/80-06/08/85	2	0.006	0.006	0.008	0.003	0.	0.003	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	03/11/80-03/11/80	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/11/80-03/11/80	1	228.	228.	228.	228.	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/11/80-03/11/80	1	266.	266.	266.	266.	0.	0.	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	03/11/80-03/11/80	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/11/80-03/11/80	1 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/11/80-06/08/85	2	0.4	0.4	0.5	0.3	0.02	0.141	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/11/80-03/11/80	1	244.	244.	244.	244.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/11/80-03/11/80	1	43.	43.	43.	43.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/11/80-03/11/80	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/11/80-03/11/80	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/11/80-03/11/80	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/11/80-06/08/85	2	9.	9.	9.	9.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/11/80-06/08/85	2	14.	14.	15.	13.	2.	1.414	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/11/80-06/08/85	2	0.305	0.305	0.31	0.3	0.	0.007	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/11/80-03/11/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01002	ARSENIC, TOTAL (UG/L AS AS)	03/11/80-06/08/85	2 ##	2.25	2.25	4.	0.5	6.125	2.475	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	03/11/80-06/08/85	2	0.3	0.3	0.4	0.2	0.02	0.141	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	03/11/80-03/11/80	1	70.	70.	70.	70.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	03/11/80-06/08/85	2 ##	1.75	1.75	3.	0.5	3.125	1.768	**	**	**	**
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	03/11/80-03/11/80	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)	03/11/80-06/08/85	2 ##	2.25	2.25	2.5	2.	0.125	0.354	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/11/80-06/08/85	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	03/11/80-06/08/85	2 ##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/11/80-06/08/85	2 ##	3.75	3.75	5.	2.5	3.125	1.768	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/11/80-03/11/80	1 ##	5.	5.	5.	5.	0.	0.	**	**	**	**
01077	SILVER, TOTAL (UG/L AS AG)	03/11/80-06/08/85	2 ##	1.75	1.75	2.5	1.	1.125	1.061	**	**	**	**

** - Less than 9 observations ## - 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: BRCA0144

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01092	ZINC, TOTAL (UG/L AS ZN)	03/11/80-06/08/85	2 ##	13.75	13.75	25.	2.5	253.125	15.91	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	03/11/80-06/08/85	2 ##	1.5	1.5	2.5	0.5	2.	1.414	**	**	**	**
01501	ALPHA, TOTAL	11/02/81-04/07/82	2 ##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/11/80-06/08/85	2	284.5	284.5	304.	265.	760.5	27.577	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)	03/11/80-06/08/85	2 ##	0.275	0.275	0.5	0.05	0.101	0.318	**	**	**	**
74010	IRON, TOTAL (MG/L AS FE)	03/11/80-06/08/85	2 ##	0.033	0.033	0.04	0.025	0.	0.011	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0144

Parameter				Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			--------------n/a--------------		
		Std. Type	Std. Value	Obs	Standard	Exceeding	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.	Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00				1	0	0.00	1	0	0.00			
00403	PH, LAB	Fresh Chronic	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			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	2	0	0.00				1	0	0.00	1	0	0.00			
00941	CHLORIDE, DISSOLVED 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			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	2	0	0.00				1	0	0.00	1	0	0.00			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	2	0	0.00				1	0	0.00	1	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	50.	2	0	0.00				1	0	0.00	1	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	2	0	0.00				1	0	0.00	1	0	0.00			
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			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	1	0	0.00				1	0	0.00						
		Drinking Water	100.	1	0	0.00				1	0	0.00						
01034	CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00				1	0	0.00	1	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	1300.	2	0	0.00				1	0	0.00	1	0	0.00			
01051	LEAD, TOTAL	Fresh Acute	82.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	15.	2	0	0.00				1	0	0.00	1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	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	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	100.	2	0	0.00				1	0	0.00	1	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	5000.	2	0	0.00				1	0	0.00	1	0	0.00			
01147	SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	50.	2	0	0.00				1	0	0.00	1	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00				1	0	0.00	1	0	0.00			
		Drinking Water	2.	2	0	0.00				1	0	0.00	1	0	0.00			

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

Station Inventory for Station: BRCA0145

NPS Station ID: BRCA0145 | LAT/LON: 37.662615/-112.104282 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: DR. GOOD #10 | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_004
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 6760 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UT-GARFIELD CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. DR. GOOD #10 IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0145

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/12/96-06/12/96	1	27.	27.	27.	27.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	06/12/96-06/12/96	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

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

Station Inventory for Station: BRCA0146

NPS Station ID: BRCA0146
LAT/LON: 37.663616/-112.111392
Agency: 112WRD
Date Created: 06/20/87
Location: (C-36- 3)21AAC-S1
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 373949112064101
RMI-Indexes:
Within Park Boundary: Yes
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0146

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/81-10/18/81	1	472.	472.	472.	472.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: BRCA0147

NPS Station ID: BRCA0147
LAT/LON: 37.663616/-112.113616
Agency: 112WRD
Date Created: 06/20/87
Location: (C-36- 3)21AAC-S1
FIPS State/County: 49025 UTAH/KANE
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): 373949112064901
RMI-Indexes:
Within Park Boundary: Yes
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0147

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/81-10/18/81	1	10.5	10.5	10.5	10.5	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/81-10/18/81	1	470.	470.	470.	470.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	10/18/81-10/18/81	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	10/18/81-10/18/81	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/81-10/18/81	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	10/18/81-10/18/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	10/18/81-10/18/81	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/81-10/18/81	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/18/81-10/18/81	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/81-10/18/81	1	250.	250.	250.	250.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/81-10/18/81	1	44.	44.	44.	44.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/81-10/18/81	1	35.	35.	35.	35.	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	10/18/81-10/18/81	1	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
00931	SODIUM ADSORPTION RATIO	10/18/81-10/18/81	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	10/18/81-10/18/81	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/81-10/18/81	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	10/18/81-10/18/81	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	10/18/81-10/18/81	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/81-10/18/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	10/18/81-10/18/81	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	10/18/81-10/18/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/18/81-10/18/81	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/18/81-10/18/81	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/18/81-10/18/81	1	249.	249.	249.	249.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0147

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	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	Fresh Chronic	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: BRCA0147

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
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: BRCA0148

NPS Station ID: BRCA0148 | LAT/LON: 37.663699/-112.114031 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: SPRING AT MOSSY CAVE #1 | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_08
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING AT MOSSY CAVE #1 IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0148

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/11/68-08/11/68	1	49.	49.	49.	49.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/11/68-08/11/68	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/11/68-08/11/68	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/11/68-08/11/68	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/11/68-08/11/68	1	220.	220.	220.	220.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/11/68-08/11/68	1	266.	266.	266.	266.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/11/68-08/11/68	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/11/68-08/11/68	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/11/68-08/11/68	1	5.2	5.2	5.2	5.2	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/11/68-08/11/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/11/68-08/11/68	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/11/68-08/11/68	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/11/68-08/11/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/11/68-08/11/68	1	254.	254.	254.	254.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/11/68-08/11/68	1	6.	6.	6.	6.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0148

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0149

NPS Station ID: BRCA0149 | LAT/LON: 37.664031/-112.116226 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: WATER CANYON LOWER SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_003
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 6885 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UT-GARFIELD CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. WATER CANYON LOWER SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0149

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/12/96-06/12/96	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/12/96-06/12/96	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/12/96-06/12/96	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/12/96-06/12/96	1	7.38	7.38	7.38	7.38	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/12/96-06/12/96	1	7.38	7.38	7.38	7.38	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/12/96-06/12/96	1	0.042	0.042	0.042	0.042	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/12/96-06/12/96	1	325.	325.	325.	325.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	06/12/96-06/12/96	1	85.2	85.2	85.2	85.2	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: BRCA0149

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00406	PH, FIELD	Fresh Chronic	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: BRCA0150

NPS Station ID: BRCA0150 | LAT/LON: 37.664226/-112.113727 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: SPRING AT WATER CANYON | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_07
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING AT WATER CANYON IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0150

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/11/68-08/11/68	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

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

Station Inventory for Station: BRCA0151

NPS Station ID: BRCA0151 | LAT/LON: 37.664309/-112.113616 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: WATER CANYON UPPER SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_001A
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 7000 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UT-GARFIELD CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. WATER CANYON UPPER SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0151

