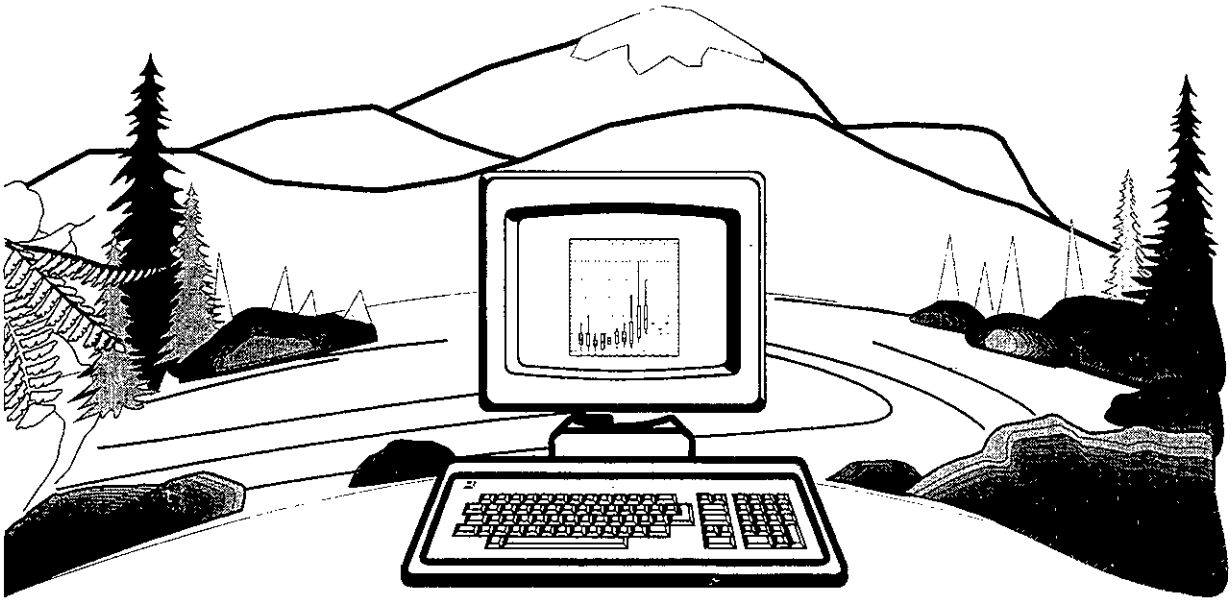
D-8
Vol. 1 of 2

Baseline Water Quality Data

Inventory and Analysis

Missouri National Recreational River

Volume I of II



Water Resources Division and Servicewide Inventory and Monitoring Program

WATER RESOURCES DIVISION

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

PLEASE RETURN TO
TECHNICAL INFORMATION CENTER
DENVER SERVICE CENTER
NATIONAL PARK SERVICE

The National Park Service Water Resources Division is responsible for providing water resources management policy and guidelines, planning, technical assistance, training, and operational support to units of the National Park System. Program areas include water rights, water resources planning, regulatory guidance and review, hydrology, water quality, watershed management, watershed studies, and aquatic ecology.

Technical Reports

The National Park Service disseminates the results of biological, physical, and social research through the Natural Resources Technical Report Series. Natural resources inventories and monitoring activities, scientific literature reviews, bibliographies, and proceedings of technical workshops and conferences are also disseminated through this series.

Mention of trade names or commercial products does not constitute endorsement or recommendation for use by the National Park Service.

Copies of this report are available from the following:

Technical Information Center Denver Service Center P.O. Box 25287 Denver, CO 80225-0287	(303) 969-2130
U. S. Department of Commerce National Technical Information Service 5285 Port Royal Road Springfield, VA 22161	(703) 487-4650

United States Department of the Interior

NATIONAL PARK SERVICE
Water Resources Division
1201 Oak Ridge Drive, Suite 250
Fort Collins, Colorado 80525-5596

IN REPLY REFER TO:

December 10, 1998

L54(2380)
MNRR/General

Memorandum

To: Superintendent, Missouri National Recreational River

From: for Dan Kimball, Chief, Water Resources Division

Subject: Baseline Water Quality Data Inventory and Analysis Report

The attached are two copies of a Baseline Water Quality Data Inventory and Analysis Report for your park, documenting the results of surface-water-quality data retrievals from six Environmental Protection Agency (EPA) databases.

This report, jointly produced by the Servicewide Inventory and Monitoring (I&M) Program and the Water Resources Division (WRD), provides descriptive water quality information in a manner and format useable by park resource managers. Specifically, the document provides: (1) a complete inventory of all retrieved surface-water-quality-parameter data, surface-water-quality-monitoring stations, and the entities who have collected surface-water-quality data in and around your park; (2) descriptive statistics and appropriate graphical plots of the surface-water-quality-parameter data, characterizing period-of-record, annual, and seasonal central tendencies and trends; (3) a comparison of your park's surface-water-quality-parameter data to EPA and WRD water quality screening criteria; and (4) an Inventory Data Evaluation and Analysis to determine what Servicewide I&M Program "Level I" water quality parameters have been measured within your park's study area. Additionally, 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.).

For a brief overview of the report's major findings and a characterization of your park's water quality, please refer to the Executive Summary. In reading the Executive Summary and the report, it is important to keep in mind two facts: (1) the report is only intended to characterize baseline water quality rather than assess the causes of specific water quality problems at the park and (2) the report summarizes only surface-water-quality data collected in or around the park that was subsequently entered into the EPA's national water quality database.

We expect this Baseline Water Quality Data Inventory and Analysis Report to be a valuable reference. By preventing redundant water quality data collection and helping to build cooperative relationships with other entities that have monitored water quality in or around your park, this report should help focus future water quality inventory and monitoring activities in your park. We expect to issue calls for proposals, beginning in FY 1998 and extending through FY 2000, for parks to fill any water quality inventory gaps identified by this report.

Please forward this report to your resource management staff. If your park is involved in Geographic Information Systems (GIS), the report should also be shared with your GIS specialist as several digital GIS coverages are included on disk for easy integration into your park's GIS. As similar reports are being produced for all National Park Service units with significant water resources, you can expect resource management specialists transferring to your park to be familiar with the types of information provided in this document.

Thanks for your assistance in answering our questions and helping us track down water quality data.

If you or your staff have any questions or comments, please don't hesitate to contact either Dean Tucker at (970) 225-3516 or Gary Rosenlieb at (970) 225-3518 of my staff.

Attachments

cc:
Great Plains SO - Superintendent
Great Plains SO - Medland (Water - 1 copy), Cinnamon (I&M - 1 copy), Budde (GIS - 1 copy)
NPS Technical Information Center (DSC/PGT) - Flora (1 copy)
National Technical Information Service (1 copy)
MWR Director - Schenk
DSC - Cooper
2350 - Tonneson
2360 - Smith
2370 - Williams (1 copy)
2380 - Tucker
2420 - Sturniolo
City of Yankton, South Dakota - Jerry Busby (1 copy)

BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

MISSOURI NATIONAL RECREATIONAL RIVER
VOLUME I OF II

National Park Service
Water Resources Division
Fort Collins, CO 80525

Technical Report NPS/NRWRD/NRTR-98/162

OCTOBER 1998

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

EXECUTIVE SUMMARY

This document presents the results of surface-water-quality data retrievals for Missouri National Recreational River (MNRR) 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 32 industrial/municipal dischargers; seven drinking water intakes; 21 active or inactive U. S. Geological Survey (USGS) or U.S. Army Corps of Engineers (COE) water gages (including stream and lake); and ten water impoundments. The results of the STORET retrieval for the study area yielded 207,941 observations for 773 separate parameters collected by the NPS[†], USGS, EPA, COE, Nebraska Department of Environmental Control, Nebraska Game and Park Commission, South Dakota Department of Water and Natural Resources, and South Dakota Department of Environment and Natural Resources at 109 monitoring stations from 1948 through 1997. Approximately 52 percent of the 207,941 observations collected within the study area were reported by the COE from 1965 through 1997. Of the 109 monitoring stations, thirty-three stations were located within the park boundaries (see Station Period of Record Tabulation). Nineteen stations within the study area (11 within the park boundaries) were established but contained no data. Twenty stations within the study area (four within the park boundaries) were established but contained no data appropriate for statistical analysis.

Many of the monitoring stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Thirty-two stations within the study area (12 within the park boundaries) yielded longer-term records consisting of multiple observations for several important water quality parameters (see Station Period of Record Tabulation). The stations yielding the longest-term records within the park boundaries are: (1) Lake Francis Case Releases (MNRR 0103); (2) Missouri River at Yankton, SD (MNRR 0029); (3) Lake Francis Case near Dam (MNRR 0109); (4) Missouri River at Yankton, SD (MNRR 0026); (5) Monitor at Fort Randall Power House (MNRR 0108); (6) Niobrara River near Verdel, NE (MNRR 0086); and (7) Missouri River at Fort Randall Dam (MNRR 0107). The stations yielding the longest-term records within the study area, but outside of the park boundaries, are: (1) Vermillion River near Vermillion, SD (MNRR 0012); (2) Lewis and Clark Lake Releases (MNRR 0040); (3) Niobrara River at Niobrara (MNRR 0072); (4) Lewis and Clark Lake near Dam (MNRR 0048); (5) Lake Yankton Deep (MNRR 0025); (6) Lake Yankton Shallow (MNRR 0042); and (7) Lewis and Clark Lake near Springfield, SD (MNRR 0055)[††].

[†]Data entered in STORET by the NPS for MNRR include raw water measurements from the Yankton, South Dakota Water Department and the Lewis and Clark Natural Resource District.

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

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 MNRR water quality criteria screen found 21 groups of parameters that exceeded screening criteria at least once within the study area. Dissolved oxygen, pH, chlorine, antimony, cadmium, copper, lead, mercury, selenium, zinc, and heptachlor epoxide exceeded their respective EPA criteria for the protection of freshwater aquatic life. Fluoride, sulfate, nitrate, nitrite, nitrite plus nitrate, antimony, cadmium, lead, mercury, thallium, carbon chloroform, and heptachlor epoxide exceeded their respective EPA drinking water criteria. Fecal-indicator bacteria concentrations (total coliform and fecal coliform) and turbidity exceeded the WRD screening limits for freshwater bathing and aquatic life, respectively.

Dissolved oxygen concentrations were measured 25,888 times at 55 monitoring stations from 1957 through 1997. Of the 16,492 observations used in the criteria analysis (see Composite Type Screen and Media Type Screen in the Methodology for explanation), 202 observations at 11 stations were less than or equal to the 4 milligrams per liter (mg/L) EPA criterion for the protection of freshwater aquatic life from 1971 through 1997. Approximately 58 percent of the observations exceeding the criterion were reported during depth sampling from three stations within the park in Lake Francis Case (MNRR 0103, MNRR 0108, MNRR 0109) from 1975 through 1997.

The pH was measured 12,678 times at 49 monitoring stations from 1956 through 1997. One-hundred-sixty-four observations at 20 stations were outside the pH range of 6.5 to 9.0 standard units (SU) (EPA chronic criteria for freshwater aquatic life) from 1972 through 1997. One-hundred-twenty-one observations were greater than or equal to pH 9.0 and 43 observations were less than or equal to pH 6.5. The highest pH of 12.3 SU was reported within the park in the Missouri River at Fort Randall Dam, SD (MNRR 0107) in January 1981. The lowest pH of 4.0 SU was also reported within the park in the Niobrara River at the Pishelville Bridge near Verdel, NE (MNRR 0082), in May 1972.

Turbidity was measured 5,571 times at 24 monitoring stations from 1957 through 1997. Three-hundred-forty-three observations at 20 stations equaled or exceeded the WRD screening criterion of 50 Jackson Candle/Formazin/Nephelometric Turbidity Units (JTU/FTU/NTU) from 1958 through 1996. One-hundred-thirty-one of the observations exceeding the criterion, ranging from 50 FTU to 5,000 FTU, were reported from eight stations within the park (MNRR 0027, MNRR 0029, MNRR 0073, MNRR 0082, MNRR 0086, MNRR 0103, MNRR 0107, MNRR 0109) from 1958 through 1996. Approximately 56 percent of the total observations exceeding the criterion were reported from three stations in the Niobrara River (MNRR 0072, MNRR 0085, MNRR 0086) from 1961 through 1994. The highest reported value was 9,020 JTU in Ponca Creek at Verdel, NE (MNRR 0079) in May 1970.

Total coliform concentrations were measured 528 times at four monitoring stations (MNRR 0026, MNRR 0029, MNRR 0047, MNRR 0072) from 1958 through 1974. Of the 526 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), 48 observations at two stations, in the Missouri River at Yankton, SD (MNRR 0029) and the Niobrara River at Niobrara, NE (MNRR 0072), equaled or exceeded the WRD bathing water screening criterion of 1,000 Colony Forming Units/Most Probable Number per 100 milliliters (CFU/MPN/100 ml) from 1958 through 1973. Thirty-eight of these 48 observations were reported within the park in the Missouri River at Yankton, SD (MNRR 0029) from 1958 through 1973. The highest reported value was 176,000 CFU/100 ml in the Niobrara River at Niobrara (MNRR 0072) in August 1968. Fecal coliform concentrations were determined 1,216 times at 30 monitoring stations from 1968 through 1997. Of the 1,201 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), 335 observations at 17 stations equaled or exceeded the WRD bathing water screening criterion of 200 CFU/MPN/100 ml from 1968 through 1997. The highest reported value was 103,000 CFU/100 ml in Ponca Creek at Verdel, NE (MNRR 0079) in June 1974.

Total residual chlorine concentrations were measured three times at two monitoring stations (MNRR 0032, MNRR 0051) from 1980 through 1990. Of the two observations used in the criteria analysis (see EPA Water Quality

Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), one observation of 0.16 mg/L, at the Yankton Sewage Treatment Plant outfall in Yankton, SD (MNRR 0032), exceeded the acute freshwater criterion of 0.019 mg/L in June 1980.

Fluoride concentrations (including dissolved and total) were measured 369 times at 19 monitoring stations from 1956 through 1994. One total observation of 9.0 mg/L, at the Gavins Point Dam Powerhouse outflow at Lewis and Clark Lake (MNRR 0040), exceeded the drinking water criterion of 4 mg/L in April 1977.

Total sulfate concentrations were measured 1,414 times at 36 monitoring stations from 1956 through 1997. Of the 1,413 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), 278 observations at 24 stations equaled or exceeded the secondary drinking water criterion of 250 mg/L from 1957 through 1997. Sixty-one of these 278 observations were reported from seven stations within the park (MNRR 0026, MNRR 0029, MNRR 0099, MNRR 0103, MNRR 0105, MNRR 0107, MNRR 0109) from 1957 through 1997, including the highest value of 1,800 mg/L in the Missouri River (MNRR 0099) in September 1969.

Nitrate concentrations (including dissolved and total as N and as NO_3) were measured 1,066 times at 15 monitoring stations from 1956 through 1997. Of the 1,064 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), one dissolved nitrate as N concentration of 11 mg/L, at the Gavins Point Dam Powerhouse outflow at Lewis and Clark Lake (MNRR 0040), exceeded the drinking water criterion of 10 mg/L for nitrate as N in December 1979.

Nitrite concentrations (including dissolved and total as N, and dissolved as NO_2) were measured 492 times at 15 monitoring stations from 1969 through 1997. One dissolved nitrite as N concentration of 1.4 mg/L, in the Vermillion River near Vermillion, SD (MNRR 0012), exceeded the drinking water criterion of 1.0 mg/L for nitrite as N in December 1977.

Nitrite plus nitrate concentrations (including dissolved and total) were measured 1,169 times at 33 monitoring stations from 1964 through 1997. One total observation of 11.4 mg/L, in the Niobrara River at Niobrara, NE (MNRR 0072), exceeded the drinking water criterion of 10 mg/L in September 1971.

Antimony concentrations (including dissolved and total) were measured 159 times at ten monitoring stations from 1979 through 1997. Fourteen total observations at six stations, in Lewis and Clark Lake (MNRR 0040, MNRR 0048, MNRR 0055), Lake Yankton (MNRR 0025, MNRR 0042), and Lake Francis Case (MNRR 0109), exceeded the drinking water criterion of 6 micrograms per liter (μg/L) from 1982 through 1988. The highest of these 14 observations, 100 μg/L, reported near the Gavins Point Dam at Lewis and Clark Lake (MNRR 0048), also exceeded the acute freshwater criterion of 88 μg/L in August 1983.

Cadmium concentrations (including dissolved, suspended, total, and total recoverable) were measured 616 times at 21 monitoring stations from 1962 through 1997. Of the 558 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 33 observations at six stations, in Lewis and Clark Lake (MNRR 0040, MNRR 0048), Lake Francis Case (MNRR 0109), the Niobrara River (MNRR 0085, MNRR 0086), and the Missouri River (MNRR 0107), exceeded the acute freshwater criterion of 3.9 μg/L from 1976 through 1991. Twenty-nine of these 33 concentrations also exceeded the drinking water criterion of 5.0 μg/L from 1976 through 1991. Sixteen of the 33 observations exceeding the acute freshwater criterion were reported from three stations within the park (MNRR 0086, MNRR 0107, MNRR 0109) from 1976 through 1991. The highest value of 124 μg/L was reported in the Niobrara River at Verdel, NE (MNRR 0085) in March 1990.

Copper concentrations (including dissolved, suspended, and total) were measured 632 times at 22 monitoring stations from 1962 through 1997. Thirty-four observations at eight stations, in the Niobrara River (MNRR 0085, MNRR 0086), the Missouri River (MNRR 0029, MNRR 0107), Lake Francis Case (MNRR 0109), Lewis and Clark Lake (MNRR 0040), Lake Yankton (MNRR 0042), and Bazile Creek (MNRR 0063), exceeded the acute freshwater criterion of 18 μg/L from 1963 through 1992. Twenty-nine of the 34 observations exceeding the criterion were

reported from four stations within the park (MNRR 0029, MNRR 0086, MNRR 0107, MNRR 0109). The highest reported value was 170 μg/L in Bazile Creek near Niobrara, NE (MNRR 0063) in April 1985.

Lead concentrations (including dissolved, suspended, and total) were measured 593 times at 20 monitoring stations from 1962 through 1997. Of the 584 observations used in the criteria analysis (see Remark Code Screen in the Methodology and EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), 88 observations at 15 stations equaled or exceeded the drinking water criterion of 15 μg/L from 1968 through 1996. Seven of these 88 observations also exceeded the acute freshwater criterion of 82 μg/L from 1968 through 1984. Approximately 42 percent of the observations exceeding the criteria were reported from six stations within the park (MNRR 0028, MNRR 0029, MNRR 0086, MNRR 0103, MNRR 0107, MNRR 0109) from 1968 through 1996, including the highest value of 305 μg/L in Lake Francis Case near the dam (MNRR 0109) in June 1984.

Mercury concentrations (including dissolved, suspended, and total) were measured 598 times at 19 monitoring stations from 1973 through 1997. Of the 597 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in the Interpretive Guide To Water Quality Results for explanation), five observations at three stations, in the Niobrara River near Verdel, NE (MNRR 0086), Gavins Point Dam Powerhouse outfall at Lewis and Clark Lake (MNRR 0040), and Lake Francis Case releases (MNRR 00103), equaled or exceeded the drinking water criterion of 2.0 μg/L from 1974 through 1987. Three of these five concentrations also exceeded the acute freshwater criterion of 2.4 μg/L. The highest reported value was 3.2 μg/L in the Niobrara River near Verdel, NE (MNRR 0086) in May 1987.

Selenium concentrations (including dissolved, suspended, and total) were measured 525 times at 21 monitoring stations from 1963 through 1997. Two dissolved observations, 31 μg/L in Cottonwood Lake (MNRR 0033) and 20 μg/L in Ponca Creek at Verdel, NE (MNRR 0080), exceeded or equaled the acute freshwater criterion of 20 μg/L in July 1989 and October 1970, respectively.

Thallium concentrations (including dissolved and total) were measured three times at three stations (MNRR 0028, MNRR 0032, MNRR 0051) from 1972 through 1995. One dissolved observation of 18 μg/L, reported within the park in the Missouri River at Yankton, SD (MNRR 0028), exceeded the drinking water criterion of 2.0 μg/L in April 1972.

Zinc concentrations (including dissolved, suspended, and total) were measured 643 times at 26 monitoring stations from 1962 through 1997. Of the 641 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), 14 observations at eight stations, in Lake Francis Case (MNRR 0103, MNRR 0109), the Niobrara River (MNRR 0072, MNRR 0085, MNRR 0086), Verdigre Creek (MNRR 0066, MNRR 0071), and Bazile Creek (MNRR 0063), exceeded the acute freshwater criterion of 120 μg/L from 1968 through 1991. Nine of the 14 observations exceeding the criterion were reported from three stations within the park (MNRR 0086, MNRR 0103, MNRR 0109) from 1979 through 1991, including the highest value of 752 μg/L in Lake Francis Case near the dam (MNRR 0109) in June 1991.

Carbon chloroform concentrations were measured 404 times within the park in the Missouri River at Yankton, SD (MNRR 0029) from 1957 through 1970. One-hundred-thirty-eight observations exceeded the drinking water criterion of 100 μg/L from 1957 through 1970. The highest reported value was 509 μg/L in December 1969.

Heptachlor epoxide concentrations (a degradational by-product of heptachlor) were measured 223 times at 11 monitoring stations from 1964 through 1997. Of the 222 observations used in the criteria analysis (see Remark Code Screen in the Methodology for explanation), two observations of 0.83 μg/L at two stations, in Lewis and Clark Lake near Springfield, SD (MNRR 0056) and within the park at the confluence of the Niobrara River with the Missouri River (MNRR 0068), exceeded the drinking water criterion of 0.2 μg/L and the acute freshwater criterion of 0.52 μg/L in March 1992.

The IDEA conducted for MNRR indicates that STORET data exist for all 13 Level I parameter groups in the study

area. For the groups Flow and Bacteria, less than 25 percent of the observations were recorded since 1985. Data for eight groups (Alkalinity, Clarity/Turbidity, Nitrate/Nitrogen, Phosphate/Phosphorus, Chlorophyll, Sulfates/Total Dissolved Solids/Hardness, Bacteria, and Toxic Elements) were recorded at less than half of the 90 monitoring stations with data. Relative to other parameter groups, data were limited for Flow, Phosphate/Phosphorus, Chlorophyll, and Bacteria. Results for 42 of the 126 EPA priority toxic pollutants (consisting of inorganic parameters, organic parameters, metals, pesticides, and PCB's) were retrieved from STORET.

Surface water resources in the MNRR study area include the Missouri, James, Vermillion, and Niobrara Rivers; Bazile, Ponca, Verdigre, and numerous other perennial and intermittent creeks; Cottonwood, Burbank, and other lakes; and Lake Francis Case, Lewis and Clark Lake, and many smaller reservoirs. Based on the data inventories and analyses contained in this report, surface water quality within the study area appears to have been impacted by human activities. Potential anthropogenic sources of contaminants include municipal wastewater discharges; agricultural activities; stormwater runoff; quarrying operations; recreational use; and atmospheric deposition.

TABLE OF CONTENTS

EXECUTIVE SUMMARY v

TABLE OF CONTENTS xi

I. INTRODUCTION 1
- Goal 1
- Purpose 1
- Objectives 1
- Document Overview 2
- Caveats 2
- Key Personnel 3

II. METHODOLOGY 5
- Delineation of Park Study Area 5
- Data Sources 5
- Data Retrieval and Analysis Procedures 7
- Park Unit Databases 8
- Screening Methodologies and Procedures 9
  - STORET Edit Criteria 9
  - Date Screen 10
  - Station Type Screen 10
  - Phase 0 Parameter Screen 11
  - Phase 1 Parameter Screen 11
  - Media Type Screen 11
  - Remark Code Screen 11
  - Composite Type Screen 13
  - Phase 2 Parameter Screen 14
  - Observations/Period of Record Screen 15
- Statistical Definitions 17

III. INTERPRETIVE GUIDE TO WATER QUALITY RESULTS 19
- Overview 19
- Regional Location Map 19
- Water Quality Monitoring Locations Map(s) 19
- Discharges, Drinking Intakes, Gages, and Impoundments Map(s) 20
- Industrial Facilities Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Table 20
- Representative Mean Annual Hydrograph for Seasonal Analysis 20
- Contacts for Agency Codes Retrieved 21
- Quantity of Data Retrieved by Agency Code 21
- Station Period of Record Tabulation 21
- Parameter Period of Record Tabulation 22
- Station/Parameter Period of Record Tabulation 22
- Station-By-Station Results 22
  - Station Inventory for Station 23
  - Parameter Inventory for Station 23
  - EPA Water Quality Criteria Analysis for Station 23
  - Time Series Plots for Station 24

Annual Analysis for Station 25
Annual Box-and-Whiskers Plots for Station 25
Seasonal Analysis for Station 25
Seasonal Box-and-Whiskers Plots for Station 26
EPA Water Quality Criteria Analysis for Entire Park Study Area 26
NPS Servicewide Inventory and Monitoring Program
"Level I" Water Quality Inventory Data Evaluation and Analysis (IDEA) 26
Water Quality Observations Outside STORET Edit Criteria for Park 28

IV. WATER QUALITY RESULTS 29
Overview 31
Regional Location Map 32
Water Quality Monitoring Locations Map(s) 33
Dischargers, Drinking Intakes, Gages, and Impoundments Map(s) 41
Industrial Facilities Discharges, Drinking Water Intakes, Water Gages,
and Water Impoundments Table 49
Representative Mean Annual Hydrograph for Seasonal Analysis 52
Contacts for Agency Codes Retrieved 53
Quantity of Data Retrieved by Agency Code 54
Station Period of Record Tabulation 55
Parameter Period of Record Tabulation 57
Station/Parameter Period of Record Tabulation 68
Station-By-Station Results 123

MNRR0001	Missouri River Near Ponca, Ne	125
MNRR0002	Missouri R Near Ponca Ne	127
MNRR0003	Aowa Creek	128
MNRR0004	Aowa Creek	129
MNRR0005	Aowa Creek	130
MNRR0006	Aowa Creek East Of Ponca, Nebraska.	131
MNRR0007	Aowa Creek At Ponca	132
MNRR0008	Aowa Creek	134
MNRR0009	Plum Creek Near Wisner, Nb	135
MNRR0010	Turkey Creek	136
MNRR0011	Missouri R Near Maskell Ne	137
MNRR0012	Vermillion R Near Vermillion	138
MNRR0013	Vermillion R At Vermillion, S.D.	176
MNRR0014	Ames Creek	177
MNRR0015	Bow Creek Nr St. James, Nebr.	178
MNRR0016	Bow Creek	179
MNRR0017	Bow Creek Near Wynot (N)	180
MNRR0018	Bow Creek North Of Wynot, Nebraska.	182
MNRR0019	Un Trib Of Missouri River	183
MNRR0020	Missouri R Near Gayville Sd	184
MNRR0021	Trib To Second Bow Creek	185
MNRR0022	93N55W 3Abbb	186
MNRR0023	Sand Creek Near Stanton, Nb	188
MNRR0024	Spring Creek Near Norfolk, Nb	189
MNRR0025	Lake Yankton Deep	190
MNRR0026	Missouri R At Yankton Sd	203
MNRR0027	Yankton Raw Water Intake At Meridian Bridge	217
MNRR0028	Missouri R. @ Yankton, S. Dak.	225
MNRR0029	Missouri River At Yankton	227

MNRR0030	Beaver Creek Near Menominee (Nw)	255
MNRR0031	Beaver Creek	257
MNRR0032	Yankton Stp Yankton So Dak	258
MNRR0033	Cottonwood Lake	260
MNRR0034	Cottonwood Lake	263
MNRR0035	Yankton-S Yankton Co	264
MNRR0036	Yankton-S Yankton Co	265
MNRR0037	Monitor At Gavins Point Powerhouse	266
MNRR0038	Missouri R. At Gavins Point Dam	273
MNRR0039	Lewis And Clark Lake Near Yankton Sd	275
MNRR0040	Lewis And Clark Lake Releases	276
MNRR0041	Missouri River Near Yankton	319
MNRR0042	Lake Yankton Shallow	320
MNRR0043	Lewis And Clark Lake At The Gavins Point Dam.	333
MNRR0044	Lewis And Clark Lake	335
MNRR0045	Gavins Point Powerhouse Monitor	336
MNRR0046	Yankton Lake T93N R56W Section 17	337
MNRR0047	Mo R @ Dam Above Yankton, Sd	339
MNRR0048	Lewis And Clark Lake Nr Dam	341
MNRR0049	Wiegand Creek	358
MNRR0050	Devils Nest Creek	359
MNRR0051	Rural Water Intake Structure	360
MNRR0052	Cooks Creek	363
MNRR0053	Snatch Creek Near Tabor, Sd	364
MNRR0054	Hopkins Creek Near Oakdale, Nb	365
MNRR0055	Lewis And Clark Lake Nr Springfield	366
MNRR0056	Lewis And Clark Lake Nr Springfield	377
MNRR0057	Lost Creek	380
MNRR0058	Lost Cr Nr Niobrara, Ne	381
MNRR0059	Bazile Creek	383
MNRR0060	Bazile Creek At Niobrara	384
MNRR0061	Bazile Creek East Of Niobrara, Nebraska.	387
MNRR0062	Bazile Creek	388
MNRR0063	Bazile Creek Near Niobrara, Ne	389
MNRR0064	Howe Creek	392
MNRR0065	Un Trib To Verdigre Creek	393
MNRR0066	Verdigre Creek At Verdigre S	394
MNRR0067	Niobrara River At Niobrara, Nebraska.	396
MNRR0068	Confluence Of Niobrara River Missouri R	399
MNRR0069	Verdigre Creek	402
MNRR0070	Verdigre Creek	403
MNRR0071	Verdigre Creek At Verdigre	404
MNRR0072	Niobrara River At Niobrara	408
MNRR0073	Verdigre Creek	427
MNRR0074	Verdigre C Nr Verdigre, Ne	430
MNRR0075	Niobrara River At Niobrara	431
MNRR0076	Schindler Creek	432
MNRR0077	Choteau Cr Nr Avon Sd	433
MNRR0078	93N62W23Bdd Choteau Creek	438
MNRR0079	Ponca Creek At Verdel	439
MNRR0080	Ponca Creek At Verdel, Nebr.	449
MNRR0081	Learwater Cr Near Clearwater, Nb	453

MNRR0082 Pishelville Bridge Near Verdel 454
MNRR0083 Niobrara River South Of Verdel, Nebraska. 461
MNRR0084 Niobrara River 465
MNRR0085 Niobrara River At Verdel 466
MNRR0086 Niobrara River Nr. Verdel, Nebr. 471
MNRR0087 Steele Creek 504
MNRR0088 Steele Creek W Of Pischelville 505
MNRR0089 Missouri River 507
MNRR0090 Song Hawk Lake T94N R63W Section 20 508
MNRR0091 Missouri River 510
MNRR0092 Missouri River 511
MNRR0093 Niobrara River 512
MNRR0094 Missouri River 513
MNRR0095 Missouri River Nne Of Lynch, Nebraska. 514
MNRR0096 Micanek Farm Pond Near Lynch, Nebr. 516
MNRR0097 Farm Pond 517
MNRR0098 Missouri River 518
MNRR0099 94N64W28Bbad Missouri River 519
MNRR0100 Missouri River 520
MNRR0101 Missouri River 521
MNRR0102 95N65W 9Cdb Missouri River 522
MNRR0103 Lake Francis Case Releases 523
MNRR0104 96N65W29Bacc Svatos 553
MNRR0105 Missouri R. At Fort Randall Dam 554
MNRR0106 Fort Randall Powerhouse Monitor 558
MNRR0107 Missouri River At Fort Randall Dam Sd 559
MNRR0108 Monitor At Ft Randall Power House 568
MNRR0109 Lake Francis Case Nr Dam 577
EPA Water Quality Criteria Analysis for Entire Study Area 596
NPS Servicewide Inventory and Monitoring Program
"Level I" Water Quality Inventory Data Evaluation and Analysis (IDEA) 599
Water Quality Observations Outside STORET Edit Criteria for Park 606

V. APPENDICES 607
A. Computer Files Transmitted With Park Baseline Water Quality
Data Inventory and Analysis A-1
B. Water Quality Database File Structures B-1
Parameter Data File B-1
Water Quality Station Data File B-4
Industrial Facilities Discharges File B-6
Drinking Water Intakes File B-10
Water Gage File B-13
Water Impoundment File B-15
RF3 Structure File B-19
RF3 Trace File B-23
Catalog Unit Boundary File B-24
Encyclopedia File B-25
C. STORET Water Quality Control/Edit Checking C-1
D. STORET Administrative Parameters D-1
E. STORET Parameters Not Suitable for Statistical Analysis E-1
F. National EPA Water Quality Criteria Summary F-1
G. Inventory Data Evaluation and Analysis (IDEA) Servicewide Inventory

and Monitoring Program "Level I" Parameter Groups G-1
H. Literature Cited H-1
I. Selected General Water Quality References I-1

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

[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.

national EPA water quality criteria for appropriate designated uses[2] and with the Servicewide Inventory and Monitoring Program's "Level I" water quality inventory parameters have been made. Extreme caution must be exercised in interpreting the results of these comparisons. Observations that exceed water quality criteria may have occurred due to any number of natural or anthropogenic factors, as well as other reasons. For example, STORET is a "user-beware" water quality database system. While there is some rudimentary edit (bounds) checking of any data entered in STORET (See Appendix C), users are basically free to enter their own data. Beyond data entry errors, the possibility of inaccurate data entering the system due to inappropriate measurement techniques, sample mistreatment, and other reasons is a serious concern. Consequently, if observations for a particular parameter frequently exceed the EPA water quality criterion over a prolonged time period, the best approach is to examine in detail the data exceeding the criterion. Questions which should be asked regarding the data include: What water source(s) are manifesting the problem? Does the data make sense? Was it collected by a reputable organization following a sound study plan and employing accepted techniques? If the answers to these questions still cause concern, a specific cause and effect water quality investigation focusing on the parameters of concern may be warranted. Similarly, the absence of particular Servicewide Inventory and Monitoring Program "Level I" water quality parameters from the park only means that no entity or organization has collected and entered this data into the EPA's STORET database. Too frequently, data that are collected in and around NPS units never make it into the EPA's national water quality database. These data may exist in published or unpublished reports, file cabinets, or other databases. Before definitively concluding that no baseline data exist for a particular parameter, these alternative resting grounds for data should be investigated. Such a detailed exploration, however, was beyond the scope of this study.

Key Personnel

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

National Park Service, Water Resources Division:

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

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

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

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

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

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

Elizabeth Eisenhauer, Robert Flynn, Dawn Grandbois, Bill Folsom, Dana Griffin, Jonathan Duran, and Aymn Elhaddad provided digital cartographic support, both in determining retrieval/query areas and producing maps and graphics.

---

[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.

Kelli O'Connor, Mary Beth Talty, Curtis Cooper, Paul McElvery, J. Chris Echohawk, Kristie Maczko, Adam Henson, Shawndra Mawhorter, Lisa Smith, Eric Janney, Ryan Shy, Lisa Dummer, Eric Lord, Adriane Petersen, and Margaret Matter 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**
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)
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.

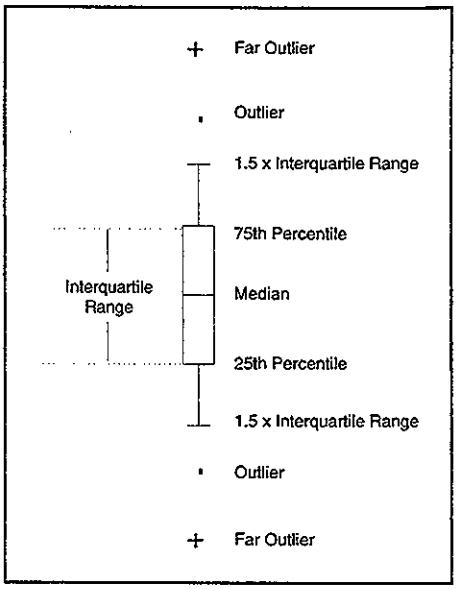
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

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 $\mu eq/l\ H^+$; and (3) $\mu eq/l\ H^+$. 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 $\mu eq/l\ H^+$ (Kunkle and Wilson 1984). Once the descriptive statistics are computed using the pH values expressed as $\mu eq/l\ H^+$, 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 labelling 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, $\mu eq/l\ H^+$ 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 labelled 1 through the number of seasons defined for the park through hydrograph separation. The actual calendar dates that correspond to these numerically labelled seasons exist in the Overview section and the Seasonal Analysis tables in the Water Quality Results chapter. The axis labelling 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 MNRR

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:	735568	102560
# STORET Stations:	109	33
# Stations With No Data:	19	11
# Stations With No Stat. Analysis:	20	4
# Longer Term Stations:	32	12
Date of STORET Retrieval:	02/10/98	02/10/98
Period of Record:	12/07/48-10/22/97	12/07/48-09/30/97
# Parameters Measured:	773	665
# Water Quality Observations:	207941	132446
# Industrial/Municipal Facilities:	32	2
# Drinking Water Intakes:	7	2
# Water Gages:	21	10
# Water Impoundments:	10	1
# Total Plots:	88	32
# Time Series:	23	5
# Annual:	28	12
# Seasonal:	37	15

Hydrologic Definition of Seasons:

1. November 20 - January 14
2. January 15 - March 14
3. March 15 - July 14
4. July 15 - November 19

Time Series Plot Criteria:

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

Annual Analysis Criteria:

To be included in the annual box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of at least 15 years.

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

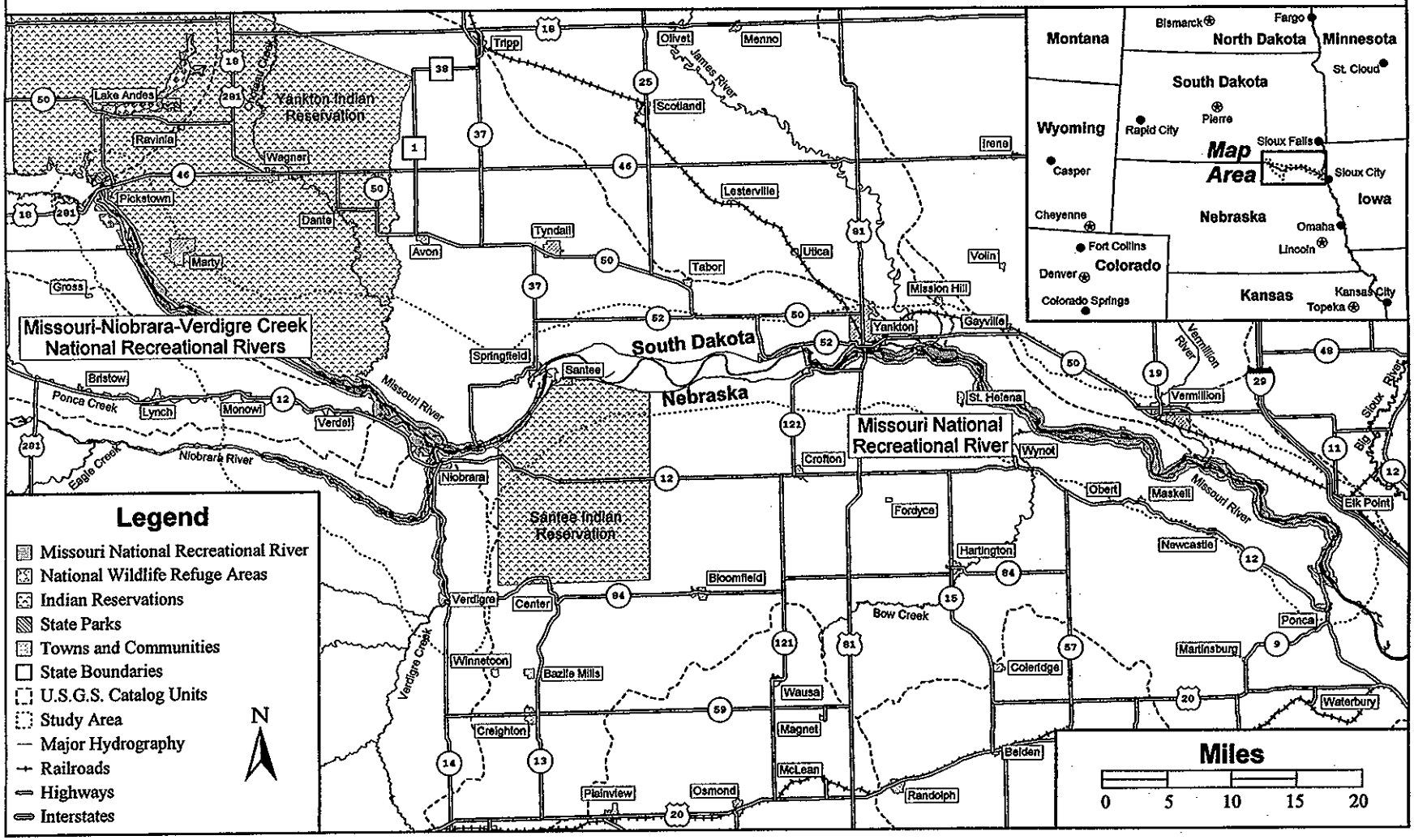
Seasonal Analysis Criteria:

To be included in the seasonal box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of 2 seasons and a period of record of at least 25 years and observations in at least 4 of the 25 years.

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

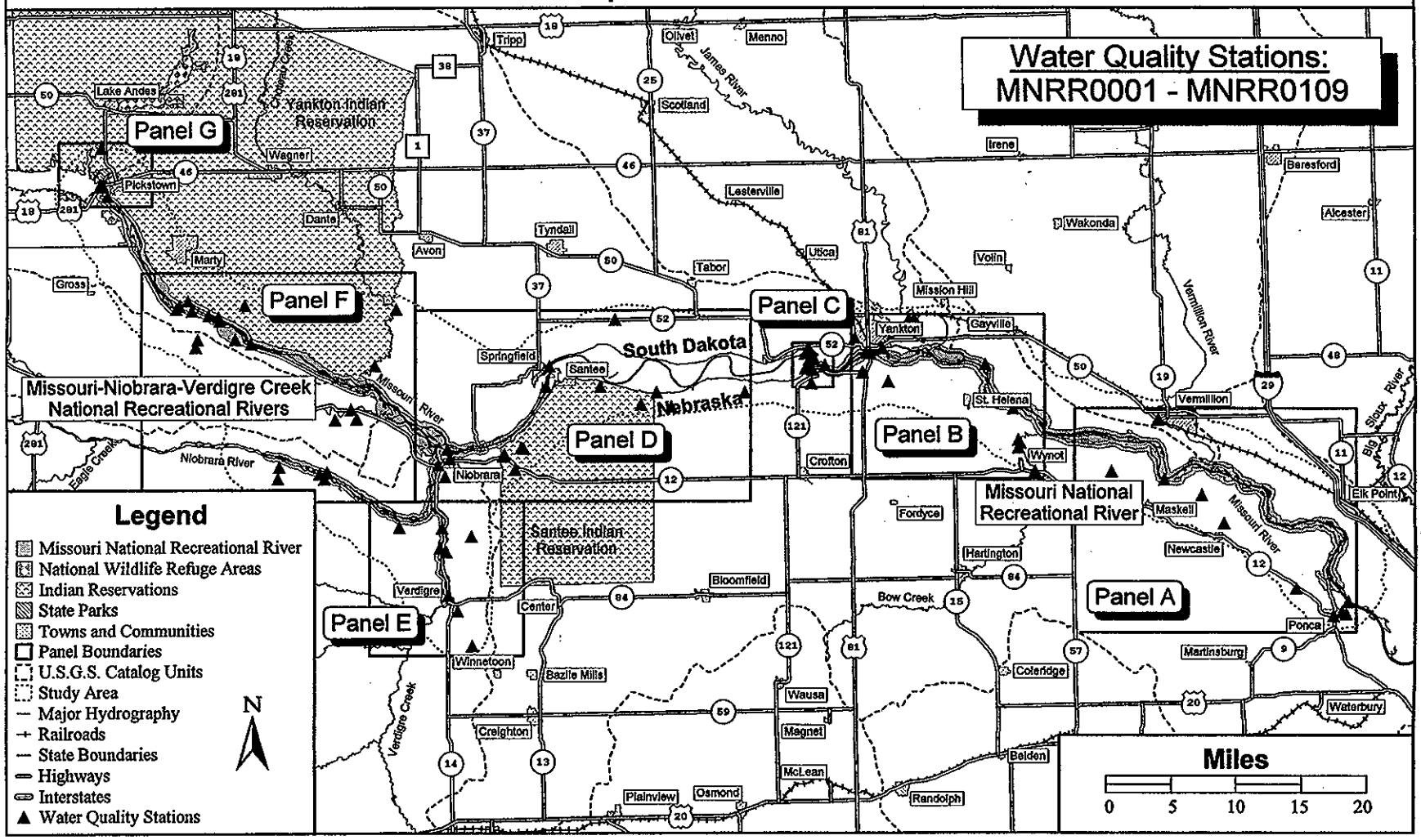
Missouri National Recreational River

Regional Location Map



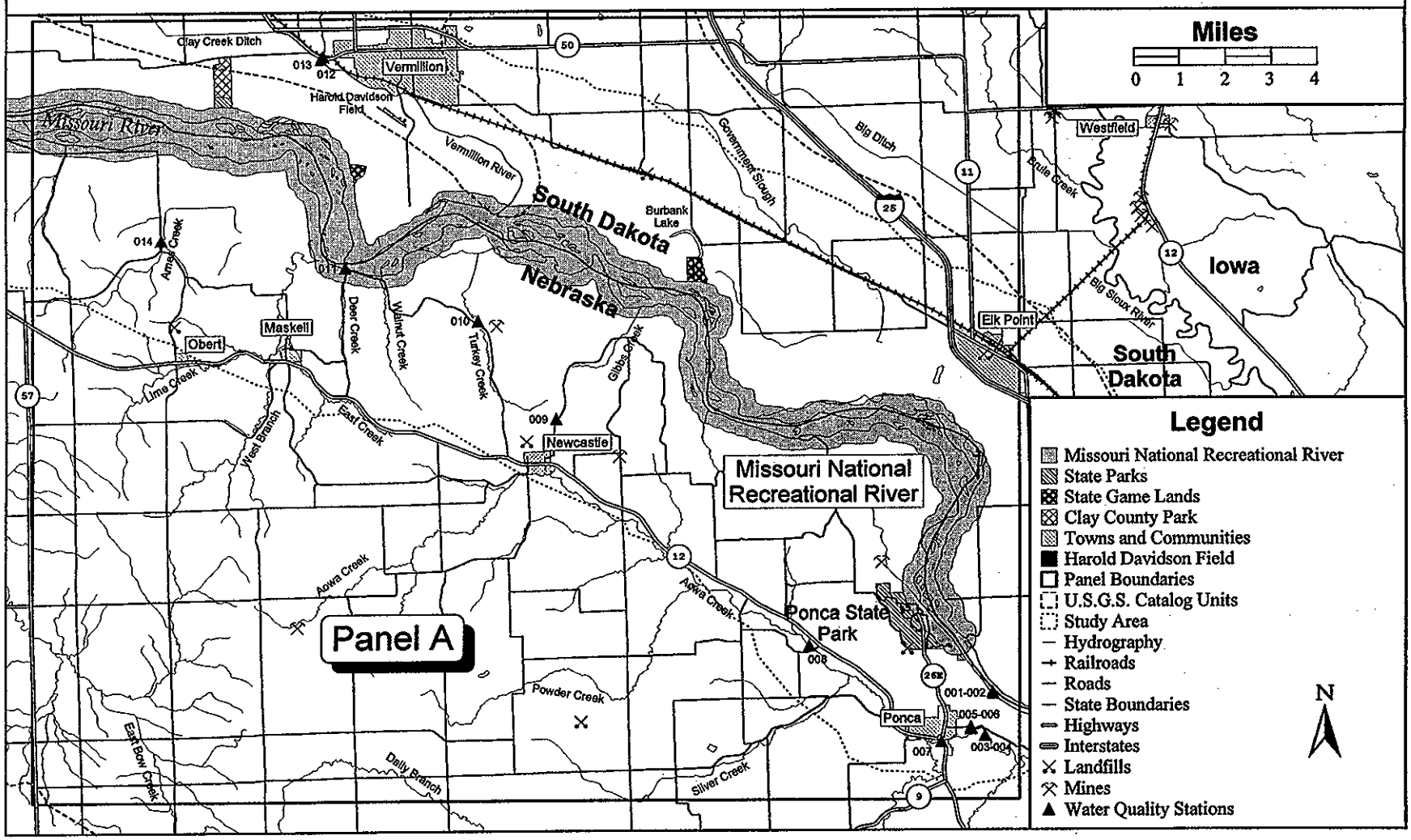
Missouri National Recreational River

Water Quality Monitoring Locations
Graphic Panel Index



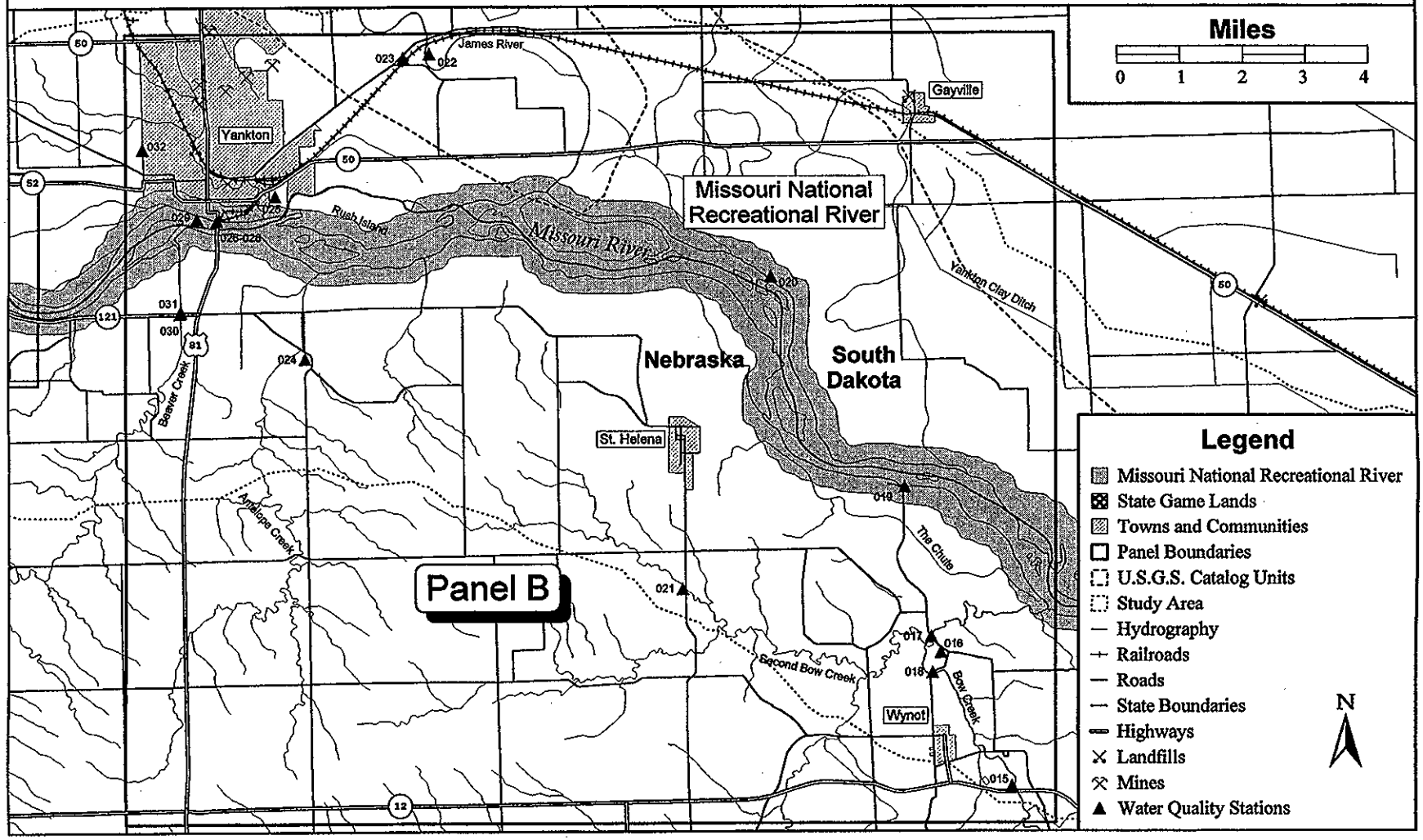
Missouri National Recreational River

Water Quality Monitoring Locations



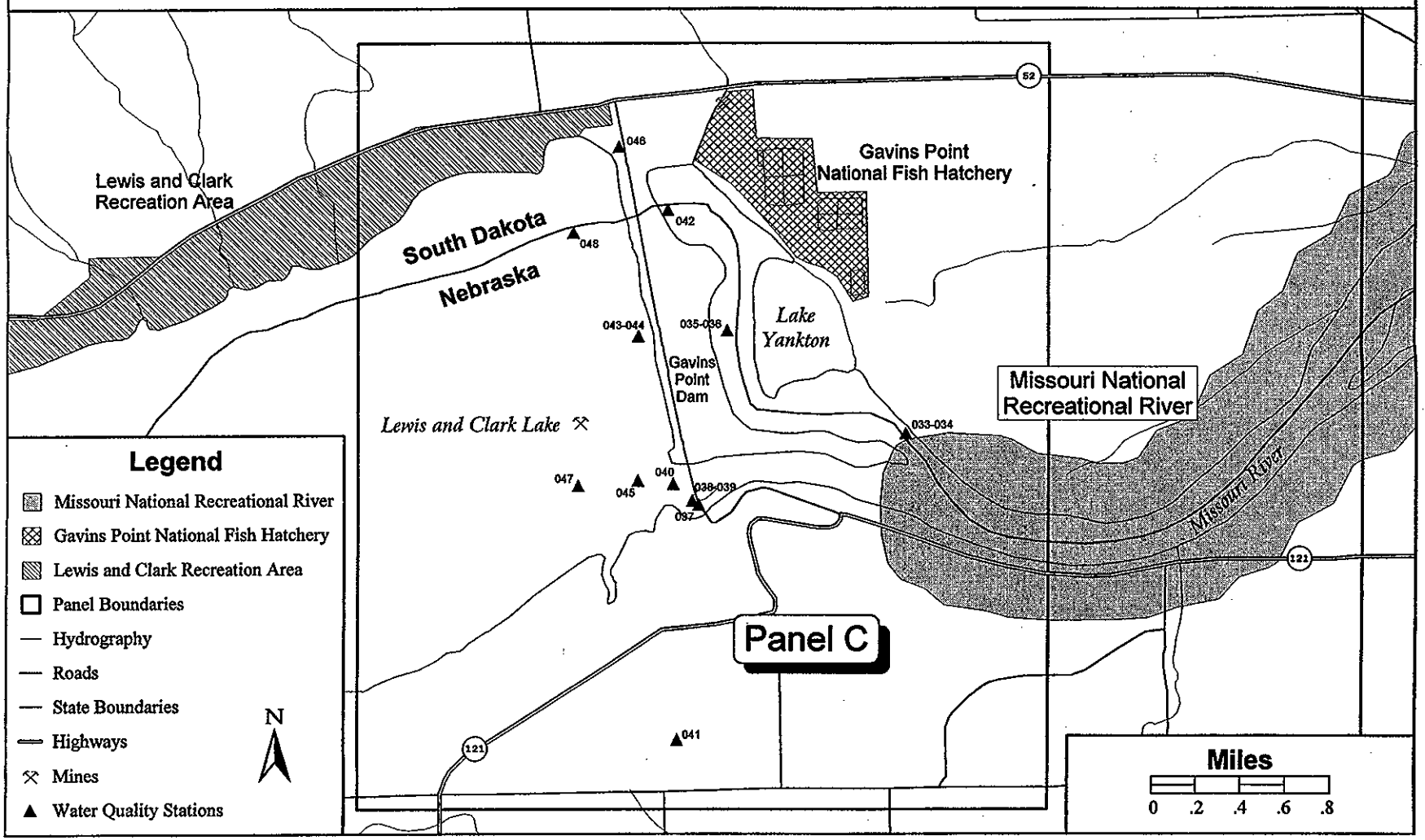
Missouri National Recreational River

Water Quality Monitoring Locations



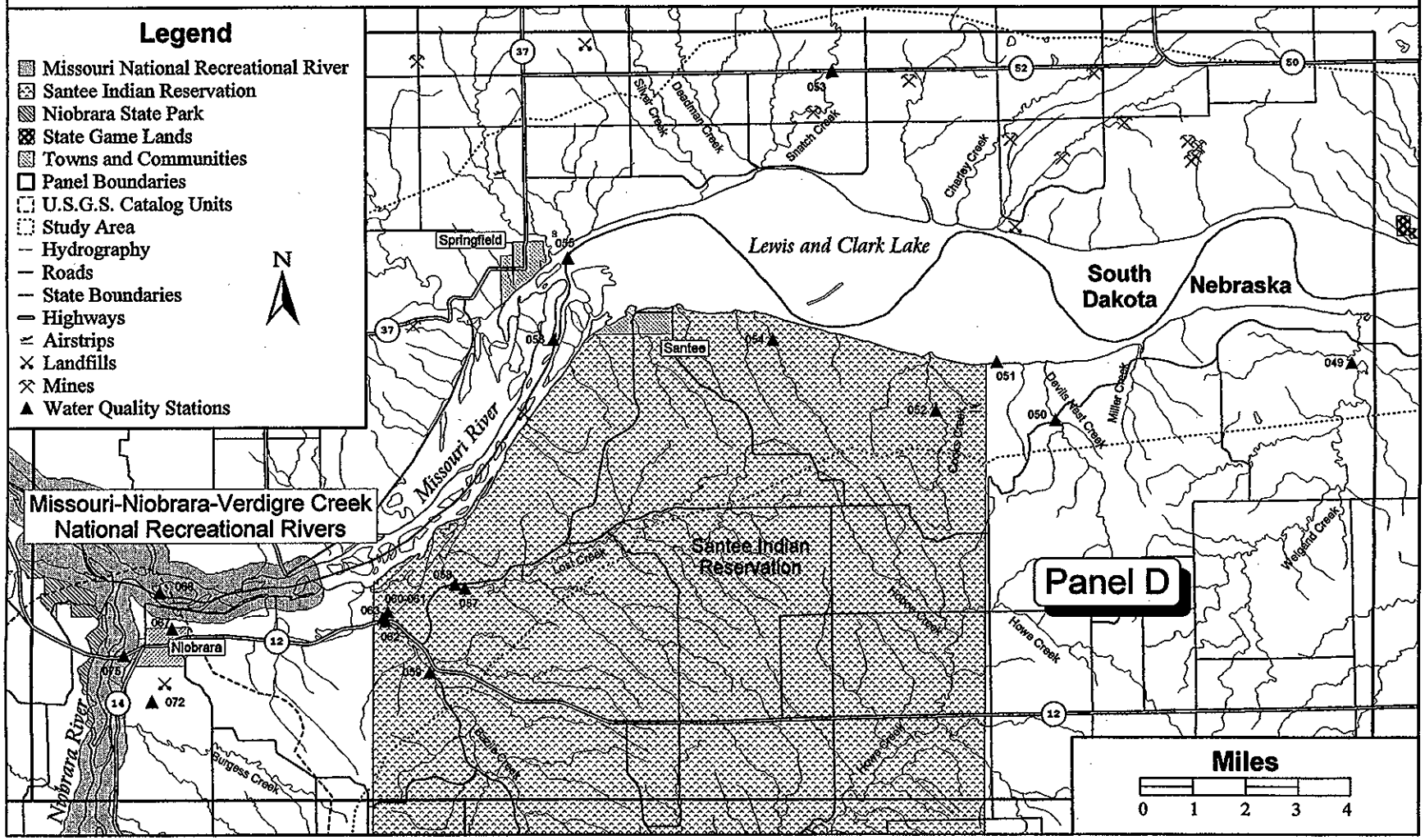
Missouri National Recreational River

Water Quality Monitoring Locations



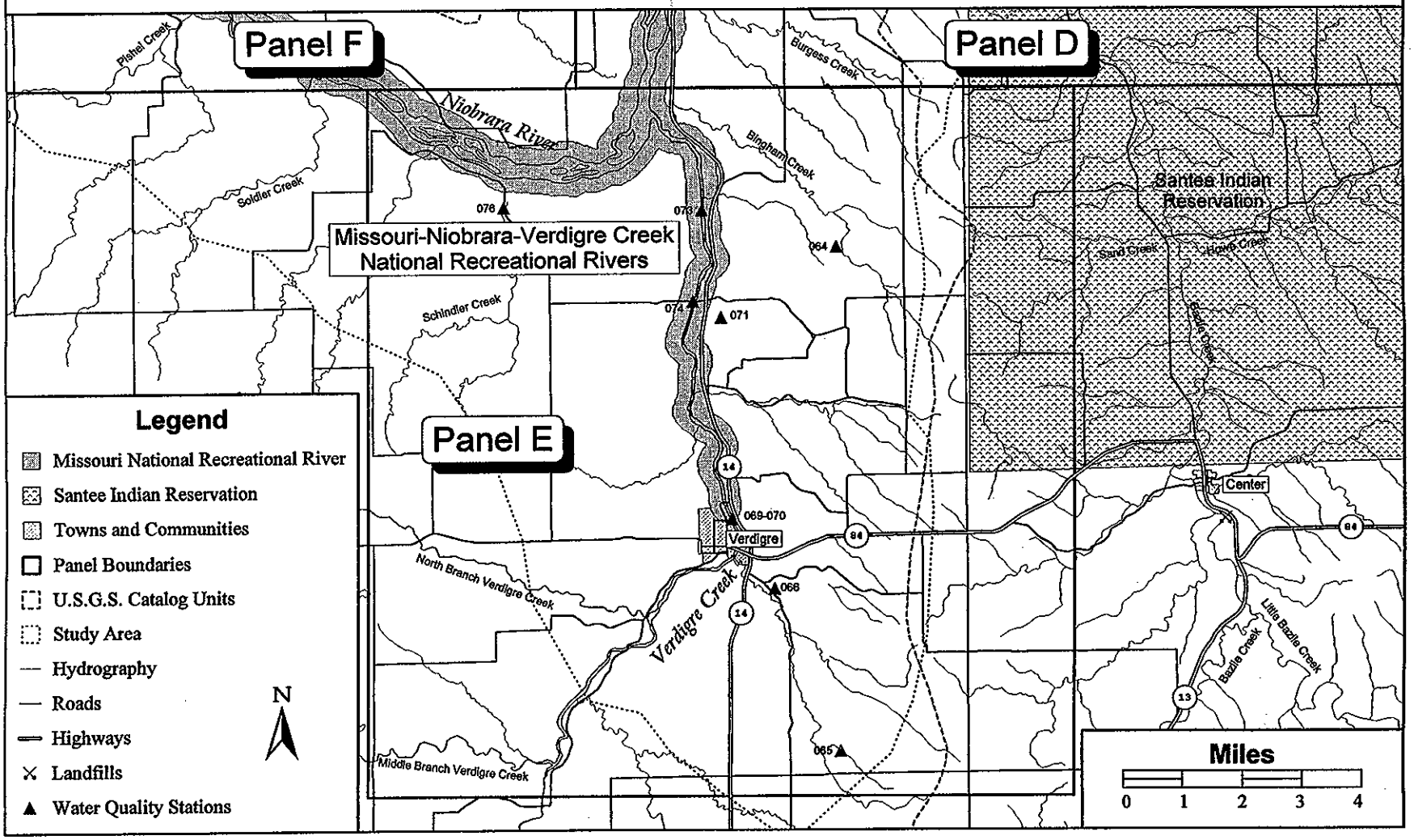
Missouri National Recreational River

Water Quality Monitoring Locations



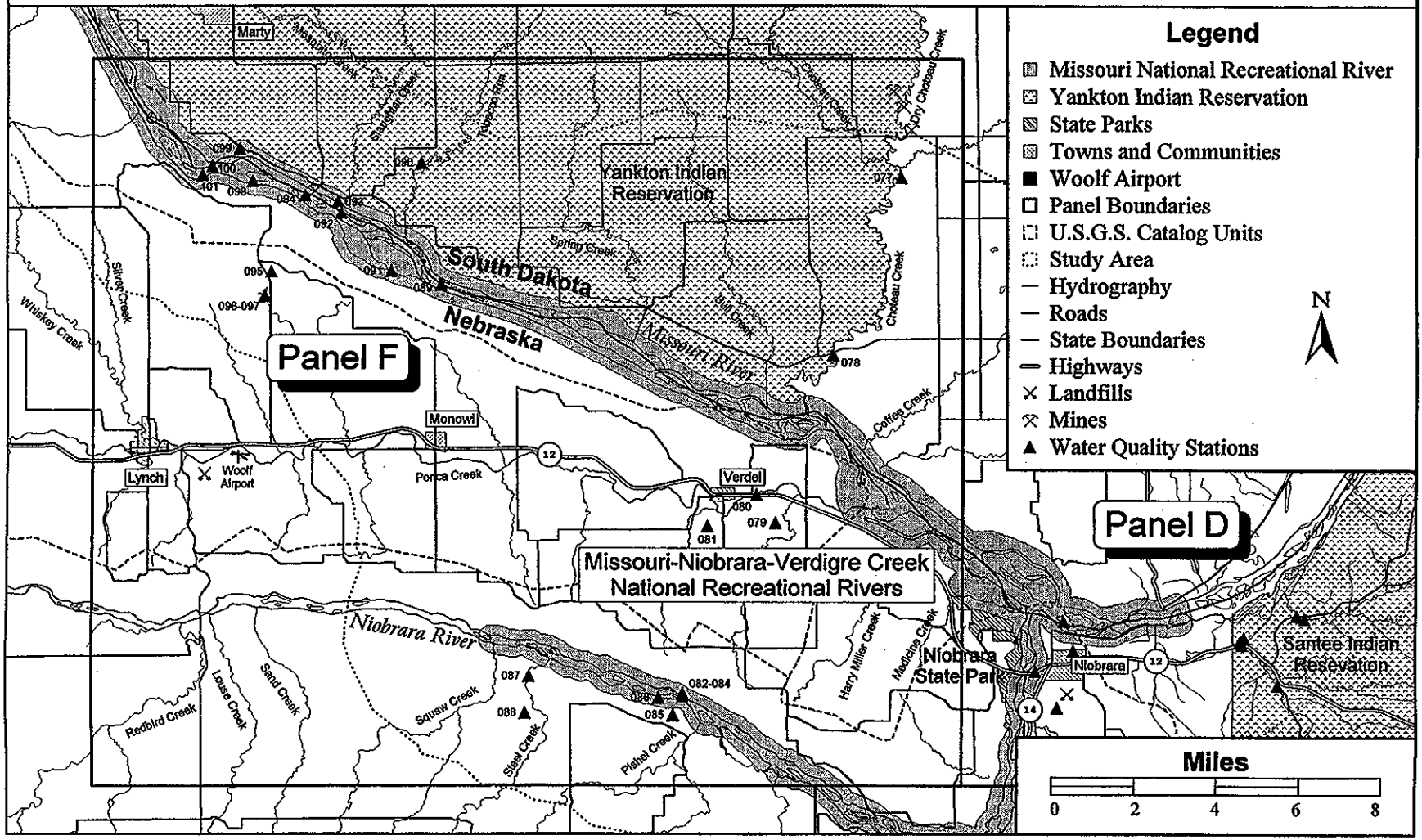
Missouri National Recreational River

Water Quality Monitoring Locations



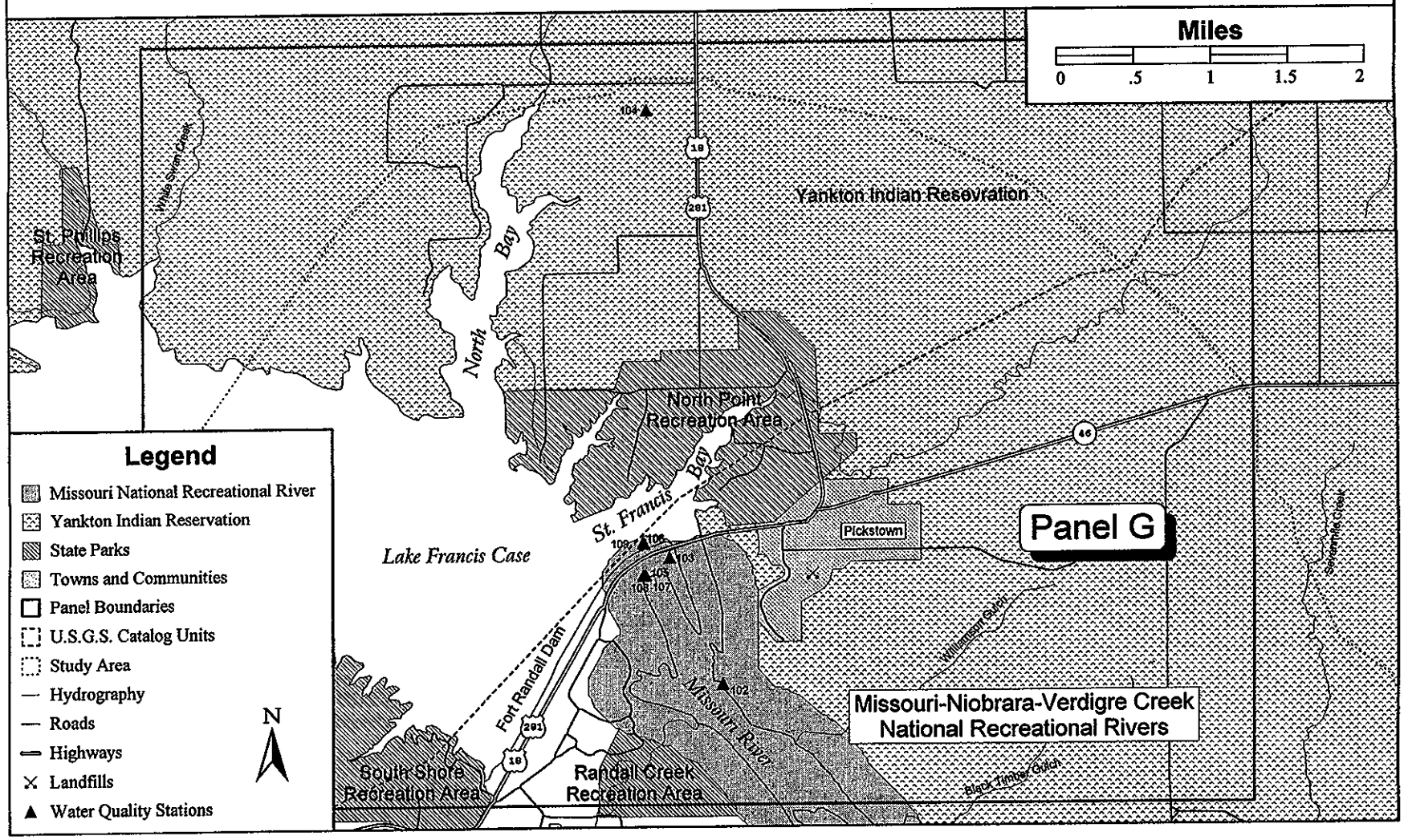
Missouri National Recreational River

Water Quality Monitoring Locations



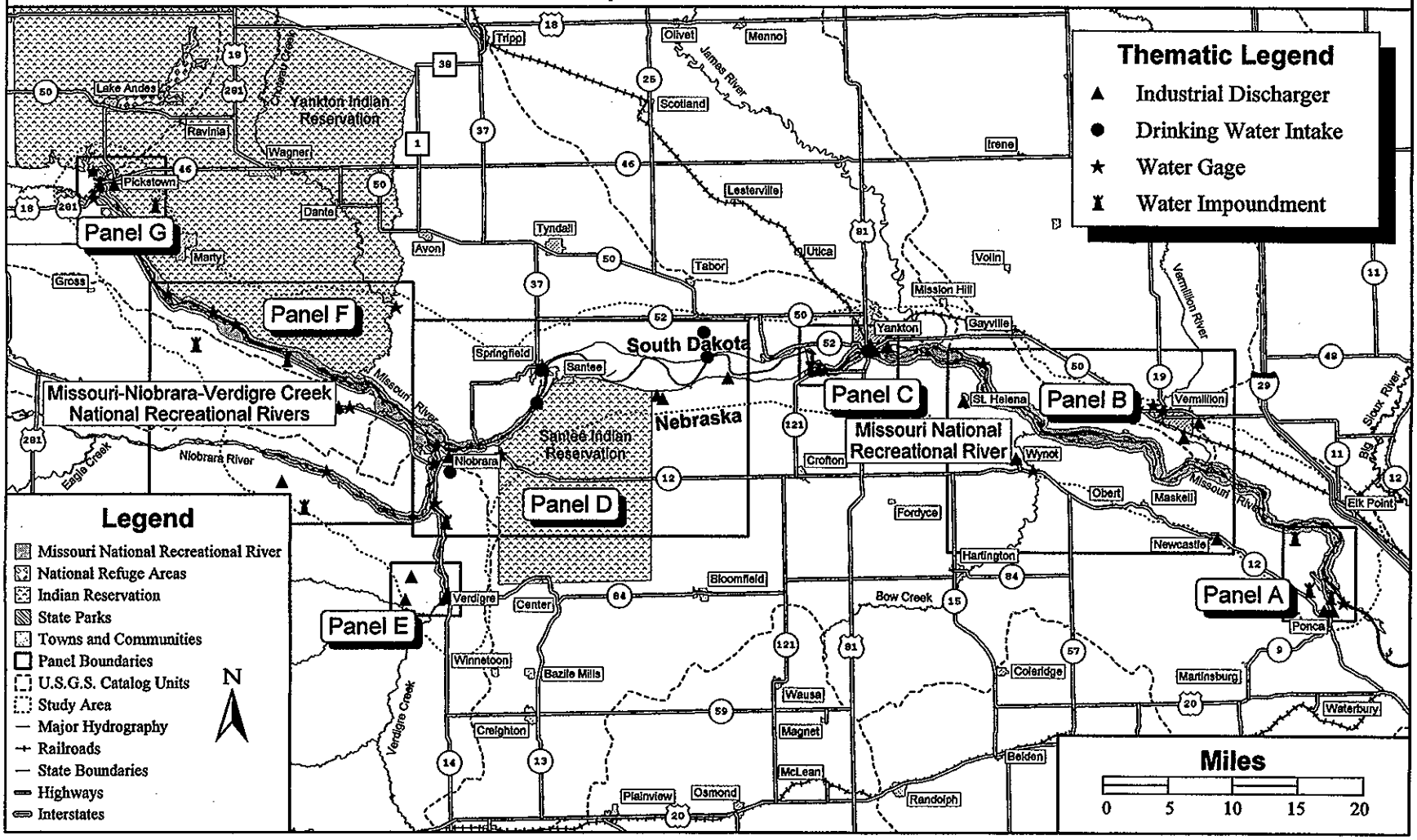
Missouri National Recreational River

Water Quality Monitoring Locations



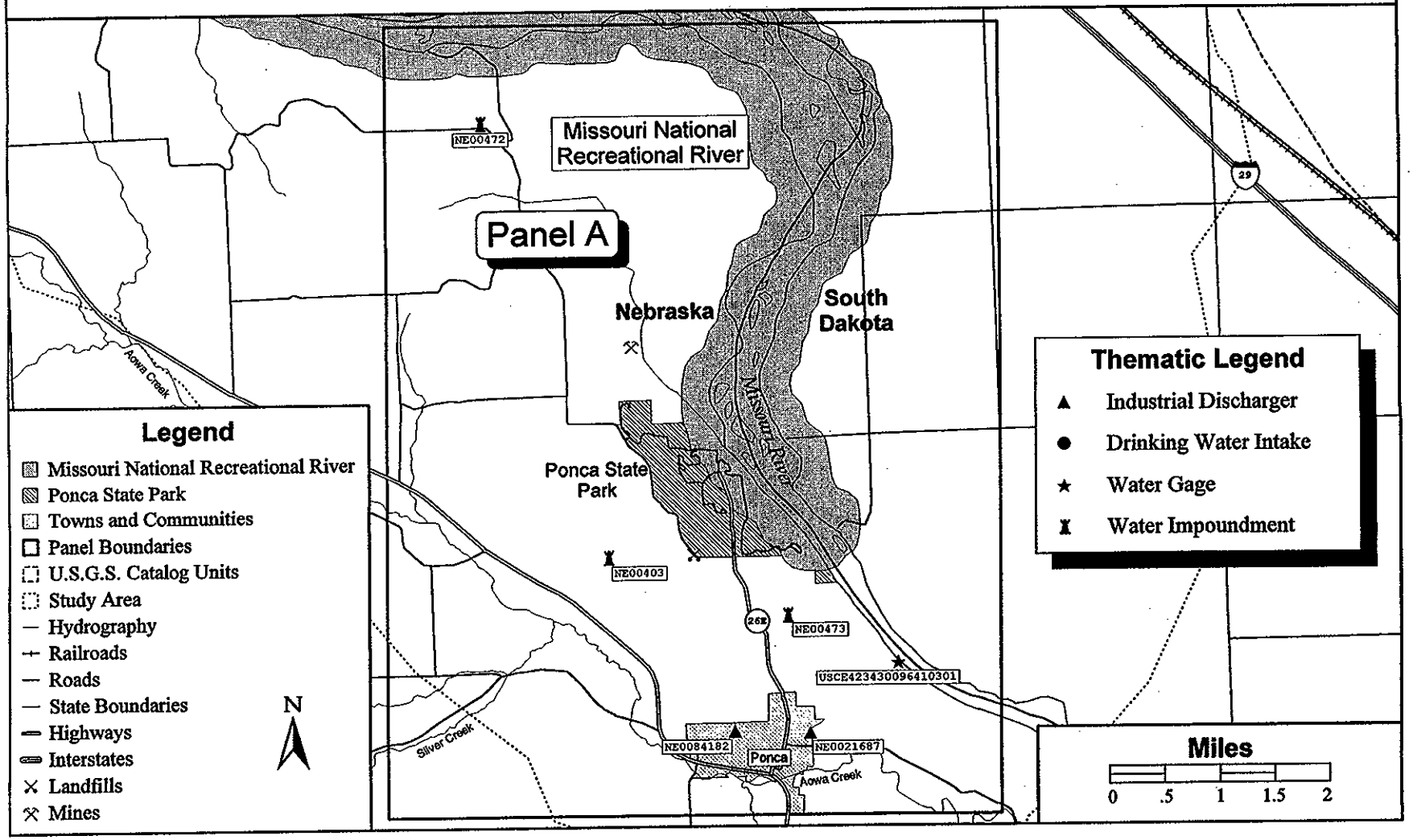
Missouri National Recreational River

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments
Graphic Panel Index



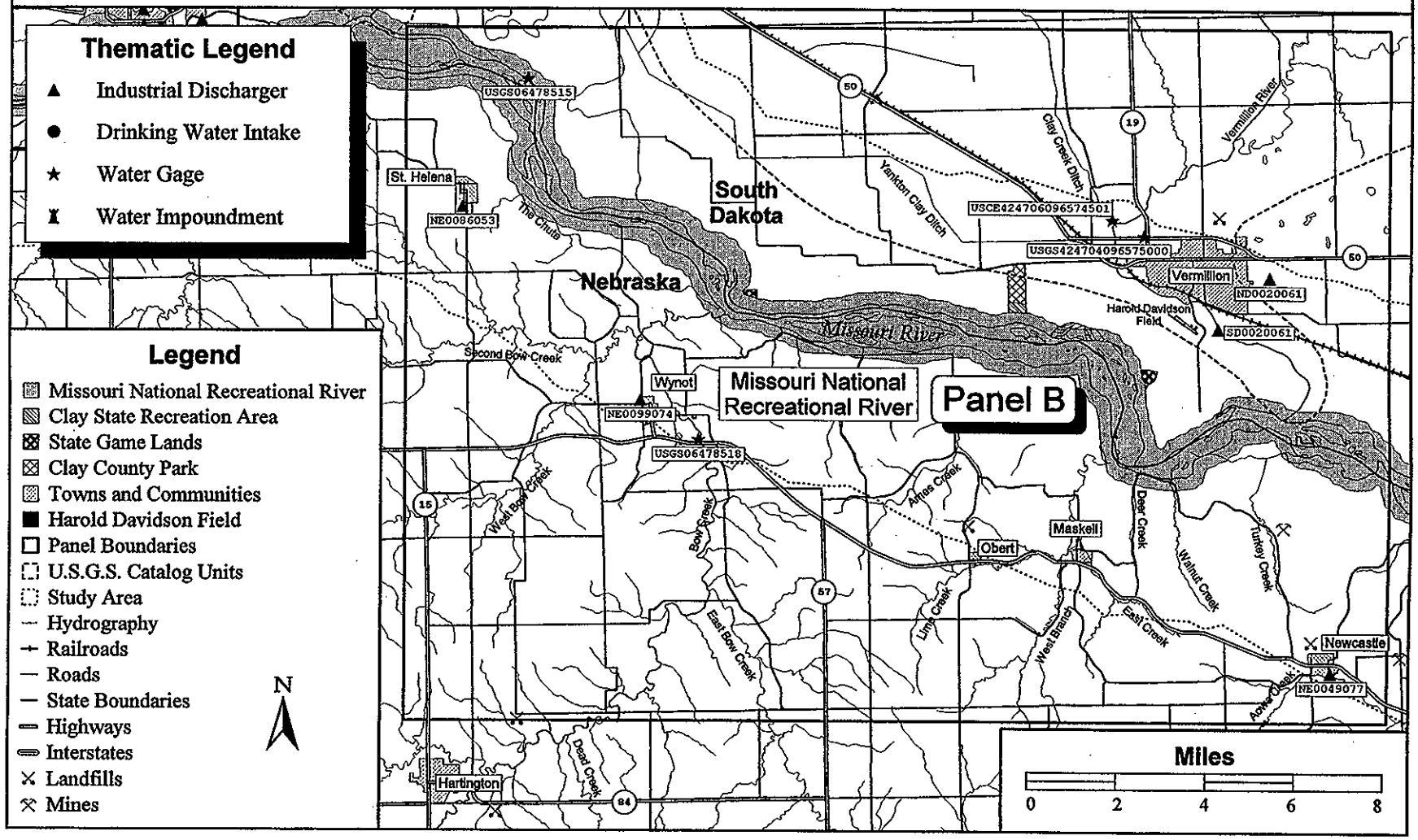
Missouri National Recreational River

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



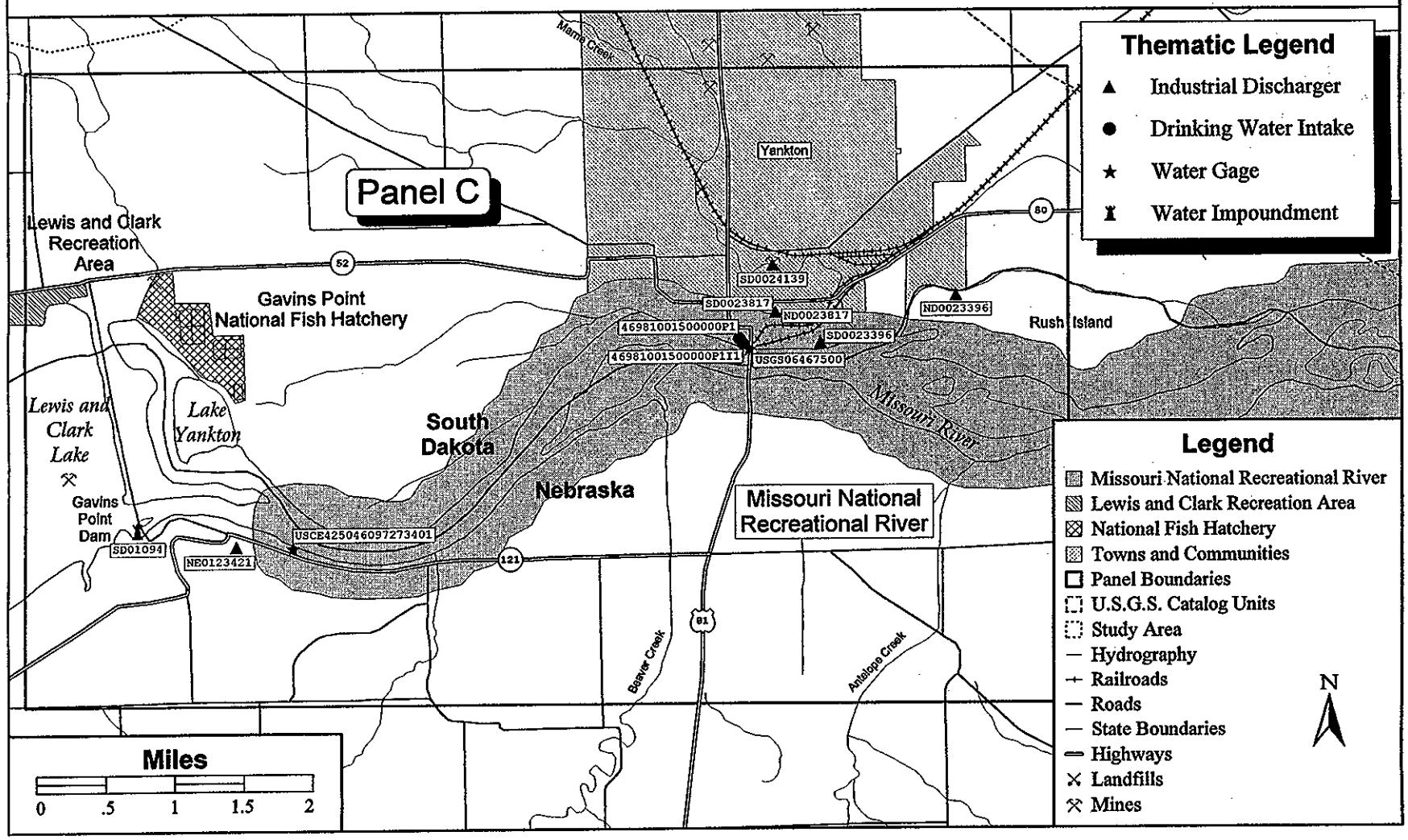
Missouri National Recreational River

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



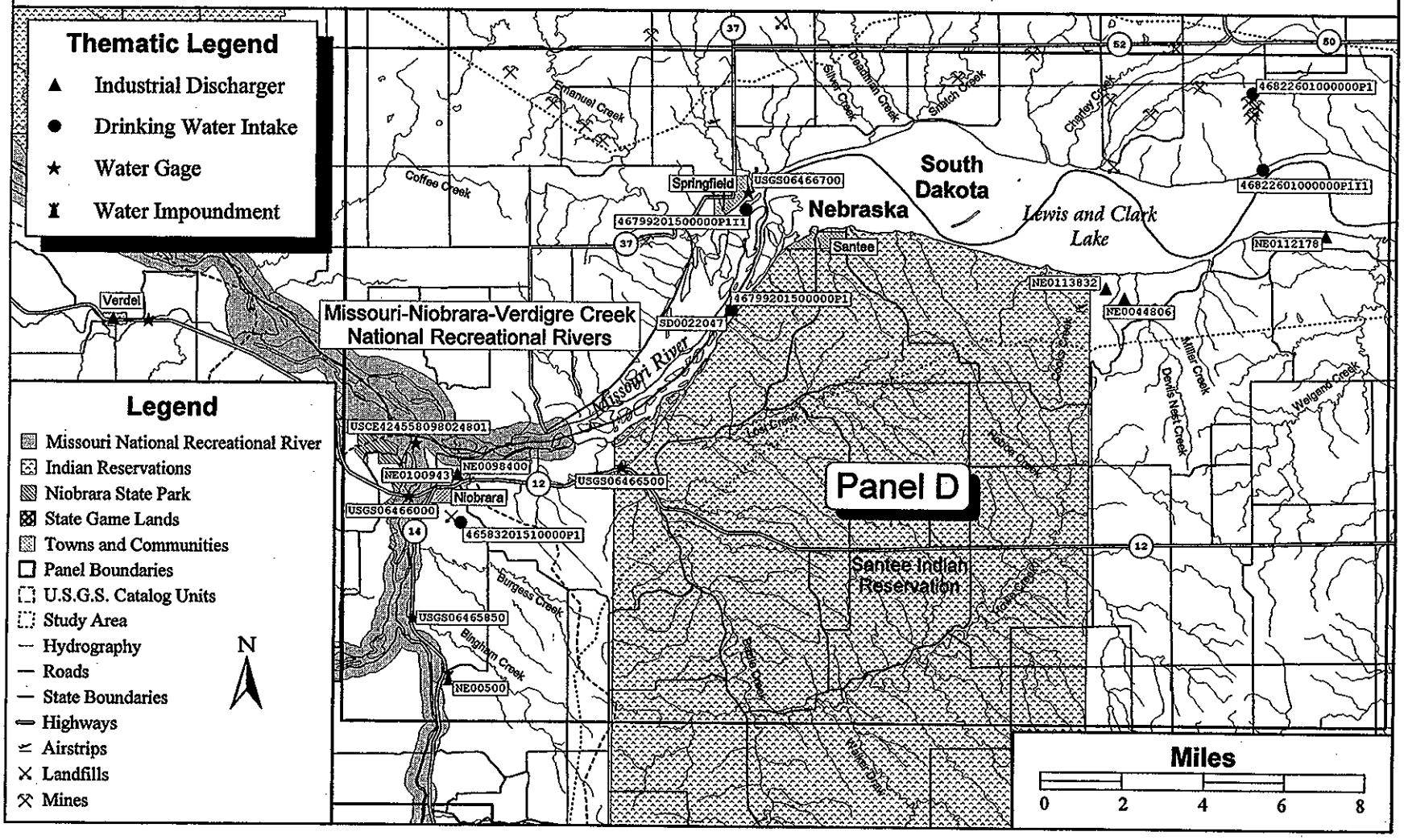
Missouri National Recreational River

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



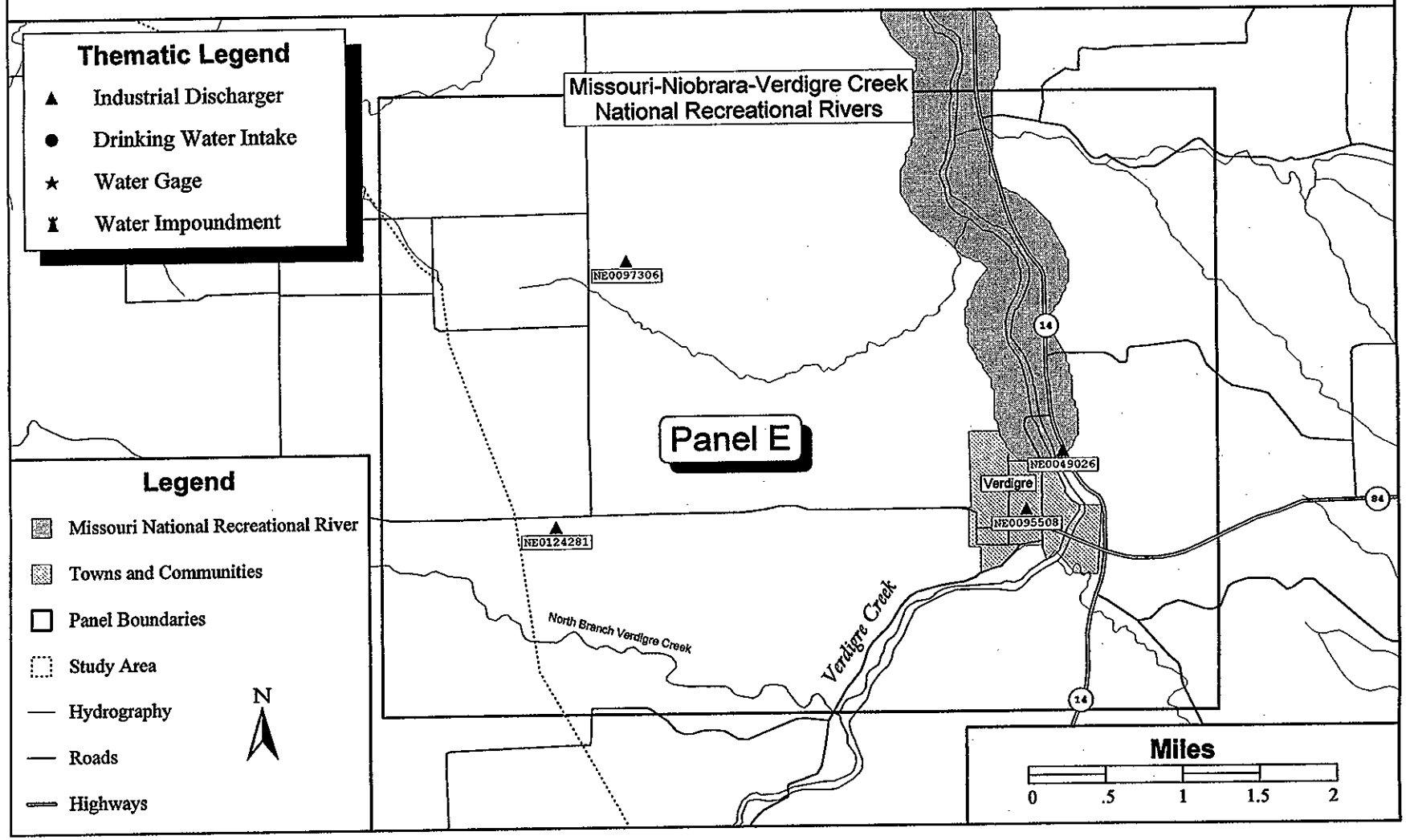
Missouri National Recreational River

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



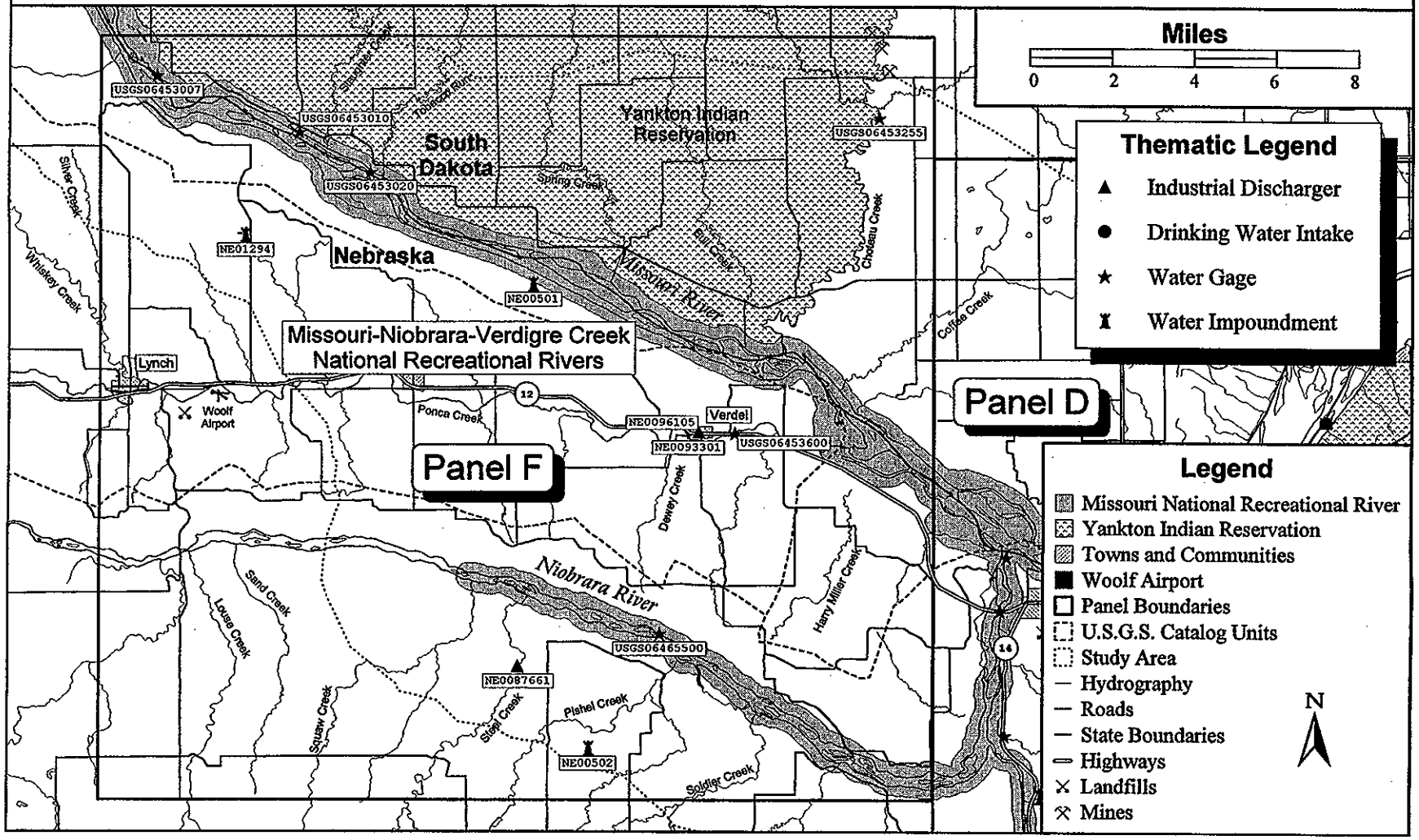
Missouri National Recreational River

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



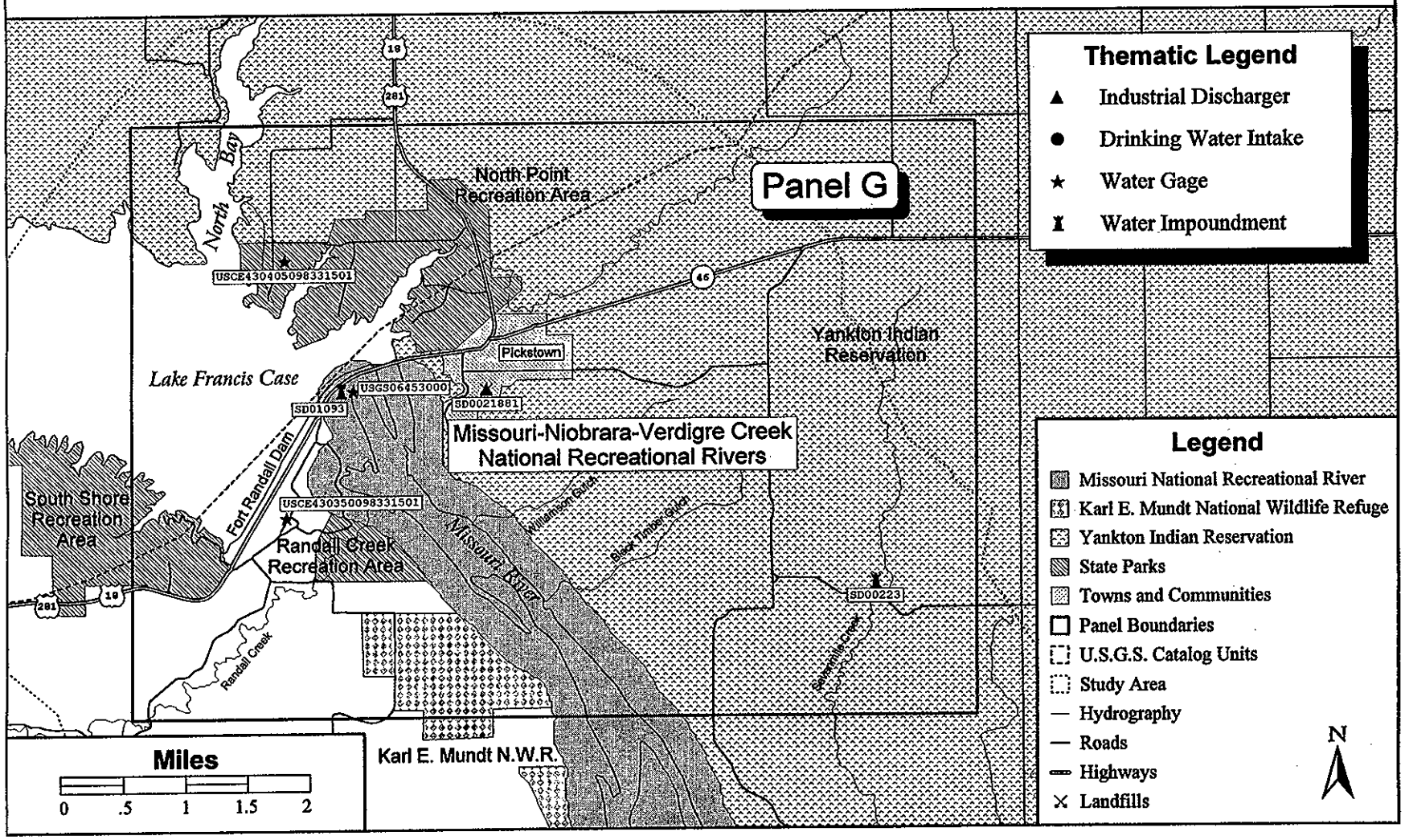
Missouri National Recreational River

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



Missouri National Recreational River

Dischargers, Drinking Intakes, Water Gages, & Water Impoundments



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

Industrial Facility Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name
ND0020061	DEVILS LAKE SIOUX TRIBE (E)	BOX 270	FORT TOTTEN	.....
ND0023396	MILTON CITY OF	P O BOX 98	MILTON	.....
ND0023817	USA SAFEGUARD COMMAND MSR SITE	ATT BMDSG K H BLDG	CAVALIER COUNTY	
NE0021687	PONCA WWTF	123 THIRD STREET	PONCA	AOWA CREEK
NE0044806	SID 2 KNOX DEVILS NEST	2738 S CYPRESS ST	SIOUX CITY	LEWIS & CLARK L
NE0049026	VERDIGRE WWTF	P.O. BOX 275	VERDIGRE	VERDIGRE CREEK
NE0049077	NEWCASTLE WWTF	P.O. 174	NEWCASTLE	AOWA CREEK
NE0084182	KAYL. GARY B RURAL ROU	RURAL ROUTE	PONCA	BADGER CRK
NE0086053	EMERY HEINE	RR	SAINT HELENA	COND ROAD DIT
NE0087661	RUZICKA GLEN & HENRY		VERDIGRE	STEELE CRK
NE0093254	PAVELKA. A A & SON VERDIGRE		VERDIGRE	N BR VERDIGR CK
NE0093301	PISCHEL. ROBERT JR VERDEL		VERDEL	NIOBRARA R
NE0095303	ALLEN WAVRUNEK	RFD 1	VERDIGRE	PROP CONF SWINE
NE0095508	DOBIAS JERRY		VERDIGRE	DAIRY BARN
NE0096105	EILER&ZACH		VERDEL	PROP CONF SWINE
NE0097306	DOBIAS DAIRY FARM	ROUTE 1	VERDIGRE	TRIB TO VERDIGRE
NE0098400	SCOTT JAMES		NIOBRARA	PROP CONF SWINE
NE0099074	JONES DARYL		WYNOT	OPEN LOT RD DIT
NE0099503	VAKOC KENNETH		VERDIGRE	PROP CONF SWINE
NE0100943	HAZEN. GAIL L		NIOBRARA	BRAZILE CREEK
NE0112178	SID 1 KNOX KOHLES ACRES	KOHLES ACRES	NORFOLK	LEWIS & CLARK L
NE0113832	LEWIS & CLARK NRD	BOX 518	HARTINGTON	TRIB BIRDSHELL C
NE0123421	RIGHT BANK	P.O. BOX 710	YANKTON	MISSOURI RIVER
NE0124281	VAKOC CONSTRUCTION GRAVEL PIT	RR #1 BOX 128A	VERDIGRE	
SD0000213	USFWS GAVINS PT NFH	ROUTE 1 BOX 293	YANKTON	
SD0020061	VERMILLION CITY OF	25 CENTER STREET	VERMILLION	VERMILLION RIVER (MISSOURI RIV
SD0021881	PICKSTOWN TOWN OF	.....	PICKSTOWN	TR TO MISSOURI R
SD0022047	SPRINGFIELD CITY OF	.....	SPRINGFIELD	.....
SD0023396	YANKTON CITY OF	PO BOX 176	YANKTON	MISSOURI R
SD0023817	YANKTON LIVESTK AUCTION	BOX 603	YANKTON	
SD0024139	CULLIGAN SOFT WATER SERV	600 EAST 8TH	YANKTON	
SD0025917	DALE ELECTRONICS. INC	BOX 180	YANKTON	MISSOURI RIVER

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

Drinking Water Intakes

Site ID	Station/Facility Name	City	Population Served	Avg. Daily Production (Gal./Day)
46583201510000P1	TREATMENT PLANT	MITCHELL	13917	0000.00
46799201500000P1	TREATMENT PLANT	SPRINGFIELD	2000	3000.00
46799201500000P1I1	LEWIS&CLARK LAKE	SPRINGFIELD	2000	3000.00
46822601000000P1	TRTMT. PLANT	TABOR	5217	
46822601000000P1I1	LEWIS & CLARK LAKE	TABOR	5217	
46981001500000P1	TREATMENT PLANT	YANKTON	11992	
46981001500000P1I1	MISSOURI RIVER	YANKTON	11992	

Water Gages

Site ID	Station Name	Site Type	Drainage Area (Square Miles)	Begin Year	End Year
USCE423430096410301	MISSOURI R NR PONCA	Stream			
USCE424558098024801	NIOBRARA R AT NIOBRA	Stream			
USCE424706096574501	VERMILLION R NR VERM	Stream			
USCE425046097273401	GAVINS POINT RE TAIL	Lake			
USCE430350098331501	FT RANDALL RE TAILWA	Lake			
USCE430405098331501	FT RANDALL RE HEADWA	Lake			
USGS06453000	MISSOURI RIVER AT FORT RANDALL DAM SD	Stream	3500.00	1947	1986
USGS06453600	PONCA CREEK AT VERDEL, NEBR.	Stream	812.00	1957	1996
USGS06465500	NIOBRARA RIVER NR. VERDEL, NEBR.	Stream	2600.00	1938	1996
USGS06465850	BINGHAM CREEK NEAR N	Stream	6.50		
USGS06466000	NIOBRARA R AT NIOBRARA NEBR			1954	1958
USGS06466500	BAZILE CREEK NEAR NIOBRARA, NE	Stream	440.00	1952	1995
USGS06466700	LEWIS AND CLARK LAKE AT SPRINGFIELD SD	Stream		1980	1996
USGS06467500	MISSOURI R AT YANKTON SD	Stream	9500.00	1931	1996
USGS06478515	MISSOURI R NEAR GAYVILLE SD	Stream		1969	1996
USGS424704096575000	VERMILLION R AT VERM	Stream			
USGS06478518	BOW CREEK NR ST. JAMES, NEBR.	Stream		1979	1993
USGS06453007	MISSOURI RIVER ABOVE GREENWOOD, SD	Stream			1989
USGS06453010	MISSOURI RIVER AT GREENWOOD SD	Stream		1980	1988
USGS06453020	MISSOURI RIVER BELOW GREENWOOD, SD	Stream		1989	1996
USGS06453255	CHOTEAU CR NR AVON SD	Stream	602.00	1982	1996

Water Impoundments

Site ID	Impoundment Name	Owner	Primary Purpose	Type of Dam	Downstream Hazard	Year Completed
NE00403	AOWA CREEK DAM 1-2	LEWIS & CLARK NRD	Other	Earth	Low	1972
NE00472	HEALD DAM	DARREL HEALD	Other	Earth	Low	1964
NE00473	SCHULKE DAM	BERNARD BOUSQUET	Rec.	Earth	Significant	1969
NE00500	PAESL DAM	TONY C PAESL	Flood	Earth	Low	1958
NE00501	FLANDERS DAM	DON FLANDERS	Flood	Earth	Low	1959
NE00502	HAINERAICH DAM	LEONARD HAINERAICH	Irrig.	Earth	Low	1968
NE01294	MICHANEK DAM	HAROLD MICHANEK	Other	Earth	Low	1960
SD00223	SDNONAME 292	GAME FISH PARKS DEPT.	Flood	Earth	Low	1938

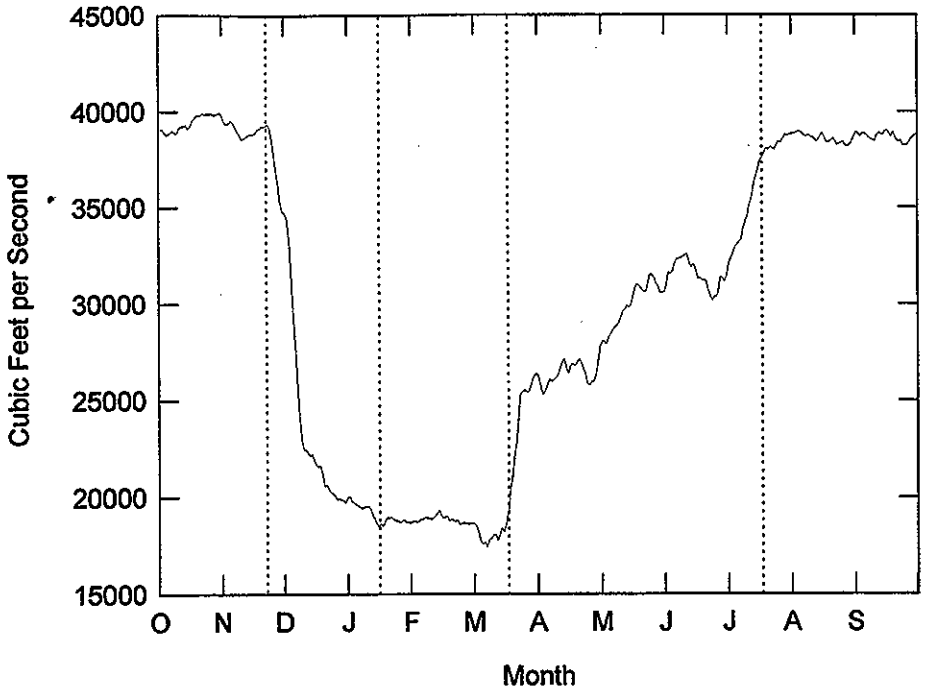
Industrial Facility Discharges, Drinking Water Intakes, Water Gages, and Water Impoundments Within the MNRR Study Area

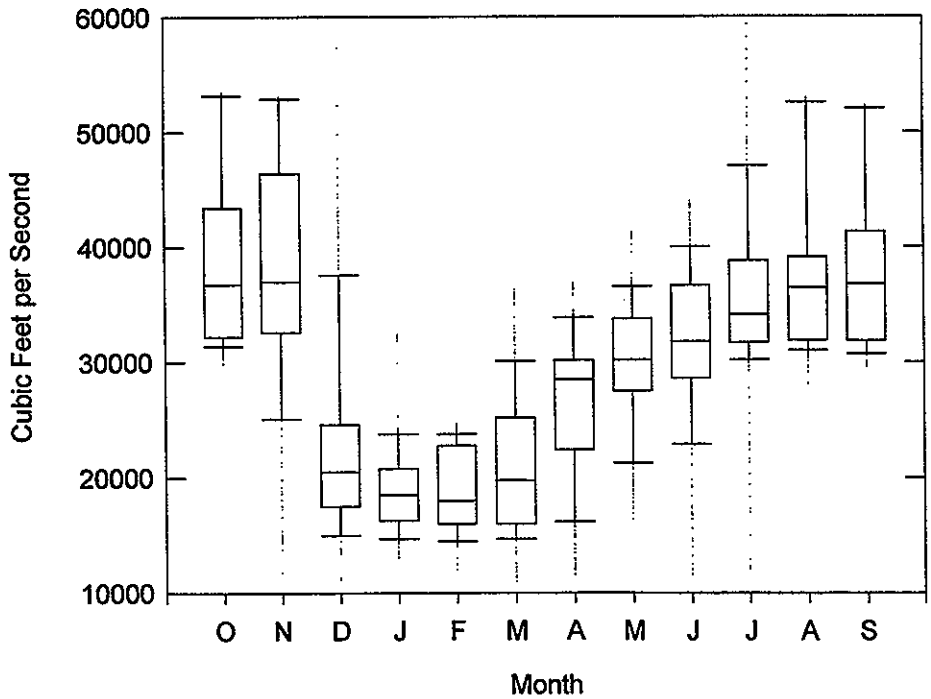
Water Impoundments

Site ID	Impoundment Name	Owner	Primary Purpose	Type of Dam	Downstream Hazard	Year Completed
SD01093	FORT RANDALL DAM	DAEN MRO	Flood	Earth	High	1954
SD01094	GAVINS POINT DAM	DAEN MRO	Flood	Earth	High	1958

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

MISSOURI NATIONAL RECREATIONAL RIVER
Missouri River at Yankton, SD
06467500, 14 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 Missouri National Scenic Riverway are: Nov. 20 to Jan. 14, Jan. 15 to Mar. 14, Mar. 15 to Jul. 14 and Jul. 15 to Nov. 19.

CONTACTS FOR AGENCY CODES RETRIEVED FOR MNRR

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)	
21NEB001	WALKER, STEVE	NEBRASKA DEPT ENV CONTROL	(402)471-2186	
1117MBR	CRISP, NORM	USEPA REGION 7	(913)236-3884	