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/96-06/11/96	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/11/96-06/11/96	1	33.	33.	33.	33.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/96-06/11/96	1	460.	460.	460.	460.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/11/96-06/11/96	1	7.77	7.77	7.77	7.77	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/11/96-06/11/96	1	7.77	7.77	7.77	7.77	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/11/96-06/11/96	1	0.017	0.017	0.017	0.017	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/11/96-06/11/96	1	299.	299.	299.	299.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	06/11/96-06/11/96	1	85.2	85.2	85.2	85.2	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: BRCA0151

				Total	Exceed	Prop.	----------7/10-2/19----------			----------2/20-5/09----------			----------5/10-7/09----------			----------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	Fresh Chronic	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: BRCA0152

NPS Station ID: BRCA0152 | LAT/LON: 37.664309/-112.113616 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: WATER CANYON UPPER SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_001B
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 7080 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UT-GARFIELD CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. WATER CANYON UPPER SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0152

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/96-06/11/96	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/11/96-06/11/96	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/96-06/11/96	1	500.	500.	500.	500.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/11/96-06/11/96	1	7.38	7.38	7.38	7.38	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/11/96-06/11/96	1	7.38	7.38	7.38	7.38	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/11/96-06/11/96	1	0.042	0.042	0.042	0.042	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/11/96-06/11/96	1	325.	325.	325.	325.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	06/11/96-06/11/96	1	24.	24.	24.	24.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0152

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00406	PH, FIELD	Fresh Chronic	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: BRCA0153

NPS Station ID: BRCA0153 | LAT/LON: 37.664559/-112.114837 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: SPRING AT WATER CANYON | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_06
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING AT WATER CANYON IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0153

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/11/68-08/11/68	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

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

Station Inventory for Station: BRCA0154

NPS Station ID: BRCA0154 | LAT/LON: 37.664587/-112.114865 | Agency: 11NPSWRD | Date Created: 08/29/98
Location: MOSSY CAVE SPRING | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_SP_002
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | Depth of Water: 0 | Aquifer:
Major Basin: COLORADO RIVER | Elevation: 6960 | Water Body Id:
Minor Basin: MIDDLE COLORADO RIVER SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UT-GARFIELD CO. 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. MOSSY CAVE SPRING IS A NATURAL SPRING AND IS INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE SAMPLES WERE COLLECTED BETWEEN 6/11/96 AND 8/8/96 AS PART OF A STUDY DONE BY NATIONAL PARK SERVICE PERSONNEL. DATA ARE ASSOCIATED WITH THE REPORT "NATURAL SPRING INVENTORY-BRYCE CANYON NATIONAL PARK." THE OBJECTIVES OF THE STUDY WERE TO ASSESS THE WATER QUALITY AND CREATE A BASELINE INVENTORY OF THE SPRINGS LOCATED WITHIN BRYCE CANYON NATIONAL PARK. FOR MORE INFORMATION CONTACT THE CHIEF OF RESOURCES AT BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL. 801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0154

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/11/96-06/11/96	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/11/96-06/11/96	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/11/96-06/11/96	1	470.	470.	470.	470.	0.	0.	**	**	**	**
00406	PH, FIELD, STANDARD UNITS SU	06/11/96-06/11/96	1	7.18	7.18	7.18	7.18	0.	0.	**	**	**	**
00406	CONVERTED PH, FIELD, STANDARD UNITS	06/11/96-06/11/96	1	7.18	7.18	7.18	7.18	0.	0.	**	**	**	**
00406	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/11/96-06/11/96	1	0.066	0.066	0.066	0.066	0.	0.	**	**	**	**
70304	SOLIDS, TOTAL DISSOLVED-COND. METER (MG/L)	06/11/96-06/11/96	1	306.	306.	306.	306.	0.	0.	**	**	**	**
74073	FLOW LITERS/MIN	06/11/96-06/11/96	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: BRCA0154

			Total	Exceed	Prop.	7/10-2/19			2/20-5/09			5/10-7/09			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	Fresh Chronic	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: BRCA0155

NPS Station ID: BRCA0155
LAT/LON: 37.666115/-112.109449
Agency: 21UTAH
Date Created: 01/31/98
Location: TROPIC DITCH @ U12 XING E OF BRYCE
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 495191
RMI-Indexes:
Within Park Boundary: Yes
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0155

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/17/97-06/09/98	9	9.	8.356	15.	2.	19.955	4.467	2.	3.95	12.	15.
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/17/97-06/09/98	9	2.	5.156	16.	0.4	37.118	6.092	0.4	1.	11.5	16.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/17/97-06/09/98	9	111.	642.778	5120.	4.8	2824432.217	1680.605	4.8	10.45	178.5	5120.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/17/97-06/09/98	9	459.	478.222	750.	370.	12176.444	110.347	370.	408.	490.	750.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/17/97-06/09/98	9	442.	426.333	462.	336.	1545.25	39.31	336.	409.	453.5	462.
00300	OXYGEN, DISSOLVED MG/L	09/17/97-06/09/98	9	9.5	9.156	10.8	7.3	1.408	1.186	7.3	7.9	10.	10.8
00400	PH (STANDARD UNITS)	09/17/97-06/09/98	9	8.42	8.503	9.16	8.01	0.104	0.322	8.01	8.345	8.68	9.16
00400	CONVERTED PH (STANDARD UNITS)	09/17/97-06/09/98	9	8.42	8.412	9.16	8.01	0.113	0.336	8.01	8.345	8.68	9.16
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/17/97-06/09/98	9	0.004	0.004	0.01	0.001	0.	0.003	0.001	0.002	0.005	0.01
00403	PH, LAB, STANDARD UNITS SU	09/17/97-06/09/98	9	8.3	8.333	8.6	8.	0.03	0.173	8.	8.25	8.45	8.6
00403	CONVERTED PH, LAB, STANDARD UNITS	09/17/97-06/09/98	9	8.3	8.301	8.6	8.	0.031	0.177	8.	8.25	8.45	8.6
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/17/97-06/09/98	9	0.005	0.005	0.01	0.003	0.	0.002	0.003	0.004	0.006	0.01
00405	CARBON DIOXIDE (MG/L AS CO2)	09/17/97-06/09/98	9	2.	2.333	5.	1.	1.25	1.118	1.	2.	2.5	5.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/17/97-06/09/98	9	238.	229.333	246.	187.	347.75	18.648	187.	220.5	241.	246.
00440	BICARBONATE ION (MG/L AS HCO3)	09/17/97-06/09/98	9	290.	279.778	300.	228.	518.444	22.769	228.	269.	294.	300.
00445	CARBONATE ION (MG/L AS CO3)	09/17/97-06/09/98	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/17/97-06/09/98	9	114.	605.556	4340.	7.	1987004.028	1409.611	7.	18.	370.	4340.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/17/97-06/09/98	9 ##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/17/97-06/09/98	9	0.3	0.226	0.5	0.01	0.037	0.193	0.01	0.035	0.4	0.5
00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/18/97-06/09/98	7 ##	0.01	0.073	0.39	0.005	0.02	0.141	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/17/97-06/09/98	9 ##	0.01	0.012	0.042	0.005	0.	0.012	0.005	0.005	0.014	0.042
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/17/97-06/09/98	9	239.	235.778	262.	196.	457.944	21.4	196.	219.	253.	262.
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/17/97-06/09/98	9	39.9	38.767	48.7	21.8	58.518	7.65	21.8	35.5	43.4	48.7
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/17/97-06/09/98	9	34.4	33.756	39.2	28.8	12.165	3.488	28.8	30.1	36.5	39.2
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/17/97-06/09/98	9	3.71	3.567	5.32	1.88	1.882	1.372	1.88	2.14	4.845	5.32
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/17/97-06/09/98	9	1.65	1.448	2.48	0.5	0.442	0.665	0.5	0.77	1.89	2.48
00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/17/97-06/09/98	9	5.	4.222	8.	1.5	7.319	2.705	1.5	1.5	6.5	8.
00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/17/97-06/09/98	9 ##	5.	5.789	12.1	5.	5.601	2.367	5.	5.	5.	12.1
01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/31/97-04/30/98	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	10/31/97-04/30/98	3	370.	330.	390.	230.	7600.	87.178	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/31/97-04/30/98	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/31/97-04/30/98	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	10/31/97-04/30/98	3 ##	6.	6.	6.	6.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	10/31/97-04/30/98	3 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	10/31/97-04/30/98	3 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/97-04/30/98	3 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	10/31/97-04/30/98	3 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	10/31/97-04/30/98	3 ##	15.	15.	15.	15.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: BRCA0155

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/31/97-04/30/98	3 ##	15.	23.333	40.	15.	208.333	14.434	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/31/97-04/30/98	3 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/17/97-06/09/98	9	236.	229.111	260.	182.	502.111	22.408	182.	217.	241.	260.
71830	HYDROXIDE ION (MG/L AS OH)	09/17/97-06/09/98	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
71890	MERCURY, DISSOLVED (UG/L AS HG)	10/31/97-04/30/98	3 ##	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: BRCA0155

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	9	5	0.56	4	1	0.25	3	2	0.67	2	2	1.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
00400	PH	Fresh Chronic	9.	9	1	0.11	4	0	0.00	3	0	0.00	2	1	0.50			
		Other-Lo Lim.	6.5	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
00403	PH, LAB	Fresh Chronic	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			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
00941	CHLORIDE, DISSOLVED 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			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	9	0	0.00	4	0	0.00	3	0	0.00	2	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	50.	3	0	0.00	2	0	0.00	1	0	0.00						
01005	BARIUM, DISSOLVED	Drinking Water	2000.	3	0	0.00	2	0	0.00	1	0	0.00						
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	5.	3	0	0.00	2	0	0.00	1	0	0.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	3	0	0.00	2	0	0.00	1	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	1300.	3	0	0.00	2	0	0.00	1	0	0.00						
01049	LEAD, DISSOLVED	Fresh Acute	82.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	15.	3	0	0.00	2	0	0.00	1	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	100.	3	0	0.00	2	0	0.00	1	0	0.00						
01090	ZINC, DISSOLVED	Fresh Acute	120.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	5000.	3	0	0.00	2	0	0.00	1	0	0.00						
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	50.	3	0	0.00	2	0	0.00	1	0	0.00						
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	3	0	0.00	2	0	0.00	1	0	0.00						
		Drinking Water	2.	3	0	0.00	2	0	0.00	1	0	0.00						

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

Station Inventory for Station: BRCA0156

NPS Station ID: BRCA0156
LAT/LON: 37.666392/-112.108892
Agency: 21UTAH
Date Created: 01/31/98
Location: PARIA R 3 MI NNE OF TROPIC
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 495192
RMI-Indexes:
Within Park Boundary: Yes
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: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0156

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/98-06/09/98	3	15.3	15.367	16.1	14.7	0.493	0.702	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/30/98-05/19/98	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/30/98-06/09/98	3	0.9	0.967	1.4	0.6	0.163	0.404	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/30/98-06/09/98	3	758.	670.	766.	486.	25408.	159.399	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/98-06/09/98	3	772.	771.667	783.	760.	132.333	11.504	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	04/30/98-06/09/98	3	7.9	7.733	8.2	7.1	0.323	0.569	**	**	**	**
00400	PH (STANDARD UNITS)	04/30/98-06/09/98	3	8.4	8.49	8.75	8.32	0.052	0.229	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/30/98-06/09/98	3	8.4	8.454	8.75	8.32	0.054	0.233	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/30/98-06/09/98	3	0.004	0.004	0.005	0.002	0.	0.002	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/30/98-06/09/98	3	8.5	8.467	8.5	8.4	0.003	0.058	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/30/98-06/09/98	3	8.5	8.464	8.5	8.4	0.003	0.058	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/30/98-06/09/98	3	0.003	0.003	0.004	0.003	0.	0.	**	**	**	**
00405	CARBON DIOXIDE (MG/L AS CO2)	04/30/98-06/09/98	3	2.	1.667	2.	1.	0.333	0.577	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/98-06/09/98	3	289.	266.333	290.	220.	1610.333	40.129	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	04/30/98-06/09/98	3	352.	324.667	354.	268.	2409.333	49.085	**	**	**	**
00445	CARBONATE ION (MG/L AS CO3)	04/30/98-06/09/98	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/30/98-06/09/98	3 ##	2.	3.	5.	2.	3.	1.732	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/98-06/09/98	3 ##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/30/98-06/09/98	3	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/30/98-06/09/98	3 ##	0.01	0.021	0.045	0.008	0.	0.021	**	**	**	**
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/30/98-06/09/98	3 ##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/30/98-06/09/98	3	344.	341.333	352.	328.	149.333	12.22	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/30/98-06/09/98	3	59.7	57.5	60.	52.8	16.59	4.073	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/30/98-06/09/98	3	47.6	48.033	49.3	47.2	1.243	1.115	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/30/98-06/09/98	3	33.8	33.633	34.3	32.8	0.583	0.764	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/30/98-06/09/98	3	3.29	3.377	3.78	3.06	0.135	0.368	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	04/30/98-06/09/98	3	70.	71.667	75.	70.	8.333	2.887	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/30/98-06/09/98	3	14.	13.7	15.7	11.4	4.69	2.166	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/30/98-04/30/98	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	04/30/98-04/30/98	1	310.	310.	310.	310.	0.	0.	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/30/98-04/30/98	1 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/30/98-04/30/98	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	04/30/98-04/30/98	1 ##	6.	6.	6.	6.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/30/98-04/30/98	1 ##	10.	10.	10.	10.	0.	0.	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	04/30/98-04/30/98	1 ##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/30/98-04/30/98	1 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	04/30/98-04/30/98	1 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	04/30/98-04/30/98	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: BRCA0156

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/30/98-04/30/98	1 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/30/98-04/30/98	1	1.	1.	1.	1.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/30/98-06/09/98	3	416.	412.	420.	400.	112.	10.583	**	**	**	**
71830	HYDROXIDE ION (MG/L AS OH)	04/30/98-06/09/98	3	0.	0.	0.	0.	0.	0.	**	**	**	**
71890	MERCURY, DISSOLVED (UG/L AS HG)	04/30/98-04/30/98	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: BRCA0156

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00				1	0	0.00	2	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	3	0	0.00				1	0	0.00	2	0	0.00			
00400	PH	Fresh Chronic	9.	3	0	0.00				1	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	3	0	0.00				1	0	0.00	2	0	0.00			
00403	PH, LAB	Fresh Chronic	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			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	3	0	0.00				1	0	0.00	2	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	3	0	0.00				1	0	0.00	2	0	0.00			
		Drinking Water	250.	3	0	0.00				1	0	0.00	2	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	3	0	0.00				1	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.	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						
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						
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: BRCA0157

NPS Station ID: BRCA0157 | LAT/LON: 37.666587/-112.108892 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: TROPIC DITCH | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /CANAL/TYPA/AMBNT | STORET Station ID(s): BRCA_UU_09
RMI-Indexes: | Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 | 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: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. TROPIC DITCH IS A CANAL LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0157

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/21/68-08/21/68	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/21/68-08/21/68	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/21/68-08/21/68	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/21/68-08/21/68	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/21/68-08/21/68	1	200.	200.	200.	200.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/21/68-08/21/68	1	299.	299.	299.	299.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/21/68-08/21/68	1	36.	36.	36.	36.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/21/68-08/21/68	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/21/68-08/21/68	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/21/68-08/21/68	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/21/68-08/21/68	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/21/68-08/21/68	1	3.	3.	3.	3.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/21/68-08/21/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/21/68-08/21/68	1	194.	194.	194.	194.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/21/68-08/21/68	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: BRCA0157

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0158

NPS Station ID: BRCA0158 | LAT/LON: 37.671921/-112.081810 | Agency: 11NPSWRD | Date Created: 12/05/98
Location: SPRING AT BOX CANYON | FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING | STORET Station ID(s): BRCA_UU_05
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: MIDDLE COLORADO RIVER-SAN JUAN RIVER | ECO Region:
RF1 Index: 14070007 | RF1 Mile Point: 0.000 | Distance from RF1: 0.00 | On/Off RF1:
RF3 Index: | RF3 Mile Point: 0.00 | Distance from RF3: 0.00 | On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING AT BOX CANYON IS LOCATED OUTSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0158

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/20/68-08/20/68	1	55.	55.	55.	55.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: BRCA0159

NPS Station ID: BRCA0159
Location: BRYCE LAGOON EFFLUENT
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 16030002
Major Basin: GREAT BASIN
Minor Basin: SEVIER RIVER DRAINAGE
RF1 Index: 16030002021
RF3 Index:
Description:

LAT/LON: 37.680838/-112.158892
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 7.660
RF3 Mile Point: 0.00

Agency: 21UTAH
FIPS State/County: 49017 UTAH/GARFIELD
STORET Station ID(s): 494928
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00
Distance from RF3: 0.00

Date Created: 03/24/79
On/Off RF1: OFF
On/Off RF3:

Parameter Inventory for Station: BRCA0159

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: BRCA0160

NPS Station ID: BRCA0160 LAT/LON: 37.694087/-112.086726 Agency: 11NPSWRD Date Created: 12/05/98
Location: SPRING AT COPE CANYON NORTH FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING STORET Station ID(s): BRCA_UU_01
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 14070007 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: 14070007 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:
THE STATION IS LOCATED ON THE TROPIC CANYON UTAH 7.5 MINUTE SERIES (TOPOGRAPHIC) QUADRANGLE. THE SPRING AT COPE CANYON NORTH IS LOCATED INSIDE THE BRYCE CANYON NATIONAL PARK BOUNDARY. THE DATA ARE FROM THE DECEMBER 1970 REPORT "APPRAISAL OF WATER SUPPLIES FOR MUNICIPAL USE IN TROPIC; CANNONVILLE; AND HENRIEVILLE; GARFIELD COUNTY; UTAH;" BY HARRY D. GOODE AT THE UNIVERSITY OF UTAH. THE PURPOSE OF THE REPORT WAS TO GIVE RECOMMENDATIONS FOR SOLVING PROBLEMS WITH BACTERIA; WATER SUPPLY; AND WATER PRESSURE LEADING TO APPROVAL BY THE UTAH STATE DIVISION OF HEALTH. FOR PARK INFORMATION CONTACT THE CHIEF OF RESOURCES AT THE BRYCE CANYON NATIONAL PARK; BRYCE CANYON UT 84717 (TEL.801-834-5322). DATA WERE PROCESSED AND UPLOADED TO STORET BY LISA DUMMER; NATIONAL PARK SERVICE WATER RESOURCES DIVISION; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL.970-225-3516).

Parameter Inventory for Station: BRCA0160

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/20/68-08/20/68	1	52.	52.	52.	52.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	08/20/68-08/20/68	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	08/20/68-08/20/68	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/20/68-08/20/68	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/20/68-08/20/68	1	230.	230.	230.	230.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/20/68-08/20/68	1	251.	251.	251.	251.	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/20/68-08/20/68	1	46.	46.	46.	46.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/20/68-08/20/68	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00933	SODIUM,PLUS POTASSIUM (MG/L)	08/20/68-08/20/68	1	31.	31.	31.	31.	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	08/20/68-08/20/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	08/20/68-08/20/68	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	08/20/68-08/20/68	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	08/20/68-08/20/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
45634	HARDNESS, CALCIUM, AS CAC03, WATER, WHOLE, MG/L	08/20/68-08/20/68	1	202.	202.	202.	202.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/20/68-08/20/68	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: BRCA0160

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
		Drinking Water	250.	1	0	0.00	1	0	0.00									
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: BRCA0161

NPS Station ID: BRCA0161
LAT/LON: 37.698892/-112.188060
Agency: 112WRD
Date Created: 12/02/81
Location: (C-36- 4) 2DCA-
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 374156112111701
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0161

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/81-03/02/82	2	5.75	5.75	9.5	2.	28.125	5.303	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/21/81-03/02/82	2	48.5	48.5	63.	34.	420.5	20.506	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/21/81-03/02/82	2	450.	450.	460.	440.	200.	14.142	**	**	**	**
00400	PH (STANDARD UNITS)	04/21/81-03/02/82	2	8.35	8.35	8.5	8.2	0.045	0.212	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	04/21/81-03/02/82	2	8.325	8.325	8.5	8.2	0.046	0.215	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/21/81-03/02/82	2	0.005	0.005	0.006	0.003	0.	0.002	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	04/21/81-03/02/82	2	8.4	8.4	8.5	8.3	0.02	0.141	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	04/21/81-03/02/82	2	8.389	8.389	8.5	8.3	0.02	0.142	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/21/81-03/02/82	2	0.004	0.004	0.005	0.003	0.	0.001	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/21/81-03/02/82	2	270.	270.	290.	250.	800.	28.284	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/21/81-03/02/82	2	52.5	52.5	56.	49.	24.5	4.95	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/21/81-03/02/82	2	33.	33.	36.	30.	18.	4.243	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	04/21/81-03/02/82	2	2.6	2.6	2.7	2.5	0.02	0.141	**	**	**	**
00931	SODIUM ADSORPTION RATIO	04/21/81-03/02/82	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932	SODIUM, PERCENT	04/21/81-03/02/82	2	2.	2.	2.	2.	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/21/81-03/02/82	2	1.	1.	1.	1.	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	04/21/81-03/02/82	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	04/21/81-03/02/82	2	4.	4.	6.	2.	8.	2.828	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/21/81-03/02/82	2	0.3	0.3	0.4	0.2	0.02	0.141	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	04/21/81-03/02/82	2	6.55	6.55	7.	6.1	0.405	0.636	**	**	**	**
01020	BORON, DISSOLVED (UG/L AS B)	04/21/81-03/02/82	2	10.	10.	10.	10.	0.	0.	**	**	**	**
01044	IRON, SUSPENDED (UG/L AS FE)	04/21/81-04/21/81	1	500.	500.	500.	500.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	04/21/81-03/02/82	2	4210.	4210.	7900.	520.	27232200.	5218.448	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	04/21/81-03/02/82	2 ##	10.75	10.75	20.	1.5	171.125	13.081	**	**	**	**
01054	MANGANESE, SUSPENDED (UG/L AS MN)	04/21/81-03/02/82	2	145.	145.	270.	20.	31250.	176.777	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	04/21/81-03/02/82	2	155.	155.	280.	30.	31250.	176.777	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/21/81-03/02/82	2	8.5	8.5	9.	8.	0.5	0.707	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/81-03/02/82	2	251.	251.	270.	232.	722.	26.87	**	**	**	**
70302	SOLIDS, DISSOLVED-TONS PER DAY	04/21/81-03/02/82	2	32.1	32.1	39.3	24.9	103.68	10.182	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/21/81-03/02/82	2	0.345	0.345	0.37	0.32	0.001	0.035	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	04/21/81-03/02/82	2	667.	667.	1250.	84.	679778.	824.487	**	**	**	**
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/21/81-03/02/82	2	109.9	109.9	212.	7.8	20848.82	144.391	**	**	**	**
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	04/21/81-04/21/81	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

EPA Water Quality Criteria Analysis for Station: BRCA0161

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------7/10-2/19---------- Obs	Exceed	Prop.	----------2/20-5/09---------- Obs	Exceed	Prop.	----------5/10-7/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00400	PH	Fresh Chronic	9.	2	0	0.00				2	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00				2	0	0.00						
00403	PH, LAB	Fresh Chronic	9.	2	0	0.00				2	0	0.00						
		Other-Lo Lim.	6.5	2	0	0.00				2	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00				2	0	0.00						
		Drinking Water	250.	2	0	0.00				2	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	2	0	0.00				2	0	0.00						
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	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: BRCA0162

NPS Station ID: BRCA0162
LAT/LON: 37.699449/-112.188060
Agency: 21UTAH
Date Created: 01/22/94
Location: E FK SEVIER R @ U12 XING
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 494956
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:

Parameter Inventory for Station: BRCA0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/93-05/22/97	14	8.25	7.829	16.5	0.	25.855	5.085	0.2	3.65	11.95	15.05
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/15/93-06/01/93	2	14.6	14.6	15.6	13.6	2.	1.414	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	04/26/93-05/22/97	12	13.	65.5	300.	2.	11365.182	106.608	2.	2.25	119.5	285.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/04/96-05/22/97	11	10.2	43.409	233.	3.7	4671.861	68.351	4.06	6.	42.3	204.84
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/26/93-05/22/97	13	471.	458.538	533.	329.	5620.269	74.968	333.4	396.5	520.5	532.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/04/96-05/22/97	11	470.	473.364	523.	365.	2178.855	46.678	378.2	454.	516.	522.6
00300	OXYGEN, DISSOLVED MG/L	05/15/93-05/22/97	13	8.6	8.862	11.2	6.8	1.614	1.271	7.08	8.	10.	10.92
00400	PH (STANDARD UNITS)	05/15/93-05/22/97	13	8.36	8.392	8.8	7.8	0.079	0.281	7.88	8.25	8.605	8.764
00400	CONVERTED PH (STANDARD UNITS)	05/15/93-05/22/97	13	8.36	8.299	8.8	7.8	0.089	0.298	7.88	8.25	8.605	8.764
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/15/93-05/22/97	13	0.004	0.005	0.016	0.002	0.	0.004	0.002	0.003	0.006	0.014
00403	PH, LAB, STANDARD UNITS SU	04/04/96-05/22/97	11	8.3	8.3	8.4	8.1	0.01	0.1	8.12	8.2	8.4	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS	04/04/96-05/22/97	11	8.3	8.289	8.4	8.1	0.01	0.101	8.12	8.2	8.4	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/04/96-05/22/97	11	0.005	0.005	0.008	0.004	0.	0.001	0.004	0.004	0.006	0.008
00405	CARBON DIOXIDE (MG/L AS CO2)	04/04/96-05/22/97	11	2.	2.364	3.	2.	0.255	0.505	2.	2.	3.	3.
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/94-05/22/97	12	252.	242.25	279.	177.	1124.932	33.54	177.9	224.	261.	277.5
00440	BICARBONATE ION (MG/L AS HCO3)	04/04/96-05/22/97	11	308.	302.545	340.	220.	1131.273	33.634	228.8	302.	318.	338.8
00445	CARBONATE ION (MG/L AS CO3)	04/04/96-05/22/97	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/15/93-05/22/97	14	31.5	75.143	558.	2.	20066.901	141.658	5.	16.5	72.	325.5
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/26/93-05/22/97	15 ##	0.025	0.031	0.079	0.025	0.	0.017	0.025	0.025	0.025	0.071
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	09/09/94-09/09/94	1	0.42	0.42	0.42	0.42	0.	0.	**	**	**	**
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/26/93-05/22/97	15	0.03	0.239	2.	0.01	0.266	0.516	0.01	0.01	0.4	1.1
00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/26/93-05/22/97	13	0.035	0.047	0.102	0.015	0.001	0.03	0.015	0.02	0.076	0.096
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/26/93-04/08/97	12 ##	0.005	0.012	0.038	0.005	0.	0.011	0.005	0.005	0.019	0.034
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/09/94-05/22/97	12	256.5	245.083	290.	164.	1379.72	37.145	169.7	230.	268.	284.9
00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/09/94-05/22/97	12	43.35	42.892	53.	31.	58.835	7.67	31.24	35.075	49.775	52.31
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/09/94-05/22/97	12	35.55	33.508	40.2	21.	31.974	5.655	21.99	31.125	36.675	39.42
00930	SODIUM, DISSOLVED (MG/L AS NA)	09/09/94-05/22/97	12	3.23	6.891	21.	1.78	36.923	6.076	1.918	2.303	11.45	18.27
00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/09/94-05/22/97	12	1.275	1.456	5.	0.5	1.665	1.29	0.5	0.5	1.82	4.208
00941	CHLORIDE, DISSOLVED IN WATER MG/L	09/09/94-05/22/97	12	3.5	5.729	15.	0.25	23.403	4.838	0.475	1.625	10.	13.8
00946	SULFATE, DISSOLVED (MG/L AS SO4)	09/09/94-05/22/97	12 ##	5.	9.283	18.3	5.	31.014	5.569	5.	5.	14.85	18.15
00955	SILICA, DISSOLVED (MG/L AS SI02)	09/09/94-09/09/94	1	24.6	24.6	24.6	24.6	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	05/23/96-04/24/97	4 ##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01005	BARIUM, DISSOLVED (UG/L AS BA)	05/23/96-04/24/97	4	245.	250.	310.	200.	2200.	46.904	**	**	**	**
01025	CADMIUM, DISSOLVED (UG/L AS CD)	05/23/96-04/24/97	4 ##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	05/23/96-04/24/97	4 ##	2.5	3.375	6.	2.5	3.063	1.75	**	**	**	**
01040	COPPER, DISSOLVED (UG/L AS CU)	05/23/96-04/24/97	4 ##	6.	6.	6.	6.	0.	0.	**	**	**	**
01046	IRON, DISSOLVED (UG/L AS FE)	05/23/96-04/24/97	4 ##	27.	50.	136.	10.	3544.	59.532	**	**	**	**
01049	LEAD, DISSOLVED (UG/L AS PB)	05/23/96-04/24/97	4 ##	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: BRCA0162

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/23/96-04/24/97	4	7.2	7.225	12.	2.5	15.209	3.9	**	**	**	**
01075	SILVER, DISSOLVED (UG/L AS AG)	05/23/96-04/24/97	4 ##	1.	1.	1.	1.	0.	0.	**	**	**	**
01090	ZINC, DISSOLVED (UG/L AS ZN)	05/23/96-04/24/97	4 ##	15.	15.	15.	15.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	05/23/96-04/24/97	4 ##	29.5	40.25	87.	15.	1158.25	34.033	**	**	**	**
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/23/96-04/24/97	4 ##	0.5	0.625	1.	0.5	0.063	0.25	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/15/93-05/22/97	14	262.	204.214	278.	12.	10664.951	103.271	12.5	155.	270.5	275.
70324	SOLIDS, VOLATILE SUSPENDED IN MIXED LIQUOR (MG/L)	05/15/93-09/09/94	3	6.	9.333	16.	6.	33.333	5.774	**	**	**	**
71830	HYDROXIDE ION (MG/L AS OH)	04/04/96-05/22/97	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
71890	MERCURY, DISSOLVED (UG/L AS HG)	05/23/96-04/24/97	4 ##	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: BRCA0162

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	----------7/10-2/19---------- Obs	Exceed	Prop.	----------2/20-5/09---------- Obs	Exceed	Prop.	----------5/10-7/09---------- Obs	Exceed	Prop.	----------n/a---------- Obs	Exceed	Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	11	2	0.18	2	1	0.50	7	1	0.14	2	0	0.00			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	13	0	0.00	2	0	0.00	7	0	0.00	4	0	0.00			
00400	PH	Fresh Chronic	9.	13	0	0.00	2	0	0.00	7	0	0.00	4	0	0.00			
		Other-Lo Lim.	6.5	13	0	0.00	2	0	0.00	7	0	0.00	4	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	11	0	0.00	2	0	0.00	7	0	0.00	2	0	0.00			
		Other-Lo Lim.	6.5	11	0	0.00	2	0	0.00	7	0	0.00	2	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	15	0	0.00	3	0	0.00	8	0	0.00	4	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	12	0	0.00	3	0	0.00	7	0	0.00	2	0	0.00			
		Drinking Water	250.	12	0	0.00	3	0	0.00	7	0	0.00	2	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	12	0	0.00	3	0	0.00	7	0	0.00	2	0	0.00			
01000	ARSENIC, DISSOLVED	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			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	4	0	0.00	2	0	0.00	1	0	0.00	1	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.	4	0	0.00	2	0	0.00	1	0	0.00	1	0	0.00			
01040	COPPER, DISSOLVED	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			
01049	LEAD, DISSOLVED	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			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	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			
01090	ZINC, DISSOLVED	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			
01145	SELENIUM, DISSOLVED	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			
71890	MERCURY, DISSOLVED	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			

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

Station Inventory for Station: BRCA0163

NPS Station ID: BRCA0163
LAT/LON: 37.700615/-112.128503
Agency: 11NPSWRD
Date Created: 08/15/98
Location: CDBH508R
FIPS State/County: 49017 UTAH/GARFIELD
Station Type: /TYPA/AMBNT/SPRING
STORET Station ID(s): BRCA_NURE_50 /5075794
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 16030002
Depth of Water: 0
Aquifer:
Major Basin: GREAT BASIN
Elevation: 0
Water Body Id:
Minor Basin: SEVIER RIVER
ECO Region:
RF1 Index: 16030002
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index:
RF3 Mile Point: 0.00
Distance from RF3: 0.00
On/Off RF3:
Description:
THE STATION IS LOCATED ON THE BRYCE CANYON UTAH 7.5' SERIES (TOPOGRAPHIC) QUADRANGLE. THE SITE IS AT A SPRING AND IS OUTSIDE OF THE BRYCE CANYON NATIONAL PARK BOUNDARIES. THE SAMPLES WERE FILTERED THROUGH A LESS THAN OR EQUAL TO 0.8 UM MEMBRANE FILTER PRIOR TO ANALYSIS. DATA ARE FROM THE "U.S. GEOLOGICAL SURVEY NATIONAL GEOCHEMICAL DATA BASE: NATIONAL URANIUM RESOURCE EVALUATION DATA FOR THE CONTERMINOUS UNITED STATES" 1994 CD-ROM BY J.D. HOFFMAN AND K. BUTTLEMAN (USGS DIGITAL DATA SERIES DDS-18-A). THE DATA BASE INCLUDES STREAM SEDIMENT; SOIL; SURFACE WATER; AND GROUND WATER DATA. THE "UNIQID" FIELD ENTRY WAS USED TO CREATE THE SECONDARY STATION NAME. THE "SRLID" FIELD ENTRY (SAVANNAH RIVER SCIENTIFIC LABORATORY SAMPLE NUMBER) WAS USED TO CREATE THE STATION LOCATION. THE SAMPLES WERE ANALYZED BY SAVANNAH RIVER SCIENTIFIC LABORATORY. DATA WERE PROCESSED AND UPLOADED TO STORET BY RYAN SHY; NPS-WRD; 1201 OAK RIDGE DRIVE SUITE 250; FORT COLLINS CO 80525 (TEL. 970-225-3516).