112WRD	BRIGGS, JOHN	US GEOLOGICAL SURVEY	(703)648-5624	
21NEB002	GABI, JOE	NEBRASKA GAME & PARK COMM	(402)464-0641	
121MBRCE	KERSH, GARLAND	CORPS OF ENGINEERS	(816)842-6039	
21SDAK01	BARON, LEE	SD DEPT WATER & NAT RES	(605)773-3812	
11NPSWRD	TUCKER, DEAN	NATIONAL PARK SERVICE	(970)225-3516	(970)225-3518
21SDLASS	REPSYS, ANDREW	SD DENR	(605)773-3696	
1110NET	STORET USER ASSISTANCE	USEPA HQ	(202)260-7050	(800)424-9067
1118EPA8	PAYNE, MARSHALL L.	USEPA REGION 8	(303)236-5064	

QUANTITY OF DATA RETRIEVED FOR MNRR BY AGENCY CODE

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

Agency	Organization	Period of Record Study Area	/ Park Only	Water Quality Stations S.A.	Water Quality Stations Park	Longer Term[1] Stations S.A.	Longer Term[1] Stations Park	No Data Stations S.A.	No Data Stations Park	Water Quality Observations S.A.	Water Quality Observations Park	Water Quality Parameters S.A.	Water Quality Parameters Park
21NEB001	NEBRASKA DEPT ENV CONTROL	04/11/61-07/16/96	05/13/81-09/29/94	45	12	9	0	13	8	11997	56	167	20
1117MBR	USEPA REGION 7	10/07/68-09/18/96	09/22/81-07/08/94	11	3	1	0	2	1	1361	718	285	258
112WRD	US GEOLOGICAL SURVEY	12/07/48-09/12/96	12/07/48-08/31/95	22	8	8	5	2	1	37246	26846	222	205
21NEB002	NEBRASKA GAME & PARK COMM	07/12/72-07/31/72	No Data in Park	5	0	0	0	0	0	43	0	13	0
121MBRCE	CORPS OF ENGINEERS	05/04/65-10/02/97	05/04/65-08/26/97	14	6	10	4	2	1	107519	59693	231	222
21SDAK01	SD DEPT WATER & NAT RES	12/11/68-10/22/97	09/22/75-11/16/81	5	1	2	1	0	0	5482	1102	52	34
11NPSWRD	NATIONAL PARK SERVICE	01/01/88-09/30/97	01/01/88-09/30/97	2	1	1	1	0	0	29217	29064	82	12
21SDLASS	SD DENR	06/27/89-08/01/89	No Data in Park	2	0	0	0	0	0	62	0	16	0
1110NET	USEPA HQ	10/28/57-08/28/75	10/28/57-08/28/75	2	2	1	1	0	0	14967	14967	136	136
1118EPA8	USEPA REGION 8	03/24/76-04/14/87	No Data in Park	1	0	0	0	0	0	47	0	20	0
Totals		12/07/48-10/22/97	12/07/48-09/30/97	109	33	32	12	19	11	207941	132446	773	665

[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 12/07/48 To 10/22/97

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 10/22/97	01/01/75 to 12/31/84	Before 01/01/75
MNRR0001!	Missouri River near Ponca, NE	No	3629	0	3629	0
MNRR0002!	MISSOURI R NEAR PONCA NE	No	3908	0	3908	0
MNRR0003	AOWA CREEK	No	0	0	0	0
MNRR0004	AOWA CREEK	No	0	0	0	0
MNRR0005	AOWA CREEK	No	0	0	0	0
MNRR0006	AOWA CREEK EAST OF PONCA, NEBRASKA.	No	44	44	0	0
MNRR0007!	AOWA CREEK AT PONCA	No	692	0	445	247
MNRR0008	AOWA CREEK	No	47	47	0	0
MNRR0009	PLUM CREEK NEAR WISNER, NB	No	9	0	0	9
MNRR0010	TURKEY CREEK	No	47	47	0	0
MNRR0011!	MISSOURI R NEAR MASKELL NE	Yes	3849	0	3849	0
MNRR0012!	VERMILLION R NEAR VERMILLION	No	3540	2513	615	412
MNRR0013	VERMILLION R AT VERMILLION, S.D.	No	21	0	0	21
MNRR0014	AMES CREEK	No	17	17	0	0
MNRR0015	BOW CREEK NR ST. JAMES, NEBR.	No	62	62	0	0
MNRR0016	BOW CREEK	No	108	108	0	0
MNRR0017!	BOW CREEK NEAR WYNOT (N)	No	620	0	373	247
MNRR0018	BOW CREEK NORTH OF WYNOT, NEBRASKA.	No	78	78	0	0
MNRR0019	UN TRIB OF MISSOURI RIVER	Yes	13	13	0	0
MNRR0020!	MISSOURI R NEAR GAYVILLE SD	Yes	3855	0	3855	0
MNRR0021	TRIB TO SECOND BOW CREEK	No	76	76	0	0
MNRR0022	93N55W 3ABBB	No	28	0	28	0
MNRR0023	SAND CREEK NEAR STANTON, NB	No	10	0	0	10
MNRR0024	SPRING CREEK NEAR NORFOLK, NB	No	9	0	0	9
MNRR0025!	LAKE YANKTON DEEP	No	4794	4157	637	0
MNRR0026!	MISSOURI R AT YANKTON SD	Yes	3350	704	499	2147
MNRR0027!	YANKTON RAW WATER INTAKE AT MERIDIAN BRIDGE	Yes	29064	29064	0	0
MNRR0028	MISSOURI R. @ YANKTON, S. DAK.	Yes	47	0	0	47
MNRR0029!	MISSOURI RIVER AT YANKTON	Yes	14920	0	347	14573
MNRR0030!	BEAVER CREEK NEAR MENOMINEE (NW)	No	572	0	326	246
MNRR0031	BEAVER CREEK	No	46	46	0	0
MNRR0032	YANKTON STP YANKTON SO DAK	No	47	6	41	0
MNRR0033	COTTONWOOD LAKE	No	255	255	0	0
MNRR0034	COTTONWOOD LAKE	No	47	47	0	0
MNRR0035	YANKTON-S YANKTON CO	No	30	30	0	0
MNRR0036	YANKTON-S YANKTON CO	No	32	32	0	0
MNRR0037!	MONITOR AT GAVINS POINT POWERHOUSE	No	17448	13211	4237	0
MNRR0038	MISSOURI R. AT GAVINS POINT DAM	No	719	0	719	0
MNRR0039	LEWIS AND CLARK LAKE NEAR YANKTON SD	No	6	0	6	0
MNRR0040!	LEWIS AND CLARK LAKE RELEASES	No	7554	2925	3732	897
MNRR0041	MISSOURI RIVER NEAR YANKTON	No	0	0	0	0
MNRR0042!	LAKE YANKTON SHALLOW	No	4506	3884	622	0
MNRR0043	LEWIS AND CLARK LAKE AT THE GAVINS POINT DAM.	No	98	98	0	0
MNRR0044	LEWIS AND CLARK LAKE	No	2	2	0	0
MNRR0045	GAVINS POINT POWERHOUSE MONITOR	No	0	0	0	0
MNRR0046	YANKTON LAKE T93N R56W SECTION 17	No	79	0	79	0
MNRR0047	MO R @ DAM ABOVE YANKTON, SD	No	63	0	0	63
MNRR0048!	LEWIS AND CLARK LAKE NR DAM	No	9431	5506	3925	0
MNRR0049	WIEGAND CREEK	No	67	67	0	0
MNRR0050	DEVILS NEST CREEK	No	87	87	0	0
MNRR0051	RURAL WATER INTAKE STRUCTURE	No	153	153	0	0
MNRR0052	COOKS CREEK	No	43	43	0	0
MNRR0053	SNATCH CREEK NEAR TABOR, SD	No	24	24	0	0
MNRR0054	HOPKINS CREEK NEAR OAKDALE, NB	No	9	0	0	9
MNRR0055!	LEWIS AND CLARK LAKE NR SPRINGFIELD	No	4029	3317	712	0
MNRR0056	LEWIS AND CLARK LAKE NR SPRINGFIELD	No	64	64	0	0
MNRR0057	LOST CREEK	No	84	84	0	0
MNRR0058	LOST CR NR NIOBRARA, NE	No	55	55	0	0
MNRR0059	BAZILE CREEK	No	51	51	0	0
MNRR0060!	BAZILE CREEK AT NIOBRARA	No	939	0	475	464
MNRR0061	BAZILE CREEK EAST OF NIOBRARA, NEBRASKA.	No	36	36	0	0
MNRR0062	BAZILE CREEK	No	0	0	0	0
MNRR0063	BAZILE CREEK NEAR NIOBRARA, NE	No	81	74	7	0
MNRR0064	HOWE CREEK	No	84	84	0	0
MNRR0065	UN TRIB TO VERDIGRE CREEK	No	16	16	0	0
MNRR0066!	VERDIGRE CREEK AT VERDIGRE S	No	286	0	0	286
MNRR0067	NIOBRARA RIVER AT NIOBRARA, NEBRASKA.	No	141	0	141	0
MNRR0068	CONFLUENCE OF NIOBRARA RIVER MISSOURI R	Yes	64	64	0	0
MNRR0069	VERDIGRE CREEK	Yes	8	8	0	0
MNRR0070	VERDIGRE CREEK	Yes	8	8	0	0
MNRR0071!	VERDIGRE CREEK AT VERDIGRE	No	565	0	230	335

Station Period of Record Tabulation
From 12/07/48 To 10/22/97

Station Ident.	Location Description	In Park	Total Obs	01/01/85 to 10/22/97	01/01/75 to 12/31/84	Before 01/01/75
MNRR0072[1]	NIOBRARA RIVER AT NIOBRARA	No	3963	0	1376	2587
MNRR0073	VERDIGRE CREEK	Yes	118	118	0	0
MNRR0074	VERDIGRE C NR VERDIGRE, NE	Yes	155	0	0	155
MNRR0075	NIOBRARA RIVER AT NIOBRARA	Yes	0	0	0	0
MNRR0076	SCHINDLER CREEK	No	26	26	0	0
MNRR0077	CHOTEAU CR NR AVON SD	No	988	778	210	0
MNRR0078	93N62W23BDD CHOTEAU CREEK	No	23	0	0	23
MNRR0079[1]	PONCA CREEK AT VERDEL	No	2107	0	369	1738
MNRR0080[1]	PONCA CREEK AT VERDEL, NEBR.	No	1558	0	1535	23
MNRR0081	LEARWATER CR NEAR CLEARWATER, NB	No	6	0	0	6
MNRR0082[1]	PISHELVILLE BRIDGE NEAR VERDEL	Yes	1605	0	703	902
MNRR0083	NIOBRARA RIVER SOUTH OF VERDEL, NEBRASKA.	Yes	600	56	544	0
MNRR0084	NIOBRARA RIVER	Yes	27	2	25	0
MNRR0085[1]	NIOBRARA RIVER AT VERDEL	No	985	778	0	207
MNRR0086[1]	NIOBRARA RIVER NR. VERDEL, NEBR.	Yes	11407	3962	6360	1085
MNRR0087	STEELE CREEK	No	75	75	0	0
MNRR0088	STEELE CREEK W OF PISCHELVILLE	No	34	0	34	0
MNRR0089	MISSOURI RIVER	Yes	0	0	0	0
MNRR0090	SONG HAWK LAKE T94N R63W SECTION 20	No	42	0	42	0
MNRR0091	MISSOURI RIVER	Yes	0	0	0	0
MNRR0092	MISSOURI RIVER	Yes	0	0	0	0
MNRR0093	NIOBRARA RIVER	Yes	0	0	0	0
MNRR0094	MISSOURI RIVER	Yes	0	0	0	0
MNRR0095[1]	MISSOURI RIVER NNE OF LYNCH, NEBRASKA.	No	183	183	0	0
MNRR0096	MICANEK FARM POND NEAR LYNCH, NEBR.	No	17	0	0	17
MNRR0097	FARM POND	No	0	0	0	0
MNRR0098	MISSOURI RIVER	Yes	0	0	0	0
MNRR0099	94N64W28BBAD MISSOURI RIVER	Yes	24	0	0	24
MNRR0100	MISSOURI RIVER	Yes	0	0	0	0
MNRR0101	MISSOURI RIVER	Yes	0	0	0	0
MNRR0102	95N65W 9CDB MISSOURI RIVER	Yes	0	0	0	0
MNRR0103[1]	LAKE FRANCIS CASE RELEASES	Yes	24998	1845	4402	18751
MNRR0104	96N65W29BACC SVATOS	No	0	0	0	0
MNRR0105[1]	MISSOURI R. AT FORT RANDALL DAM	Yes	1102	0	1102	0
MNRR0106	FORT RANDALL POWERHOUSE MONITOR	Yes	0	0	0	0
MNRR0107[1]	MISSOURI RIVER AT FORT RANDALL DAM SD	Yes	4206	485	3621	100
MNRR0108[1]	MONITOR AT FT RANDALL POWER HOUSE	Yes	23836	6018	5934	11884
MNRR0109[1]	LAKE FRANCIS CASE NR DAM	Yes	9190	4865	4323	2