Parameter Inventory for Station: BRCA0163

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/12/80-07/12/80	1	18.	18.	18.	18.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/12/80-07/12/80	1	300.	300.	300.	300.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/12/80-07/12/80	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/12/80-07/12/80	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/12/80-07/12/80	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/12/80-07/12/80	1	175.	175.	175.	175.	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/12/80-07/12/80	1	18.2	18.2	18.2	18.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/12/80-07/12/80	1	7.54	7.54	7.54	7.54	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/12/80-07/12/80	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01085	VANADIUM, DISSOLVED (UG/L AS V)	07/12/80-07/12/80	1 ##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
22703	URANIUM, NATURAL, DISSOLVED	07/12/80-07/12/80	1	0.604	0.604	0.604	0.604	0.	0.	**	**	**	**
50700	FLUORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/12/80-07/12/80	1	69.	69.	69.	69.	0.	0.	**	**	**	**
50760	CHLORINE, DISSOLVED, FILTERED WATER SAMPLE UG/L	07/12/80-07/12/80	1	6100.	6100.	6100.	6100.	0.	0.	**	**	**	**
82041	HELIUM, DISSOLVED IN WATER (UG/L AS HE)	07/12/80-07/12/80	1	7100.	7100.	7100.	7100.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: BRCA0163

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400	PH	Fresh Chronic	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	1	0	0.00	1	0	0.00									

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

EPA Water Quality Criteria Analysis for Entire BRCA Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	27	0	0.00	21	0	0.00	1	0	0.00	5	0	0.00			
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	180	12	0.07	86	2	0.02	24	4	0.17	70	6	0.09			
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	231	6	0.03	118	4	0.03	23	0	0.00	90	2	0.02			
00400	PH	Fresh Chronic	9.	324	28	0.09	185	24	0.13	28	0	0.00	111	4	0.04			
		Other-Lo Lim.	6.5	324	1	0.00	185	1	0.01	28	0	0.00	111	0	0.00			
00403	PH, LAB	Fresh Chronic	9.	147	11	0.07	67	11	0.16	26	0	0.00	54	0	0.00			
		Other-Lo Lim.	6.5	147	0	0.00	67	0	0.00	26	0	0.00	54	0	0.00			
00406	PH, FIELD	Fresh Chronic	9.	22	0	0.00	9	0	0.00				13	0	0.00			
		Other-Lo Lim.	6.5	22	0	0.00	9	0	0.00				13	0	0.00			
00613	NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	36	0	0.00	17	0	0.00	4	0	0.00	15	0	0.00			
00615	NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	51	0	0.00	27	0	0.00	2	0	0.00	22	0	0.00			
00618	NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	42	0	0.00	20	0	0.00	5	0	0.00	17	0	0.00			
00620	NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	99	0	0.00	49	0	0.00	7	0	0.00	43	0	0.00			
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	58	0	0.00	37	0	0.00	7	0	0.00	14	0	0.00			
00631	NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	93	0	0.00	38	0	0.00	17	0	0.00	38	0	0.00			
00720	CYANIDE, TOTAL	Fresh Acute	0.022	6	0	0.00	3	0	0.00				3	0	0.00			
		Drinking Water	0.2	6	0	0.00	3	0	0.00				3	0	0.00			
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	82	0	0.00	46	0	0.00	6	0	0.00	30	0	0.00			
		Drinking Water	250.	82	0	0.00	46	0	0.00	6	0	0.00	30	0	0.00			
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	117	0	0.00	55	0	0.00	21	0	0.00	41	0	0.00			
		Drinking Water	250.	117	0	0.00	55	0	0.00	21	0	0.00	41	0	0.00			
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	40	4	0.10	20	3	0.15	4	1	0.25	16	0	0.00			
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	250.	158	8	0.05	79	7	0.09	25	0	0.00	54	1	0.02			
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	68	0	0.00	37	0	0.00	11	0	0.00	20	0	0.00			
00953	FLUORINE, TOTAL	Drinking Water	4000.	9	0	0.00	3	0	0.00				6	0	0.00			
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	31	0	0.00	13	0	0.00	9	0	0.00	9	0	0.00			
		Drinking Water	50.	31	0	0.00	13	0	0.00	9	0	0.00	9	0	0.00			
01002	ARSENIC, TOTAL	Fresh Acute	360.	28	0	0.00	12	0	0.00	2	0	0.00	14	0	0.00			
		Drinking Water	50.	28	0	0.00	12	0	0.00	2	0	0.00	14	0	0.00			
01005	BARIUM, DISSOLVED	Drinking Water	2000.	35	0	0.00	18	0	0.00	9	0	0.00	8	0	0.00			
01007	BARIUM, TOTAL	Drinking Water	2000.	40	0	0.00	24	0	0.00	2	0	0.00	14	0	0.00			
01025	CADMIUM, DISSOLVED	Fresh Acute	3.9	30	0	0.00	13	0	0.00	9	0	0.00	8	0	0.00			
		Drinking Water	5.	30	0	0.00	13	0	0.00	9	0	0.00	8	0	0.00			
01027	CADMIUM, TOTAL	Fresh Acute	3.9	37	9	0.24	15	3	0.20	2	0	0.00	20	6	0.30			
		Drinking Water	5.	37	9	0.24	15	3	0.20	2	0	0.00	20	6	0.30			
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	17	0	0.00	7	0	0.00	5	0	0.00	5	0	0.00			
01032	CHROMIUM, HEXAVALENT	Fresh Acute	16.	33	2	0.06	14	1	0.07	4	0	0.00	15	1	0.07			
		Drinking Water	100.	33	0	0.00	14	0	0.00	4	0	0.00	15	0	0.00			
01034	CHROMIUM, TOTAL	Drinking Water	100.	39	0	0.00	15	0	0.00	4	0	0.00	20	0	0.00			
01040	COPPER, DISSOLVED	Fresh Acute	18.	37	1	0.03	20	0	0.00	9	0	0.00	8	1	0.13			
		Drinking Water	1300.	37	0	0.00	20	0	0.00	9	0	0.00	8	0	0.00			
01042	COPPER, TOTAL	Fresh Acute	18.	49	9	0.18	27	3	0.11	2	0	0.00	20	6	0.30			
		Drinking Water	1300.	49	2	0.04	27	0	0.00	2	0	0.00	20	2	0.10			
01049	LEAD, DISSOLVED	Fresh Acute	82.	45	1	0.02	22	0	0.00	12	0	0.00	11	1	0.09			
		Drinking Water	15.	45	9	0.20	22	4	0.18	12	3	0.25	11	2	0.18			
01051	LEAD, TOTAL	Fresh Acute	82.	37	0	0.00	15	0	0.00	2	0	0.00	20	0	0.00			
		Drinking Water	15.	37	5	0.14	15	2	0.13	2	0	0.00	20	3	0.15			
01065	NICKEL, DISSOLVED	Fresh Acute	1400.	9	0	0.00	3	0	0.00	5	0	0.00	1	0	0.00			
		Drinking Water	100.	9	0	0.00	3	0	0.00	5	0	0.00	1	0	0.00			
01067	NICKEL, TOTAL	Fresh Acute	1400.	30	0	0.00	12	0	0.00	2	0	0.00	16	0	0.00			
		Drinking Water	100.	30	1	0.03	12	0	0.00	2	0	0.00	16	1	0.06			
01075	SILVER, DISSOLVED	Fresh Acute	4.1	27	0	0.00	11	0	0.00	9	0	0.00	7	0	0.00			
		Drinking Water	100.	27	0	0.00	11	0	0.00	9	0	0.00	7	0	0.00			
01077	SILVER, TOTAL	Fresh Acute	4.1	37	3	0.08	15	1	0.07	2	0	0.00	20	2	0.10			
		Drinking Water	100.	37	0	0.00	15	0	0.00	2	0	0.00	20	0	0.00			
01090	ZINC, DISSOLVED	Fresh Acute	120.	35	1	0.03	19	1	0.05	9	0	0.00	7	0	0.00			
		Drinking Water	5000.	35	0	0.00	19	0	0.00	9	0	0.00	7	0	0.00			
01092	ZINC, TOTAL	Fresh Acute	120.	49	3	0.06	27	2	0.07	2	0	0.00	20	1	0.05			
		Drinking Water	5000.	49	0	0.00	27	0	0.00	2	0	0.00	20	0	0.00			
01145	SELENIUM, DISSOLVED	Fresh Acute	20.	29	0	0.00	13	0	0.00	9	0	0.00	7	0	0.00			
		Drinking Water	50.	29	0	0.00	13	0	0.00	9	0	0.00	7	0	0.00			