[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 12/07/48 To 10/22/97

Parameter Code	Name		Total Obs	01/01/85 to 10/22/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)		5702	2936	2765	1	36	11
00004	STREAM WIDTH (FEET)		547	40	507	0	17	2
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE		197	28	3	166	16	3
00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)		1465	1	1464	0	5	3
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		15222	10583	3335	1304	66	17
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)		9256	142	3136	5978	16	5
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)		2152	893	871	388	36	9
00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)		260	145	107	8	10	1
00023	SAMPLE WEIGHT IN POUNDS		42	8	34	0	4	1
00024	SAMPLE LENGTH-IN INCHES		42	8	34	0	4	1
00025	BAROMETRIC PRESSURE (MM OF HG)		161	91	70	0	9	4
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.		714	357	287	70	16	7
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)		1062	504	474	84	20	7
00032	CLOUD COVER (PERCENT)		997	438	362	197	17	3
00035	WIND VELOCITY (MILES PER HOUR)		695	434	261	0	11	3
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)		657	405	252	0	8	3
00040	WIND DIRECTION, AZIMUTH		2	0	2	0	2	1
00049	SURFACE AREA IN SQUARE MILES		63	0	15	48	3	3
00055	VELOCITY, STREAM	FT/SEC	374	0	374	0	1	0
00060	FLOW, STREAM, MEAN DAILY	CFS	1142	0	179	963	18	6
00061	FLOW, STREAM, INSTANTANEOUS	CFS	977	391	552	34	35	9
00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET		35	0	35	0	4	2
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION		131	0	98	33	2	1
00064	DEPTH OF STREAM, MEAN (FT)		45	44	1	0	16	1
00065	STAGE, STREAM (FEET)		743	11	609	123	11	7
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)		109	0	27	82	3	2
00070	TURBIDITY, (JACKSON CANDLE UNITS)		1167	0	252	915	14	4
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)		257	0	35	222	5	3
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		896	510	333	53	10	5
00077	TRANSPARENCY, SECCHI DISC (INCHES)		76	7	69	0	5	2
00078	TRANSPARENCY, SECCHI DISC (METERS)		389	319	70	0	8	2
00080	COLOR (PLATINUM-COBALT UNITS)		1700	783	189	728	14	6
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS		1	1	0	0	1	0
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		522	522	0	0	7	2
00093	SOLIDS REPORTED AS FLOATABLES MG/L		1	0	1	0	1	0
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		9198	6110	3086	2	11	5
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		15901	547	2838	12516	54	12
00100	TIME OF TRAVEL (HOURS)		4	0	4	0	3	0
00200	LIGHT,INCIDENT,400-700NM,INTENSITY,UEINSTEINS/M2/S		7	5	2	0	3	0
00210	INVALID PARAMETER		1	0	1	0	1	0
00291	INVALID PARAMETER		48	0	0	48	1	1
00292	OXYGEN,DISSOLVED,UPTAKE,DARK BOTTLE,IN 24HR	MG/L	2	0	1	1	2	1
00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	23687	6118	5684	11885	10	4
00300	OXYGEN, DISSOLVED	MG/L	2201	421	593	1187	48	12
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	2623	2258	365	0	6	2
00310	BOD, 5 DAY, 20 DEG C	MG/L	1268	2	287	979	14	3
00320	BOD, ULTIMATE 1ST STAGE, 20 DEG C	MG/L	16	0	3	13	4	1
00335	COD, .025N K2CR2O7	MG/L	190	0	127	63	7	3
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT	MG/KG	1	0	1	0	1	1
00340	COD, .25N K2CR2O7	MG/L	457	91	190	176	11	1
00370	CHLORINE DEMAND, 1 HOUR (MG/L)		354	0	0	354	1	1
00380	CHLORINE DEMAND, 24 HOUR (MG/L)		353	0	0	353	1	1
00400	PH (STANDARD UNITS)		8762	6021	1387	1354	47	11
00403	PH, LAB, STANDARD UNITS	SU	3916	3713	181	22	17	5
00405	CARBON DIOXIDE (MG/L AS CO2)		73	1	53	19	7	4
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		5950	4142	496	1312	40	10
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		3560	3524	20	16	7	1
00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB	MG/L	1	1	0	0	1	1
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD	MG/L	15	15	0	0	1	1
00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)		1	1	0	0	1	0
00440	BICARBONATE ION (MG/L AS HCO3)		280	0	183	97	14	7
00445	CARBONATE ION (MG/L AS CO3)		84	0	52	32	6	3
00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD	MG/L	15	15	0	0	1	1
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELD	MG/L	15	15	0	0	1	1
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3,	MG/L	33	33	0	0	1	1
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,	MG/L	33	33	0	0	1	1
00500	RESIDUE, TOTAL (MG/L)		266	148	87	31	15	3
00502	INVALID PARAMETER		1	0	1	0	1	1
00503	INVALID PARAMETER		1	0	0	1	1	0
00505	RESIDUE, TOTAL VOLATILE (MG/L)		6	0	0	6	5	0
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),	MG/L	1060	205	452	403	24	5

Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Parameter Code	Name	Total Obs	01/01/85 to 10/22/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	1079	480	430	169	31	6
00551	HYDROCARBONS,IN WATER,IR,CC14 EXT.CHROMAT. MG/L	9	0	9	0	2	1
00556	OIL & GREASE (FREON EXTR.-GRAV METH) TOT.REC,MG/L	1	0	1	0	1	0
00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	18	0	18	0	2	2
00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	18	0	18	0	2	2
00600	NITROGEN, TOTAL (MG/L AS N)	181	0	156	25	4	3
00602	NITROGEN, DISSOLVED (MG/L AS N)	36	0	36	0	2	2
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	179	5	143	31	5	3
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	37	0	37	0	2	2
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	197	48	112	37	7	5
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	1867	718	662	487	33	9
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	1	0	1	0	1	1
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	124	40	50	34	8	4
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	335	213	122	0	8	3
00616	NITRITE NITROGEN, BOTTOM DEPOS. (MG/KG-N DRY WGT)	1	0	1	0	1	1
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	50	0	4	46	6	2
00619	AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	586	461	125	0	7	2
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	945	461	283	201	10	4
00621	NITRATE NITROGEN, BOTTOM DEPOS. (MG/KG-N DRY WGT)	1	0	1	0	1	1
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	74	1	73	0	3	2
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	69	0	69	0	2	2
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	1091	603	447	41	20	6
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	1	0	1	0	1	1
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	996	207	434	355	29	8
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	173	53	79	41	8	3
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	38	0	0	38	1	1
00636	NITROGEN, AMMONIA&ORG., DISS. 1 DET (MG/L AS N)	10	0	0	10	1	1
00637	DITHIOCARBAMATE,REPRTD AS DITHIOCARBONATE,WTR,MG/L	1	0	1	0	1	0
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	310	0	47	263	15	6
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	375	0	0	375	1	1
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	205	1	142	62	18	6
00665	PHOSPHORUS, TOTAL (MG/L AS P)	1375	729	503	143	23	8
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	350	50	213	87	13	7
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	1	0	1	0	1	1
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	330	165	116	49	14	7
00678	PHOSPHORUS,HYDROLYZABLE + ORTHO,TOT,AUTOANALYZER	98	0	98	0	4	2
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	329	97	187	45	11	5
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	47	0	23	24	3	3
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	20	0	20	0	2	2
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	169	120	49	0	8	2
00722	CYANIDE, FREE (AMENABLE TO CHLORINATION) MG/L	1	0	1	0	1	0
00900	HARDNESS, TOTAL (MG/L AS CACO3)	5897	4052	480	1365	37	10
00901	HARDNESS, CARBONATE (MG/L AS CACO3)	3540	3516	0	24	4	3
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	3703	3516	104	83	9	5
00910	CALCIUM (MG/L AS CACO3)	86	0	30	56	4	2
00915	CALCIUM, DISSOLVED (MG/L AS CA)	706	140	238	328	23	4
00916	CALCIUM, TOTAL (MG/L AS CA)	431	232	187	12	13	5
00920	MAGNESIUM (MG/L AS CACO3)	83	0	29	54	4	2
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	705	140	237	328	22	4
00927	MAGNESIUM, TOTAL (MG/L AS MG)	425	232	181	12	13	5
00929	SODIUM, TOTAL (MG/L AS NA)	424	231	180	13	13	5
00930	SODIUM, DISSOLVED (MG/L AS NA)	936	140	359	437	26	7
00931	SODIUM ADSORPTION RATIO	700	175	201	324	24	6
00932	SODIUM, PERCENT	201	2	129	70	8	4
00933	SODIUM,PLUS POTASSIUM (MG/L)	21	0	21	0	3	2
00935	POTASSIUM, DISSOLVED (MG/L AS K)	642	55	208	379	24	7
00937	POTASSIUM, TOTAL MG/L AS K)	315	176	127	12	12	4
00940	CHLORIDE,TOTAL IN WATER MG/L	2294	334	643	1317	38	10
00945	SULFATE, TOTAL (MG/L AS SO4)	1414	351	492	571	36	9
00950	FLUORIDE, DISSOLVED (MG/L AS F)	283	51	149	83	15	4
00951	FLUORIDE, TOTAL (MG/L AS F)	86	0	86	0	4	2
00955	SILICA, DISSOLVED (MG/L AS SIO2)	251	51	150	50	7	3
00956	SILICA, TOTAL (MG/L AS SIO2)	1	1	0	0	1	0
01000	ARSENIC, DISSOLVED (UG/L AS AS)	140	38	77	25	8	3
01001	ARSENIC, SUSPENDED (UG/L AS AS)	29	0	28	1	2	2
01002	ARSENIC, TOTAL (UG/L AS AS)	460	277	182	1	15	6
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	4	3	1	0	4	3
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	8	4	4	0	5	2
01005	BARIUM, DISSOLVED (UG/L AS BA)	132	42	69	21	9	5
01006	BARIUM, SUSPENDED (UG/L AS BA)	27	0	27	0	2	2
01007	BARIUM, TOTAL (UG/L AS BA)	258	94	164	0	12	6

Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Parameter Code	Name	Total Obs	01/01/85 to 10/22/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	2	1	1	0	2	2
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	69	32	18	19	3	3
01012	BERYLLIUM, TOTAL (UG/L AS BE)	414	240	174	0	10	3
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	1	0	1	0	1	1
01017	BISMUTH, TOTAL (UG/L AS BI)	1	1	0	0	1	1
01018	IRON,TOTAL IN BOTTOM DEPOSITS (MG/KG WT WGT-FE)	3	2	1	0	3	1
01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT,MG/KG	1	0	1	0	1	1
01020	BORON, DISSOLVED (UG/L AS B)	120	3	37	80	14	3
01022	BORON, TOTAL (UG/L AS B)	296	123	173	0	9	3
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	1	0	1	0	1	0
01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	3	2	1	0	3	1
01025	CADMIUM, DISSOLVED (UG/L AS CD)	127	36	63	28	7	4
01026	CADMIUM, SUSPENDED (UG/L AS CD)	24	0	23	1	2	2
01027	CADMIUM, TOTAL (UG/L AS CD)	464	276	187	1	16	6
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	2	2	0	0	2	1
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	3	3	0	0	3	2
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	130	37	64	29	8	4
01031	CHROMIUM, SUSPEND (UG/L AS CR)	32	0	31	1	2	2
01034	CHROMIUM, TOTAL (UG/L AS CR)	454	276	176	2	17	7
01035	COBALT, DISSOLVED (UG/L AS CO)	116	42	54	20	3	3
01036	COBALT, SUSPENDED (UG/L AS CO)	25	0	24	1	2	2
01037	COBALT, TOTAL (UG/L AS CO)	132	0	131	1	6	4
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	1	0	1	0	1	1
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	1	0	1	0	1	1
01040	COPPER, DISSOLVED (UG/L AS CU)	128	36	64	28	7	4
01041	COPPER, SUSPENDED (UG/L AS CU)	36	0	35	1	2	2
01042	COPPER, TOTAL (UG/L AS CU)	468	272	186	10	18	6
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	1	1	0	0	1	1
01044	IRON, SUSPENDED (UG/L AS FE)	23	0	23	0	2	2
01045	IRON, TOTAL (UG/L AS FE)	544	268	205	71	19	6
01046	IRON, DISSOLVED (UG/L AS FE)	145	48	85	12	8	3
01049	LEAD, DISSOLVED (UG/L AS PB)	125	36	62	27	9	5
01050	LEAD, SUSPENDED (UG/L AS PB)	31	0	30	1	2	2
01051	LEAD, TOTAL (UG/L AS PB)	437	257	178	2	16	7
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	3	2	1	0	3	2
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	1	0	1	0	1	1
01054	MANGANESE, SUSPENDED (UG/L AS MN)	37	0	36	1	2	2
01055	MANGANESE, TOTAL (UG/L AS MN)	572	274	255	43	22	6
01056	MANGANESE, DISSOLVED (UG/L AS MN)	144	47	85	12	7	3
01057	THALLIUM, DISSOLVED (UG/L AS TL)	1	0	0	1	1	1
01059	THALLIUM, TOTAL (UG/L AS TL)	2	1	1	0	2	0
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	115	42	53	20	7	5
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	102	0	102	0	5	3
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	1	0	1	0	1	1
01065	NICKEL, DISSOLVED (UG/L AS NI)	100	46	34	20	5	3
01066	NICKEL, SUSPENDED (UG/L AS NI)	16	0	16	0	2	2
01067	NICKEL, TOTAL (UG/L AS NI)	399	202	197	0	15	7
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	4	3	1	0	4	3
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	5	1	4	0	3	1
01070	PHOSPHORUS, TOTAL, SPECTROGRAPH METH (UG/L AS P)	17	0	0	17	1	1
01075	SILVER, DISSOLVED (UG/L AS AG)	125	43	61	21	5	3
01076	SILVER, SUSPENDED (UG/L AS AG)	26	0	26	0	2	2
01077	SILVER, TOTAL (UG/L AS AG)	434	250	184	0	13	6
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	2	1	1	0	2	2
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	79	42	18	19	3	3
01082	STRONTIUM, TOTAL (UG/L AS SR)	2	1	1	0	2	0
01085	VANADIUM, DISSOLVED (UG/L AS V)	80	42	18	20	3	3
01087	VANADIUM, TOTAL (UG/L AS V)	96	0	96	0	5	3
01090	ZINC, DISSOLVED (UG/L AS ZN)	132	39	64	29	10	4
01091	ZINC, SUSPENDED (UG/L ZN)	35	0	34	1	2	2
01092	ZINC, TOTAL (UG/L AS ZN)	476	275	186	15	21	7
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	4	3	1	0	4	3
01095	ANTIMONY, DISSOLVED (UG/L AS SB)	1	1	0	0	1	1
01097	ANTIMONY, TOTAL (UG/L AS SB)	158	124	34	0	9	2
01099	ANTIMONY,TISSUE,WET WEIGHT,MG/KG	4	0	4	0	2	1
01105	ALUMINUM, TOTAL (UG/L AS AL)	164	1	144	19	7	4
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	61	42	18	1	2	2
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	1	0	1	0	1	1
01113	CADMIUM,TOTAL RECOVERABLE IN WATER AS CD UG/L	1	1	0	0	1	1
01130	LITHIUM, DISSOLVED (UG/L AS LI)	61	42	18	1	2	2
01132	LITHIUM, TOTAL (UG/L AS LI)	155	0	155	0	5	3

Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Parameter Code	Name		Total Obs	01/01/85 to 10/22/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)		1	0	1	0	1	1
01145	SELENIUM, DISSOLVED (UG/L AS SE)		136	47	81	8	10	4
01146	SELENIUM, SUSPENDED (UG/L AS SE)		37	0	36	1	2	2
01147	SELENIUM, TOTAL (UG/L AS SE)		352	186	165	1	16	6
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)		3	2	1	0	3	2
01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG		5	1	4	0	3	2
01229	SELENIUM,TOTAL IN DRY DEPOSITION UG/KG		1	1	0	0	1	1
01300	OIL-GREASE (SEVERITY)		120	62	57	1	12	2
01305	DETERGENT SUDS (SEVERITY)		119	61	57	1	12	2
01310	GAS BUBBLES (SEVERITY)		56	55	0	1	5	2
01315	SLUDGE, FLOATING (SEVERITY)		113	55	57	1	12	2
01320	GARBAGE, FLOATING (SEVERITY)		120	62	57	1	12	2
01325	ALGAE, FLOATING MATS (SEVERITY)		120	62	57	1	12	2
01330	ODOR, ATMOSPHERIC (SEVERITY)		120	62	57	1	12	2
01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)		113	55	57	1	12	2
01340	FISH, DEAD (SEVERITY)		120	62	57	1	12	2
01345	DEBRIS, FLOATING (SEVERITY)		120	62	57	1	12	2
01350	TURBIDITY (SEVERITY)		66	65	0	1	5	2
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM.CODE		64	0	64	0	7	0
01355	ICE COVER, FLOATING OR SOLID (SEVERITY)		116	56	59	1	14	3
01501	ALPHA, TOTAL		112	0	0	112	1	1
01502	ALPHA, TOTAL, COUNTING ERROR		88	0	0	88	1	1
01503	ALPHA, DISSOLVED		117	0	0	117	2	2
01504	ALPHA, DISSOLVED, COUNTING ERROR		88	0	0	88	1	1
01505	ALPHA, SUSPENDED		112	0	0	112	1	1
01506	ALPHA, SUSPENDED, COUNTING ERROR		88	0	0	88	1	1
03501	BETA, TOTAL		221	0	0	221	1	1
03502	BETA, TOTAL, COUNTING ERROR		176	0	0	176	1	1
03503	BETA, DISSOLVED		226	0	0	226	2	2
03504	BETA, DISSOLVED, COUNTING ERROR		176	0	0	176	1	1
03505	BETA, SUSPENDED		221	0	0	221	1	1
03506	BETA, SUSPENDED, COUNTING ERROR		176	0	0	176	1	1
03875	CHROMIUM,TOTAL IN FISH,WET WEIGHT	MG/KG	1	1	0	0	1	1
04005	METOLACHLOR,BOTTOM MATERIAL,SEDIMENT,TOT REC	UG/KG	1	1	0	0	1	1
04006	ALACHLOR,BOTTOM MATERIAL,SEDIMENT,TOT RECOV	UG/KG	1	1	0	0	1	1
04257	ALDICARB SULFONE, TOTAL, WATER	UG/L	1	1	0	0	1	0
04258	HYDROXYCARBOFURAN, 3-, TOTAL, WATER	UG/L	1	1	0	0	1	0
04260	ALDICARB SULFOXIDE, TOTAL, WATER	UG/L	1	1	0	0	1	0
04443	DIQUAT, WATER TOTAL,	UG/L	1	1	0	0	1	0
10094	INVALID PARAMETER		1	0	1	0	1	1
13501	STRONTIUM 90, TOTAL		17	0	0	17	1	1
13502	STRONTIUM 90, TOTAL, COUNTING ERROR		1	0	0	1	1	1
22415	ALACHLOR, SEDIMENT, WET WEIGHT	UG/KG	2	2	0	0	2	0
22420	PHOSPHORUS, TOTAL, AS P, SEDIMENT, WET WT	MG/KG	2	2	0	0	2	0
22457	NITROGEN, TOTAL KJELDAHL, AS N, SED, WET WT	MG/KG	2	2	0	0	2	0
22703	URANIUM, NATURAL, DISSOLVED		2	0	0	2	1	1
30295	PROPACHLOR, WATER, WHOLE, RECOVERABLE,	UG/L	7	7	0	0	7	2
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C		106	0	0	106	3	2
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C		420	0	0	420	1	1
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)		2	0	0	2	1	0
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)		9	0	0	9	2	1
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		946	218	377	351	27	8
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM		261	86	175	0	5	2
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR		316	86	216	14	8	3
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H		93	39	40	14	5	2
32000	SAMPLE SIZE (LITERS)		22	0	0	22	1	1
32001	SAMPLE SIZE (GALLONS)		150	0	0	150	1	1
32002	SAMPLE SIZE (MILLILITERS)		17	0	0	17	1	1
32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL		150	0	0	150	1	1
32004	CARBON ALCOHOL EXTRACTABLES		150	0	0	150	1	1
32005	CARBON CHLOROFORM EXTRACTABLES		150	0	0	150	1	1
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF		52	0	0	52	1	1
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF		52	0	0	52	1	1
32023	ACIDS, STRONG		52	0	0	52	1	1
32024	ACIDS, WEAK		52	0	0	52	1	1
32025	BASES		52	0	0	52	1	1
32026	NEUTRALS, TOTAL		52	0	0	52	1	1
32027	ALIPHATICS FRACTION OF NEUTRALS		52	0	0	52	1	1
32028	AROMATICS FRACTION OF NEUTRALS		52	0	0	52	1	1
32029	OXYGENATED COMPOUNDS FRACTION OF NEUTRALS		52	0	0	52	1	1
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.		210	174	36	0	5	1

Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Parameter Code	Name	Total Obs	01/01/85 to 10/22/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
32216	CHLOROPHYLL,TOTAL UG/L TRICHROMATIC UNCORRECTED	46	0	46	0	2	1
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	149	149	0	0	5	1
32226	CHLOROPHYLL B, PERIPHYTON, SPECTRO, MG/M2	7	0	7	0	2	2
32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	7	0	7	0	2	2
32230	CHLOROPHYLL A (MG/L)	3	0	3	0	2	1
32238	CHLOROPHYLL-A,PHYTOPLANKTON,FLUORMETRIC MTH MG/M3	4	4	0	0	1	0
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	105	85	20	0	7	2
34204	ACENAPHTHYLENE WET WGTTISMG/KG	4	0	4	0	2	1
34209	ACENAPHTHENE WET WGTTISMG/KG	4	0	4	0	2	1
34214	ACROLEIN WET WGTTISMG/KG	4	0	4	0	2	1
34219	ACRYLONITRILE WET WGTTISMG/KG	4	0	4	0	2	1
34224	ANTHRACENE WET WGTTISMG/KG	2	0	2	0	1	1
34234	BENZO(B)FLUORANTHENE,TISSUE,WET WGT,MG/KG	4	0	4	0	2	1
34238	BENZENE WET WGTTISMG/KG	4	0	4	0	2	1
34241	BENZIDINE WET WGTTISMG/KG	3	0	3	0	2	1
34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	2	0	2	0	1	1
34251	BENZO-A-PYRENE WET WGTTISMG/KG	4	0	4	0	2	1
34252	BERYLLIUM WET WGTTISMG/KG	4	0	4	0	2	1
34257	B-BHC-BETA DRY WGTBOTUG/KG	1	1	0	0	1	1
34258	B-BHC-BETA WET WGTTISMG/KG	11	7	4	0	5	2
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	2	2	0	0	2	1
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	2	2	0	0	2	1
34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	7	4	3	0	4	1
34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMG/KG	4	0	4	0	2	1
34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMG/KG	4	0	4	0	2	1
34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMG/KG	4	0	4	0	2	1
34291	BROMOFORM WET WGTTISMG/KG	4	0	4	0	2	1
34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	47	29	18	0	6	1
34296	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG	4	0	4	0	2	1
34300	CARBON TETRACHLORIDE WET WGTTISMG/KG	4	0	4	0	2	1
34305	CHLOROBENZENE WET WGTTISMG/KG	4	0	4	0	2	1
34310	CHLORODIBROMOMETHANE WET WGTTISMG/KG	4	0	4	0	2	1
34315	CHLOROETHANE WET WGTTISMG/KG	4	0	4	0	2	1
34319	CHLOROFORM WET WGTTISMG/KG	4	0	4	0	2	1
34324	CHRYSENE WET WGTTISMG/KG	4	0	4	0	2	1
34331	DICHLOROBROMOMETHANE WET WGTTISMG/KG	4	0	4	0	2	1
34335	DICHLORODIFLUOROMETHANE WET WGTTISMG/KG	2	0	2	0	2	1
34336	DIETHYL PHTHALATE TOTWUG/L	47	29	18	0	6	1
34340	DIETHYL PHTHALATE WET WGTTISMG/KG	4	0	4	0	2	1
34341	DIMETHYL PHTHALATE TOTWUG/L	48	29	19	0	7	2
34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	4	0	4	0	2	1
34350	1,2-DIPHENYLHYDRAZINE WET WGTTISMG/KG	4	0	4	0	2	1
34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	8	4	4	0	4	1
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	2	2	0	0	2	1
34360	ENDOSULFAN, BETA WET WGTTISMG/KG	8	4	4	0	4	1
34361	ENDOSULFAN, ALPHA TOTWUG/L	180	142	38	0	9	3
34363	ENDOSULFAN, ALPHA SUSPUG/L	1	0	1	0	1	1
34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	10	6	4	0	4	1
34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	8	4	4	0	4	1
34375	ETHYLBENZENE WET WGTTISMG/KG	4	0	4	0	2	1
34380	FLUORANTHENE WET WGTTISMG/KG	4	0	4	0	2	1
34385	FLUORENE WET WGTTISMG/KG	4	0	4	0	2	1
34390	HEXACHLOROCYCLOPENTADIENE WET WGTTISMG/KG	4	0	4	0	2	1
34395	HEXACHLOROBUTADIENE WET WGTTISMG/KG	4	0	4	0	2	1
34400	HEXACHLOROETHANE WET WGTTISMG/KG	4	0	4	0	2	1
34407	INDENO (1,2,3-CD) PYRENE WET WGTTISMG/KG	4	0	4	0	2	1
34412	ISOPHORONE WET WGTTISMG/KG	4	0	4	0	2	1
34417	METHYL BROMIDE WET WGTTISMG/KG	4	0	4	0	2	1
34422	METHYL CHLORIDE WET WGTTISMG/KG	4	0	4	0	2	1
34427	METHYLENE CHLORIDE WET WGTTISMG/KG	4	0	4	0	2	1
34432	N-NITROSODI-N-PROPYLAMINE WET WGTTISMG/KG	4	0	4	0	2	1
34437	N-NITROSODIPHENYLAMINE WET WGTTISMG/KG	4	0	4	0	2	1
34446	NAPHTHALENE WET WGTTISMG/KG	4	0	4	0	2	1
34451	NITROBENZENE WET WGTTISMG/KG	4	0	4	0	2	1
34456	PARACHLOROMETA CRESOL WET WGTTISMG/KG	4	0	4	0	2	1
34465	PHENANTHRENE WET WGTTISMG/KG	4	0	4	0	2	1
34468	PHENOL WET WGTTISMG/KG	4	0	4	0	2	1
34473	PYRENE WET WGTTISMG/KG	4	0	4	0	2	1
34474	SILVER WET WGTTISMG/KG	3	0	3	0	2	1
34479	TETRACHLOROETHYLENE WET WGTTISMG/KG	4	0	4	0	2	1
34484	TOLUENE WET WGTTISMG/KG	4	0	4	0	2	1

Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Parameter Code	Name	Total Obs	01/01/85 to 10/22/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
34492	TRICHLOROFLUOROMETHANE WET WGTTISMG/KG	2	0	2	0	2	1
34500	1,1-DICHLOROETHANE WET WGTTISMG/KG	4	0	4	0	2	1
34505	1,1-DICHLOROETHYLENE WET WGTTISMG/KG	4	0	4	0	2	1
34510	1,1,1-TRICHLOROETHANE WET WGTTISMG/KG	4	0	4	0	2	1
34515	1,1,2-TRICHLOROETHANE WET WGTTISMG/KG	4	0	4	0	2	1
34520	1,1,2,2-TETRACHLOROETHANE WET WGTTISMG/KG	4	0	4	0	2	1
34525	BENZO(GHI)PERYLENE1,12-BENZOPERYLENWET WGTTISMG/KG	4	0	4	0	2	1
34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET WGTTISMG/KG	2	0	2	0	1	1
34535	1,2-DICHLOROETHANE WET WGTTISMG/KG	4	0	4	0	2	1
34540	1,2-DICHLOROBENZENE WET WGTTISMG/KG	4	0	4	0	2	1
34545	1,2-DICHLOROPROPANE WET WGTTISMG/KG	4	0	4	0	2	1
34550	TRANS-1,2-DICHLOROETHENE, IN TISSUE, WET WT. MG/KG	4	0	4	0	2	1
34555	1,2,4-TRICHLOROBENZENE WET WGTTISMG/KG	4	0	4	0	2	1
34560	1,2,5,6-DIBENZANTHRACENE WET WGTTISMG/KG	4	0	4	0	2	1
34570	1,3-DICHLOROBENZENE WET WGTTISMG/KG	4	0	4	0	2	1
34575	1,4-DICHLOROBENZENE WET WGTTISMG/KG	4	0	4	0	2	1
34580	2-CHLOROETHYL VINYL ETHER WET WGTTISMG/KG	4	0	4	0	2	1
34585	2-CHLORONAPHTHALENE WET WGTTISMG/KG	4	0	4	0	2	1
34590	2-CHLOROPHENOL WET WGTTISMG/KG	4	0	4	0	2	1
34595	2-NITROPHENOL WET WGTTISMG/KG	4	0	4	0	2	1
34596	DI-N-OCTYL PHTHALATE TOTWUG/L	47	29	18	0	6	1
34600	DI-N-OCTYL PHTHALATE WET WGTTISMG/KG	4	0	4	0	2	1
34605	2,4-DICHLOROPHENOL WET WGTTISMG/KG	4	0	4	0	2	1
34610	2,4-DIMETHYLPHENOL WET WGTTISMG/KG	4	0	4	0	2	1
34615	2,4-DINITROTOLUENE WET WGTTISMG/KG	4	0	4	0	2	1
34620	2,4-DINITROPHENOL WET WGTTISMG/KG	4	0	4	0	2	1
34625	2,4,6-TRICHLOROPHENOL WET WGTTISMG/KG	4	0	4	0	2	1
34630	2,6-DINITROTOLUENE WET WGTTISMG/KG	4	0	4	0	2	1
34635	3,3'-DICHLOROBENZIDINE WET WGTTISMG/KG	4	0	4	0	2	1
34640	4-BROMOPHENYL PHENYL ETHER WET WGTTISMG/KG	4	0	4	0	2	1
34645	4-CHLOROPHENYL PHENYL ETHER WET WGTTISMG/KG	4	0	4	0	2	1
34650	4-NITROPHENOL WET WGTTISMG/KG	3	0	3	0	2	1
34661	DNOC (4,6-DINITRO-ORTHO-CRESOL) WET WGTTISMG/KG	4	0	4	0	2	1
34664	PCB - 1221 WET WGTTISMG/KG	7	3	4	0	4	2
34667	PCB - 1232 WET WGTTISMG/KG	6	2	4	0	3	2
34669	PCB - 1248 WET WGTTISMG/KG	10	6	4	0	5	2
34670	PCB - 1260 WET WGTTISMG/KG	11	7	4	0	5	2
34671	PCB - 1016 TOTWUG/L	7	7	0	0	4	1
34674	PCB - 1016 WET WGTTISMG/KG	6	2	4	0	3	2
34679	2,3,7,8-TETRACHLORODIBENZO-P-DIOXINWET WGTTISMG/KG	3	0	3	0	2	1
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	11	7	4	0	5	2
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT.MG/KG	10	7	3	0	5	2
34683	DI-N-BUTYL PHTHALATE,TISSUE,WET WGTWET WGT	4	0	4	0	2	1
34685	ENDRIN WET WGTTISMG/KG	11	7	4	0	5	2
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	11	7	4	0	5	2
34687	HEPTACHLOR WET WGTTISMG/KG	11	7	4	0	5	2
34688	HEXACHLOROBENZENE WET WGTTISMG/KG	7	3	4	0	4	2
34689	PCB - 1242 WET WGTTISMG/KG	10	6	4	0	5	2
34690	PCB - 1254 WET WGTTISMG/KG	11	7	4	0	5	2
34691	TOXAPHENE WET WGTTISMG/KG	10	6	4	0	4	1
34692	TRICHLOROETHYLENE WET WGTTISMG/KG	4	0	4	0	2	1
34693	VINYL CHLORIDE WET WGTTISMG/KG	4	0	4	0	2	1
34698	TRANS-1,3-DICHLOROPROPENEFISH TISSUE WET WGT MG/KG	4	0	4	0	2	1
34703	CIS-1,3-DICHLOROPROPENE FISH TISSUE WET WGT MG/KG	4	0	4	0	2	1
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	120	0	0	120	3	2
38437	DIBROMOCHLOROPROPANE WATER, TOTUG/L	1	1	0	0	1	0
38865	OXAMYL WATER, TOTUG/L	1	1	0	0	1	0
38932	CHLORPYRIFOS, TOTAL RECOVERABLE UG/L	5	5	0	0	2	1
39024	PROPAZINE,COULSON CONDUCTIVITY,WATER SAMPL(UG/L)	2	2	0	0	2	0
39026	STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	133	95	38	0	7	2
39030	TREFLAN, MICROCOULOMETRIC,WATER SAMPLE (UG/L)	2	2	0	0	2	0
39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	149	149	0	0	9	3
39051	METHOMYL IN WHOLE WATER (UG/L)	1	1	0	0	1	0
39053	ALDICARB IN WHOLE WATER (UG/L)	1	1	0	0	1	0
39054	SIMETRYNE IN WHOLE WATER (UG/L)	2	2	0	0	2	0
39055	SIMAZINE IN WHOLE WATER (UG/L)	149	149	0	0	9	2
39056	PROMETONE IN WHOLE WATER (UG/L)	2	2	0	0	2	0
39057	PROMETRYNE IN WHOLE WATER (UG/L)	2	2	0	0	2	0
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	4	0	4	0	2	1
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10	7	3	0	4	2
39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	1	1	0	0	1	1

Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Parameter Code	Name	Total Obs	01/01/85 to 10/22/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10	7	3	0	4	2
39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	1	1	0	0	1	1
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	10	7	3	0	4	2
39070	CHLORDANE-NONACHLOR,CIS ISO BOTTOM DEPOS UG/KG	1	1	0	0	1	1
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	10	7	3	0	4	2
39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	1	1	0	0	1	1
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	11	7	4	0	5	2
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	3	3	0	0	3	2
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	33	33	0	0	1	1
39099	BIS(2-ETHYLHEXYL)PHTHALATE,TISSUE,WET WGT,MG/KG	4	0	4	0	2	1
39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	47	29	18	0	6	1
39105	PERCENT FAT HEXANE EXTRACTION	10	7	3	0	4	2
39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	47	29	18	0	6	1
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	1	0
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	1	1	0	0	1	1
39302	P P DDT IN TISSUE WET WGT (UG/G)	11	7	4	0	5	2
39307	O P DDT IN TISSUE WET WGT (UG/G)	7	4	3	0	3	1
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	1	0
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	1	1	0	0	1	1
39312	P P DDD IN TISSUE WET WGT (UG/G)	11	7	4	0	5	2
39315	O,P' DDD IN WHOLE WATER SAMPLE (UG/L)	67	29	38	0	6	1
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	6	6	0	0	3	1
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	1	1	0	0	1	1
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	11	7	4	0	5	2
39325	O,P DDD IN TISSUE WET WGT (UG/G)	7	4	3	0	3	1
39326	PROPACHLOR(RAMROD) IN SEDIMENT DRY WEIGHT UG/KG	1	1	0	0	1	1
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	7	4	3	0	3	1
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	224	181	39	4	11	4
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	3	3	0	0	3	2
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	15	15	0	0	9	3
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	2	2	0	0	2	1
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	9	5	0	4	3	1
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	3	3	0	0	3	2
39346	METOLACHLOR IN TISSUES WETWTMG/KG	5	5	0	0	3	1
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	229	183	45	1	13	5
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	3	3	0	0	3	2
39356	METOLACHLOR(DUAL) IN WHOLE WATER UG/L	151	151	0	0	11	4
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	4	0	0	4	1	1
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	220	177	39	4	10	4
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	220	177	39	4	10	4
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	223	181	38	4	11	4
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	3	3	0	0	3	2
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	35	35	0	0	7	2
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	2	0	0	2	1
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	224	182	38	4	12	4
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	3	3	0	0	3	2
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	220	182	38	0	11	3
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	2	2	0	0	2	1
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	11	7	4	0	5	2
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	8	4	0	4	2	1
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	1	1	0	0	1	1
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	223	181	38	4	11	4
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	3	3	0	0	3	2
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	218	180	38	0	9	2
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	2	2	0	0	2	1
39482	METHOXYCHLOR IN FISH - UG/KG	2	0	2	0	1	1
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	7	7	0	0	4	1
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	3	3	0	0	3	2
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	7	7	0	0	4	1
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	3	3	0	0	3	2
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	7	7	0	0	4	1
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	3	3	0	0	3	2
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	5	5	0	0	2	0
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	3	3	0	0	3	2
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	7	7	0	0	4	1
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	3	3	0	0	3	2
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	7	7	0	0	4	1
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	3	3	0	0	3	2
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	3	3	0	0	3	2
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	232	175	57	0	7	2
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	4	4	0	0	1	0

Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Parameter Code	Name	Total Obs	01/01/85 to 10/22/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
39534	MALATHION IN TISSUE WET WEIGHT MG/KG	3	0	3	0	1	1
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	2	2	0	0	1	0
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	149	149	0	0	10	4
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	2	2	0	0	1	0
39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)	2	2	0	0	2	0
39631	ATRAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	1	1	0	0	1	1
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39750	SEVIN IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	1	1	0	0	1	0
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	215	177	38	0	9	3
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	11	7	4	0	5	2
48009	LEPOMIS CYANELLUS-GREEN SUNFISH-#/EFFORT	2	0	0	2	2	0
48019	ICTALURUS MELAS-BLACK BULLHEAD-#/EFFORT	1	0	0	1	1	0
48023	NOTROPIS STRAMINEUS-SAND SHINER-#/EFFORT	2	0	0	2	2	0
48024	NOTROPIS DORSALIS-BIGMOUTH SHINER-#/EFFORT	2	0	0	2	2	0
48025	NOTROPIS LUTRENSIS-RED SHINER-#/EFFORT	1	0	0	1	1	0
48027	HYBOGNATHUS HANKINSONI-BRASSY MINNOW-#/EFFORT	2	0	0	2	2	0
48028	PIMEPHALES PROMELAS-FATHEAD MINNOW-#/EFFORT	3	0	0	3	3	0
50050	FLOW, IN CONDUIT OR THRU A TREATMENT PLANT MGD	6	1	5	0	1	0
50060	CHLORINE, TOTAL RESIDUAL (MG/L)	3	2	1	0	2	0
50915	INVALID PARAMETER	1	1	0	0	1	0
60050	ALGAE, TOTAL (CELLS/ML)	191	1	85	105	6	4
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	101	0	0	101	1	1
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	101	0	0	101	1	1
60200	ALGAE, COCCOID GREEN (CELLS/ML)	101	0	0	101	1	1
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	101	0	0	101	1	1
60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	101	0	0	101	1	1
60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	101	0	0	101	1	1
60390	DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	85	0	0	85	1	1
60391	DIATOMS,PERCENT OF TOTAL,SECOND DOMINANT SPECIES	4	0	0	4	1	1
60392	DIATOMS,PERCENT OF TOTAL,THIRD DOMINANT SPECIES	3	0	0	3	1	1
60393	DIATOMS,PERCENT OF TOTAL,FOURTH DOMINANT SPECIES	3	0	0	3	1	1
60394	DIATOMS,PERCENT OF TOTAL,ALL OTHER SPECIES	4	0	0	4	1	1
60400	DIATOMS, CENTRIC (/ML)	101	0	0	101	1	1
60600	DIATOMS, PENNATE (/ML)	101	0	0	101	1	1
60610	DIATOM, INERT SHELLS - CENTRIC (/ML)	9	0	0	9	1	1
60620	DIATOM, INERT SHELLS - PENNATE (/ML)	9	0	0	9	1	1
60820	PROTOZOA, TOTAL (/ML)	22	0	0	22	1	1
60850	ROTIFERS, TOTAL (/LITER)	62	0	0	62	1	1
60900	CRUSTACEA, TOTAL (/LITER)	62	0	0	62	1	1
60950	NEMATODES, TOTAL (/LITER)	61	0	0	61	1	1
60990	ZOOPLANKTON OTHER (/LITER)	61	0	0	61	1	1
61390	DIATOMS,FIRST DOMINANT SPECIES OF UNITS - CODE	4	0	0	4	1	1
61391	DIATOMS,SECOND DOMINANT SPECIES OF UNITS - CODE	4	0	0	4	1	1
61392	DIATOMS,THIRD DOMINANT SPECIES OF UNITS - CODE	3	0	0	3	1	1
61393	DIATOMS,FOURTH DOMINANT SPECIES OF UNITS - CODE	3	0	0	3	1	1
61470	HEPTACHLOR, SLUDGE SOLID FRACTN, DRY WT. UG/KG	2	2	0	0	2	1
61471	HEPTACHLOR SLUDGE TOTAL FRACTION UG/L	2	2	0	0	2	1
61476	P,P'DDT, SLUDGE SOLID FRACTN, DRY WT. UG/KG	2	2	0	0	2	1
61479	P,P'DDE, SLUDGE SOLID FRACTN, DRY WT. UG/KG	2	2	0	0	2	1
61482	P,P'DDD, SLUDGE SOLID FRACTN, DRY WT. UG/KG	2	2	0	0	2	1
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	524	188	207	129	11	5
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	149	3	126	20	7	4
70302	SOLIDS, DISSOLVED-TONS PER DAY	247	0	164	83	4	3
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	248	0	165	83	5	3
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	1	1	0	0	1	1
70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	3	3	0	0	1	1
70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	3	3	0	0	1	1
70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	1	1	0	0	1	1
70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	3	3	0	0	1	1
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	995	38	956	1	7	4
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	2	0	2	0	1	1
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	2	0	2	0	1	1
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	4	0	4	0	3	2
70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	2	0	2	0	1	1
70336	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 2.00MM	2	0	2	0	1	1
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	59	3	48	8	2	2
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	82	3	63	16	3	2
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	24	3	8	13	2	2
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	68	3	48	17	2	2
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	14	0	0	14	1	1

Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Parameter Code	Name	Total Obs	01/01/85 to 10/22/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	1410	7	1355	48	7	5
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	1393	7	1338	48	7	5
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	1387	7	1333	47	7	5
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	1134	7	1089	38	7	5
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	177	0	169	8	5	3
70347	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM	4	0	4	0	3	3
70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	124	10	104	10	5	1
70506	PHOSPHATE,TOT SOL COLORIMETRIC METH (MG/L AS P)	6	0	6	0	2	1
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	791	475	257	59	17	6
70509	PHOSPHORUS,SOLUBLE,BOT. DEPOS.(MG/KG-P DRY WT)	1	0	1	0	1	1
70511	PHOSPHORUS,ORTHO,IN BOTTOM DEPOS.(MG/KG-P DRY WT)	1	0	1	0	1	1
70950	BIOMASS-CHLOROPHYLL RATIO, PERIPHYTON (UNITS)	9	0	9	0	1	1
70955	CHLOROPHYLL-A,PERIDHYTON UG/L,CHROMO-SPECTRO	1	0	1	0	1	1
70956	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-SPECTRO	1	0	1	0	1	1
70957	CHLOROPHYLL-A,PERIPHYTON UG/L,CHROMO-FLUORO	12	0	12	0	1	1
70958	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-FLUORO	12	0	12	0	1	1
71000	COUNT LEVEL OF MOST ABNDNT ALGAE1ST DOMINANT /ML	29	0	25	4	3	2
71001	COUNT LEVEL OF MOST ABNDNT ALGAE2ND DOMINANT /ML	21	0	21	0	2	1
71002	COUNT LEVEL OF MOST ABNDNT ALGAE3RD DOMINANT /ML	15	0	15	0	2	1
71003	COUNT LEVEL OF MOST ABNDNT ALGAE4TH DOMINANT /ML	11	0	11	0	2	1
71004	COUNT LEVEL OF MOST ABNDNT ALGAE5TH DOMINANT /ML	6	0	6	0	2	1
71005	COUNT LEVEL OF MOST ABNDNT ALGAE6TH DOMINANT /ML	5	0	5	0	1	1
71006	COUNT LEVEL OF MOST ABNDNT ALGAE7TH DOMINANT /ML	4	0	4	0	1	1
71007	COUNT LEVEL OF MOST ABNDNT ALGAE8TH DOMINANT /ML	3	0	3	0	1	1
71008	COUNT LEVEL OF MOST ABNDNT ALGAE9TH DOMINANT /ML	2	0	2	0	1	1
71009	COUNT LEVEL OF MOST ABNDNT ALGAE10TH DOMINANT /ML	2	0	2	0	1	1
71010	GENUS OF MOST ABUNDANT ALGAE 1ST DOMINANT /ML	29	0	25	4	3	2
71011	GENUS OF MOST ABUNDANT ALGAE 2ND DOMINANT /ML	21	0	21	0	2	1
71012	GENUS OF MOST ABUNDANT ALGAE 3RD DOMINANT /ML	15	0	15	0	2	1
71013	GENUS OF MOST ABUNDANT ALGAE 4TH DOMINANT /ML	10	0	10	0	2	1
71014	GENUS OF MOST ABUNDANT ALGAE 5TH DOMINANT /ML	6	0	6	0	2	1
71015	GENUS OF MOST ABUNDANT ALGAE 6TH DOMINANT /ML	5	0	5	0	1	1
71016	GENUS OF MOST ABUNDANT ALGAE 7TH DOMINANT /ML	4	0	4	0	1	1
71017	GENUS OF MOST ABUNDANT ALGAE 8TH DOMINANT /ML	3	0	3	0	1	1
71018	GENUS OF MOST ABUNDANT ALGAE 9TH DOMINANT /ML	2	0	2	0	1	1
71019	GENUS OF MOST ABUNDANT ALGAE 10TH DOMINANT /ML	2	0	2	0	1	1
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	56	0	56	0	8	5
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	67	3	50	14	3	3
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	32	0	0	32	1	1
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	39	0	0	39	5	2
71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	33	0	1	32	2	2
71885	IRON (UG/L AS FE)	2	0	0	2	2	1
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	102	7	95	0	3	2
71887	NITROGEN, TOTAL, AS NO3 - MG/L	179	0	156	23	4	3
71890	MERCURY, DISSOLVED (UG/L AS HG)	102	35	63	4	4	2
71895	MERCURY, SUSPENDED (UG/L AS HG)	44	0	41	3	3	2
71900	MERCURY, TOTAL (UG/L AS HG)	452	141	289	22	18	7
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	4	3	1	0	4	3
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	23	19	4	0	8	2
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	8	4	4	0	5	2
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	5	1	4	0	3	1
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	6	2	4	0	4	2
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	6	2	4	0	3	1
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	8	4	4	0	5	2
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	50	0	2	48	2	2
72003	DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT)	29	0	28	1	4	2
72030	ELEVATION OF RESERVOIR POOL (FT ABOVE MSL)	82	0	81	1	4	2
72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	19	19	0	0	11	0
73151	DIAZINON, DRY WEIGHT, SEDIMENT UG/KG	1	1	0	0	1	1
73365	BETA-BHC, DRY WEIGHT, REGOLITH UG/KG	2	2	0	0	2	1
74010	IRON, TOTAL (MG/L AS FE)	72	6	51	15	4	1
74069	FLOW, ESTIMATED STREAM CFS	1	0	1	0	1	1
77729	RAMROD WHOLE WATER,UG/L	140	140	0	0	7	2
77825	ALACHLOR WHOLE WATER,UG/L	155	155	0	0	12	3
77900	1ALPHA-(METHOXYMETHYL)-7ALPHA,8AL*WHOLE WATER,UG/L	1	0	1	0	1	1
78211	ENDRIN KETONE IN FISH TISSUE WETWTMG/KG	4	4	0	0	2	0
78410	ARSENIC SEDWETWTMG/KG	2	2	0	0	2	0
78412	CADMIUM SEDWETWTMG/KG	2	2	0	0	2	0
78414	COPPER SEDWETWTMG/KG	2	2	0	0	2	0
78415	LEAD SEDWETWTMG/KG	2	2	0	0	2	0
78416	MERCURY SEDWETWTMG/KG	2	2	0	0	2	0

Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Parameter Code	Name	Total Obs	01/01/85 to 10/22/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
78417	NICKEL SEDWETWTMG/KG	2	2	0	0	2	0
78418	SELENIUM SEDWETWTMG/KG	2	2	0	0	2	0
78421	ZINC SEDWETWTMG/KG	2	2	0	0	2	0
78422	ALDRIN SEDWETWTMG/KG	2	2	0	0	2	0
78423	DIELDRIN SEDWETWTMG/KG	2	2	0	0	2	0
78424	CHLORDANE SEDWETWTMG/KG	2	2	0	0	2	0
78426	4,4'-DDE SEDWETWTMG/KG	2	2	0	0	2	0
78427	4,4'-DDD SEDWETWTMG/KG	2	2	0	0	2	0
78431	ENDRIN SEDWETWTMG/KG	2	2	0	0	2	0
78433	HEPTACHLOR • SEDWETWTMG/KG	2	2	0	0	2	0
78434	HEPTACHLOR EPOXIDE SEDWETWTMG/KG	2	2	0	0	2	0
78438	GAMMA-BHC(LINDANE) SEDWETWTMG/KG	2	2	0	0	2	0
78439	PCB-1242 SEDWETWTMG/KG	2	2	0	0	2	0
78440	PCB-1254 SEDWETWTMG/KG	2	2	0	0	2	0
78441	PCB-1221 SEDWETWTMG/KG	2	2	0	0	2	0
78442	PCB-1232 SEDWETWTMG/KG	2	2	0	0	2	0
78443	PCB-1248 SEDWETWTMG/KG	2	2	0	0	2	0
78444	PCB-1260 SEDWETWTMG/KG	2	2	0	0	2	0
78446	PCB-1016 SEDWETWTMG/KG	2	2	0	0	2	0
78447	TOXAPHENE SEDWETWTMG/KG	2	2	0	0	2	0
78450	DISULFOTON SEDWETWTMG/KG	1	1	0	0	1	1
78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	2	2	0	0	2	1
78458	CHLORDENE, BETA-, FISH TISSUE, WET WEIGHT, MG/KG	2	2	0	0	2	1
78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	2	2	0	0	2	1
78871	OXYCHLORDANE IN SEDIMENT DRY WEIGHT UG/KG	1	1	0	0	1	1
79006	CHLORDENE IN FISH UG/KG	2	2	0	0	2	1
79792	CHLORPYRIFOS SEDIMENT,DRY,WT,UG/KG	1	1	0	0	1	1
80114	COLOR, CONCENTRATION AT WAVE LENGTH IN MG/L	5	0	0	5	1	1
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	1549	46	1450	53	9	5
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	187	0	134	53	6	4
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	124	0	101	23	6	3
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	261	0	228	33	6	3
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	279	0	246	33	6	3
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	280	0	247	33	6	3
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	261	0	228	33	6	3
80163	BED MATERIAL FALL DIAMETER, % FINER THAN 2.00MM	9	0	9	0	3	2
80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	9	0	9	0	1	0
80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	16	0	16	0	2	1
80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	15	0	15	0	1	0
80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	15	0	15	0	1	0
80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	15	0	15	0	1	0
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	257	0	233	24	7	3
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	216	0	200	16	7	3
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	156	0	151	5	6	3
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	116	0	113	3	5	3
80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	50	0	50	0	4	2
80886	CYANAZINE (BLADEX), TISSUE, WET WEIGHT MG/KG	4	4	0	0	2	0
81283	BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	201	162	39	0	7	2
81284	TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	57	57	0	0	9	3
81294	DYFONATE(CU/H15OPS2) WHOLE WATER SAMPLE UG/L	2	2	0	0	1	0
81403	DURSBAN(CHLOROPYRIFOS)WHOLE WATER SAMPLE (UG/L)	2	2	0	0	1	0
81405	CARBOFURAN (EURADAN) WHOLE WATER SAMPLE UG/L	1	1	0	0	1	0
81408	METRIBUZIN (SENCOR), WATER, WHOLE UG/L	142	142	0	0	8	2
81410	BUTYLATE (SUTAN),WHOLE WATER SAMPLE,UG/L	2	2	0	0	1	0
81522	DIBROMOETHANE WHL WATER SMPL UG/L	1	1	0	0	1	0
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	26	22	4	0	8	2
81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	11	7	4	0	5	2
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	5	4	1	0	3	1
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	3	0	3	0	1	1
81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG	6	6	0	0	3	1
81655	CALCIUM IN FISH TISSUE WET WEIGHT MG/KG	1	0	1	0	1	0
81656	MAGNESIUM IN FISH TISSUE WET WEIGHT MG/KG	4	0	4	0	2	1
81658	BARIUM IN FISH TISSUE WET WEIGHT MG/KG	7	3	4	0	4	2
81659	COBALT IN FISH TISSUE WET WEIGHT MG/KG	3	1	2	0	2	1
81660	IRON IN FISH TISSUE WET WEIGHT MG/KG	4	0	4	0	2	1
81662	MOLYBDENUM IN FISH TISSUE WET WEIGHT MG/KG	3	1	2	0	2	1
81664	TITANIUM IN FISH TISSUE WET WEIGHT MG/KG	1	0	1	0	1	1
81665	VANADIUM IN FISH TISSUE WET WEIGHT MG/KG	3	1	2	0	2	1
81666	ALUMINUM IN FISH TISSUE WET WEIGHT MG/KG	4	0	4	0	2	1
81741	MANGANESE IN FISH TISSUE WET WEIGHT MG/KG	4	0	4	0	2	1
81742	SILVER IN FISH TISSUE WET WEIGHT (MG/KG)PPM	1	0	1	0	1	1

Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Parameter Code	Name	Total Obs	01/01/85 to 10/22/97	01/01/75 to 12/31/84	Before 01/01/75	Stations Total	Stations Park
81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	4	4	0	0	3	0
81801	DDT IN SEDIMENT,TOTAL WEIGHT,WET WEIGHT MG/KG	2	2	0	0	2	0
81802	GUTHION IN FISH TISSUE,WET WEIGHT MG/KG	3	0	3	0	1	1
81806	DIAZINON IN FISH TISSUE WET WEIGHT, MG/KG	1	1	0	0	1	1
81807	DURSBAN IN FISH TISSUE WET WEIGHT MG/KG	4	1	3	0	2	2
81810	PARATHION IN FISH TISSUE WET WEIGHT MG/KG	3	0	3	0	1	1
81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	2	2	0	0	2	1
81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	1075	6	1069	0	6	2
81904	STREAM VELOCITY, POINT, IN FEET PER SECOND	1289	0	1289	0	4	2
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	7	7	0	0	4	2
82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	54	54	0	0	7	2
82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	9	0	9	0	2	2
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	3508	3508	0	0	2	2
82088	TERBUFOS (COUNTER) TOTAL WHOLE WATER,UG/L	2	2	0	0	1	0
82131	ICE, THICKNESS IN METERS	19	19	0	0	3	0
82184	AMETRYNE (GESAPAX OR EVIK) TOTAL UG/L	2	2	0	0	2	0
82398	SAMPLING METHOD (CODES)	60	0	59	1	2	2
82401	DEMETON IN FISH TISSUE (SYSTOX) WET WEIGHT MG/KG	3	0	3	0	1	1
82403	PROMETON IN FISH TISSUE (PRAMITOL)WET WEIGHT MG/KG	3	0	3	0	1	1
82404	ATRAZINE IN FISH TISSUE WET WEIGHT MG/KG	7	4	3	0	3	1
82405	METRIBUZIN (SENCOR), TISSUE, WET WEIGHT MG/KG	3	0	3	0	1	1
82406	SIMAZINE IN FISH TISSUE (PRINCEP)WET WEIGHT MG/KG	3	0	3	0	1	1
82407	FONOFOS IN FISH TISSUE (DYFONATE) WET WEIGHT MG/KG	3	0	3	0	1	1
82411	PENOXALIN IN FISH TISSUE (PROWL) WET WEIGHT MG/KG	3	0	3	0	1	1
82413	TRICHLORFON IN FISH TISSUE(DYLOX) WET WEIGHT MG/KG	2	0	2	0	1	1
82416	PARAQUAT IN WHOLE WATER TOTAL UG/L	1	1	0	0	1	0
82419	CIS-PERMETHRIN IN FISH TISSUE WET WEIGHT MG/KG	3	0	3	0	1	1
82422	TRANS-PERMETHRIN IN FISH TISSUE WET WEIGHT MG/KG	3	0	3	0	1	1
82488	LEAD,TOTAL RECOVERABLE FROM DRY DEPOSITION (UG/KG)	1	1	0	0	1	1
82533	PROPAZINE IN FISH TISSUE WET WEIGHT MG/KG	3	0	3	0	1	1
82571	ALACHLOR(LASSO) IN TISSUE MG/KG	6	6	0	0	3	1
82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	8	8	0	0	8	1
82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE UG/L	2	2	0	0	2	0
82655	FISH LENGTH, TOTAL CM	77	77	0	0	5	1
82656	FISH, WHOLE, WET WEIGHT GRAM	77	77	0	0	5	1
83501	SAMPLE, DURATION HOURS	56	49	7	0	17	3
83516	SUBSTRATE, BEDROCK, SOLID ROCK %	4	4	0	0	3	0
83542	SUBSTRATE, COBBLE 256-64 MM %	3	3	0	0	2	0
83544	SUBSTRATE, GRAVEL 16-2 MM %	20	19	1	0	9	1
83545	SUBSTRATE, SAND 2.000-0.062 MM %	48	43	5	0	17	1
83546	SUBSTRATE, SILT 0.062-0.004 MM %	21	21	0	0	11	1
83547	SUBSTRATE,CLAY/FINE PART. ORG MATR .004-.00024MM,%	6	6	0	0	4	0
83548	SUBSTRATE,DETRITUS/COARSE PARTICULATE ORG MATTER,%	4	4	0	0	3	1
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)	5	1	1	3	5	1
84001	AQUIFER NAME CODE (SEE USGS CATALOG)	5	1	1	3	5	1
84014	SPECIES SEX CODE	2	0	2	0	1	1
84015	AGE IN YEARS OF SPECIMEN COLLECTED YEARS	15	0	15	0	1	1
84068	SERIES CODE ALPHA-NUMERIC CODE	24	24	0	0	7	2
84132	STREAMBANK, VEGETATIVE STABILITY RATING CODE	23	23	0	0	14	1
84133	STREAMBANK, STABILITY (BANK EROSION) RATING CODE	42	42	0	0	16	1
84150	HABITAT QUALITY INDEX RATING CODE	11	11	0	0	7	0
84151	AQUATIC LIFE, USE CLASSES CODE	36	36	0	0	15	1
84152	STREAM, STAGE CLASS CODE	41	41	0	0	16	1
84153	STREAMBANKS, GRAZING DAMAGE CODE	30	30	0	0	15	1
84154	CHANNEL, MAJOR ALTERATIONS CODE	41	41	0	0	16	1
84155	RIFFLE/RUNS, OCCURANCE CODE	28	28	0	0	14	1
84156	POOL, DESCRIPTION CODE	27	27	0	0	13	0
84157	SANDBARS, LARGE, OCCURANCE CODE	8	8	0	0	4	0
84158	LAND USE, NEAR STREAM, PREDOMINANT CODE	30	30	0	0	15	1
84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH).CODE	28	28	0	0	14	1
84160	STREAM, DEGRADATION RATING CODE	40	40	0	0	15	0
84161	STREAM, ORDER CODE	37	37	0	0	16	1
84163	FLOW, STREAM, CLASSIFICATION CODE	37	37	0	0	13	0

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0001	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/07/76-08/30/79	2	375	
MNRR0002	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/18/79-10/22/81	2	300	
MNRR0008	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/06/90-08/30/95	5	3	
MNRR0010	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/28/94-09/28/94	0	2	
MNRR0011	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/17/79-10/21/81	2	311	
MNRR0012	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/26/92-10/22/97	4	57	
MNRR0014	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/23/91-07/23/91	0	2	
MNRR0016	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/10/85-09/19/95	10	6	
MNRR0019	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/29/94-09/29/94	0	1	
MNRR0020	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/16/79-10/20/81	2	302	
MNRR0021	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/10/85-09/29/94	9	4	
MNRR0025	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/18/82-10/02/97	14	511	
MNRR0031	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/08/95-07/16/96	0	2	
MNRR0040	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/22/75-10/02/97	22	244	
MNRR0042	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/18/82-10/02/97	14	473	
MNRR0044	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/06/88-10/06/88	0	1	
MNRR0048	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/12/76-10/02/97	21	1259	
MNRR0049	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/29/94-09/07/95	0	3	
MNRR0050	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/11/85-07/25/90	4	4	
MNRR0052	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/29/94-09/29/94	0	2	
MNRR0055	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/28/82-10/10/96	14	409	
MNRR0056	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/11/92-03/11/92	0	1	
MNRR0057	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/11/85-09/29/94	9	4	
MNRR0059	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/25/90-09/19/95	5	3	
MNRR0064	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/11/85-09/07/95	9	4	
MNRR0065	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	09/30/94-09/30/94	0	1	
MNRR0068	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	03/11/92-03/11/92	0	1	
MNRR0069	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/12/89-07/12/89	0	2	
MNRR0070	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	07/12/89-07/12/89	0	2	
MNRR0076	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/09/87-06/17/87	0	2	
MNRR0082	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	02/10/76-08/04/81	5	28	
MNRR0084	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	05/13/81-08/20/92	11	9	
MNRR0086	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	10/04/73-10/04/73	0	1	
MNRR0087	No	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	06/09/87-10/11/95	8	4	
MNRR0103	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	01/21/75-08/26/97	22	134	
MNRR0109	Yes	00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	04/13/76-08/26/97	21	1235	
MNRR0001	No	00004	STREAM WIDTH (FEET)	10/07/76-04/27/78	1	5	
MNRR0002	No	00004	STREAM WIDTH (FEET)	10/18/79-08/21/80	0	172	
MNRR0008	No	00004	STREAM WIDTH (FEET)	06/06/90-06/06/90	0	2	
MNRR0010	No	00004	STREAM WIDTH (FEET)	09/28/94-09/28/94	0	2	
MNRR0011	Yes	00004	STREAM WIDTH (FEET)	10/17/79-08/20/80	0	161	
MNRR0016	No	00004	STREAM WIDTH (FEET)	09/10/85-09/07/95	9	5	
MNRR0020	Yes	00004	STREAM WIDTH (FEET)	10/16/79-08/19/80	0	169	
MNRR0021	No	00004	STREAM WIDTH (FEET)	09/10/85-09/29/94	9	4	
MNRR0031	No	00004	STREAM WIDTH (FEET)	09/08/95-07/16/96	0	2	
MNRR0049	No	00004	STREAM WIDTH (FEET)	09/29/94-09/07/95	0	3	
MNRR0050	No	00004	STREAM WIDTH (FEET)	09/11/85-07/25/90	4	4	
MNRR0052	No	00004	STREAM WIDTH (FEET)	09/29/94-09/29/94	0	2	
MNRR0057	No	00004	STREAM WIDTH (FEET)	09/11/85-09/29/94	9	4	
MNRR0059	No	00004	STREAM WIDTH (FEET)	07/25/90-07/25/90	0	2	
MNRR0064	No	00004	STREAM WIDTH (FEET)	09/11/85-09/07/95	9	4	
MNRR0076	No	00004	STREAM WIDTH (FEET)	06/09/87-06/17/87	0	2	
MNRR0087	No	00004	STREAM WIDTH (FEET)	06/09/87-10/11/95	8	4	
MNRR0006	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	09/18/96-09/18/96	0	3	
MNRR0018	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	09/18/96-09/18/96	0	6	
MNRR0029	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	09/23/64-09/29/67	3	4	
MNRR0043	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	10/06/88-09/09/96	7	4	
MNRR0051	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	06/02/94-03/26/97	2	4	
MNRR0060	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/16/68-08/07/71	3	5	
MNRR0061	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	09/18/96-09/18/96	0	3	
MNRR0066	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/16/68-08/07/71	3	7	
MNRR0067	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	08/21/80-08/21/80	0	1	
MNRR0071	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/16/68-08/07/71	3	7	
MNRR0072	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	04/11/61-12/07/71	10	91	
MNRR0073	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/08/94-07/08/94	0	3	
MNRR0079	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/16/68-12/06/71	3	45	
MNRR0083	Yes	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	10/26/82-08/20/92	9	3	
MNRR0085	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	05/16/68-08/07/71	3	7	
MNRR0095	No	00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	07/26/88-09/10/91	3	4	
MNRR0001	No	00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)	10/07/76-08/30/79	2	389	
MNRR0002	No	00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)	10/18/79-10/22/81	2	359	
MNRR0011	Yes	00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)	10/17/79-10/21/81	2	360	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0020	Yes	00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)	10/16/79-10/20/81	2	356	
MNRR0086	Yes	00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)	03/31/94-03/31/94	0	1	
MNRR0001	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/76-08/30/79	2	33	
MNRR0002	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/79-10/22/81	2	11	
MNRR0007	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/29/73-11/29/77	4	32	
MNRR0008	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/06/90-06/06/90	0	2	
MNRR0010	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/28/94-09/28/94	0	2	
MNRR0011	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/17/79-10/21/81	2	11	
MNRR0012	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	22	146	
MNRR0013	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/20/66-03/27/67	0	3	
MNRR0015	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/05/89-10/18/89	0	3	
MNRR0016	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/10/85-09/07/95	9	5	
MNRR0017	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/29/73-11/29/77	4	29	
MNRR0020	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/16/79-10/20/81	2	11	
MNRR0021	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/10/85-09/29/94	9	4	
MNRR0022	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/22/80-10/22/80	0	1	
MNRR0025	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/02/97	14	353	
MNRR0026	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/30/69-08/31/95	26	282	
MNRR0027	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/01/88-09/30/97	9	3516	
MNRR0029	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/57-08/28/75	17	794	
MNRR0030	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/29/73-11/29/77	4	26	
MNRR0031	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/08/95-07/16/96	0	2	
MNRR0032	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/17/77-04/14/87	9	6	
MNRR0033	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/18/89-02/20/90	0	3	
MNRR0034	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/18/89-10/30/89	0	2	
MNRR0035	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/27/89-08/01/89	0	2	
MNRR0036	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/27/89-08/01/89	0	2	
MNRR0037	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/82-02/10/97	14	4176	
MNRR0038	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/12/76-09/20/77	1	21	
MNRR0040	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	27	205	
MNRR0042	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/18/83-10/02/97	14	338	
MNRR0046	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/28/79-07/28/79	0	3	
MNRR0048	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	21	1049	
MNRR0049	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/29/94-09/07/95	0	3	
MNRR0050	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/11/85-07/25/90	4	4	
MNRR0052	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/29/94-09/29/94	0	2	
MNRR0053	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/10/93-02/23/95	1	3	
MNRR0055	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/28/82-10/10/96	14	286	
MNRR0057	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/11/85-09/29/94	9	4	
MNRR0058	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/23/90-04/23/90	0	1	
MNRR0059	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/25/90-07/25/90	0	2	
MNRR0060	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-11/29/77	9	42	
MNRR0063	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/02/85-04/23/90	5	2	
MNRR0064	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/11/85-09/07/95	9	4	
MNRR0066	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-11/26/73	5	15	
MNRR0069	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/12/89-07/12/89	0	2	
MNRR0070	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/12/89-07/12/89	0	2	
MNRR0071	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-11/15/77	9	29	
MNRR0072	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/61-12/21/80	19	201	
MNRR0073	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/94-07/08/94	0	1	
MNRR0076	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/87-06/09/87	0	1	
MNRR0077	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/20/82-09/12/96	13	163	
MNRR0079	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-11/15/77	9	95	
MNRR0080	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/29/70-06/24/80	9	51	
MNRR0082	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/06/70-08/04/81	11	74	
MNRR0084	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/13/81-05/13/81	0	1	
MNRR0085	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/16/68-04/13/93	24	49	
MNRR0086	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/21/71-08/24/94	22	344	
MNRR0087	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/09/87-10/11/95	8	3	
MNRR0088	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/21/78-04/26/78	0	2	
MNRR0090	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/19/78-06/19/79	0	2	
MNRR0096	No	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/29/70-10/29/70	0	1	
MNRR0099	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/12/69-09/12/69	0	1	
MNRR0103	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/20/70-08/26/97	27	116	
MNRR0105	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/08/76-03/18/81	5	38	
MNRR0107	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/74-09/10/86	11	81	
MNRR0108	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/28/83-05/01/97	14	1519	
MNRR0109	Yes	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/13/76-08/26/97	21	1005	
MNRR0009	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	07/14/72-07/14/72	0	1	
MNRR0012	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	28	180	T,S
MNRR0023	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	07/31/72-07/31/72	0	1	
MNRR0024	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	07/13/72-07/13/72	0	1	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0029	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	03/02/72-03/30/72	0	5	
MNRR0037	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/07/79-04/25/82	2	788	
MNRR0038	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	09/23/75-09/20/77	1	25	
MNRR0040	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/14/71-11/15/71	0	7	
MNRR0046	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	11/21/78-07/28/79	0	4	
MNRR0054	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	07/12/72-07/12/72	0	1	
MNRR0081	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	07/17/72-07/17/72	0	1	
MNRR0082	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/14/71-11/15/71	0	8	
MNRR0090	No	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/19/78-06/19/79	0	2	
MNRR0103	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	05/04/65-12/31/75	10	7001	
MNRR0105	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	09/22/75-11/16/81	6	44	
MNRR0108	Yes	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	04/23/79-11/16/81	2	1187	
MNRR0002	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/24/80-10/22/81	1	10	
MNRR0007	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/29/73-11/29/77	4	30	
MNRR0011	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/04/80-10/21/81	1	9	
MNRR0012	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	20	143	
MNRR0015	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/05/89-10/18/89	0	3	
MNRR0017	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/29/73-11/29/77	4	28	
MNRR0020	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/22/80-10/20/81	1	10	
MNRR0025	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/18/82-10/02/97	14	87	
MNRR0026	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/21/71-08/31/95	24	247	
MNRR0030	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	11/29/73-11/29/77	4	25	
MNRR0035	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/27/89-08/01/89	0	2	
MNRR0036	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/27/89-08/01/89	0	2	
MNRR0038	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/12/76-09/20/77	1	20	
MNRR0040	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	26	181	
MNRR0042	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/18/83-10/02/97	14	75	
MNRR0046	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/28/79-07/28/79	0	3	
MNRR0048	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/12/76-10/02/97	21	135	
MNRR0053	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/10/93-04/20/95	2	4	
MNRR0055	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/28/82-10/10/96	14	69	
MNRR0058	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/23/90-04/23/90	0	1	
MNRR0060	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/30/68-11/29/77	9	40	
MNRR0063	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/02/85-04/23/90	5	2	
MNRR0066	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/30/68-11/26/73	5	14	
MNRR0071	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/30/68-11/15/77	9	26	
MNRR0072	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/22/68-05/30/78	9	116	
MNRR0077	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/20/82-09/12/96	13	163	
MNRR0079	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/22/68-11/15/77	9	101	
MNRR0080	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/16/75-06/24/80	4	52	
MNRR0082	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/13/70-08/04/81	11	70	
MNRR0085	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	08/30/68-06/07/73	4	9	
MNRR0086	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	06/20/73-08/24/94	21	180	
MNRR0090	No	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	12/19/78-06/19/79	0	2	
MNRR0103	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/13/70-08/26/97	27	114	
MNRR0105	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	02/12/76-03/18/81	5	37	
MNRR0107	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/02/83-09/10/86	3	21	
MNRR0109	Yes	00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/13/76-08/26/97	21	121	
MNRR0009	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	07/14/72-07/14/72	0	1	
MNRR0012	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	23	182	
MNRR0023	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	07/31/72-07/31/72	0	1	
MNRR0024	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	07/13/72-07/13/72	0	1	
MNRR0038	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/23/75-09/20/77	1	24	
MNRR0046	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	11/21/78-07/28/79	0	4	
MNRR0054	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	07/12/72-07/12/72	0	1	
MNRR0081	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	07/17/72-07/17/72	0	1	
MNRR0090	No	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	12/19/78-06/19/79	0	2	
MNRR0105	Yes	00021	TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/22/75-11/16/81	6	43	
MNRR0043	No	00023	SAMPLE WEIGHT IN POUNDS	10/06/88-10/06/88	0	3	
MNRR0067	No	00023	SAMPLE WEIGHT IN POUNDS	08/21/80-08/21/80	0	5	
MNRR0083	Yes	00023	SAMPLE WEIGHT IN POUNDS	09/22/81-08/21/83	1	29	
MNRR0095	No	00023	SAMPLE WEIGHT IN POUNDS	09/10/91-09/10/91	0	5	
MNRR0043	No	00024	SAMPLE LENGTH IN INCHES	10/06/88-10/06/88	0	3	
MNRR0067	No	00024	SAMPLE LENGTH IN INCHES	08/21/80-08/21/80	0	5	
MNRR0083	Yes	00024	SAMPLE LENGTH IN INCHES	09/22/81-08/21/83	1	29	
MNRR0095	No	00024	SAMPLE LENGTH IN INCHES	09/10/91-09/10/91	0	5	
MNRR0015	No	00025	BAROMETRIC PRESSURE (MM OF HG)	10/18/89-10/18/89	0	1	
MNRR0040	No	00025	BAROMETRIC PRESSURE (MM OF HG)	10/20/80-09/29/81	0	9	
MNRR0048	No	00025	BAROMETRIC PRESSURE (MM OF HG)	04/23/80-10/07/81	1	13	
MNRR0058	No	00025	BAROMETRIC PRESSURE (MM OF HG)	04/23/90-04/23/90	0	1	
MNRR0063	No	00025	BAROMETRIC PRESSURE (MM OF HG)	04/02/85-04/23/90	5	2	
MNRR0086	Yes	00025	BAROMETRIC PRESSURE (MM OF HG)	11/03/82-08/24/94	11	102	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0103	Yes	00025	BAROMETRIC PRESSURE (MM OF HG)	01/26/81-01/26/81	0	1	
MNRR0107	Yes	00025	BAROMETRIC PRESSURE (MM OF HG)	05/02/83-09/10/86	3	21	
MNRR0109	Yes	00025	BAROMETRIC PRESSURE (MM OF HG)	04/23/80-10/07/81	1	11	
MNRR0002	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/22/81-10/22/81	0	34	
MNRR0011	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/21/81-10/21/81	0	34	
MNRR0013	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/20/66-03/27/67	0	3	
MNRR0015	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	04/05/89-10/18/89	0	3	
MNRR0020	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/20/81-10/20/81	0	32	
MNRR0026	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/01/56-08/31/95	38	215	
MNRR0029	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	08/06/73-08/06/73	0	1	
MNRR0039	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	11/27/84-11/29/84	0	2	
MNRR0053	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	03/10/93-04/20/95	2	4	
MNRR0058	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	04/23/90-04/23/90	0	1	
MNRR0063	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	04/02/85-04/23/90	5	2	
MNRR0077	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	10/20/82-09/12/96	13	166	
MNRR0078	No	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	01/15/69-01/15/69	0	1	
MNRR0086	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	01/29/75-08/24/94	19	150	
MNRR0099	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	09/12/69-09/12/69	0	1	
MNRR0107	Yes	00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	12/10/74-09/10/86	11	65	
MNRR0002	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/22/81-10/22/81	0	34	
MNRR0011	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/21/81-10/21/81	0	34	
MNRR0012	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/11/68-10/22/97	28	196	
MNRR0013	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/20/66-03/27/67	0	3	
MNRR0015	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/05/89-10/18/89	0	3	
MNRR0020	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/20/81-10/20/81	0	32	
MNRR0022	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/22/80-10/22/80	0	1	
MNRR0026	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/01/56-08/31/95	38	215	
MNRR0038	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/23/75-09/20/77	1	25	
MNRR0039	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	11/27/84-11/29/84	0	2	
MNRR0053	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	03/10/93-04/20/95	2	4	
MNRR0058	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/23/90-04/23/90	0	1	
MNRR0063	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	04/02/85-04/23/90	5	2	
MNRR0077	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	10/20/82-09/12/96	13	166	
MNRR0078	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	01/15/69-01/15/69	0	1	
MNRR0080	No	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	07/12/78-06/24/80	1	22	
MNRR0086	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	01/29/75-08/24/94	19	183	
MNRR0099	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/12/69-09/12/69	0	1	
MNRR0105	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	09/22/75-11/16/81	6	46	
MNRR0107	Yes	00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	12/10/74-09/10/86	11	91	
MNRR0007	No	00032	CLOUD COVER (PERCENT)	11/29/73-12/15/76	3	23	
MNRR0017	No	00032	CLOUD COVER (PERCENT)	11/29/73-12/15/76	3	21	
MNRR0025	No	00032	CLOUD COVER (PERCENT)	10/18/82-08/06/97	14	84	
MNRR0030	No	00032	CLOUD COVER (PERCENT)	11/29/73-12/14/76	3	21	
MNRR0040	No	00032	CLOUD COVER (PERCENT)	02/09/76-08/06/97	21	144	
MNRR0042	No	00032	CLOUD COVER (PERCENT)	05/18/83-08/06/97	14	73	
MNRR0048	No	00032	CLOUD COVER (PERCENT)	04/12/76-08/06/97	21	132	
MNRR0055	No	00032	CLOUD COVER (PERCENT)	06/28/82-08/05/96	14	68	
MNRR0060	No	00032	CLOUD COVER (PERCENT)	05/27/70-12/14/76	6	31	
MNRR0066	No	00032	CLOUD COVER (PERCENT)	05/27/70-11/26/73	3	9	
MNRR0071	No	00032	CLOUD COVER (PERCENT)	05/27/70-10/19/76	6	19	
MNRR0072	No	00032	CLOUD COVER (PERCENT)	10/15/69-12/14/76	7	79	
MNRR0079	No	00032	CLOUD COVER (PERCENT)	10/14/69-12/07/76	7	68	
MNRR0082	Yes	00032	CLOUD COVER (PERCENT)	04/08/76-08/04/81	5	24	
MNRR0085	No	00032	CLOUD COVER (PERCENT)	05/27/70-06/07/73	3	6	
MNRR0103	Yes	00032	CLOUD COVER (PERCENT)	04/08/76-08/26/97	21	73	
MNRR0109	Yes	00032	CLOUD COVER (PERCENT)	04/13/76-08/26/97	21	122	
MNRR0007	No	00035	WIND VELOCITY (MILES PER HOUR)	07/09/75-07/09/75	0	1	
MNRR0025	No	00035	WIND VELOCITY (MILES PER HOUR)	10/18/82-10/02/97	14	85	
MNRR0040	No	00035	WIND VELOCITY (MILES PER HOUR)	10/27/76-10/02/97	20	136	
MNRR0042	No	00035	WIND VELOCITY (MILES PER HOUR)	05/18/83-10/02/97	14	73	
MNRR0048	No	00035	WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	20	127	
MNRR0055	No	00035	WIND VELOCITY (MILES PER HOUR)	06/28/82-10/10/96	14	69	
MNRR0071	No	00035	WIND VELOCITY (MILES PER HOUR)	05/16/75-05/16/75	0	1	
MNRR0079	No	00035	WIND VELOCITY (MILES PER HOUR)	06/09/75-07/09/75	0	2	
MNRR0082	Yes	00035	WIND VELOCITY (MILES PER HOUR)	04/26/77-08/04/81	4	21	
MNRR0103	Yes	00035	WIND VELOCITY (MILES PER HOUR)	10/26/76-07/14/97	20	67	
MNRR0109	Yes	00035	WIND VELOCITY (MILES PER HOUR)	09/21/76-07/14/97	20	113	
MNRR0025	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	10/18/82-10/02/97	14	75	
MNRR0040	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	10/27/76-10/02/97	20	129	
MNRR0042	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	05/18/83-10/02/97	14	68	
MNRR0048	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	09/20/76-08/06/97	20	120	
MNRR0055	No	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	06/28/82-10/10/96	14	68	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0082	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)		04/26/77-08/04/81	4	21	
MNRR0103	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)		10/26/76-07/14/97	20	69	
MNRR0109	Yes	00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)		09/21/76-07/14/97	20	107	
MNRR0071	No	00040	WIND DIRECTION, AZIMUTH		10/28/75-10/28/75	0	1	
MNRR0082	Yes	00040	WIND DIRECTION, AZIMUTH		07/21/76-07/21/76	0	1	
MNRR0026	Yes	00049	SURFACE AREA IN SQUARE MILES		10/01/56-09/23/59	2	48	
MNRR0086	Yes	00049	SURFACE AREA IN SQUARE MILES		07/08/75-08/01/75	0	2	
MNRR0107	Yes	00049	SURFACE AREA IN SQUARE MILES		10/27/77-01/30/79	1	13	
MNRR0001	No	00055	VELOCITY, STREAM	FT/SEC	10/07/76-08/30/79	2	374	
MNRR0013	No	00060	FLOW, STREAM, MEAN DAILY	CFS	10/20/66-03/27/67	0	3	
MNRR0026	Yes	00060	FLOW, STREAM, MEAN DAILY	CFS	10/01/56-12/12/73	17	100	
MNRR0029	Yes	00060	FLOW, STREAM, MEAN DAILY	CFS	12/16/57-09/30/68	10	542	
MNRR0030	No	00060	FLOW, STREAM, MEAN DAILY	CFS	01/13/76-09/21/77	1	6	
MNRR0040	No	00060	FLOW, STREAM, MEAN DAILY	CFS	02/09/76-01/31/79	2	27	
MNRR0048	No	00060	FLOW, STREAM, MEAN DAILY	CFS	06/06/78-09/01/78	0	2	
MNRR0060	No	00060	FLOW, STREAM, MEAN DAILY	CFS	05/16/68-09/21/77	9	40	
MNRR0071	No	00060	FLOW, STREAM, MEAN DAILY	CFS	02/18/75-10/28/75	0	2	
MNRR0072	No	00060	FLOW, STREAM, MEAN DAILY	CFS	04/11/61-12/21/80	19	204	A
MNRR0079	No	00060	FLOW, STREAM, MEAN DAILY	CFS	05/16/68-11/15/77	9	118	
MNRR0080	No	00060	FLOW, STREAM, MEAN DAILY	CFS	10/29/70-04/29/71	0	2	
MNRR0085	No	00060	FLOW, STREAM, MEAN DAILY	CFS	05/16/68-06/07/73	5	10	
MNRR0086	Yes	00060	FLOW, STREAM, MEAN DAILY	CFS	11/21/71-10/08/75	3	64	
MNRR0090	No	00060	FLOW, STREAM, MEAN DAILY	CFS	12/19/78-12/19/78	0	1	
MNRR0096	No	00060	FLOW, STREAM, MEAN DAILY	CFS	10/29/70-10/29/70	0	1	
MNRR0103	Yes	00060	FLOW, STREAM, MEAN DAILY	CFS	04/08/76-10/23/78	2	18	
MNRR0107	Yes	00060	FLOW, STREAM, MEAN DAILY	CFS	05/22/80-05/22/80	0	1	
MNRR0109	Yes	00060	FLOW, STREAM, MEAN DAILY	CFS	07/21/76-07/21/76	0	1	
MNRR0002	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/18/79-10/22/81	2	11	
MNRR0007	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	07/19/77-07/19/77	0	1	
MNRR0008	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	06/06/90-06/06/90	0	2	
MNRR0010	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/28/94-09/28/94	0	2	
MNRR0011	Yes	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/17/79-10/21/81	2	11	
MNRR0012	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	04/29/97-05/28/97	0	2	
MNRR0015	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	04/05/89-10/18/89	0	3	
MNRR0016	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/10/85-09/07/95	9	5	
MNRR0017	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	07/19/77-07/19/77	0	1	
MNRR0020	Yes	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/16/79-10/20/81	2	11	
MNRR0021	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/10/85-09/29/94	9	4	
MNRR0026	Yes	00061	FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	21	245	
MNRR0030	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	07/19/77-07/19/77	0	1	
MNRR0031	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/08/95-07/16/96	0	2	
MNRR0040	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	04/22/77-09/29/81	4	21	
MNRR0049	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/29/94-09/07/95	0	3	
MNRR0050	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/11/85-07/25/90	4	4	
MNRR0052	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/29/94-09/29/94	0	2	
MNRR0053	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	03/10/93-04/20/95	2	4	
MNRR0057	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/11/85-09/29/94	9	4	
MNRR0058	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	04/23/90-04/23/90	0	1	
MNRR0059	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	07/25/90-07/25/90	0	2	
MNRR0063	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	04/02/85-04/23/90	5	2	
MNRR0064	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/11/85-09/07/95	9	4	
MNRR0073	Yes	00061	FLOW, STREAM, INSTANTANEOUS	CFS	07/08/94-07/08/94	0	1	
MNRR0074	Yes	00061	FLOW, STREAM, INSTANTANEOUS	CFS	12/07/48-11/08/49	0	15	
MNRR0076	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	06/09/87-06/17/87	0	2	
MNRR0077	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/20/82-09/12/96	13	166	
MNRR0080	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	07/16/75-06/24/80	4	49	
MNRR0082	Yes	00061	FLOW, STREAM, INSTANTANEOUS	CFS	07/26/77-10/24/78	1	2	
MNRR0086	Yes	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/04/73-08/24/94	20	304	
MNRR0087	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	06/09/87-10/11/95	8	4	
MNRR0088	No	00061	FLOW, STREAM, INSTANTANEOUS	CFS	01/18/78-02/28/78	0	2	
MNRR0103	Yes	00061	FLOW, STREAM, INSTANTANEOUS	CFS	01/30/80-07/27/81	1	3	
MNRR0107	Yes	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/07/74-09/10/86	11	81	
MNRR0040	No	00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET		01/31/80-01/27/82	1	21	
MNRR0048	No	00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET		06/17/80-07/09/81	1	5	
MNRR0103	Yes	00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET		01/30/80-07/27/81	1	3	
MNRR0109	Yes	00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET		06/20/80-09/18/81	1	6	
MNRR0001	No	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION		10/07/76-08/30/79	2	14	
MNRR0086	Yes	00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION		07/19/72-04/27/82	9	117	
MNRR0008	No	00064	DEPTH OF STREAM, MEAN (FT)		06/06/90-06/06/90	0	2	
MNRR0010	No	00064	DEPTH OF STREAM, MEAN (FT)		09/28/94-09/28/94	0	2	
MNRR0016	No	00064	DEPTH OF STREAM, MEAN (FT)		09/10/85-09/07/95	9	5	
MNRR0021	No	00064	DEPTH OF STREAM, MEAN (FT)		09/10/85-09/29/94	9	4	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0031	No	00064	DEPTH OF STREAM, MEAN (FT)	09/08/95-07/16/96	0	2	
MNRR0033	No	00064	DEPTH OF STREAM, MEAN (FT)	04/18/89-10/30/89	0	2	
MNRR0034	No	00064	DEPTH OF STREAM, MEAN (FT)	04/18/89-10/30/89	0	2	
MNRR0049	No	00064	DEPTH OF STREAM, MEAN (FT)	09/29/94-09/07/95	0	3	
MNRR0050	No	00064	DEPTH OF STREAM, MEAN (FT)	09/11/85-07/25/90	4	4	
MNRR0052	No	00064	DEPTH OF STREAM, MEAN (FT)	09/29/94-09/29/94	0	2	
MNRR0057	No	00064	DEPTH OF STREAM, MEAN (FT)	09/11/85-09/29/94	9	4	
MNRR0059	No	00064	DEPTH OF STREAM, MEAN (FT)	07/25/90-07/25/90	0	2	
MNRR0064	No	00064	DEPTH OF STREAM, MEAN (FT)	09/11/85-09/07/95	9	4	
MNRR0076	No	00064	DEPTH OF STREAM, MEAN (FT)	06/09/87-06/17/87	0	2	
MNRR0084	Yes	00064	DEPTH OF STREAM, MEAN (FT)	05/13/81-05/13/81	0	1	
MNRR0087	No	00064	DEPTH OF STREAM, MEAN (FT)	06/09/87-10/11/95	8	4	
MNRR0002	No	00065	STAGE, STREAM (FEET)	10/18/79-08/21/80	0	172	
MNRR0011	Yes	00065	STAGE, STREAM (FEET)	10/17/79-08/20/80	0	162	
MNRR0020	Yes	00065	STAGE, STREAM (FEET)	10/16/79-08/19/80	0	169	
MNRR0026	Yes	00065	STAGE, STREAM (FEET)	01/21/71-07/07/71	0	3	
MNRR0040	No	00065	STAGE, STREAM (FEET)	04/07/70-01/27/82	11	86	
MNRR0053	No	00065	STAGE, STREAM (FEET)	03/10/93-07/13/93	0	2	
MNRR0063	No	00065	STAGE, STREAM (FEET)	04/02/85-04/02/85	0	1	
MNRR0082	Yes	00065	STAGE, STREAM (FEET)	04/06/70-08/04/81	11	74	
MNRR0086	Yes	00065	STAGE, STREAM (FEET)	11/09/93-08/24/94	0	4	
MNRR0103	Yes	00065	STAGE, STREAM (FEET)	04/22/70-07/27/81	11	64	
MNRR0107	Yes	00065	STAGE, STREAM (FEET)	05/02/83-09/10/86	3	6	
MNRR0040	No	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	07/11/71-12/03/75	4	36	
MNRR0082	Yes	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	03/17/72-12/02/75	3	37	
MNRR0103	Yes	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	03/14/72-12/02/75	3	36	
MNRR0007	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/29/73-11/29/77	4	32	
MNRR0017	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/29/73-11/29/77	4	29	
MNRR0026	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/30/69-06/17/70	0	12	
MNRR0029	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	12/16/57-08/17/70	12	577	
MNRR0030	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	11/29/73-11/29/77	4	26	
MNRR0060	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/16/68-11/29/77	9	41	
MNRR0066	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/16/68-11/26/73	5	15	
MNRR0071	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/16/68-11/15/77	9	28	
MNRR0072	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/11/61-12/14/77	16	166	
MNRR0079	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/16/68-11/15/77	9	93	
MNRR0080	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/16/75-06/24/80	4	49	
MNRR0085	No	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/16/68-06/07/73	5	10	
MNRR0086	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/20/73-08/05/80	7	66	
MNRR0107	Yes	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/07/74-04/27/78	3	23	
MNRR0029	Yes	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	10/07/68-08/28/75	6	210	
MNRR0040	No	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	05/01/68-11/06/69	1	15	
MNRR0047	No	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	10/07/68-01/27/69	0	4	
MNRR0082	Yes	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	05/01/68-11/06/69	1	15	
MNRR0103	Yes	00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	05/08/68-11/05/69	1	13	
MNRR0025	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/10/83-10/02/97	14	86	
MNRR0040	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	24	184	T
MNRR0042	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/18/82-10/02/97	14	78	
MNRR0048	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/12/76-10/02/97	21	123	
MNRR0055	No	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/28/82-10/10/96	14	71	
MNRR0082	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/17/72-02/10/76	3	30	
MNRR0086	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/78-08/24/94	16	81	
MNRR0103	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	03/14/72-08/26/97	25	72	S
MNRR0107	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/21/78-09/10/86	8	57	
MNRR0109	Yes	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/13/76-08/26/97	21	114	
MNRR0033	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	04/18/89-02/20/90	0	5	
MNRR0034	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	04/18/89-10/30/89	0	2	
MNRR0048	No	00077	TRANSPARENCY, SECCHI DISC (INCHES)	04/12/76-10/07/81	5	33	
MNRR0103	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/18/75-05/18/75	0	1	
MNRR0109	Yes	00077	TRANSPARENCY, SECCHI DISC (INCHES)	04/13/76-08/24/82	6	35	
MNRR0025	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	10/18/82-10/02/97	14	77	
MNRR0036	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	06/27/89-08/01/89	0	2	
MNRR0040	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/25/82-08/07/89	6	19	
MNRR0042	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/18/83-10/02/97	14	74	
MNRR0048	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/25/82-10/02/97	15	77	
MNRR0055	No	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/25/82-10/10/96	14	66	
MNRR0103	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/15/91-08/20/91	0	2	
MNRR0109	Yes	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/17/83-08/26/97	14	72	
MNRR0025	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/18/83-07/08/97	14	17	
MNRR0026	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	10/01/56-06/17/70	13	21	
MNRR0027	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	01/28/88-09/30/97	9	694	
MNRR0029	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	02/24/58-08/28/75	17	736	A

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0040	No	00080	COLOR (PLATINUM-COBALT UNITS)	05/25/76-07/08/97	21	60	
MNRR0042	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/18/82-07/08/97	14	18	
MNRR0048	No	00080	COLOR (PLATINUM-COBALT UNITS)	04/12/76-07/08/97	21	35	
MNRR0055	No	00080	COLOR (PLATINUM-COBALT UNITS)	10/04/82-07/01/96	13	16	
MNRR0058	No	00080	COLOR (PLATINUM-COBALT UNITS)	04/23/90-04/23/90	0	1	
MNRR0063	No	00080	COLOR (PLATINUM-COBALT UNITS)	04/23/90-04/23/90	0	1	
MNRR0080	No	00080	COLOR (PLATINUM-COBALT UNITS)	11/19/75-05/13/80	4	13	
MNRR0086	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	05/10/73-09/20/77	4	21	
MNRR0103	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	05/26/76-07/14/97	21	26	
MNRR0109	Yes	00080	COLOR (PLATINUM-COBALT UNITS)	04/13/76-07/14/97	21	41	
MNRR0051	No	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	08/23/90-08/23/90	0	1	
MNRR0025	No	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	8	103	
MNRR0040	No	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	05/24/88-07/08/97	9	26	
MNRR0042	No	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	8	95	
MNRR0048	No	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	8	211	
MNRR0055	No	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-10/10/96	8	75	
MNRR0103	Yes	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	06/24/92-06/24/92	0	1	
MNRR0109	Yes	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	06/24/92-06/24/92	0	11	
MNRR0072	No	00093	SOLIDS REPORTED AS FLOATABLES MG/L	09/11/75-09/11/75	0	1	
MNRR0025	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/02/97	14	347	A
MNRR0037	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/07/79-02/10/97	17	3812	
MNRR0040	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	21	141	
MNRR0042	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/18/83-10/02/97	14	334	A
MNRR0048	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	21	893	A
MNRR0055	No	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/28/82-10/10/96	14	267	
MNRR0082	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/15/72-08/04/81	9	26	
MNRR0103	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/14/69-08/26/97	27	80	S
MNRR0105	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/25/75-01/08/76	0	2	
MNRR0108	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/23/79-05/01/97	18	2430	
MNRR0109	Yes	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/13/76-08/26/97	21	866	A
MNRR0002	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/80-10/22/81	1	8	
MNRR0007	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/29/73-11/29/77	4	32	
MNRR0008	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/06/90-06/06/90	0	2	
MNRR0010	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/28/94-09/28/94	0	2	
MNRR0011	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/80-10/21/81	1	8	
MNRR0012	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	28	177	T,S
MNRR0015	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/05/89-10/18/89	0	3	
MNRR0016	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/24/90-09/07/95	5	3	
MNRR0017	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/29/73-11/29/77	4	29	
MNRR0020	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/15/80-10/20/81	1	8	
MNRR0021	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/29/94-09/29/94	0	2	
MNRR0022	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/22/80-10/22/80	0	1	
MNRR0026	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/56-08/31/95	38	276	T,A,S
MNRR0029	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/01/68-11/04/68	0	7	
MNRR0030	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/29/73-11/29/77	4	26	
MNRR0031	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/08/95-09/08/95	0	1	
MNRR0033	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/18/89-02/20/90	0	5	
MNRR0034	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/18/89-10/30/89	0	2	
MNRR0035	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/27/89-08/01/89	0	2	
MNRR0036	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/27/89-08/01/89	0	2	
MNRR0038	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/23/75-09/20/77	1	25	
MNRR0040	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/01/68-12/03/75	7	69	
MNRR0046	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/21/78-06/02/79	0	3	
MNRR0047	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/68-01/27/69	0	4	
MNRR0049	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/29/94-09/07/95	0	3	
MNRR0050	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/11/85-07/25/90	4	4	
MNRR0053	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/10/93-04/20/95	2	3	
MNRR0057	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/11/85-09/29/94	9	4	
MNRR0058	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/23/90-04/23/90	0	1	
MNRR0059	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/25/90-07/25/90	0	2	
MNRR0060	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-11/29/77	9	42	
MNRR0063	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/02/85-04/23/90	5	2	
MNRR0064	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/11/85-09/07/95	9	4	
MNRR0066	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-11/26/73	5	15	
MNRR0071	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-11/15/77	9	29	
MNRR0072	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/61-12/21/80	19	202	A
MNRR0073	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/08/94-07/08/94	0	1	
MNRR0076	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/09/87-06/09/87	0	1	
MNRR0077	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/20/82-09/12/96	13	164	
MNRR0078	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/15/69-01/15/69	0	1	
MNRR0079	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/16/68-11/15/77	9	95	
MNRR0080	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/29/70-06/24/80	9	49	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0082	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/01/68-12/02/75	7	72	
MNRR0085	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/16/68-04/13/93	24	49	
MNRR0086	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		04/18/73-08/24/94	21	249	
MNRR0087	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/09/87-10/11/95	8	3	
MNRR0088	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		03/21/78-04/26/78	0	2	
MNRR0090	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		12/19/78-06/19/79	0	2	
MNRR0096	No	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/29/70-10/29/70	0	1	
MNRR0099	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		09/12/69-09/12/69	0	1	
MNRR0103	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/04/65-12/31/75	10	7076	
MNRR0105	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		09/22/75-11/16/81	6	46	
MNRR0107	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/07/74-09/10/86	11	79	
MNRR0108	Yes	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/04/65-12/31/75	10	7002	
MNRR0007	No	00100	TIME OF TRAVEL (HOURS)		07/09/75-07/09/75	0	1	
MNRR0071	No	00100	TIME OF TRAVEL (HOURS)		05/16/75-05/16/75	0	1	
MNRR0079	No	00100	TIME OF TRAVEL (HOURS)		06/09/75-07/09/75	0	2	
MNRR0042	No	00200	LIGHT,INCIDENT,400-700NM,INTENSITY,UEINSTEINS/M2/S		10/10/96-10/10/96	0	5	
MNRR0071	No	00200	LIGHT,INCIDENT,400-700NM,INTENSITY,UEINSTEINS/M2/S		05/16/75-05/16/75	0	1	
MNRR0079	No	00200	LIGHT,INCIDENT,400-700NM,INTENSITY,UEINSTEINS/M2/S		06/09/75-06/09/75	0	1	
MNRR0048	No	00210	INVALID PARAMETER		08/01/78-08/01/78	0	1	
MNRR0103	Yes	00291	INVALID PARAMETER		01/01/68-02/27/68	0	48	
MNRR0040	No	00292	OXYGEN,DISSOLVED,UPTAKE,DARK BOTTLE,IN 24HR	MG/L	12/19/78-12/19/78	0	1	
MNRR0103	Yes	00292	OXYGEN,DISSOLVED,UPTAKE,DARK BOTTLE,IN 24HR	MG/L	12/14/69-12/14/69	0	1	
MNRR0025	No	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	10/18/82-10/02/97	14	341	A
MNRR0037	No	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	17	4310	A
MNRR0040	No	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	07/11/75-07/08/97	21	154	
MNRR0042	No	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	05/18/83-10/02/97	14	330	A
MNRR0048	No	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	04/12/76-10/02/97	21	937	A
MNRR0055	No	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	06/28/82-10/10/96	14	282	A
MNRR0082	Yes	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	02/10/76-08/04/81	5	25	
MNRR0103	Yes	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	05/04/65-08/26/97	32	7083	T,S
MNRR0108	Yes	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	05/04/65-05/01/97	31	9308	A,S
MNRR0109	Yes	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	04/13/76-08/26/97	21	917	A
MNRR0007	No	00300	OXYGEN, DISSOLVED	MG/L	11/29/73-11/29/77	4	32	
MNRR0008	No	00300	OXYGEN, DISSOLVED	MG/L	06/06/90-06/06/90	0	2	
MNRR0010	No	00300	OXYGEN, DISSOLVED	MG/L	09/28/94-09/28/94	0	2	
MNRR0012	No	00300	OXYGEN, DISSOLVED	MG/L	03/26/73-10/22/97	24	188	T,A
MNRR0015	No	00300	OXYGEN, DISSOLVED	MG/L	10/18/89-10/18/89	0	1	
MNRR0016	No	00300	OXYGEN, DISSOLVED	MG/L	09/10/85-09/07/95	9	5	
MNRR0017	No	00300	OXYGEN, DISSOLVED	MG/L	11/29/73-11/29/77	4	29	
MNRR0021	No	00300	OXYGEN, DISSOLVED	MG/L	09/10/85-09/29/94	9	4	
MNRR0026	Yes	00300	OXYGEN, DISSOLVED	MG/L	09/28/72-01/15/74	1	11	
MNRR0027	Yes	00300	OXYGEN, DISSOLVED	MG/L	01/28/88-09/25/97	9	99	
MNRR0029	Yes	00300	OXYGEN, DISSOLVED	MG/L	12/16/57-08/28/75	17	755	A
MNRR0030	No	00300	OXYGEN, DISSOLVED	MG/L	11/29/73-11/29/77	4	26	
MNRR0031	No	00300	OXYGEN, DISSOLVED	MG/L	09/08/95-07/16/96	0	2	
MNRR0033	No	00300	OXYGEN, DISSOLVED	MG/L	04/18/89-02/20/90	0	3	
MNRR0034	No	00300	OXYGEN, DISSOLVED	MG/L	04/18/89-10/30/89	0	2	
MNRR0035	No	00300	OXYGEN, DISSOLVED	MG/L	06/27/89-08/01/89	0	2	
MNRR0036	No	00300	OXYGEN, DISSOLVED	MG/L	06/27/89-08/01/89	0	2	
MNRR0038	No	00300	OXYGEN, DISSOLVED	MG/L	09/23/75-09/20/77	1	24	
MNRR0040	No	00300	OXYGEN, DISSOLVED	MG/L	04/07/70-12/03/75	5	48	
MNRR0046	No	00300	OXYGEN, DISSOLVED	MG/L	11/21/78-07/28/79	0	4	
MNRR0049	No	00300	OXYGEN, DISSOLVED	MG/L	09/29/94-09/07/95	0	3	
MNRR0050	No	00300	OXYGEN, DISSOLVED	MG/L	09/11/85-07/25/90	4	4	
MNRR0052	No	00300	OXYGEN, DISSOLVED	MG/L	09/29/94-09/29/94	0	2	
MNRR0057	No	00300	OXYGEN, DISSOLVED	MG/L	09/11/85-09/29/94	9	4	
MNRR0058	No	00300	OXYGEN, DISSOLVED	MG/L	04/23/90-04/23/90	0	1	
MNRR0059	No	00300	OXYGEN, DISSOLVED	MG/L	07/25/90-07/25/90	0	2	
MNRR0060	No	00300	OXYGEN, DISSOLVED	MG/L	05/16/68-11/29/77	9	42	
MNRR0063	No	00300	OXYGEN, DISSOLVED	MG/L	04/02/85-04/23/90	5	2	
MNRR0064	No	00300	OXYGEN, DISSOLVED	MG/L	09/11/85-09/07/95	9	4	
MNRR0066	No	00300	OXYGEN, DISSOLVED	MG/L	05/16/68-11/26/73	5	15	
MNRR0069	Yes	00300	OXYGEN, DISSOLVED	MG/L	07/12/89-07/12/89	0	2	
MNRR0070	Yes	00300	OXYGEN, DISSOLVED	MG/L	07/12/89-07/12/89	0	2	
MNRR0071	No	00300	OXYGEN, DISSOLVED	MG/L	05/16/68-11/15/77	9	29	
MNRR0072	No	00300	OXYGEN, DISSOLVED	MG/L	04/11/61-12/21/80	19	200	A
MNRR0073	Yes	00300	OXYGEN, DISSOLVED	MG/L	07/08/94-07/08/94	0	1	
MNRR0076	No	00300	OXYGEN, DISSOLVED	MG/L	06/09/87-06/09/87	0	1	
MNRR0079	No	00300	OXYGEN, DISSOLVED	MG/L	05/16/68-11/15/77	9	95	
MNRR0080	No	00300	OXYGEN, DISSOLVED	MG/L	07/16/75-06/24/80	4	49	
MNRR0082	Yes	00300	OXYGEN, DISSOLVED	MG/L	04/06/70-12/02/75	5	54	
MNRR0084	Yes	00300	OXYGEN, DISSOLVED	MG/L	05/13/81-05/13/81	0	1	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0085	No	00300	OXYGEN, DISSOLVED	MG/L	05/16/68-04/13/93	24	47	
MNRR0086	Yes	00300	OXYGEN, DISSOLVED	MG/L	06/20/73-08/24/94	21	246	
MNRR0087	No	00300	OXYGEN, DISSOLVED	MG/L	06/09/87-10/11/95	8	3	
MNRR0088	No	00300	OXYGEN, DISSOLVED	MG/L	03/21/78-04/26/78	0	2	
MNRR0090	No	00300	OXYGEN, DISSOLVED	MG/L	12/19/78-06/19/79	0	2	
MNRR0103	Yes	00300	OXYGEN, DISSOLVED	MG/L	07/13/70-12/02/75	5	47	
MNRR0105	Yes	00300	OXYGEN, DISSOLVED	MG/L	09/22/75-11/16/81	6	45	
MNRR0107	Yes	00300	OXYGEN, DISSOLVED	MG/L	10/27/77-09/10/86	8	55	
MNRR0025	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	10/02/97-10/02/97	0	4	
MNRR0037	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	11/27/91-02/10/97	5	1332	
MNRR0042	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	10/02/97-10/02/97	0	5	
MNRR0048	No	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	10/02/97-10/02/97	0	8	
MNRR0103	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	01/01/75-12/31/75	0	365	
MNRR0108	Yes	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	05/20/92-12/13/95	3	909	
MNRR0007	No	00310	BOD, 5 DAY, 20 DEG C	MG/L	02/05/74-11/29/77	3	28	
MNRR0012	No	00310	BOD, 5 DAY, 20 DEG C	MG/L	03/27/90-03/27/90	0	1	
MNRR0017	No	00310	BOD, 5 DAY, 20 DEG C	MG/L	02/04/74-11/29/77	3	26	
MNRR0026	Yes	00310	BOD, 5 DAY, 20 DEG C	MG/L	08/20/69-01/15/74	4	13	
MNRR0029	Yes	00310	BOD, 5 DAY, 20 DEG C	MG/L	12/23/57-08/28/75	17	763	A
MNRR0030	No	00310	BOD, 5 DAY, 20 DEG C	MG/L	02/04/74-11/29/77	3	23	
MNRR0032	No	00310	BOD, 5 DAY, 20 DEG C	MG/L	03/24/76-04/14/87	11	6	
MNRR0060	No	00310	BOD, 5 DAY, 20 DEG C	MG/L	10/03/73-11/29/77	4	30	
MNRR0071	No	00310	BOD, 5 DAY, 20 DEG C	MG/L	03/23/76-11/15/77	1	7	
MNRR0072	No	00310	BOD, 5 DAY, 20 DEG C	MG/L	01/10/62-12/21/80	18	172	A
MNRR0079	No	00310	BOD, 5 DAY, 20 DEG C	MG/L	11/05/68-11/15/77	9	84	
MNRR0080	No	00310	BOD, 5 DAY, 20 DEG C	MG/L	07/16/75-06/24/80	4	47	
MNRR0086	Yes	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/18/73-08/05/80	7	66	
MNRR0088	No	00310	BOD, 5 DAY, 20 DEG C	MG/L	03/21/78-04/26/78	0	2	
MNRR0029	Yes	00320	BOD, ULTIMATE 1ST STAGE, 20 DEG C	MG/L	10/07/68-12/30/68	0	13	
MNRR0071	No	00320	BOD, ULTIMATE 1ST STAGE, 20 DEG C	MG/L	05/16/75-05/16/75	0	1	
MNRR0072	No	00320	BOD, ULTIMATE 1ST STAGE, 20 DEG C	MG/L	05/14/75-05/14/75	0	1	
MNRR0079	No	00320	BOD, ULTIMATE 1ST STAGE, 20 DEG C	MG/L	06/09/75-06/09/75	0	1	
MNRR0029	Yes	00335	COD, .025N K2CR2O7	MG/L	03/03/58-08/06/62	4	23	
MNRR0040	No	00335	COD, .025N K2CR2O7	MG/L	04/12/76-12/18/79	3	41	
MNRR0048	No	00335	COD, .025N K2CR2O7	MG/L	04/12/76-10/04/79	3	23	
MNRR0072	No	00335	COD, .025N K2CR2O7	MG/L	01/10/62-05/30/79	17	37	
MNRR0079	No	00335	COD, .025N K2CR2O7	MG/L	11/05/68-04/07/69	0	5	
MNRR0103	Yes	00335	COD, .025N K2CR2O7	MG/L	04/08/76-10/24/79	3	26	
MNRR0109	Yes	00335	COD, .025N K2CR2O7	MG/L	04/13/76-10/04/79	3	35	
MNRR0109	Yes	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT	MG/KG	09/15/77-09/15/77	0	1	
MNRR0007	No	00340	COD, .25N K2CR2O7	MG/L	02/05/74-11/29/77	3	28	
MNRR0017	No	00340	COD, .25N K2CR2O7	MG/L	02/04/74-11/29/77	3	26	
MNRR0030	No	00340	COD, .25N K2CR2O7	MG/L	02/04/74-11/29/77	3	24	
MNRR0060	No	00340	COD, .25N K2CR2O7	MG/L	02/04/74-11/29/77	3	29	
MNRR0063	No	00340	COD, .25N K2CR2O7	MG/L	04/02/85-04/02/85	0	1	
MNRR0071	No	00340	COD, .25N K2CR2O7	MG/L	03/23/76-11/15/77	1	7	
MNRR0072	No	00340	COD, .25N K2CR2O7	MG/L	08/13/68-12/21/80	12	132	
MNRR0079	No	00340	COD, .25N K2CR2O7	MG/L	05/12/69-11/15/77	8	76	
MNRR0085	No	00340	COD, .25N K2CR2O7	MG/L	01/23/90-04/13/93	3	39	
MNRR0086	Yes	00340	COD, .25N K2CR2O7	MG/L	03/23/76-08/29/89	13	93	
MNRR0088	No	00340	COD, .25N K2CR2O7	MG/L	03/21/78-04/26/78	0	2	
MNRR0029	Yes	00370	CHLORINE DEMAND, 1 HOUR (MG/L)		01/27/58-01/18/65	6	354	
MNRR0029	Yes	00380	CHLORINE DEMAND, 24 HOUR (MG/L)		01/27/58-01/18/65	6	353	
MNRR0007	No	00400	PH (STANDARD UNITS)		02/05/74-11/29/77	3	28	
MNRR0009	No	00400	PH (STANDARD UNITS)		07/14/72-07/14/72	0	1	
MNRR0012	No	00400	PH (STANDARD UNITS)		11/12/73-10/22/97	23	163	T
MNRR0015	No	00400	PH (STANDARD UNITS)		04/05/89-10/18/89	0	3	
MNRR0017	No	00400	PH (STANDARD UNITS)		02/04/74-11/29/77	3	27	
MNRR0022	No	00400	PH (STANDARD UNITS)		10/22/80-10/22/80	0	1	
MNRR0023	No	00400	PH (STANDARD UNITS)		07/31/72-07/31/72	0	1	
MNRR0024	No	00400	PH (STANDARD UNITS)		07/13/72-07/13/72	0	1	
MNRR0025	No	00400	PH (STANDARD UNITS)		10/18/82-10/02/97	14	243	
MNRR0026	Yes	00400	PH (STANDARD UNITS)		10/01/56-01/15/74	17	92	
MNRR0029	Yes	00400	PH (STANDARD UNITS)		12/16/57-08/28/75	17	789	A
MNRR0030	No	00400	PH (STANDARD UNITS)		02/04/74-11/29/77	3	24	
MNRR0032	No	00400	PH (STANDARD UNITS)		03/24/76-04/14/87	11	7	
MNRR0035	No	00400	PH (STANDARD UNITS)		06/27/89-08/01/89	0	2	
MNRR0036	No	00400	PH (STANDARD UNITS)		06/27/89-08/01/89	0	2	
MNRR0037	No	00400	PH (STANDARD UNITS)		01/31/89-02/10/97	8	3030	
MNRR0038	No	00400	PH (STANDARD UNITS)		09/23/75-09/20/77	1	23	
MNRR0040	No	00400	PH (STANDARD UNITS)		05/01/68-07/08/97	29	191	T,S
MNRR0042	No	00400	PH (STANDARD UNITS)		04/29/85-10/02/97	12	222	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0046	No	00400	PH (STANDARD UNITS)		11/21/78-07/28/79	0	4	
MNRR0047	No	00400	PH (STANDARD UNITS)		10/07/68-10/14/68	0	2	
MNRR0048	No	00400	PH (STANDARD UNITS)		04/12/76-10/02/97	21	621	A
MNRR0054	No	00400	PH (STANDARD UNITS)		07/12/72-07/12/72	0	1	
MNRR0055	No	00400	PH (STANDARD UNITS)		06/28/82-10/10/96	14	179	
MNRR0058	No	00400	PH (STANDARD UNITS)		04/23/90-04/23/90	0	1	
MNRR0060	No	00400	PH (STANDARD UNITS)		08/30/68-11/29/77	9	39	
MNRR0063	No	00400	PH (STANDARD UNITS)		04/23/90-04/23/90	0	1	
MNRR0066	No	00400	PH (STANDARD UNITS)		08/30/68-11/26/73	5	14	
MNRR0071	No	00400	PH (STANDARD UNITS)		08/30/68-11/15/77	9	27	
MNRR0072	No	00400	PH (STANDARD UNITS)		04/11/61-12/21/80	19	197	A
MNRR0073	Yes	00400	PH (STANDARD UNITS)		07/08/94-07/08/94	0	1	
MNRR0078	No	00400	PH (STANDARD UNITS)		01/15/69-01/15/69	0	1	
MNRR0079	No	00400	PH (STANDARD UNITS)		11/05/68-11/15/77	9	93	
MNRR0080	No	00400	PH (STANDARD UNITS)		10/29/70-06/24/80	9	50	
MNRR0081	No	00400	PH (STANDARD UNITS)		07/17/72-07/17/72	0	1	
MNRR0082	Yes	00400	PH (STANDARD UNITS)		05/01/68-08/04/81	13	95	
MNRR0085	No	00400	PH (STANDARD UNITS)		08/30/68-06/07/73	4	8	
MNRR0086	Yes	00400	PH (STANDARD UNITS)		05/10/73-08/24/94	21	248	
MNRR0088	No	00400	PH (STANDARD UNITS)		03/21/78-04/26/78	0	2	
MNRR0090	No	00400	PH (STANDARD UNITS)		06/19/79-06/19/79	0	1	
MNRR0096	No	00400	PH (STANDARD UNITS)		10/29/70-10/29/70	0	1	
MNRR0099	Yes	00400	PH (STANDARD UNITS)		09/12/69-09/12/69	0	1	
MNRR0103	Yes	00400	PH (STANDARD UNITS)		05/08/68-08/26/97	29	142	T,S
MNRR0105	Yes	00400	PH (STANDARD UNITS)		06/24/76-11/16/81	5	33	
MNRR0107	Yes	00400	PH (STANDARD UNITS)		10/07/74-09/10/86	11	79	
MNRR0108	Yes	00400	PH (STANDARD UNITS)		04/23/79-05/01/97	18	1481	
MNRR0109	Yes	00400	PH (STANDARD UNITS)		04/13/76-08/26/97	21	589	A
MNRR0012	No	00403	PH, LAB, STANDARD UNITS	SU	12/11/68-08/23/94	25	104	S
MNRR0022	No	00403	PH, LAB, STANDARD UNITS	SU	10/22/80-10/22/80	0	1	
MNRR0027	Yes	00403	PH, LAB, STANDARD UNITS	SU	01/01/88-09/30/97	9	3515	
MNRR0035	No	00403	PH, LAB, STANDARD UNITS	SU	06/27/89-08/01/89	0	2	
MNRR0036	No	00403	PH, LAB, STANDARD UNITS	SU	06/27/89-08/01/89	0	2	
MNRR0038	No	00403	PH, LAB, STANDARD UNITS	SU	09/23/75-09/20/77	1	25	
MNRR0040	No	00403	PH, LAB, STANDARD UNITS	SU	04/14/71-02/09/76	4	8	
MNRR0046	No	00403	PH, LAB, STANDARD UNITS	SU	11/21/78-07/28/79	0	4	
MNRR0051	No	00403	PH, LAB, STANDARD UNITS	SU	08/23/90-03/26/97	6	6	
MNRR0058	No	00403	PH, LAB, STANDARD UNITS	SU	04/23/90-04/23/90	0	1	
MNRR0063	No	00403	PH, LAB, STANDARD UNITS	SU	04/23/90-04/23/90	0	1	
MNRR0082	Yes	00403	PH, LAB, STANDARD UNITS	SU	02/10/76-02/10/76	0	1	
MNRR0085	No	00403	PH, LAB, STANDARD UNITS	SU	01/23/90-04/13/93	3	39	
MNRR0086	Yes	00403	PH, LAB, STANDARD UNITS	SU	10/07/80-08/24/94	13	123	
MNRR0090	No	00403	PH, LAB, STANDARD UNITS	SU	12/19/78-06/19/79	0	2	
MNRR0105	Yes	00403	PH, LAB, STANDARD UNITS	SU	09/22/75-11/16/81	6	46	
MNRR0107	Yes	00403	PH, LAB, STANDARD UNITS	SU	10/20/80-09/10/86	5	36	
MNRR0026	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)		10/27/72-01/15/74	1	9	
MNRR0051	No	00405	CARBON DIOXIDE (MG/L AS CO2)		08/23/90-08/23/90	0	1	
MNRR0078	No	00405	CARBON DIOXIDE (MG/L AS CO2)		01/15/69-01/15/69	0	1	
MNRR0080	No	00405	CARBON DIOXIDE (MG/L AS CO2)		11/19/75-08/23/78	2	10	
MNRR0086	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)		05/10/73-05/09/78	4	27	
MNRR0099	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)		09/12/69-09/12/69	0	1	
MNRR0107	Yes	00405	CARBON DIOXIDE (MG/L AS CO2)		10/07/74-10/24/79	5	24	
MNRR0007	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		11/29/73-07/09/75	1	14	
MNRR0009	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/14/72-07/14/72	0	1	
MNRR0012	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		12/11/68-10/22/97	28	161	T,S
MNRR0017	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		11/29/73-07/09/75	1	13	
MNRR0023	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/31/72-07/31/72	0	1	
MNRR0024	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/13/72-07/13/72	0	1	
MNRR0025	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		02/10/83-10/02/97	14	86	
MNRR0026	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/30/69-01/15/74	4	22	
MNRR0027	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	9	3516	
MNRR0029	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	17	794	A
MNRR0030	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		11/29/73-07/09/75	1	13	
MNRR0033	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		04/18/89-02/20/90	0	4	
MNRR0035	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/27/89-08/01/89	0	2	
MNRR0036	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/27/89-08/01/89	0	2	
MNRR0038	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		09/23/75-09/20/77	1	25	
MNRR0040	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	29	226	T,S
MNRR0042	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		10/18/82-10/02/97	14	78	
MNRR0046	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		11/21/78-07/28/79	0	4	
MNRR0047	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		10/07/68-10/14/68	0	2	
MNRR0048	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		04/12/76-10/02/97	21	126	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0054	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/12/72-07/12/72	0	1	
MNRR0055	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/28/82-10/10/96	14	71	
MNRR0060	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/16/68-07/09/75	7	23	
MNRR0066	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/16/68-11/26/73	5	15	
MNRR0071	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/16/68-10/28/75	7	22	
MNRR0072	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/11/61-11/05/75	14	147	
MNRR0078	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/15/69-01/15/69	0	1	
MNRR0079	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/16/68-07/09/75	7	85	
MNRR0080	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/29/70-05/13/80	9	17	
MNRR0081	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/17/72-07/17/72	0	1	
MNRR0082	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-02/10/76	7	71	
MNRR0085	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/16/68-06/07/73	5	10	
MNRR0086	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/10/73-11/13/90	17	72	
MNRR0090	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/19/78-06/19/79	0	2	
MNRR0096	No	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/29/70-10/29/70	0	1	
MNRR0099	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/12/69-09/12/69	0	1	
MNRR0103	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/08/68-08/26/97	29	126	S
MNRR0105	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/22/75-08/18/77	1	24	
MNRR0107	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/74-07/09/86	11	54	
MNRR0109	Yes	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/26/76-08/26/97	21	115	
MNRR0009	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/14/72-07/14/72	0	1	
MNRR0012	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/11/68-08/23/94	25	39	S
MNRR0023	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/31/72-07/31/72	0	1	
MNRR0024	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/13/72-07/13/72	0	1	
MNRR0027	Yes	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/01/88-09/30/97	9	3516	
MNRR0054	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/12/72-07/12/72	0	1	
MNRR0081	No	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/17/72-07/17/72	0	1	
MNRR0107	Yes	00417	ALKALINITY,FIXED ENDPOINT TITRATION, USGS LAB MG/L	09/10/86-09/10/86	0	1	
MNRR0086	Yes	00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	11/24/86-11/13/90	3	15	
MNRR0051	No	00425	ALKALINITY, BICARBONATE (MG/L AS CACO3)	08/23/90-08/23/90	0	1	
MNRR0012	No	00440	BICARBONATE ION (MG/L AS HCO3)	12/11/68-06/23/75	6	18	
MNRR0026	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/01/56-01/15/74	17	70	
MNRR0038	No	00440	BICARBONATE ION (MG/L AS HCO3)	09/23/75-09/20/77	1	25	
MNRR0040	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/27/76-03/21/79	2	31	
MNRR0048	No	00440	BICARBONATE ION (MG/L AS HCO3)	04/12/76-02/23/79	2	18	
MNRR0078	No	00440	BICARBONATE ION (MG/L AS HCO3)	01/15/69-01/15/69	0	1	
MNRR0080	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/29/70-08/23/78	7	11	
MNRR0082	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/20/76-08/22/78	1	12	
MNRR0086	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	05/10/73-05/09/78	4	28	
MNRR0096	No	00440	BICARBONATE ION (MG/L AS HCO3)	10/29/70-10/29/70	0	1	
MNRR0099	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/12/69-09/12/69	0	1	
MNRR0105	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	09/22/75-08/18/77	1	24	
MNRR0107	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	10/07/74-04/27/78	3	23	
MNRR0109	Yes	00440	BICARBONATE ION (MG/L AS HCO3)	05/26/76-02/22/79	2	17	
MNRR0012	No	00445	CARBONATE ION (MG/L AS CO3)	04/15/74-09/16/74	0	5	
MNRR0026	Yes	00445	CARBONATE ION (MG/L AS CO3)	07/30/69-01/15/74	4	22	
MNRR0080	No	00445	CARBONATE ION (MG/L AS CO3)	10/29/70-08/23/78	7	11	
MNRR0086	Yes	00445	CARBONATE ION (MG/L AS CO3)	05/10/73-05/09/78	4	25	
MNRR0096	No	00445	CARBONATE ION (MG/L AS CO3)	10/29/70-10/29/70	0	1	
MNRR0107	Yes	00445	CARBONATE ION (MG/L AS CO3)	03/13/75-04/27/78	3	20	
MNRR0086	Yes	00447	CARBONATE,INCREMENTAL TITRATION,(CO3) FIELD MG/L	11/24/86-11/13/90	3	15	
MNRR0086	Yes	00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	11/24/86-11/13/90	3	15	
MNRR0086	Yes	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	11/26/85-08/24/94	8	33	
MNRR0086	Yes	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	11/26/85-08/24/94	8	33	
MNRR0012	No	00500	RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	28	179	T,S
MNRR0035	No	00500	RESIDUE, TOTAL (MG/L)	06/27/89-08/01/89	0	2	
MNRR0036	No	00500	RESIDUE, TOTAL (MG/L)	06/27/89-08/01/89	0	2	
MNRR0038	No	00500	RESIDUE, TOTAL (MG/L)	09/23/75-09/20/77	1	25	
MNRR0046	No	00500	RESIDUE, TOTAL (MG/L)	11/21/78-07/28/79	0	4	
MNRR0060	No	00500	RESIDUE, TOTAL (MG/L)	05/16/68-08/30/68	0	2	
MNRR0066	No	00500	RESIDUE, TOTAL (MG/L)	05/16/68-05/09/69	0	3	
MNRR0071	No	00500	RESIDUE, TOTAL (MG/L)	05/16/68-05/09/69	0	3	
MNRR0072	No	00500	RESIDUE, TOTAL (MG/L)	05/16/68-05/09/69	0	3	
MNRR0079	No	00500	RESIDUE, TOTAL (MG/L)	05/16/68-05/16/68	0	1	
MNRR0085	No	00500	RESIDUE, TOTAL (MG/L)	05/16/68-05/09/69	0	3	
MNRR0086	Yes	00500	RESIDUE, TOTAL (MG/L)	12/02/80-09/08/82	1	11	
MNRR0090	No	00500	RESIDUE, TOTAL (MG/L)	12/19/78-06/19/79	0	2	
MNRR0103	Yes	00500	RESIDUE, TOTAL (MG/L)	05/07/74-05/07/74	0	1	
MNRR0105	Yes	00500	RESIDUE, TOTAL (MG/L)	09/22/75-09/20/77	1	25	
MNRR0109	Yes	00502	INVALID PARAMETER	02/22/79-02/22/79	0	1	
MNRR0012	No	00503	INVALID PARAMETER	06/04/74-06/04/74	0	1	
MNRR0060	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/16/68-08/30/68	0	2	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0066	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/09/69-05/09/69	0	1	
MNRR0071	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/09/69-05/09/69	0	1	
MNRR0072	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/09/69-05/09/69	0	1	
MNRR0085	No	00505	RESIDUE, TOTAL VOLATILE (MG/L)	05/09/69-05/09/69	0	1	
MNRR0007	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	11/29/73-11/29/77	4	32	
MNRR0012	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/27/72-09/25/78	5	22	
MNRR0017	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	11/29/73-11/29/77	4	29	
MNRR0025	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/10/83-10/02/97	14	46	
MNRR0029	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	01/08/62-12/07/64	2	32	
MNRR0030	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	11/29/73-11/29/77	4	26	
MNRR0038	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/23/75-09/20/77	1	25	
MNRR0040	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	29	157	T,S
MNRR0042	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/18/82-10/02/97	14	37	
MNRR0046	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	11/21/78-07/28/79	0	4	
MNRR0047	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/11/68-01/27/69	0	4	
MNRR0048	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/12/76-10/02/97	21	84	
MNRR0055	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/28/82-10/10/96	14	33	
MNRR0060	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/30/68-11/29/77	9	40	
MNRR0066	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/30/68-11/26/73	5	13	
MNRR0071	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/30/68-11/15/77	9	26	
MNRR0072	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/11/61-05/30/79	18	126	
MNRR0079	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	11/05/68-11/15/77	9	88	
MNRR0082	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-02/10/76	7	47	
MNRR0085	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	08/30/68-10/04/72	4	8	
MNRR0090	No	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	12/19/78-06/19/79	0	2	
MNRR0103	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/08/68-07/14/97	29	61	S
MNRR0105	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/22/75-11/16/81	6	46	
MNRR0109	Yes	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/26/76-07/14/97	21	72	
MNRR0007	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/24/76-11/29/77	1	18	
MNRR0012	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	24	192	T,A
MNRR0017	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/14/76-11/29/77	1	16	
MNRR0025	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/18/83-10/02/97	14	39	
MNRR0029	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/12/59-06/27/66	7	151	
MNRR0030	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/23/76-11/29/77	1	13	
MNRR0032	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/24/76-04/14/87	11	6	
MNRR0033	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/18/89-02/20/90	0	4	
MNRR0035	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/27/89-08/01/89	0	2	
MNRR0036	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/27/89-08/01/89	0	2	
MNRR0038	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/23/75-09/20/77	1	25	
MNRR0040	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/28/78-10/02/97	19	81	
MNRR0042	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/18/82-10/02/97	14	41	
MNRR0046	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/21/78-07/28/79	0	4	
MNRR0047	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/11/68-01/27/69	0	4	
MNRR0048	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/01/77-10/02/97	20	64	
MNRR0051	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/02/94-03/26/97	2	5	
MNRR0055	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/04/82-10/10/96	14	37	
MNRR0060	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/12/76-11/29/77	1	19	
MNRR0063	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/02/85-04/02/85	0	1	
MNRR0071	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/23/76-11/15/77	1	7	
MNRR0072	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/12/76-12/21/80	4	54	
MNRR0079	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/23/76-11/15/77	1	9	
MNRR0085	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/23/90-04/13/93	3	39	
MNRR0086	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/23/82-08/29/89	7	84	
MNRR0088	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/21/78-04/26/78	0	2	
MNRR0090	No	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/19/78-06/19/79	0	2	
MNRR0103	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/23/78-07/14/97	18	33	
MNRR0105	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/22/75-11/16/81	6	45	
MNRR0107	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/22/80-08/24/81	1	8	
MNRR0109	Yes	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/27/77-07/14/97	20	72	
MNRR0040	No	00551	HYDROCARBONS.IN WATER.IR,CC14 EXT.CHROMAT. MG/L	01/31/80-01/27/82	1	5	
MNRR0082	Yes	00551	HYDROCARBONS.IN WATER.IR,CC14 EXT.CHROMAT. MG/L	04/23/80-08/04/81	1	4	
MNRR0032	No	00556	OIL & GREASE (FREON EXTR.-GRAV METH) TOT.REC.MG/L	04/17/79-04/17/79	0	1	
MNRR0086	Yes	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	04/14/75-10/07/80	5	17	
MNRR0107	Yes	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	03/13/75-03/13/75	0	1	
MNRR0086	Yes	00573	BIOMASS, PERIPHYTON.DRY WEIGHT TOTAL (G/M2)	04/14/75-10/07/80	5	17	
MNRR0107	Yes	00573	BIOMASS, PERIPHYTON.DRY WEIGHT TOTAL (G/M2)	03/13/75-03/13/75	0	1	
MNRR0026	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	08/23/72-01/15/74	1	10	
MNRR0080	No	00600	NITROGEN, TOTAL (MG/L AS N)	07/16/75-06/24/80	4	49	
MNRR0086	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	10/04/73-03/22/83	9	76	
MNRR0107	Yes	00600	NITROGEN, TOTAL (MG/L AS N)	10/07/74-05/20/81	6	46	
MNRR0086	Yes	00602	NITROGEN, DISSOLVED (MG/L AS N)	09/25/79-07/22/81	1	20	
MNRR0107	Yes	00602	NITROGEN, DISSOLVED (MG/L AS N)	09/24/79-08/24/81	1	16	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0026	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	08/23/72-01/15/74	1	10	
MNRR0047	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/07/68-10/14/68	0	2	
MNRR0080	No	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	07/16/75-06/24/80	4	49	
MNRR0086	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/18/73-02/11/87	13	87	
MNRR0107	Yes	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/19/77-11/20/85	8	31	
MNRR0086	Yes	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	03/23/76-07/22/81	5	22	
MNRR0107	Yes	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	10/24/79-08/24/81	1	15	
MNRR0012	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/26/73-06/23/75	2	7	
MNRR0026	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	07/30/69-10/27/72	3	33	
MNRR0038	No	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/21/75-05/24/77	1	20	
MNRR0086	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	03/23/76-08/24/94	18	70	
MNRR0103	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	05/19/77-05/19/77	0	1	
MNRR0105	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/15/75-11/16/81	6	21	
MNRR0107	Yes	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/24/79-09/10/86	6	45	
MNRR0007	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/24/76-11/29/77	1	16	
MNRR0012	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	19	158	
MNRR0017	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/14/76-11/29/77	1	14	
MNRR0025	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/10/83-10/02/97	14	86	
MNRR0026	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/22/73-01/15/74	0	8	
MNRR0029	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/24/58-11/15/65	7	388	
MNRR0030	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/23/76-11/29/77	1	12	
MNRR0033	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/18/89-02/20/90	0	4	
MNRR0035	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/27/89-08/01/89	0	2	
MNRR0036	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/27/89-08/01/89	0	2	
MNRR0038	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/21/77-09/20/77	0	4	
MNRR0040	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	26	188	T,S
MNRR0042	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/18/82-10/02/97	14	78	
MNRR0046	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/21/78-07/28/79	0	4	
MNRR0047	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/68-10/14/68	0	2	
MNRR0048	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/25/76-10/02/97	21	133	
MNRR0055	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/28/82-10/10/96	14	71	
MNRR0060	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/03/73-11/29/77	4	19	
MNRR0066	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/09/69-05/09/69	0	1	
MNRR0071	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/09/69-11/15/77	8	8	
MNRR0072	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/11/61-12/21/80	19	65	
MNRR0073	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/08/94-07/08/94	0	1	
MNRR0079	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/03/73-11/15/77	4	12	
MNRR0080	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/75-06/24/80	4	49	
MNRR0082	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/17/72-02/10/76	3	30	
MNRR0085	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/23/90-04/13/93	3	39	
MNRR0086	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/18/73-11/04/92	19	183	
MNRR0088	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/21/78-04/26/78	0	2	
MNRR0090	No	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/19/78-06/19/79	0	2	
MNRR0103	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/14/72-08/26/97	25	83	S
MNRR0105	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/23/77-03/18/81	3	24	
MNRR0107	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/19/77-09/10/86	8	40	
MNRR0109	Yes	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/13/76-08/26/97	21	139	
MNRR0109	Yes	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	09/15/77-09/15/77	0	1	
MNRR0012	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	12/01/77-09/25/78	0	5	
MNRR0026	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	07/30/69-01/15/74	4	34	
MNRR0038	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/18/77-09/20/77	0	9	
MNRR0046	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/21/78-07/28/79	0	4	
MNRR0086	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	09/20/77-08/24/94	16	35	
MNRR0090	No	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	12/19/78-06/19/79	0	2	
MNRR0105	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/19/77-03/18/81	4	29	
MNRR0107	Yes	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/20/85-09/10/86	0	6	
MNRR0025	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/10/83-10/02/97	14	46	
MNRR0040	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/27/76-10/02/97	20	83	
MNRR0042	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/18/82-10/02/97	14	37	
MNRR0048	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/30/82-10/02/97	15	48	
MNRR0055	No	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	06/28/82-10/10/96	14	33	
MNRR0086	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/26/82-11/04/92	10	18	
MNRR0103	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/27/78-07/14/97	19	32	
MNRR0109	Yes	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/10/80-07/14/97	16	38	
MNRR0109	Yes	00616	NITRITE NITROGEN, BOTTOM DEPOS. (MG/KG-N DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0026	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	07/30/69-01/15/74	4	41	
MNRR0040	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	05/14/79-12/03/79	0	4	
MNRR0078	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/15/69-01/15/69	0	1	
MNRR0080	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/70-04/29/71	0	2	