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

EPA Water Quality Criteria Analysis for Entire BRCA Study Area

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	7/10-2/19 Obs	7/10-2/19 Exceed	7/10-2/19 Prop.	2/20-5/09 Obs	2/20-5/09 Exceed	2/20-5/09 Prop.	5/10-7/09 Obs	5/10-7/09 Exceed	5/10-7/09 Prop.	n/a Obs	n/a Exceed	n/a Prop.
01147	SELENIUM, TOTAL	Fresh Acute	20.	28	0	0.00	12	0	0.00	2	0	0.00	14	0	0.00			
		Drinking Water	50.	28	0	0.00	12	0	0.00	2	0	0.00	14	0	0.00			
01220	CHROMIUM, HEXAVALENT, DISSOLVED	Fresh Acute	16.	3	0	0.00				3	0	0.00						
		Drinking Water	100.	3	0	0.00				3	0	0.00						
22703	URANIUM, NATURAL DISSOLVED	Drinking Water	20.	25	2	0.08	20	2	0.10				5	0	0.00			
31501	COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	11	1	0.09	5	0	0.00				6	1	0.17			
31506	COLIFORM, TOTAL, MPN, CONF. TEST, TUBE C	Other-Hi Lim.	1000.	22	2	0.09	10	0	0.00	2	1	0.50	10	1	0.10			
31507	COLIFORM, TOTAL, MPN	Other-Hi Lim.	1000.	34	10	0.29	18	5	0.28				16	5	0.31			
31613	FECAL COLIFORM, MEMBRANE FILTER, AGAR	Other-Hi Lim.	200.	61	2	0.03	34	1	0.03	4	0	0.00	23	1	0.04			
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	Other-Hi Lim.	200.	19	1	0.05	9	1	0.11	2	0	0.00	8	0	0.00			
31615	FECAL COLIFORM, MPN	Other-Hi Lim.	200.	56	0	0.00	35	0	0.00				21	0	0.00			
71850	NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	9	0	0.00	3	0	0.00				6	0	0.00			
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	30	0	0.00	24	0	0.00				6	0	0.00			
71855	NITRITE NITROGEN, TOTAL (AS NO2)	Drinking Water	3.3	9	0	0.00	3	0	0.00				6	0	0.00			
71890	MERCURY, DISSOLVED	Fresh Acute	2.4	23	0	0.00	10	0	0.00	6	0	0.00	7	0	0.00			
		Drinking Water	2.	23	0	0.00	10	0	0.00	6	0	0.00	7	0	0.00			
71900	MERCURY, TOTAL	Fresh Acute	2.4	42	6	0.14	17	2	0.12	4	0	0.00	21	4	0.19			
		Drinking Water	2.	42	6	0.14	17	2	0.12	4	0	0.00	21	4	0.19			
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	2	0	0.00				2	0	0.00						

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

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 BRCA 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 BRCA Study Area Exist for These Groups:

Alkalinity		Total Obs.	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	183	90	73	20	68
00440	BICARBONATE ION (MG/L AS HCO3)	137	84	36	17	29
00445	CARBONATE ION (MG/L AS CO3)	124	84	34	6	22
		444	258	143	43	119 (78)[!]

pH		Total Obs.	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00400	PH (STANDARD UNITS)	324	113	177	34	90
00403	PH, LAB (STANDARD UNITS)	147	94	53	0	39
00406	PH, FIELD (STANDARD UNITS)	22	22	0	0	22
		493	229	230	34	151(115)[!]

Conductivity		Total Obs.	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)	252	135	115	2	40
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	299	116	154	29	78
		551	251	269	31	118 (99)[!]

Dissolved Oxygen		Total Obs.	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00300	OXYGEN, DISSOLVED (MG/L)	231	111	120	0	17
		231	111	120	0	17 (17)[!]

Water Temperature		Total Obs.	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	387	174	190	23	88
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	84	0	56	28	38
		471	174	246	51	126(120)[!]

Flow		Total Obs.	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00059	FLOW RATE, INSTANTANEOUS, GALLONS/MINUTE	28	0	19	9	18
00060	FLOW, STREAM, MEAN DAILY CFS	18	0	0	18	1
00061	FLOW, STREAM, INSTANTANEOUS CFS	172	92	78	2	12
74070	FLOW, GALLONS/SEC	24	0	0	24	24
74073	FLOW, LITERS/MINUTE	33	33	0	0	33
		275	125	97	53	88 (87)[!]

[!]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 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00070	TURBIDITY, (JACKSON CANDLE UNITS)	27	0	24	3	6
00076	TURBIDITY, HACH TURBIDIMETER (FORMAZIN TURB UNIT)	180	88	92	0	18
00077	TRANSPARENCY, SECCHI DISC (INCHES)	4	0	4	0	2
00078	TRANSPARENCY, SECCHI DISC (METERS)	22	18	4	0	2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	132	96	36	0	12
82079	TURBIDITY, LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	2	2	0	0	1
		367	204	160	3	41 (22)[1]

Nitrate/Nitrogen		Total Obs.	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	3	2	0	1	2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	190	114	70	6	17
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	42	27	14	1	8
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	99	26	68	5	19
00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	127	53	68	6	14
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	58	2	50	6	13
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	93	74	19	0	21
71850	NITRATE NITROGEN, TOTAL (MG/L AS NO3)	9	9	0	0	9
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	30	0	0	30	26
71855	NITRITE NITROGEN, TOTAL (MG/L AS NO2)	9	9	0	0	9
		660	316	289	55	138 (76)[1]

Phosphate/Phosphorus		Total Obs.	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	47	0	45	2	6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	179	111	62	6	16
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	65	65	0	0	7
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	84	33	45	6	13
		375	209	152	14	42 (23)[1]

Chlorophyll		Total Obs.	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
32211	CHLOROPHYLL A (UG/L) SPECTROPHOTOMETRIC ACID METH.	25	25	0	0	2
32217	CHLOROPHYLL A (UG/L) FLUOROMETRIC UNCORRECTED	4	0	4	0	2
		29	25	4	0	4 (4)[1]

Sulfates/Total Dissolved Solids/Hardness		Total Obs.	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00900	HARDNESS, TOTAL (MG/L AS CACO3)	161	93	62	6	39
00945	SULFATE, TOTAL (MG/L AS SO4)	40	9	28	3	31
00946	SULFATE, DISSOLVED (MG/L AS SO4)	158	93	34	31	43
70300	RESIDUE, TOTAL FILTRABLE (DRIED AT 180C), (MG/L)	163	98	59	6	26
		522	293	183	46	139 (77)[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.