MNRR0096	No	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/70-10/29/70	0	1	
MNRR0099	Yes	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	09/12/69-09/12/69	0	1	
MNRR0025	No	00619	AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	02/10/83-10/02/97	14	86	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0040	No	00619	AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	05/23/80-10/02/97	17	110	
MNRR0042	No	00619	AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	10/18/82-10/02/97	14	78	
MNRR0048	No	00619	AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	06/17/80-10/02/97	17	101	
MNRR0055	No	00619	AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	06/28/82-10/10/96	14	71	
MNRR0103	Yes	00619	AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	02/23/87-08/26/97	10	48	
MNRR0109	Yes	00619	AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	05/21/80-08/26/97	17	92	
MNRR0025	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/10/83-10/02/97	14	86	
MNRR0040	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	29	219	T,S
MNRR0042	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/18/82-10/02/97	14	78	
MNRR0048	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/12/76-10/02/97	21	133	
MNRR0055	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	06/28/82-10/10/96	14	71	
MNRR0072	No	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/11/61-11/10/64	3	44	
MNRR0082	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-02/10/76	7	62	
MNRR0086	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/18/82-02/22/83	0	3	
MNRR0103	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/08/68-08/26/97	29	113	S
MNRR0109	Yes	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/13/76-08/26/97	21	136	
MNRR0109	Yes	00621	NITRATE NITROGEN, BOTTOM DEPOS. (MG/KG-N DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0040	No	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	11/29/77-11/29/77	0	1	
MNRR0086	Yes	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	03/23/76-08/19/91	15	41	
MNRR0107	Yes	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/27/77-08/24/81	3	32	
MNRR0086	Yes	00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	03/23/76-07/22/81	5	39	
MNRR0107	Yes	00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	01/30/78-08/24/81	3	30	
MNRR0012	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/26/74-12/09/74	0	10	
MNRR0025	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/18/83-10/02/97	14	85	
MNRR0026	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/23/72-01/15/74	1	10	
MNRR0033	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/18/89-02/20/90	0	4	
MNRR0035	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/89-08/01/89	0	2	
MNRR0036	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/89-08/01/89	0	2	
MNRR0040	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	20	154	
MNRR0042	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/18/82-10/02/97	14	78	
MNRR0046	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/21/78-07/28/79	0	4	
MNRR0048	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/12/76-10/02/97	21	119	
MNRR0055	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/28/82-10/10/96	14	71	
MNRR0072	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/26/78-12/21/80	2	29	
MNRR0073	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/08/94-07/08/94	0	1	
MNRR0080	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/75-06/24/80	4	49	
MNRR0085	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/23/90-04/13/93	3	39	
MNRR0086	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/18/73-08/24/94	21	188	
MNRR0090	No	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	12/19/78-06/19/79	0	2	
MNRR0103	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/77-08/26/97	19	50	
MNRR0107	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/07/74-09/10/86	11	77	
MNRR0109	Yes	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/13/76-08/26/97	21	117	
MNRR0109	Yes	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	09/15/77-09/15/77	0	1	
MNRR0007	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/29/73-11/29/77	4	31	
MNRR0012	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/68-10/22/97	28	110	S
MNRR0017	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/29/73-11/29/77	4	28	
MNRR0026	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/22/73-01/15/74	0	8	
MNRR0029	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/07/64-09/03/68	3	38	
MNRR0030	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/29/73-11/29/77	4	25	
MNRR0033	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/18/89-02/20/90	0	4	
MNRR0035	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/89-08/01/89	0	2	
MNRR0036	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/89-08/01/89	0	2	
MNRR0038	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/23/75-09/20/77	1	25	
MNRR0040	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/14/71-01/31/79	7	9	
MNRR0046	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/21/78-07/28/79	0	4	
MNRR0047	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/68-10/14/68	0	2	
MNRR0051	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/23/90-03/26/97	6	10	
MNRR0060	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-11/29/77	9	40	
MNRR0066	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-10/03/73	5	13	
MNRR0071	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-11/15/77	9	26	
MNRR0072	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-12/21/80	12	153	
MNRR0073	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/08/94-07/08/94	0	1	
MNRR0079	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-11/15/77	9	89	
MNRR0080	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/75-06/24/80	4	49	
MNRR0082	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/14/71-11/15/71	0	8	
MNRR0085	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/16/68-04/13/93	24	48	
MNRR0086	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/04/73-11/04/92	19	163	
MNRR0088	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/21/78-04/26/78	0	2	
MNRR0090	No	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/19/78-06/19/79	0	2	
MNRR0103	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/14/71-11/16/71	0	8	
MNRR0105	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/22/75-11/16/81	6	46	
MNRR0107	Yes	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/74-08/24/81	6	50	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0015	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/05/89-10/18/89	0	3	
MNRR0022	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/22/80-10/22/80	0	1	
MNRR0026	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/30/71-01/15/74	2	22	
MNRR0058	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/23/90-04/23/90	0	1	
MNRR0063	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/23/90-04/23/90	0	1	
MNRR0080	No	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	11/15/78-05/13/80	1	5	
MNRR0086	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	04/18/73-08/24/94	21	94	
MNRR0107	Yes	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	09/24/79-09/10/86	6	46	
MNRR0029	Yes	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	12/07/64-11/04/68	3	38	
MNRR0029	Yes	00636	NITROGEN, AMMONIA&ORG., DISS. 1 DET (MG/L AS N)	01/04/65-09/06/66	1	10	
MNRR0040	No	00637	DITHIOCARBAMATE,REPRTD AS DITHIOCARBONATE,WTR,MG/L	01/31/79-01/31/79	0	1	
MNRR0029	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	10/07/68-10/27/69	1	14	
MNRR0040	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	07/11/71-02/09/76	4	27	
MNRR0048	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/12/76-09/20/76	0	4	
MNRR0060	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/16/68-10/04/72	4	8	
MNRR0066	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/16/68-04/16/73	4	11	
MNRR0071	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/16/68-10/04/72	4	10	
MNRR0072	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/11/61-07/09/75	14	108	
MNRR0079	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/16/68-05/07/73	4	52	
MNRR0080	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/09/79-06/11/79	0	3	
MNRR0082	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/17/72-02/10/76	3	33	
MNRR0085	No	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	05/16/68-10/04/72	4	9	
MNRR0086	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/10/79-04/10/79	0	1	
MNRR0103	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/14/72-02/10/76	3	22	
MNRR0107	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/19/79-12/15/80	1	4	
MNRR0109	Yes	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/13/76-09/21/76	0	4	
MNRR0029	Yes	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	03/27/61-09/30/68	7	375	
MNRR0007	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/24/76-11/29/77	1	18	
MNRR0017	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/14/76-11/29/77	1	16	
MNRR0022	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/22/80-10/22/80	0	1	
MNRR0026	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/23/72-01/15/74	1	10	
MNRR0030	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	02/23/76-11/29/77	1	12	
MNRR0040	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/25/69-01/09/73	3	15	
MNRR0048	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/25/76-05/25/76	0	1	
MNRR0051	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	08/23/90-08/23/90	0	1	
MNRR0060	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/12/76-11/29/77	1	19	
MNRR0071	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/23/76-11/15/77	1	7	
MNRR0072	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/12/76-01/22/80	4	45	
MNRR0079	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/23/76-11/15/77	1	9	
MNRR0082	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	04/24/69-07/10/75	6	15	
MNRR0086	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	10/04/73-02/22/83	9	6	
MNRR0088	No	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/21/78-04/26/78	0	2	
MNRR0103	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/01/69-09/25/73	4	22	
MNRR0107	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	03/02/82-01/28/83	0	5	
MNRR0109	Yes	00660	PHOSPHATE, ORTHO (MG/L AS PO4)	05/26/76-05/26/76	0	1	
MNRR0012	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	14	146	
MNRR0025	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/10/83-10/02/97	14	86	
MNRR0026	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/30/69-01/15/74	4	41	
MNRR0029	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/07/64-11/04/68	3	36	
MNRR0033	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/18/89-10/30/89	0	3	
MNRR0035	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/27/89-08/01/89	0	2	
MNRR0036	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/27/89-08/01/89	0	2	
MNRR0040	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	29	172	T,S
MNRR0042	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/18/82-10/02/97	14	78	
MNRR0047	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/68-10/14/68	0	2	
MNRR0048	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/25/76-10/02/97	21	133	
MNRR0055	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/28/82-10/10/96	14	71	
MNRR0058	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/23/90-04/23/90	0	1	
MNRR0063	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/23/90-04/23/90	0	1	
MNRR0072	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/26/78-12/21/80	2	29	
MNRR0073	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/08/94-07/08/94	0	1	
MNRR0080	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/75-06/24/80	4	49	
MNRR0082	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-02/10/76	7	16	
MNRR0085	No	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/23/90-04/13/93	3	39	
MNRR0086	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/18/73-08/24/94	21	191	
MNRR0103	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/08/68-08/26/97	29	63	S
MNRR0107	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/07/74-09/10/86	11	79	
MNRR0109	Yes	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-08/26/97	21	134	
MNRR0022	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/22/80-10/22/80	0	1	
MNRR0026	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/30/69-06/17/70	0	12	
MNRR0029	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	12/07/64-01/01/71	6	36	
MNRR0040	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/69-12/18/79	10	33	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0048	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	02/21/78-10/04/79	1	14	
MNRR0058	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/23/90-04/23/90	0	1	
MNRR0063	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/23/90-04/23/90	0	1	
MNRR0080	No	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	07/16/75-05/13/80	4	24	
MNRR0082	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/24/69-09/08/69	0	6	
MNRR0086	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/18/73-08/24/94	21	123	
MNRR0103	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/01/69-10/24/79	10	13	
MNRR0107	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	09/19/77-09/10/86	8	63	
MNRR0109	Yes	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/25/77-10/04/79	1	23	
MNRR0109	Yes	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0012	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/77-04/25/95	17	117	
MNRR0022	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/22/80-10/22/80	0	1	
MNRR0026	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/23/72-01/15/74	1	10	
MNRR0035	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/27/89-08/01/89	0	2	
MNRR0036	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/27/89-08/01/89	0	2	
MNRR0038	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/16/77-08/16/77	0	1	
MNRR0040	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/72-12/18/79	7	32	
MNRR0048	No	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/26/77-10/04/79	1	15	
MNRR0082	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/72-01/10/73	0	8	
MNRR0086	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/04/73-08/24/94	20	50	
MNRR0103	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/14/72-10/24/79	7	35	
MNRR0105	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/16/81-11/16/81	0	1	
MNRR0107	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/19/81-09/10/86	4	30	
MNRR0109	Yes	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/25/77-10/04/79	1	26	
MNRR0040	No	00678	PHOSPHORUS,HYDROLYZABLE + ORTHO,TOT,AUTOANALYZER	05/20/77-12/18/79	2	31	
MNRR0048	No	00678	PHOSPHORUS,HYDROLYZABLE + ORTHO,TOT,AUTOANALYZER	05/20/77-10/04/79	2	23	
MNRR0082	Yes	00678	PHOSPHORUS,HYDROLYZABLE + ORTHO,TOT,AUTOANALYZER	10/24/78-10/11/79	0	8	
MNRR0109	Yes	00678	PHOSPHORUS,HYDROLYZABLE + ORTHO,TOT,AUTOANALYZER	05/18/77-10/04/79	2	36	
MNRR0026	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/30/69-07/16/70	0	12	
MNRR0029	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/01/65-11/04/68	3	30	
MNRR0033	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/18/89-02/20/90	0	4	
MNRR0040	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	11/17/76-12/18/79	3	36	
MNRR0047	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/07/68-10/14/68	0	2	
MNRR0048	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/19/77-10/04/79	2	25	
MNRR0051	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/23/90-08/23/90	0	1	
MNRR0085	No	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/23/90-11/17/92	2	35	
MNRR0086	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/23/76-08/29/89	13	123	
MNRR0107	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	10/07/74-08/24/81	6	23	
MNRR0109	Yes	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/20/77-10/04/79	2	38	
MNRR0029	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/05/65-11/04/68	3	24	
MNRR0086	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/28/78-02/24/81	2	10	
MNRR0107	Yes	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	01/30/78-04/27/81	3	13	
MNRR0086	Yes	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	06/20/78-02/24/81	2	9	
MNRR0107	Yes	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	01/30/78-04/27/81	3	11	
MNRR0025	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/12/83-10/02/97	14	22	
MNRR0040	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/31/80-10/02/97	17	29	
MNRR0042	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	10/18/82-10/02/97	14	23	
MNRR0048	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	08/13/80-10/02/97	17	28	
MNRR0051	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	11/06/95-11/06/95	0	1	
MNRR0055	No	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	06/28/82-10/10/96	14	23	
MNRR0103	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/30/80-10/11/95	15	17	
MNRR0109	Yes	00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	08/13/80-10/11/95	15	26	
MNRR0040	No	00722	CYANIDE, FREE (AMENABLE TO CHLORINATION) MG/L	07/28/81-07/28/81	0	1	
MNRR0007	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/29/73-07/09/75	1	14	
MNRR0009	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/14/72-07/14/72	0	1	
MNRR0012	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/11/68-02/28/95	26	84	S
MNRR0017	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/29/73-07/09/75	1	13	
MNRR0022	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/22/80-10/22/80	0	1	
MNRR0023	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/31/72-07/31/72	0	1	
MNRR0024	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/13/72-07/13/72	0	1	
MNRR0025	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/10/83-10/02/97	14	86	
MNRR0026	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/01/56-01/15/74	17	84	
MNRR0027	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/01/88-09/30/97	9	3516	
MNRR0029	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	17	798	A
MNRR0030	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	11/29/73-07/09/75	1	13	
MNRR0038	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/23/75-09/20/77	1	25	
MNRR0040	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	29	222	T,S
MNRR0042	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/82-10/02/97	14	78	
MNRR0047	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/68-10/14/68	0	2	
MNRR0048	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/21/78-10/02/97	19	114	
MNRR0051	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/02/94-03/26/97	2	5	
MNRR0054	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/12/72-07/12/72	0	1	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0055	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	06/28/82-10/10/96	14	71	
MNRR0060	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/16/68-07/09/75	7	23	
MNRR0066	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/16/68-11/26/73	5	15	
MNRR0071	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/16/68-10/28/75	7	22	
MNRR0072	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/10/62-11/05/75	13	138	
MNRR0078	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	01/15/69-01/15/69	0	1	
MNRR0079	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/16/68-07/09/75	7	85	
MNRR0080	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/29/70-05/13/80	9	18	
MNRR0081	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	07/17/72-07/17/72	0	1	
MNRR0082	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-02/10/76	7	70	
MNRR0085	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/16/68-06/07/73	5	10	
MNRR0086	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/10/73-02/12/86	12	73	
MNRR0096	No	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/29/70-10/29/70	0	1	
MNRR0099	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/12/69-09/12/69	0	1	
MNRR0103	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/08/68-08/26/97	29	125	S
MNRR0105	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/22/75-08/18/77	1	24	
MNRR0107	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/07/74-01/28/83	8	57	
MNRR0109	Yes	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/21/78-08/26/97	19	103	
MNRR0027	Yes	00901	HARDNESS, CARBONATE (MG/L AS CACO3)	01/01/88-09/30/97	9	3516	
MNRR0040	No	00901	HARDNESS, CARBONATE (MG/L AS CACO3)	04/25/69-11/06/69	0	8	
MNRR0082	Yes	00901	HARDNESS, CARBONATE (MG/L AS CACO3)	04/24/69-11/06/69	0	8	
MNRR0103	Yes	00901	HARDNESS, CARBONATE (MG/L AS CACO3)	05/01/69-11/05/69	0	8	
MNRR0022	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/22/80-10/22/80	0	1	
MNRR0026	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/01/56-01/15/74	17	71	
MNRR0027	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/01/88-09/30/97	9	3516	
MNRR0078	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/15/69-01/15/69	0	1	
MNRR0080	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/29/70-05/13/80	9	18	
MNRR0086	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/10/73-08/05/80	7	49	
MNRR0096	No	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/29/70-10/29/70	0	1	
MNRR0099	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/12/69-09/12/69	0	1	
MNRR0107	Yes	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/07/74-12/15/80	6	45	
MNRR0012	No	00910	CALCIUM (MG/L AS CACO3)	12/11/68-12/27/72	4	2	
MNRR0040	No	00910	CALCIUM (MG/L AS CACO3)	11/13/68-12/03/75	7	32	
MNRR0082	Yes	00910	CALCIUM (MG/L AS CACO3)	11/13/68-12/02/75	7	30	
MNRR0103	Yes	00910	CALCIUM (MG/L AS CACO3)	03/14/72-12/02/75	3	22	
MNRR0007	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/29/73-07/09/75	1	14	
MNRR0012	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/26/74-06/04/74	0	3	
MNRR0017	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/29/73-07/09/75	1	13	
MNRR0022	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/22/80-10/22/80	0	1	
MNRR0026	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/01/56-01/15/74	17	61	
MNRR0030	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/29/73-07/09/75	1	13	
MNRR0033	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/18/89-02/20/90	0	4	
MNRR0038	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/21/75-10/21/75	0	1	
MNRR0047	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/07/68-01/27/69	0	3	
MNRR0058	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/23/90-04/23/90	0	1	
MNRR0060	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/68-07/09/75	6	21	
MNRR0063	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/23/90-04/23/90	0	1	
MNRR0066	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/68-11/26/73	5	13	
MNRR0071	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/68-10/28/75	7	19	
MNRR0072	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/22/68-12/21/80	12	133	
MNRR0078	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/15/69-01/15/69	0	1	
MNRR0079	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/05/68-07/09/75	6	82	
MNRR0080	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/19/75-05/13/80	4	17	
MNRR0085	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/30/68-04/13/93	24	47	
MNRR0086	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/10/73-08/24/94	21	175	
MNRR0088	No	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/21/78-04/26/78	0	2	
MNRR0099	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/12/69-09/12/69	0	1	
MNRR0107	Yes	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/07/74-09/10/86	11	80	
MNRR0012	No	00916	CALCIUM, TOTAL (MG/L AS CA)	12/11/68-08/27/97	28	69	S
MNRR0025	No	00916	CALCIUM, TOTAL (MG/L AS CA)	06/07/83-08/06/97	14	29	
MNRR0038	No	00916	CALCIUM, TOTAL (MG/L AS CA)	09/23/75-09/20/77	1	25	
MNRR0040	No	00916	CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	20	94	
MNRR0042	No	00916	CALCIUM, TOTAL (MG/L AS CA)	10/18/82-08/06/97	14	30	
MNRR0048	No	00916	CALCIUM, TOTAL (MG/L AS CA)	05/30/79-08/06/97	18	49	
MNRR0051	No	00916	CALCIUM, TOTAL (MG/L AS CA)	08/23/90-03/26/97	6	6	
MNRR0055	No	00916	CALCIUM, TOTAL (MG/L AS CA)	06/28/82-08/05/96	14	30	
MNRR0073	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	07/08/94-07/08/94	0	1	
MNRR0082	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	02/10/76-02/10/76	0	1	
MNRR0103	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	06/25/87-08/26/97	10	21	
MNRR0105	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	09/22/75-08/18/77	1	24	
MNRR0109	Yes	00916	CALCIUM, TOTAL (MG/L AS CA)	05/01/79-08/26/97	18	52	
MNRR0012	No	00920	MAGNESIUM (MG/L AS CACO3)	12/11/68-12/27/72	4	2	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0040	No	00920	MAGNESIUM (MG/L AS CACO3)	02/06/73-12/03/75	2	26	
MNRR0082	Yes	00920	MAGNESIUM (MG/L AS CACO3)	03/17/72-12/02/75	3	32	
MNRR0103	Yes	00920	MAGNESIUM (MG/L AS CACO3)	01/14/72-12/02/75	3	23	
MNRR0007	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/29/73-07/09/75	1	14	
MNRR0012	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/26/74-06/04/74	0	3	
MNRR0017	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/29/73-07/09/75	1	13	
MNRR0022	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/22/80-10/22/80	0	1	
MNRR0026	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/01/56-01/15/74	17	61	
MNRR0030	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/29/73-07/09/75	1	13	
MNRR0033	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/18/89-02/20/90	0	4	
MNRR0047	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/68-01/27/69	0	3	
MNRR0058	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/23/90-04/23/90	0	1	
MNRR0060	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/68-07/09/75	6	21	
MNRR0063	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/23/90-04/23/90	0	1	
MNRR0066	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/68-11/26/73	5	13	
MNRR0071	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/68-10/28/75	7	19	
MNRR0072	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/22/68-12/21/80	12	133	
MNRR0078	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/15/69-01/15/69	0	1	
MNRR0079	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/05/68-07/09/75	6	82	
MNRR0080	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/19/75-05/13/80	4	17	
MNRR0085	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/30/68-04/13/93	24	47	
MNRR0086	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/10/73-08/24/94	21	175	
MNRR0088	No	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/21/78-04/26/78	0	2	
MNRR0099	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/12/69-09/12/69	0	1	
MNRR0107	Yes	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/74-09/10/86	11	80	
MNRR0012	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/11/68-08/27/97	28	69	S
MNRR0025	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/07/83-08/06/97	14	29	
MNRR0038	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/23/75-09/20/77	1	25	
MNRR0040	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	21	87	
MNRR0042	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/18/82-08/06/97	14	30	
MNRR0048	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/30/79-08/06/97	18	49	
MNRR0051	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/23/90-03/26/97	6	6	
MNRR0055	No	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/28/82-08/05/96	14	30	
MNRR0073	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/08/94-07/08/94	0	1	
MNRR0082	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/10/76-02/10/76	0	1	
MNRR0103	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/10/76-08/26/97	21	22	
MNRR0105	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	09/22/75-08/18/77	1	24	
MNRR0109	Yes	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/01/79-08/26/97	18	52	
MNRR0012	No	00929	SODIUM, TOTAL (MG/L AS NA)	12/11/68-08/27/97	28	70	S
MNRR0025	No	00929	SODIUM, TOTAL (MG/L AS NA)	06/07/83-08/06/97	14	29	
MNRR0029	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	08/06/73-08/06/73	0	1	
MNRR0038	No	00929	SODIUM, TOTAL (MG/L AS NA)	09/23/75-09/20/77	1	25	
MNRR0040	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/09/76-08/06/97	21	79	
MNRR0042	No	00929	SODIUM, TOTAL (MG/L AS NA)	10/18/82-08/06/97	14	30	
MNRR0048	No	00929	SODIUM, TOTAL (MG/L AS NA)	02/21/78-08/06/97	19	44	
MNRR0051	No	00929	SODIUM, TOTAL (MG/L AS NA)	08/23/90-03/26/97	6	6	
MNRR0055	No	00929	SODIUM, TOTAL (MG/L AS NA)	06/28/82-08/05/96	14	30	
MNRR0082	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	02/10/76-02/10/76	0	1	
MNRR0103	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	02/10/76-08/26/97	21	22	
MNRR0105	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	09/22/75-11/16/81	6	44	
MNRR0109	Yes	00929	SODIUM, TOTAL (MG/L AS NA)	05/01/79-08/26/97	18	43	
MNRR0007	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/29/73-11/29/77	4	31	
MNRR0012	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/11/68-06/04/74	5	5	
MNRR0017	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/29/73-11/29/77	4	28	
MNRR0022	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/22/80-10/22/80	0	1	
MNRR0026	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/01/56-01/15/74	17	58	
MNRR0029	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/01/63-07/01/70	7	14	
MNRR0030	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/29/73-11/29/77	4	26	
MNRR0033	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/18/89-02/20/90	0	4	
MNRR0040	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/25/69-12/03/75	6	46	
MNRR0058	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/23/90-04/23/90	0	1	
MNRR0060	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-11/29/77	9	40	
MNRR0063	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/23/90-04/23/90	0	1	
MNRR0066	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-11/26/73	5	14	
MNRR0071	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-11/15/77	9	26	
MNRR0072	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-12/21/80	12	154	
MNRR0078	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/15/69-01/15/69	0	1	
MNRR0079	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-11/15/77	9	92	
MNRR0080	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/70-05/13/80	9	18	
MNRR0082	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/17/72-12/02/75	3	32	
MNRR0085	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/16/68-04/13/93	24	48	
MNRR0086	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/10/73-08/24/94	21	170	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0088	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/21/78-04/26/78	0	2	
MNRR0096	No	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/70-10/29/70	0	1	
MNRR0099	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/12/69-09/12/69	0	1	
MNRR0103	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/01/69-12/02/75	6	42	
MNRR0107	Yes	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/07/74-09/10/86	11	80	
MNRR0007	No	00931	SODIUM ADSORPTION RATIO	11/29/73-07/09/75	1	14	
MNRR0017	No	00931	SODIUM ADSORPTION RATIO	11/29/73-07/09/75	1	13	
MNRR0022	No	00931	SODIUM ADSORPTION RATIO	10/22/80-10/22/80	0	1	
MNRR0025	No	00931	SODIUM ADSORPTION RATIO	06/07/83-08/06/97	14	29	
MNRR0026	Yes	00931	SODIUM ADSORPTION RATIO	10/01/56-01/15/74	17	58	
MNRR0030	No	00931	SODIUM ADSORPTION RATIO	11/29/73-07/09/75	1	13	
MNRR0040	No	00931	SODIUM ADSORPTION RATIO	05/23/80-08/06/97	17	38	
MNRR0042	No	00931	SODIUM ADSORPTION RATIO	10/18/82-08/06/97	14	30	
MNRR0048	No	00931	SODIUM ADSORPTION RATIO	07/09/80-08/06/97	17	36	
MNRR0055	No	00931	SODIUM ADSORPTION RATIO	06/28/82-08/05/96	14	29	
MNRR0060	No	00931	SODIUM ADSORPTION RATIO	05/16/68-07/09/75	7	22	
MNRR0066	No	00931	SODIUM ADSORPTION RATIO	05/16/68-11/26/73	5	14	
MNRR0071	No	00931	SODIUM ADSORPTION RATIO	05/16/68-05/16/75	7	17	
MNRR0072	No	00931	SODIUM ADSORPTION RATIO	05/16/68-07/09/75	7	93	
MNRR0078	No	00931	SODIUM ADSORPTION RATIO	01/15/69-01/15/69	0	1	
MNRR0079	No	00931	SODIUM ADSORPTION RATIO	05/16/68-07/09/75	7	82	
MNRR0080	No	00931	SODIUM ADSORPTION RATIO	10/29/70-05/13/80	9	18	
MNRR0085	No	00931	SODIUM ADSORPTION RATIO	05/16/68-10/04/72	4	9	
MNRR0086	Yes	00931	SODIUM ADSORPTION RATIO	05/10/73-02/12/86	12	67	
MNRR0096	No	00931	SODIUM ADSORPTION RATIO	10/29/70-10/29/70	0	1	
MNRR0099	Yes	00931	SODIUM ADSORPTION RATIO	09/12/69-09/12/69	0	1	
MNRR0103	Yes	00931	SODIUM ADSORPTION RATIO	06/25/87-08/26/97	10	20	
MNRR0107	Yes	00931	SODIUM ADSORPTION RATIO	10/07/74-01/28/83	8	57	
MNRR0109	Yes	00931	SODIUM ADSORPTION RATIO	07/09/80-08/26/97	17	37	
MNRR0022	No	00932	SODIUM, PERCENT	10/22/80-10/22/80	0	1	
MNRR0026	Yes	00932	SODIUM, PERCENT	10/01/56-01/15/74	17	58	
MNRR0078	No	00932	SODIUM, PERCENT	01/15/69-01/15/69	0	1	
MNRR0080	No	00932	SODIUM, PERCENT	10/29/70-05/13/80	9	18	
MNRR0086	Yes	00932	SODIUM, PERCENT	05/10/73-02/12/86	12	64	
MNRR0096	No	00932	SODIUM, PERCENT	10/29/70-10/29/70	0	1	
MNRR0099	Yes	00932	SODIUM, PERCENT	09/12/69-09/12/69	0	1	
MNRR0107	Yes	00932	SODIUM, PERCENT	10/07/74-01/28/83	8	57	
MNRR0080	No	00933	SODIUM,PLUS POTASSIUM (MG/L)	05/23/79-02/20/80	0	4	
MNRR0086	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	07/24/79-03/19/80	0	9	
MNRR0107	Yes	00933	SODIUM,PLUS POTASSIUM (MG/L)	04/19/79-02/27/80	0	8	
MNRR0007	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/29/73-07/09/75	1	14	
MNRR0012	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/11/68-06/04/74	5	5	
MNRR0017	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/29/73-07/09/75	1	13	
MNRR0022	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/22/80-10/22/80	0	1	
MNRR0026	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/01/56-01/15/74	17	42	
MNRR0029	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/01/63-07/01/70	7	14	
MNRR0030	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/29/73-07/09/75	1	13	
MNRR0033	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/18/89-02/20/90	0	4	
MNRR0040	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	02/06/73-12/03/75	2	26	
MNRR0058	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/23/90-04/23/90	0	1	
MNRR0060	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/68-07/09/75	7	22	
MNRR0063	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/23/90-04/23/90	0	1	
MNRR0066	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/68-11/26/73	5	14	
MNRR0071	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/68-10/28/75	7	20	
MNRR0072	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/68-11/05/75	7	100	
MNRR0078	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/15/69-01/15/69	0	1	
MNRR0079	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/68-07/09/75	7	83	
MNRR0080	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/19/75-05/13/80	4	17	
MNRR0082	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/17/72-12/02/75	3	32	
MNRR0085	No	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/16/68-10/04/72	4	9	
MNRR0086	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/10/73-08/24/94	21	106	
MNRR0099	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/12/69-09/12/69	0	1	
MNRR0103	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/14/72-12/02/75	3	23	
MNRR0107	Yes	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/07/74-09/10/86	11	80	
MNRR0012	No	00937	POTASSIUM, TOTAL MG/L AS K)	12/11/68-06/23/75	6	15	
MNRR0025	No	00937	POTASSIUM, TOTAL MG/L AS K)	06/07/83-08/06/97	14	29	
MNRR0038	No	00937	POTASSIUM, TOTAL MG/L AS K)	09/23/75-09/20/77	1	25	
MNRR0040	No	00937	POTASSIUM, TOTAL MG/L AS K)	02/09/76-08/06/97	21	71	
MNRR0042	No	00937	POTASSIUM, TOTAL MG/L AS K)	10/18/82-08/06/97	14	30	
MNRR0048	No	00937	POTASSIUM, TOTAL MG/L AS K)	06/30/82-08/06/97	15	31	
MNRR0051	No	00937	POTASSIUM, TOTAL MG/L AS K)	08/23/90-08/23/90	0	1	
MNRR0055	No	00937	POTASSIUM, TOTAL MG/L AS K)	06/28/82-08/05/96	14	29	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0082	Yes	00937	POTASSIUM, TOTAL MG/L AS K)		02/10/76-02/10/76	0	1	
MNRR0103	Yes	00937	POTASSIUM, TOTAL MG/L AS K)		02/10/76-08/26/97	21	22	
MNRR0105	Yes	00937	POTASSIUM, TOTAL MG/L AS K)		09/22/75-08/18/77	1	24	
MNRR0109	Yes	00937	POTASSIUM, TOTAL MG/L AS K)		05/01/79-08/26/97	18	37	
MNRR0007	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	11/29/73-11/29/77	4	31	
MNRR0012	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	12/11/68-06/23/75	6	18	
MNRR0017	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	11/29/73-11/29/77	4	28	
MNRR0022	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/22/80-10/22/80	0	1	
MNRR0025	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	08/10/83-06/10/97	13	15	
MNRR0026	Yes	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/01/56-01/15/74	17	61	
MNRR0027	Yes	00940	CHLORIDE,TOTAL IN WATER	MG/L	01/28/88-09/25/97	9	99	
MNRR0029	Yes	00940	CHLORIDE,TOTAL IN WATER	MG/L	12/16/57-08/28/75	17	794	A
MNRR0030	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	11/29/73-11/29/77	4	26	
MNRR0033	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	04/18/89-02/20/90	0	4	
MNRR0038	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/23/75-09/20/77	1	25	
MNRR0040	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/01/68-06/10/97	29	145	T,S
MNRR0042	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/18/82-06/10/97	14	16	
MNRR0046	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	11/21/78-07/28/79	0	4	
MNRR0047	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/07/68-01/27/69	0	4	
MNRR0048	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	02/21/78-06/10/97	19	41	
MNRR0051	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	08/23/90-03/26/97	6	6	
MNRR0055	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	08/25/82-05/29/96	13	14	
MNRR0058	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	04/23/90-04/23/90	0	1	
MNRR0060	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/16/68-11/29/77	9	41	
MNRR0063	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	04/23/90-04/23/90	0	1	
MNRR0066	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/16/68-11/26/73	5	15	
MNRR0071	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/16/68-11/15/77	9	29	
MNRR0072	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/16/68-12/21/80	12	157	
MNRR0078	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	01/15/69-01/15/69	0	1	
MNRR0079	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/16/68-11/15/77	9	95	
MNRR0080	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/29/70-06/24/80	9	49	
MNRR0082	Yes	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/01/68-02/10/76	7	70	
MNRR0085	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/16/68-04/13/93	24	49	
MNRR0086	Yes	00940	CHLORIDE,TOTAL IN WATER	MG/L	04/18/73-08/24/94	21	190	
MNRR0088	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	03/21/78-04/26/78	0	2	
MNRR0090	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	12/19/78-06/19/79	0	2	
MNRR0096	No	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/29/70-10/29/70	0	1	
MNRR0099	Yes	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/12/69-09/12/69	0	1	
MNRR0103	Yes	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/08/68-06/11/97	29	89	S
MNRR0105	Yes	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/22/75-11/16/81	6	45	