Bacteria		Total Obs.	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
00111	RATIO OF FECAL COLIFORM TO FECAL STREPTOCOCCI	26	0	26	0	12
31501	COLIFORM, TOT, MEMBRANE FILTER,IMMED.M-ENDOMED,35C	11	4	7	0	6
31506	COLIFORM, TOT, MPN, CONFIRMED TEST, TUBE CONFIG.	22	0	22	0	5
31507	COLIFORM, TOT, MPN, COMPLETED TEST,35C(TUBE 31508)	34	0	34	0	15
31613	FECAL COLIFORM, MEMBR, FILTER,M-FC AGAR,44.5C,24HR	61	4	57	0	8
31614	FECAL COLIFORM, MPN, TUBE CONFIGURATION	19	0	19	0	5
31615	FECAL COLIFORM, MPN, EC MED, 44.5C (TUBE 31614)	56	0	56	0	19
31673	FECAL STREPTOCOCCI, MBR FILT, KF AGAR, 35C, 48HR	34	0	34	0	15
		263	8	255	0	85 (26)[1]

Toxic Elements		Total Obs.	01/01/85 to 06/09/98	01/01/75 to 12/31/84	Before 01/01/75	Total Stations
01000	ARSENIC, DISSOLVED (UG/L AS AS)	31	17	11	3	11
01002	ARSENIC, TOTAL (UG/L AS AS)	28	6	22	0	8
01025	CADMIUM, DISSOLVED (UG/L AS CD)	30	17	10	3	11
01027	CADMIUM, TOTAL (UG/L AS CD)	37	15	22	0	17
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	17	12	5	0	7
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	33	9	22	2	17
01034	CHROMIUM, TOTAL (UG/L AS CR)	39	17	22	0	18
01220	CHROMIUM, HEXAVALENT, DISSOLVED IN (UG/L AS CR)	3	2	0	1	2
01040	COPPER, DISSOLVED (UG/L AS CU)	37	24	10	3	14
01042	COPPER, TOTAL (UG/L AS CU)	49	27	22	0	17
01049	LEAD, DISSOLVED (UG/L AS PB)	45	17	25	3	12
01051	LEAD, TOTAL (UG/L AS PB)	37	15	22	0	17
71890	MERCURY, DISSOLVED (UG/L AS HG)	23	17	4	2	9
71900	MERCURY, TOTAL (UG/L AS HG)	42	14	28	0	16
01065	NICKEL, DISSOLVED (UG/L AS NI)	9	2	6	1	3
01067	NICKEL, TOTAL (UG/L AS NI)	30	9	21	0	16
01145	SELENIUM, DISSOLVED (UG/L AS SE)	29	17	9	3	10
01147	SELENIUM, TOTAL (UG/L AS SE)	28	6	22	0	8
01075	SILVER, DISSOLVED (UG/L AS AG)	27	14	10	3	11
01077	SILVER, TOTAL (UG/L AS AG)	37	15	22	0	17
01090	ZINC, DISSOLVED (UG/L AS ZN)	35	21	11	3	14
01092	ZINC, TOTAL (UG/L AS ZN)	49	27	22	0	17
00720	CYANIDE, TOTAL (MG/L AS CN)	6	0	4	2	3
		701	320	352	29	275 (26)[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	444	258	58.1	78	48.8	5.7	09/29/56-06/09/98	10.6
pH	493	229	46.5	115	71.9	4.3	09/29/56-06/09/98	11.8
Conductivity	551	251	45.6	99	61.9	5.6	05/18/57-06/09/98	13.4
Dissolved Oxygen	231	111	48.1	17	10.6	13.6	05/08/75-06/09/98	10.0
Water Temperature	471	174	36.9	120	75.0	3.9	05/18/57-06/09/98	11.5
Flow	275	125	45.5	87	54.4	3.2	06/20/58-06/09/98	6.9
Clarity/Turbidity	367	204	55.6	22	13.8	16.7	03/09/74-06/09/98	15.1
Nitrate/Nitrogen	660	316	47.9	76	47.5	8.7	09/29/56-06/09/98	15.8
Phosphate/Phosphorus	375	209	55.7	23	14.4	16.3	07/10/74-06/09/98	15.7
Chlorophyll	29	25	86.2	4	2.5	7.3	05/08/75-08/12/97	1.3
Sulfates/Total Dissolved Solids/Hardness	522	293	56.1	77	48.1	6.8	09/29/56-06/09/98	12.5
Bacteria	263	8	3.0	26	16.3	10.1	06/05/75-08/13/91	16.2
Toxic Elements	701	320	45.6	26	16.3	27.0	03/09/74-04/30/98	29.0

Water Quality Observations
Outside STORET Edit Criteria for BRCA

(Disposition: X = Discarded, Blank = Retained)

NPS Station ID	Parameter		Date	Time	Parameter Value	Agency	STORET Station ID	Disposition
BRCA0004	00405	CARBON DIOXIDE (MG/L AS CO2)	770707		197.0000000	112WRD	372432112163301	
BRCA0004	00440	BICARBONATE ION (MG/L AS HCO3)	770707		490.0000000	112WRD	372432112163301	
BRCA0007	00405	CARBON DIOXIDE (MG/L AS CO2)	770707		177.0000000	112WRD	372513112160301	
BRCA0061	00440	BICARBONATE ION (MG/L AS HCO3)	560929		545.0000000	11NPSWRD	BRCA_USGS_SWAM	
BRCA0155	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	980430	1352	5120.0000000	21UTAH	495191	

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) BRCATABS.ZIP

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

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

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

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

(d) BRCAOV0.DOC - Overview of park and retrieved data.

(e) BRCAOV1.DOC - Station period of record table.

(f) BRCAOV2.DOC - Parameter period of record table.

(g) BRCAOV3.DOC - Station/parameter period of record table.

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

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

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

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

(l) BRCABAD.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 BRCAOV1.DOC is in the subdirectory C:\WATER, you could type: PRINT C:\WATER\BRCAOV1.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) BRCAFIGS.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 BRCA0001. 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 BRCA0001) 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) BRCAPARM.ZIP

This file compresses BRCAPARM.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) BRCASITE.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) BRCAWQ.DBF - All water quality monitoring station locations within the project's study area downloaded from STORET.

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

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

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

(e) BRCADAMS.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) BRCAMISC.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) BRCAEXEC.DOC - WordPerfect Ver. 5.1 copy of the Executive Summary in the report.

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

(f) BRCAWQ - 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 (BRCAWQA, BRCAWQB, BRCAWQC, etc.) and the index map name will end with an ampersand (&).

(g) BRCAIDG - 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 (BRCAIDGA, BRCAIDGB, BRCAIDGC, 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) BRCASEHY - 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 BRCAFIGS.ZIP and BRCATABS.ZIP, you can use the PRINTZIP program to print any of the PCL files in BRCAMISC.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) BRCARF3.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) BRCAWQMW.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: BRCAPARM.DBF in BRCAPARM.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: BRCAPARM.DBF in BRCAPARM.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: BRCAPARM.DBF in BRCAPARM.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: BRCAWQ.DBF in BRCASITE.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: BRCAWQ.DBF in BRCASITE.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: BRCAIFD.DBF in BRCASITE.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: BRCAIFD.DBF in BRCASITE.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: BRCAIFD.DBF in BRCASITE.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: BRCADRIN.DBF in BRCASITE.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: BRCADRIN.DBF in BRCASITE.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: BRCADRIN.DBF in BRCASITE.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: BRCAGAGE.DBF in BRCASITE.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: BRCAGAGE.DBF in BRCASITE.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: BRCADAMS.DBF in BRCASITE.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: BRCADAMS.DBF in BRCASITE.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: BRCADAMS.DBF in BRCASITE.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: BRCADAMS.DBF in BRCASITE.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 BRCARF3.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 BRCARF3.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 BRCARF3.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 BRCARF3.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 BRCARF3.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 BRCARF3.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
7440382	82702	360	50	69		ARSENIC, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440393	82703		2			BARIUM, FIELD ACIDIFIED, DECANTED, WATER	MG/L	Metal
7440417	82704	130*	4.0			BERYLLIUM, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440439	82705	3.9+	5.0	43		CADMIUM, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440473	82706		100			CHROMIUM, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440508	82708	18+	1300[a]	2.9		COPPER, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7439921	82711	82+	15[a]	220		LEAD, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7439976	82713	2.4	2.0	2.1		MERCURY, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440020	82715	1400+	100	75		NICKEL, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440224	82716	4.1+	100[s]	0.12		SILVER, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal
7440666	82719	120+	5000[s]	95		ZINC, FIELD ACIDIFIED, DECANTED, WATER	UG/L	Metal

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
82702	ARSENIC, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440382
82704	BERYLLIUM, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440417
82705	CADMIUM, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440439
82706	CHROMIUM, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440473
82708	COPPER, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440508
82711	LEAD, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7439921
82713	MERCURY, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7439976
82715	NICKEL, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440020
82716	SILVER, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440224
82719	ZINC, FIELD ACIDIFIED, DECANTED, WATER (UG/L)	7440666
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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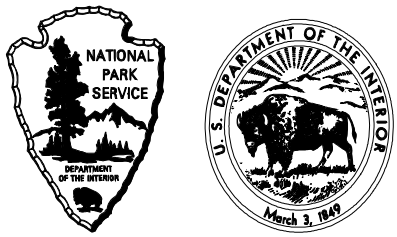
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