MNRR0107	Yes	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/07/74-09/10/86	11	80	
MNRR0109	Yes	00940	CHLORIDE,TOTAL IN WATER	MG/L	02/23/78-06/11/97	19	44	
MNRR0007	No	00945	SULFATE, TOTAL (MG/L AS SO4)		11/29/73-07/09/75	1	14	
MNRR0012	No	00945	SULFATE, TOTAL (MG/L AS SO4)		12/11/68-06/23/75	6	18	
MNRR0017	No	00945	SULFATE, TOTAL (MG/L AS SO4)		11/29/73-07/09/75	1	13	
MNRR0022	No	00945	SULFATE, TOTAL (MG/L AS SO4)		10/22/80-10/22/80	0	1	
MNRR0025	No	00945	SULFATE, TOTAL (MG/L AS SO4)		05/18/83-10/02/97	14	43	
MNRR0026	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)		10/01/56-01/15/74	17	72	
MNRR0029	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)		01/08/62-11/12/68	6	39	
MNRR0030	No	00945	SULFATE, TOTAL (MG/L AS SO4)		11/29/73-07/09/75	1	13	
MNRR0033	No	00945	SULFATE, TOTAL (MG/L AS SO4)		04/18/89-02/20/90	0	4	
MNRR0038	No	00945	SULFATE, TOTAL (MG/L AS SO4)		09/23/75-09/20/77	1	25	
MNRR0040	No	00945	SULFATE, TOTAL (MG/L AS SO4)		05/01/68-10/02/97	29	174	T,S
MNRR0042	No	00945	SULFATE, TOTAL (MG/L AS SO4)		10/18/82-10/02/97	14	45	
MNRR0046	No	00945	SULFATE, TOTAL (MG/L AS SO4)		11/21/78-07/28/79	0	4	
MNRR0047	No	00945	SULFATE, TOTAL (MG/L AS SO4)		10/07/68-01/27/69	0	4	
MNRR0048	No	00945	SULFATE, TOTAL (MG/L AS SO4)		04/12/76-10/02/97	21	80	
MNRR0051	No	00945	SULFATE, TOTAL (MG/L AS SO4)		08/23/90-03/26/97	6	7	
MNRR0055	No	00945	SULFATE, TOTAL (MG/L AS SO4)		10/04/82-10/10/96	14	41	
MNRR0058	No	00945	SULFATE, TOTAL (MG/L AS SO4)		04/23/90-04/23/90	0	1	
MNRR0060	No	00945	SULFATE, TOTAL (MG/L AS SO4)		05/16/68-07/09/75	7	23	
MNRR0063	No	00945	SULFATE, TOTAL (MG/L AS SO4)		04/23/90-04/23/90	0	1	
MNRR0066	No	00945	SULFATE, TOTAL (MG/L AS SO4)		05/16/68-11/26/73	5	15	
MNRR0071	No	00945	SULFATE, TOTAL (MG/L AS SO4)		05/16/68-10/28/75	7	23	
MNRR0072	No	00945	SULFATE, TOTAL (MG/L AS SO4)		05/16/68-11/05/75	7	95	
MNRR0078	No	00945	SULFATE, TOTAL (MG/L AS SO4)		01/15/69-01/15/69	0	1	
MNRR0079	No	00945	SULFATE, TOTAL (MG/L AS SO4)		05/16/68-07/09/75	7	80	
MNRR0080	No	00945	SULFATE, TOTAL (MG/L AS SO4)		10/29/70-05/13/80	9	18	
MNRR0082	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)		05/01/68-02/10/76	7	67	
MNRR0085	No	00945	SULFATE, TOTAL (MG/L AS SO4)		05/16/68-06/07/73	5	10	
MNRR0086	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)		05/10/73-08/24/94	21	177	
MNRR0090	No	00945	SULFATE, TOTAL (MG/L AS SO4)		12/19/78-06/19/79	0	2	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0096	No	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/70-10/29/70	0	1	
MNRR0099	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/12/69-09/12/69	0	1	
MNRR0103	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/08/68-07/14/97	29	100	S
MNRR0105	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	09/22/75-11/16/81	6	45	
MNRR0107	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	10/07/74-09/10/86	11	80	
MNRR0109	Yes	00945	SULFATE, TOTAL (MG/L AS SO4)	05/26/76-07/14/97	21	77	
MNRR0012	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/11/68-03/26/74	5	6	
MNRR0022	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/22/80-10/22/80	0	1	
MNRR0026	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/01/56-01/15/74	17	42	
MNRR0029	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/01/63-10/01/68	5	12	
MNRR0058	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/23/90-04/23/90	0	1	
MNRR0060	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/16/68-08/30/68	0	2	
MNRR0063	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/23/90-04/23/90	0	1	
MNRR0066	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/16/68-05/09/69	0	3	
MNRR0071	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/16/68-05/09/69	0	3	
MNRR0072	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/16/68-05/09/69	0	3	
MNRR0079	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/16/68-05/16/68	0	1	
MNRR0080	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/19/75-05/13/80	4	17	
MNRR0085	No	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/16/68-05/09/69	0	3	
MNRR0086	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/10/73-08/24/94	21	108	
MNRR0107	Yes	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/07/74-09/10/86	11	80	
MNRR0040	No	00951	FLUORIDE, TOTAL (MG/L AS F)	10/27/76-12/03/79	3	35	
MNRR0048	No	00951	FLUORIDE, TOTAL (MG/L AS F)	04/12/76-10/04/79	3	19	
MNRR0082	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	04/08/76-09/12/78	2	12	
MNRR0109	Yes	00951	FLUORIDE, TOTAL (MG/L AS F)	04/13/76-10/04/79	3	20	
MNRR0022	No	00955	SILICA, DISSOLVED (MG/L AS SIO2)	10/22/80-10/22/80	0	1	
MNRR0026	Yes	00955	SILICA, DISSOLVED (MG/L AS SIO2)	10/01/56-01/15/74	17	42	
MNRR0058	No	00955	SILICA, DISSOLVED (MG/L AS SIO2)	04/23/90-04/23/90	0	1	
MNRR0063	No	00955	SILICA, DISSOLVED (MG/L AS SIO2)	04/23/90-04/23/90	0	1	
MNRR0080	No	00955	SILICA, DISSOLVED (MG/L AS SIO2)	11/19/75-05/13/80	4	17	
MNRR0086	Yes	00955	SILICA, DISSOLVED (MG/L AS SIO2)	05/10/73-08/24/94	21	109	
MNRR0107	Yes	00955	SILICA, DISSOLVED (MG/L AS SIO2)	10/07/74-09/10/86	11	80	
MNRR0051	No	00956	SILICA, TOTAL (MG/L AS SIO2)	08/23/90-08/23/90	0	1	
MNRR0029	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/01/62-10/01/71	9	19	
MNRR0033	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/18/89-02/20/90	0	4	
MNRR0047	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/07/68-10/14/68	0	2	
MNRR0058	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/23/90-04/23/90	0	1	
MNRR0063	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/23/90-04/23/90	0	1	
MNRR0080	No	01000	ARSENIC, DISSOLVED (UG/L AS AS)	11/19/75-05/13/80	4	10	
MNRR0086	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/04/73-08/19/91	17	67	
MNRR0107	Yes	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/07/74-05/06/86	11	36	
MNRR0086	Yes	01001	ARSENIC, SUSPENDED (UG/L AS AS)	03/23/76-05/18/82	6	13	
MNRR0107	Yes	01001	ARSENIC, SUSPENDED (UG/L AS AS)	10/07/74-08/17/82	7	16	
MNRR0025	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/07/83-10/02/97	14	44	
MNRR0040	No	01002	ARSENIC, TOTAL (UG/L AS AS)	04/12/76-10/02/97	21	97	
MNRR0042	No	01002	ARSENIC, TOTAL (UG/L AS AS)	10/18/82-10/02/97	14	38	
MNRR0048	No	01002	ARSENIC, TOTAL (UG/L AS AS)	04/12/76-10/02/97	21	71	
MNRR0051	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/13/95-01/08/97	1	2	
MNRR0055	No	01002	ARSENIC, TOTAL (UG/L AS AS)	06/28/82-10/10/96	14	35	
MNRR0056	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/11/92-03/11/92	0	1	
MNRR0063	No	01002	ARSENIC, TOTAL (UG/L AS AS)	04/02/85-04/02/85	0	1	
MNRR0068	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	07/08/94-07/08/94	0	1	
MNRR0085	No	01002	ARSENIC, TOTAL (UG/L AS AS)	03/20/90-02/16/93	2	13	
MNRR0086	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	03/23/76-08/22/89	13	44	
MNRR0103	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	04/08/76-06/11/97	21	26	
MNRR0107	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	10/07/74-08/17/82	7	21	
MNRR0109	Yes	01002	ARSENIC, TOTAL (UG/L AS AS)	04/13/76-06/11/97	21	65	
MNRR0056	No	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/08/94-07/08/94	0	1	
MNRR0109	Yes	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0043	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	09/10/91-09/10/91	0	1	
MNRR0029	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/01/62-10/01/71	9	19	
MNRR0040	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	01/31/80-01/27/82	1	6	
MNRR0047	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/07/68-10/07/68	0	1	
MNRR0048	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	02/21/78-02/19/79	0	7	
MNRR0080	No	01005	BARIUM, DISSOLVED (UG/L AS BA)	11/15/78-05/13/80	1	4	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0082	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	08/14/79-08/14/79	0	1	
MNRR0086	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/04/73-08/24/94	20	59	
MNRR0107	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	01/30/78-05/06/86	8	32	
MNRR0109	Yes	01005	BARIUM, DISSOLVED (UG/L AS BA)	07/20/78-09/10/80	2	3	
MNRR0086	Yes	01006	BARIUM, SUSPENDED (UG/L AS BA)	01/04/78-05/18/82	4	13	
MNRR0107	Yes	01006	BARIUM, SUSPENDED (UG/L AS BA)	01/30/78-01/18/82	3	14	
MNRR0025	No	01007	BARIUM, TOTAL (UG/L AS BA)	06/07/83-06/10/97	14	14	
MNRR0040	No	01007	BARIUM, TOTAL (UG/L AS BA)	04/12/76-06/10/97	21	58	
MNRR0042	No	01007	BARIUM, TOTAL (UG/L AS BA)	10/18/82-06/10/97	14	16	
MNRR0048	No	01007	BARIUM, TOTAL (UG/L AS BA)	04/12/76-06/10/97	21	34	
MNRR0051	No	01007	BARIUM, TOTAL (UG/L AS BA)	08/23/90-01/08/97	6	3	
MNRR0055	No	01007	BARIUM, TOTAL (UG/L AS BA)	06/28/82-05/29/96	13	15	
MNRR0073	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	07/08/94-07/08/94	0	1	
MNRR0082	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	04/08/76-09/12/78	2	13	
MNRR0086	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	01/04/78-05/16/84	6	20	
MNRR0103	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	04/08/76-06/11/97	21	27	
MNRR0107	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	01/30/78-08/17/82	4	17	
MNRR0109	Yes	01007	BARIUM, TOTAL (UG/L AS BA)	04/13/76-06/11/97	21	40	
MNRR0073	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	07/08/94-07/08/94	0	1	
MNRR0109	Yes	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0029	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/01/62-10/01/71	9	19	
MNRR0086	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/03/82-08/19/91	8	35	
MNRR0107	Yes	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	11/15/82-05/06/86	3	15	
MNRR0025	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/07/83-10/02/97	14	44	
MNRR0032	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	04/17/79-04/17/79	0	1	
MNRR0040	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	04/12/76-10/02/97	21	98	
MNRR0042	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/18/82-10/02/97	14	38	
MNRR0048	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	04/12/76-10/02/97	21	69	
MNRR0051	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	11/06/95-11/06/95	0	1	
MNRR0055	No	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/28/82-10/10/96	14	34	
MNRR0082	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	04/08/76-10/11/79	3	17	
MNRR0103	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	04/08/76-06/11/97	21	46	
MNRR0109	Yes	01012	BERYLLIUM, TOTAL (UG/L AS BE)	04/13/76-06/11/97	21	66	
MNRR0109	Yes	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0086	Yes	01017	BISMUTH, TOTAL (UG/L AS BI)	02/11/87-02/11/87	0	1	
MNRR0033	No	01018	IRON.TOTAL IN BOTTOM DEPOSITS (MG/KG WT WGT-FE)	07/10/89-07/10/89	0	1	
MNRR0034	No	01018	IRON.TOTAL IN BOTTOM DEPOSITS (MG/KG WT WGT-FE)	07/10/89-07/10/89	0	1	
MNRR0109	Yes	01018	IRON.TOTAL IN BOTTOM DEPOSITS (MG/KG WT WGT-FE)	09/15/77-09/15/77	0	1	
MNRR0109	Yes	01019	CADMIUM (CD), BOTTOM DEPOSITS, TOTAL, WET WT.MG/KG	09/15/77-09/15/77	0	1	
MNRR0022	No	01020	BORON, DISSOLVED (UG/L AS B)	10/22/80-10/22/80	0	1	
MNRR0026	Yes	01020	BORON, DISSOLVED (UG/L AS B)	10/01/56-06/06/59	2	32	
MNRR0029	Yes	01020	BORON, DISSOLVED (UG/L AS B)	10/01/62-10/01/71	9	19	
MNRR0047	No	01020	BORON, DISSOLVED (UG/L AS B)	10/07/68-10/14/68	0	2	
MNRR0058	No	01020	BORON, DISSOLVED (UG/L AS B)	04/23/90-04/23/90	0	1	
MNRR0060	No	01020	BORON, DISSOLVED (UG/L AS B)	05/16/68-08/30/68	0	2	
MNRR0063	No	01020	BORON, DISSOLVED (UG/L AS B)	04/02/85-04/23/90	5	2	
MNRR0066	No	01020	BORON, DISSOLVED (UG/L AS B)	05/09/69-05/09/69	0	1	
MNRR0071	No	01020	BORON, DISSOLVED (UG/L AS B)	08/30/68-05/09/69	0	2	
MNRR0072	No	01020	BORON, DISSOLVED (UG/L AS B)	07/22/68-05/09/69	0	10	
MNRR0079	No	01020	BORON, DISSOLVED (UG/L AS B)	11/05/68-04/07/69	0	4	
MNRR0080	No	01020	BORON, DISSOLVED (UG/L AS B)	11/19/75-05/13/80	4	17	
MNRR0085	No	01020	BORON, DISSOLVED (UG/L AS B)	08/30/68-05/09/69	0	2	
MNRR0086	Yes	01020	BORON, DISSOLVED (UG/L AS B)	05/10/73-09/25/79	6	25	
MNRR0025	No	01022	BORON, TOTAL (UG/L AS B)	06/07/83-06/10/97	14	21	
MNRR0032	No	01022	BORON, TOTAL (UG/L AS B)	04/17/79-04/17/79	0	1	
MNRR0040	No	01022	BORON, TOTAL (UG/L AS B)	04/12/76-06/10/97	21	76	
MNRR0042	No	01022	BORON, TOTAL (UG/L AS B)	10/18/82-06/10/97	14	23	
MNRR0048	No	01022	BORON, TOTAL (UG/L AS B)	04/12/76-06/10/97	21	49	
MNRR0055	No	01022	BORON, TOTAL (UG/L AS B)	06/28/82-05/29/96	13	23	
MNRR0082	Yes	01022	BORON, TOTAL (UG/L AS B)	05/09/78-10/11/79	1	13	
MNRR0103	Yes	01022	BORON, TOTAL (UG/L AS B)	04/08/76-06/11/97	21	37	
MNRR0109	Yes	01022	BORON, TOTAL (UG/L AS B)	04/13/76-06/11/97	21	53	
MNRR0048	No	01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	10/26/77-10/26/77	0	1	
MNRR0033	No	01024	CHROMIUM.TOTAL IN BOTTOM DEPOSITS (MG/KG.WET WGT)	07/10/89-07/10/89	0	1	
MNRR0034	No	01024	CHROMIUM.TOTAL IN BOTTOM DEPOSITS (MG/KG.WET WGT)	07/10/89-07/10/89	0	1	
MNRR0109	Yes	01024	CHROMIUM.TOTAL IN BOTTOM DEPOSITS (MG/KG.WET WGT)	09/15/77-09/15/77	0	1	
MNRR0028	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/01/72-08/22/73	1	5	
MNRR0029	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/01/62-10/01/71	9	19	
MNRR0033	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/18/89-02/20/90	0	4	
MNRR0047	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/07/68-10/07/68	0	1	
MNRR0080	No	01025	CADMIUM, DISSOLVED (UG/L AS CD)	11/19/75-05/13/80	4	10	
MNRR0086	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	03/20/74-08/19/91	17	52	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0107	Yes	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/07/74-05/06/86	11	36	
MNRR0086	Yes	01026	CADMIUM, SUSPENDED (UG/L AS CD)	03/23/76-02/24/81	4	12	
MNRR0107	Yes	01026	CADMIUM, SUSPENDED (UG/L AS CD)	10/07/74-01/30/80	5	12	
MNRR0025	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/07/83-10/02/97	14	45	
MNRR0032	No	01027	CADMIUM, TOTAL (UG/L AS CD)	04/17/79-04/17/79	0	1	
MNRR0040	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/27/76-10/02/97	20	97	
MNRR0042	No	01027	CADMIUM, TOTAL (UG/L AS CD)	10/18/82-10/02/97	14	39	
MNRR0048	No	01027	CADMIUM, TOTAL (UG/L AS CD)	04/12/76-10/02/97	21	71	
MNRR0051	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/13/95-01/08/97	1	2	
MNRR0055	No	01027	CADMIUM, TOTAL (UG/L AS CD)	06/28/82-10/10/96	14	37	
MNRR0056	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/11/92-03/11/92	0	1	
MNRR0063	No	01027	CADMIUM, TOTAL (UG/L AS CD)	04/02/85-04/02/85	0	1	
MNRR0068	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	07/08/94-07/08/94	0	1	
MNRR0085	No	01027	CADMIUM, TOTAL (UG/L AS CD)	03/20/90-02/16/93	2	13	
MNRR0086	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	03/23/76-08/22/89	13	44	
MNRR0103	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	06/25/87-06/11/97	9	22	
MNRR0107	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	10/07/74-08/17/82	7	21	
MNRR0109	Yes	01027	CADMIUM, TOTAL (UG/L AS CD)	04/13/76-06/11/97	21	68	
MNRR0056	No	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0056	No	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/08/94-07/08/94	0	1	
MNRR0028	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/01/72-08/22/73	1	5	
MNRR0029	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/01/62-10/01/71	9	19	
MNRR0033	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/18/89-02/20/90	0	4	
MNRR0047	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/07/68-10/07/68	0	1	
MNRR0080	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	11/19/75-05/13/80	4	10	
MNRR0085	No	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	02/20/90-02/20/90	0	1	
MNRR0086	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/04/73-08/19/91	17	54	
MNRR0107	Yes	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/07/74-05/06/86	11	36	
MNRR0086	Yes	01031	CHROMIUM, SUSPEND (UG/L AS CR)	03/23/76-02/24/81	4	15	
MNRR0107	Yes	01031	CHROMIUM, SUSPEND (UG/L AS CR)	10/07/74-04/27/81	6	17	
MNRR0025	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/07/83-10/02/97	14	44	
MNRR0029	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/06/73-08/06/73	0	1	
MNRR0032	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	04/17/79-04/17/79	0	1	
MNRR0040	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/27/76-10/02/97	20	96	
MNRR0042	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/18/82-10/02/97	14	38	
MNRR0048	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	04/12/76-10/02/97	21	69	
MNRR0051	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/13/95-01/08/97	1	2	
MNRR0055	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/28/82-10/10/96	14	35	
MNRR0056	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/11/92-03/11/92	0	1	
MNRR0063	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	04/02/85-04/02/85	0	1	
MNRR0068	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/08/94-07/08/94	0	1	
MNRR0085	No	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/20/90-02/16/93	2	13	
MNRR0086	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	03/23/76-08/22/89	13	43	
MNRR0103	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/25/87-06/11/97	9	22	
MNRR0107	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/07/74-08/17/82	7	21	
MNRR0109	Yes	01034	CHROMIUM, TOTAL (UG/L AS CR)	04/13/76-06/11/97	21	65	
MNRR0029	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	10/01/62-10/01/71	9	19	
MNRR0086	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	03/23/76-08/24/94	18	61	
MNRR0107	Yes	01035	COBALT, DISSOLVED (UG/L AS CO)	10/07/74-05/06/86	11	36	
MNRR0086	Yes	01036	COBALT, SUSPENDED (UG/L AS CO)	03/23/76-02/24/81	4	13	
MNRR0107	Yes	01036	COBALT, SUSPENDED (UG/L AS CO)	10/07/74-01/30/80	5	12	
MNRR0040	No	01037	COBALT, TOTAL (UG/L AS CO)	10/27/76-12/18/79	3	38	
MNRR0048	No	01037	COBALT, TOTAL (UG/L AS CO)	04/12/76-10/04/79	3	20	
MNRR0082	Yes	01037	COBALT, TOTAL (UG/L AS CO)	04/08/76-09/12/78	2	13	
MNRR0086	Yes	01037	COBALT, TOTAL (UG/L AS CO)	03/23/76-05/18/82	6	16	
MNRR0107	Yes	01037	COBALT, TOTAL (UG/L AS CO)	10/07/74-08/17/82	7	21	
MNRR0109	Yes	01037	COBALT, TOTAL (UG/L AS CO)	04/13/76-10/04/79	3	24	
MNRR0109	Yes	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0109	Yes	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	09/15/77-09/15/77	0	1	
MNRR0028	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	04/01/72-08/22/73	1	5	
MNRR0029	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	10/01/62-10/01/71	9	19	
MNRR0033	No	01040	COPPER, DISSOLVED (UG/L AS CU)	04/18/89-02/20/90	0	4	
MNRR0047	No	01040	COPPER, DISSOLVED (UG/L AS CU)	10/07/68-10/07/68	0	1	
MNRR0080	No	01040	COPPER, DISSOLVED (UG/L AS CU)	11/19/75-05/13/80	4	10	
MNRR0086	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	03/20/74-08/19/91	17	53	
MNRR0107	Yes	01040	COPPER, DISSOLVED (UG/L AS CU)	10/07/74-05/06/86	11	36	
MNRR0086	Yes	01041	COPPER, SUSPENDED (UG/L AS CU)	03/23/76-05/18/82	6	16	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0107	Yes	01041	COPPER, SUSPENDED (UG/L AS CU)	10/07/74-08/17/82	7	20	
MNRR0025	No	01042	COPPER, TOTAL (UG/L AS CU)	06/07/83-10/02/97	14	45	
MNRR0029	Yes	01042	COPPER, TOTAL (UG/L AS CU)	08/06/73-08/06/73	0	1	
MNRR0032	No	01042	COPPER, TOTAL (UG/L AS CU)	04/17/79-04/17/79	0	1	
MNRR0040	No	01042	COPPER, TOTAL (UG/L AS CU)	10/27/76-10/02/97	20	96	
MNRR0042	No	01042	COPPER, TOTAL (UG/L AS CU)	10/18/82-10/02/97	14	39	
MNRR0048	No	01042	COPPER, TOTAL (UG/L AS CU)	04/12/76-10/02/97	21	72	
MNRR0055	No	01042	COPPER, TOTAL (UG/L AS CU)	06/28/82-10/10/96	14	37	
MNRR0060	No	01042	COPPER, TOTAL (UG/L AS CU)	05/16/68-08/30/68	0	2	
MNRR0063	No	01042	COPPER, TOTAL (UG/L AS CU)	04/02/85-04/02/85	0	1	
MNRR0066	No	01042	COPPER, TOTAL (UG/L AS CU)	05/09/69-05/09/69	0	1	
MNRR0071	No	01042	COPPER, TOTAL (UG/L AS CU)	05/09/69-05/09/69	0	1	
MNRR0072	No	01042	COPPER, TOTAL (UG/L AS CU)	05/16/68-05/09/69	0	2	
MNRR0073	Yes	01042	COPPER, TOTAL (UG/L AS CU)	07/08/94-07/08/94	0	1	
MNRR0085	No	01042	COPPER, TOTAL (UG/L AS CU)	05/16/68-02/16/93	24	15	
MNRR0086	Yes	01042	COPPER, TOTAL (UG/L AS CU)	03/23/76-08/22/89	13	44	
MNRR0103	Yes	01042	COPPER, TOTAL (UG/L AS CU)	06/25/87-06/11/97	9	21	
MNRR0107	Yes	01042	COPPER, TOTAL (UG/L AS CU)	10/07/74-08/17/82	7	21	
MNRR0109	Yes	01042	COPPER, TOTAL (UG/L AS CU)	04/13/76-06/11/97	21	68	
MNRR0073	Yes	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/08/94-07/08/94	0	1	
MNRR0086	Yes	01044	IRON, SUSPENDED (UG/L AS FE)	01/04/78-05/18/82	4	13	
MNRR0107	Yes	01044	IRON, SUSPENDED (UG/L AS FE)	07/11/78-07/13/82	4	10	
MNRR0012	No	01045	IRON, TOTAL (UG/L AS FE)	12/11/68-12/27/72	4	2	
MNRR0025	No	01045	IRON, TOTAL (UG/L AS FE)	02/10/83-10/02/97	14	52	
MNRR0026	Yes	01045	IRON, TOTAL (UG/L AS FE)	10/01/56-06/06/59	2	32	
MNRR0029	Yes	01045	IRON, TOTAL (UG/L AS FE)	10/01/62-08/06/73	10	20	
MNRR0040	No	01045	IRON, TOTAL (UG/L AS FE)	10/27/76-10/02/97	20	106	
MNRR0042	No	01045	IRON, TOTAL (UG/L AS FE)	10/18/82-10/02/97	14	44	
MNRR0047	No	01045	IRON, TOTAL (UG/L AS FE)	10/07/68-10/07/68	0	1	
MNRR0048	No	01045	IRON, TOTAL (UG/L AS FE)	04/12/76-10/02/97	21	80	
MNRR0055	No	01045	IRON, TOTAL (UG/L AS FE)	06/28/82-10/10/96	14	43	
MNRR0060	No	01045	IRON, TOTAL (UG/L AS FE)	05/16/68-08/30/68	0	2	
MNRR0066	No	01045	IRON, TOTAL (UG/L AS FE)	05/16/68-05/09/69	0	3	
MNRR0071	No	01045	IRON, TOTAL (UG/L AS FE)	05/16/68-05/09/69	0	3	
MNRR0072	No	01045	IRON, TOTAL (UG/L AS FE)	05/16/68-05/09/69	0	3	
MNRR0079	No	01045	IRON, TOTAL (UG/L AS FE)	05/16/68-05/16/68	0	1	
MNRR0085	No	01045	IRON, TOTAL (UG/L AS FE)	05/16/68-05/09/69	0	3	
MNRR0086	Yes	01045	IRON, TOTAL (UG/L AS FE)	03/23/76-08/07/84	8	23	
MNRR0103	Yes	01045	IRON, TOTAL (UG/L AS FE)	06/25/87-08/26/97	10	29	
MNRR0107	Yes	01045	IRON, TOTAL (UG/L AS FE)	10/07/74-08/17/82	7	22	
MNRR0109	Yes	01045	IRON, TOTAL (UG/L AS FE)	04/13/76-08/26/97	21	75	
MNRR0022	No	01046	IRON, DISSOLVED (UG/L AS FE)	10/22/80-10/22/80	0	1	
MNRR0028	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	04/01/72-08/22/73	1	5	
MNRR0033	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/18/89-02/20/90	0	4	
MNRR0058	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/23/90-04/23/90	0	1	
MNRR0063	No	01046	IRON, DISSOLVED (UG/L AS FE)	04/23/90-04/23/90	0	1	
MNRR0080	No	01046	IRON, DISSOLVED (UG/L AS FE)	11/19/75-05/13/80	4	17	
MNRR0086	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	05/10/73-08/24/94	21	80	
MNRR0107	Yes	01046	IRON, DISSOLVED (UG/L AS FE)	10/07/74-05/06/86	11	36	
MNRR0028	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	04/01/72-04/26/73	1	4	
MNRR0029	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	10/01/62-10/01/71	9	19	
MNRR0033	No	01049	LEAD, DISSOLVED (UG/L AS PB)	04/18/89-02/20/90	0	4	
MNRR0047	No	01049	LEAD, DISSOLVED (UG/L AS PB)	10/07/68-10/07/68	0	1	
MNRR0048	No	01049	LEAD, DISSOLVED (UG/L AS PB)	07/15/81-07/15/81	0	1	
MNRR0080	No	01049	LEAD, DISSOLVED (UG/L AS PB)	11/19/75-05/13/80	4	9	
MNRR0086	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	03/20/74-08/19/91	17	50	
MNRR0107	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	10/07/74-05/06/86	11	36	
MNRR0109	Yes	01049	LEAD, DISSOLVED (UG/L AS PB)	07/15/81-07/15/81	0	1	
MNRR0086	Yes	01050	LEAD, SUSPENDED (UG/L AS PB)	03/23/76-02/24/81	4	12	
MNRR0107	Yes	01050	LEAD, SUSPENDED (UG/L AS PB)	10/07/74-07/13/82	7	19	
MNRR0025	No	01051	LEAD, TOTAL (UG/L AS PB)	06/07/83-10/02/97	14	41	
MNRR0029	Yes	01051	LEAD, TOTAL (UG/L AS PB)	08/06/73-08/06/73	0	1	
MNRR0032	No	01051	LEAD, TOTAL (UG/L AS PB)	04/17/79-04/17/79	0	1	
MNRR0040	No	01051	LEAD, TOTAL (UG/L AS PB)	10/27/76-10/02/97	20	93	
MNRR0042	No	01051	LEAD, TOTAL (UG/L AS PB)	10/18/82-10/02/97	14	35	
MNRR0048	No	01051	LEAD, TOTAL (UG/L AS PB)	04/12/76-10/02/97	21	68	
MNRR0055	No	01051	LEAD, TOTAL (UG/L AS PB)	06/28/82-10/10/96	14	33	
MNRR0056	No	01051	LEAD, TOTAL (UG/L AS PB)	03/11/92-03/11/92	0	1	
MNRR0063	No	01051	LEAD, TOTAL (UG/L AS PB)	04/02/85-04/02/85	0	1	
MNRR0068	Yes	01051	LEAD, TOTAL (UG/L AS PB)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	01051	LEAD, TOTAL (UG/L AS PB)	07/08/94-07/08/94	0	1	
MNRR0085	No	01051	LEAD, TOTAL (UG/L AS PB)	03/20/90-02/16/93	2	13	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0086	Yes	01051	LEAD, TOTAL (UG/L AS PB)	03/23/76-08/22/89	13	41	
MNRR0103	Yes	01051	LEAD, TOTAL (UG/L AS PB)	06/25/87-06/11/97	9	22	
MNRR0107	Yes	01051	LEAD, TOTAL (UG/L AS PB)	10/07/74-08/17/82	7	21	
MNRR0109	Yes	01051	LEAD, TOTAL (UG/L AS PB)	04/13/76-06/11/97	21	64	
MNRR0056	No	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0109	Yes	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0109	Yes	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0086	Yes	01054	MANGANESE, SUSPENDED (UG/L AS MN)	03/23/76-05/18/82	6	16	
MNRR0107	Yes	01054	MANGANESE, SUSPENDED (UG/L AS MN)	10/07/74-08/17/82	7	21	
MNRR0012	No	01055	MANGANESE, TOTAL (UG/L AS MN)	12/11/68-06/23/75	6	18	
MNRR0025	No	01055	MANGANESE, TOTAL (UG/L AS MN)	02/10/83-10/02/97	14	52	
MNRR0029	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/01/62-08/06/73	10	20	
MNRR0038	No	01055	MANGANESE, TOTAL (UG/L AS MN)	09/23/75-09/20/77	1	24	
MNRR0040	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/27/76-10/02/97	20	105	
MNRR0042	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/18/82-10/02/97	14	44	
MNRR0047	No	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/68-10/07/68	0	1	
MNRR0048	No	01055	MANGANESE, TOTAL (UG/L AS MN)	04/12/76-10/02/97	21	80	
MNRR0051	No	01055	MANGANESE, TOTAL (UG/L AS MN)	08/23/90-03/26/97	6	6	
MNRR0055	No	01055	MANGANESE, TOTAL (UG/L AS MN)	06/28/82-10/10/96	14	43	
MNRR0060	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/16/68-05/16/68	0	1	
MNRR0063	No	01055	MANGANESE, TOTAL (UG/L AS MN)	04/02/85-04/02/85	0	1	
MNRR0066	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/16/68-05/16/68	0	1	
MNRR0071	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/16/68-05/16/68	0	1	
MNRR0072	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/16/68-05/16/68	0	1	
MNRR0079	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/16/68-05/16/68	0	1	
MNRR0085	No	01055	MANGANESE, TOTAL (UG/L AS MN)	05/16/68-05/16/68	0	1	
MNRR0086	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	03/23/76-08/07/84	8	24	
MNRR0103	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	06/25/87-08/26/97	10	29	
MNRR0105	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	09/22/75-08/18/77	1	24	
MNRR0107	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	10/07/74-08/17/82	7	21	
MNRR0109	Yes	01055	MANGANESE, TOTAL (UG/L AS MN)	04/13/76-08/26/97	21	74	
MNRR0022	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/22/80-10/22/80	0	1	
MNRR0028	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/01/72-08/22/73	1	5	
MNRR0033	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/18/89-02/20/90	0	4	
MNRR0063	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/23/90-04/23/90	0	1	
MNRR0080	No	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/19/75-05/13/80	4	17	
MNRR0086	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/10/73-08/24/94	21	80	
MNRR0107	Yes	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/07/74-05/06/86	11	36	
MNRR0028	Yes	01057	THALLIUM, DISSOLVED (UG/L AS TL)	04/01/72-04/01/72	0	1	
MNRR0032	No	01059	THALLIUM, TOTAL (UG/L AS TL)	04/17/79-04/17/79	0	1	
MNRR0051	No	01059	THALLIUM, TOTAL (UG/L AS TL)	11/06/95-11/06/95	0	1	
MNRR0029	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/01/62-10/01/71	9	19	
MNRR0040	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	12/15/76-03/21/79	2	8	
MNRR0048	No	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	02/01/77-02/19/79	2	11	
MNRR0086	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/04/73-08/24/94	20	46	
MNRR0103	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	04/21/77-07/11/78	1	5	
MNRR0107	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	11/15/82-05/06/86	3	15	
MNRR0109	Yes	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	01/27/77-02/22/79	2	11	
MNRR0040	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	04/12/76-12/18/79	3	24	
MNRR0048	No	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	04/12/76-10/04/79	3	18	
MNRR0082	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	04/08/76-10/11/79	3	15	
MNRR0103	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	04/08/76-10/24/79	3	24	
MNRR0109	Yes	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	04/13/76-10/04/79	3	21	
MNRR0109	Yes	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0029	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/01/62-10/01/71	9	19	
MNRR0033	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	04/18/89-02/20/90	0	4	
MNRR0047	No	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/07/68-10/07/68	0	1	
MNRR0086	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/07/79-08/24/94	14	51	
MNRR0107	Yes	01065	NICKEL, DISSOLVED (UG/L AS NI)	10/24/79-05/06/86	6	25	
MNRR0086	Yes	01066	NICKEL, SUSPENDED (UG/L AS NI)	11/07/79-05/18/82	2	6	
MNRR0107	Yes	01066	NICKEL, SUSPENDED (UG/L AS NI)	10/24/79-08/17/82	2	10	
MNRR0025	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/07/83-10/02/97	14	34	
MNRR0032	No	01067	NICKEL, TOTAL (UG/L AS NI)	04/17/79-04/17/79	0	1	
MNRR0040	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/27/76-10/02/97	20	82	
MNRR0042	No	01067	NICKEL, TOTAL (UG/L AS NI)	10/18/82-10/02/97	14	36	
MNRR0048	No	01067	NICKEL, TOTAL (UG/L AS NI)	04/12/76-10/02/97	21	61	
MNRR0051	No	01067	NICKEL, TOTAL (UG/L AS NI)	11/06/95-11/06/95	0	1	
MNRR0055	No	01067	NICKEL, TOTAL (UG/L AS NI)	06/28/82-10/10/96	14	35	
MNRR0056	No	01067	NICKEL, TOTAL (UG/L AS NI)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	07/08/94-07/08/94	0	1	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0082	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	04/08/76-10/11/79	3	25	
MNRR0086	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	11/07/79-05/18/82	2	6	
MNRR0103	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	04/21/77-06/11/97	20	41	
MNRR0107	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	10/24/79-08/17/82	2	10	
MNRR0109	Yes	01067	NICKEL, TOTAL (UG/L AS NI)	04/13/76-06/11/97	21	64	
MNRR0056	No	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/08/94-07/08/94	0	1	
MNRR0109	Yes	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0067	No	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	
MNRR0095	No	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	09/10/91-09/10/91	0	1	
MNRR0029	Yes	01070	PHOSPHORUS, TOTAL, SPECTROGRAPH METH (UG/L AS P)	10/01/62-07/01/71	8	17	
MNRR0029	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	10/01/62-10/01/71	9	19	
MNRR0080	No	01075	SILVER, DISSOLVED (UG/L AS AG)	11/19/75-05/13/80	4	10	
MNRR0085	No	01075	SILVER, DISSOLVED (UG/L AS AG)	02/20/90-02/20/90	0	1	
MNRR0086	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	03/20/74-08/24/94	20	63	
MNRR0107	Yes	01075	SILVER, DISSOLVED (UG/L AS AG)	01/30/78-05/06/86	8	32	
MNRR0086	Yes	01076	SILVER, SUSPENDED (UG/L AS AG)	01/04/78-02/24/81	3	12	
MNRR0107	Yes	01076	SILVER, SUSPENDED (UG/L AS AG)	01/30/78-01/18/82	3	14	
MNRR0025	No	01077	SILVER, TOTAL (UG/L AS AG)	06/07/83-10/02/97	14	42	
MNRR0032	No	01077	SILVER, TOTAL (UG/L AS AG)	04/17/79-04/17/79	0	1	
MNRR0040	No	01077	SILVER, TOTAL (UG/L AS AG)	10/27/76-10/02/97	20	92	
MNRR0042	No	01077	SILVER, TOTAL (UG/L AS AG)	10/18/82-10/02/97	14	36	
MNRR0048	No	01077	SILVER, TOTAL (UG/L AS AG)	04/12/76-10/02/97	21	67	
MNRR0055	No	01077	SILVER, TOTAL (UG/L AS AG)	06/28/82-10/10/96	14	33	
MNRR0073	Yes	01077	SILVER, TOTAL (UG/L AS AG)	07/08/94-07/08/94	0	1	
MNRR0082	Yes	01077	SILVER, TOTAL (UG/L AS AG)	04/08/76-10/20/76	0	4	
MNRR0085	No	01077	SILVER, TOTAL (UG/L AS AG)	03/20/90-02/16/93	2	13	
MNRR0086	Yes	01077	SILVER, TOTAL (UG/L AS AG)	01/04/78-08/22/89	11	44	
MNRR0103	Yes	01077	SILVER, TOTAL (UG/L AS AG)	06/25/87-06/11/97	9	19	
MNRR0107	Yes	01077	SILVER, TOTAL (UG/L AS AG)	01/30/78-08/17/82	4	19	
MNRR0109	Yes	01077	SILVER, TOTAL (UG/L AS AG)	04/13/76-06/11/97	21	63	
MNRR0073	Yes	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	07/08/94-07/08/94	0	1	
MNRR0109	Yes	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0029	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/01/62-07/01/71	8	18	
MNRR0086	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	10/04/73-08/24/94	20	46	
MNRR0107	Yes	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	11/15/82-05/06/86	3	15	
MNRR0051	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	08/23/90-08/23/90	0	1	
MNRR0055	No	01082	STRONTIUM, TOTAL (UG/L AS SR)	06/28/82-06/28/82	0	1	
MNRR0029	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/01/62-10/01/71	9	19	
MNRR0086	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/04/73-08/24/94	20	46	
MNRR0107	Yes	01085	VANADIUM, DISSOLVED (UG/L AS V)	11/15/82-05/06/86	3	15	
MNRR0040	No	01087	VANADIUM, TOTAL (UG/L AS V)	04/12/76-12/18/79	3	37	
MNRR0048	No	01087	VANADIUM, TOTAL (UG/L AS V)	04/12/76-10/04/79	3	18	
MNRR0082	Yes	01087	VANADIUM, TOTAL (UG/L AS V)	04/08/76-10/20/76	0	4	
MNRR0103	Yes	01087	VANADIUM, TOTAL (UG/L AS V)	04/08/76-09/25/78	2	15	
MNRR0109	Yes	01087	VANADIUM, TOTAL (UG/L AS V)	04/13/76-10/04/79	3	22	
MNRR0028	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/01/72-08/22/73	1	5	
MNRR0029	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/01/62-10/01/71	9	19	
MNRR0033	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/18/89-02/20/90	0	4	
MNRR0047	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/07/68-10/07/68	0	1	
MNRR0058	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/23/90-04/23/90	0	1	
MNRR0063	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/23/90-04/23/90	0	1	
MNRR0080	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/19/75-05/13/80	4	10	
MNRR0085	No	01090	ZINC, DISSOLVED (UG/L AS ZN)	02/20/90-02/20/90	0	1	
MNRR0086	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/04/73-08/19/91	17	54	
MNRR0107	Yes	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/07/74-05/06/86	11	36	
MNRR0086	Yes	01091	ZINC, SUSPENDED (UG/L ZN)	03/23/76-05/18/82	6	14	
MNRR0107	Yes	01091	ZINC, SUSPENDED (UG/L ZN)	10/07/74-08/17/82	7	21	
MNRR0025	No	01092	ZINC, TOTAL (UG/L AS ZN)	06/07/83-10/02/97	14	45	
MNRR0029	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	08/06/73-08/06/73	0	1	
MNRR0032	No	01092	ZINC, TOTAL (UG/L AS ZN)	04/17/79-04/17/79	0	1	
MNRR0040	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/27/76-10/02/97	20	97	
MNRR0042	No	01092	ZINC, TOTAL (UG/L AS ZN)	10/18/82-10/02/97	14	39	
MNRR0048	No	01092	ZINC, TOTAL (UG/L AS ZN)	04/12/76-10/02/97	21	71	
MNRR0055	No	01092	ZINC, TOTAL (UG/L AS ZN)	08/25/82-10/10/96	14	35	
MNRR0056	No	01092	ZINC, TOTAL (UG/L AS ZN)	03/11/92-03/11/92	0	1	
MNRR0060	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/16/68-08/30/68	0	2	
MNRR0063	No	01092	ZINC, TOTAL (UG/L AS ZN)	04/02/85-04/02/85	0	1	
MNRR0066	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/16/68-05/09/69	0	2	
MNRR0068	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	03/11/92-03/11/92	0	1	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0071	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/16/68-05/09/69	0	2	
MNRR0072	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/16/68-05/09/69	0	3	
MNRR0073	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/08/94-07/08/94	0	1	
MNRR0079	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/16/68-05/16/68	0	1	
MNRR0085	No	01092	ZINC, TOTAL (UG/L AS ZN)	05/16/68-02/16/93	24	16	
MNRR0086	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	03/23/76-08/22/89	13	44	
MNRR0103	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	07/19/77-06/11/97	19	23	
MNRR0107	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	10/07/74-08/17/82	7	21	
MNRR0109	Yes	01092	ZINC, TOTAL (UG/L AS ZN)	04/13/76-06/11/97	21	69	
MNRR0056	No	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	07/08/94-07/08/94	0	1	
MNRR0109	Yes	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0086	Yes	01095	ANTIMONY, DISSOLVED (UG/L AS SB)	08/26/87-08/26/87	0	1	
MNRR0025	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/07/83-06/10/97	14	21	
MNRR0032	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	04/17/79-04/17/79	0	1	
MNRR0040	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/28/82-06/10/97	14	26	
MNRR0042	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	10/18/82-06/10/97	14	23	
MNRR0048	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/30/82-06/10/97	14	24	
MNRR0051	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	11/06/95-11/06/95	0	1	
MNRR0055	No	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/28/82-05/29/96	13	23	
MNRR0103	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/25/87-06/11/97	9	14	
MNRR0109	Yes	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/08/82-06/11/97	15	25	
MNRR0067	No	01099	ANTIMONY,TISSUE,WET WEIGHT,MG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	01099	ANTIMONY,TISSUE,WET WEIGHT,MG/KG	09/22/81-08/21/83	1	3	
MNRR0029	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/01/63-08/06/73	10	19	
MNRR0040	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/27/76-01/27/82	5	47	
MNRR0048	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/12/76-07/15/81	5	25	
MNRR0051	No	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/23/90-08/23/90	0	1	
MNRR0082	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/08/76-10/11/79	3	23	
MNRR0103	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/21/77-09/27/79	2	19	
MNRR0109	Yes	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/13/76-07/15/81	5	30	
MNRR0086	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/04/73-08/24/94	20	46	
MNRR0107	Yes	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/15/82-05/06/86	3	15	
MNRR0109	Yes	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0073	Yes	01113	CADMIUM,TOTAL RECOVERABLE IN WATER AS CD UG/L	07/08/94-07/08/94	0	1	
MNRR0086	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	10/04/73-08/24/94	20	46	
MNRR0107	Yes	01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/15/82-05/06/86	3	15	
MNRR0040	No	01132	LITHIUM, TOTAL (UG/L AS LI)	04/12/76-01/27/82	5	50	
MNRR0048	No	01132	LITHIUM, TOTAL (UG/L AS LI)	04/12/76-07/15/81	5	25	
MNRR0082	Yes	01132	LITHIUM, TOTAL (UG/L AS LI)	04/08/76-10/11/79	3	25	
MNRR0103	Yes	01132	LITHIUM, TOTAL (UG/L AS LI)	04/08/76-10/24/79	3	25	
MNRR0109	Yes	01132	LITHIUM, TOTAL (UG/L AS LI)	04/13/76-07/15/81	5	30	
MNRR0109	Yes	01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0029	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/01/63-04/01/63	0	1	
MNRR0033	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/18/89-02/20/90	0	4	
MNRR0040	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	02/25/77-09/20/77	0	8	
MNRR0048	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/20/77-10/26/77	0	4	
MNRR0058	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/23/90-04/23/90	0	1	
MNRR0080	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/29/70-05/13/80	9	12	
MNRR0086	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/04/73-08/24/94	20	64	
MNRR0096	No	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/29/70-10/29/70	0	1	
MNRR0107	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/07/74-05/06/86	11	36	
MNRR0109	Yes	01145	SELENIUM, DISSOLVED (UG/L AS SE)	04/20/77-10/25/77	0	5	
MNRR0086	Yes	01146	SELENIUM, SUSPENDED (UG/L AS SE)	03/23/76-05/18/82	6	16	
MNRR0107	Yes	01146	SELENIUM, SUSPENDED (UG/L AS SE)	10/07/74-08/17/82	7	21	
MNRR0025	No	01147	SELENIUM, TOTAL (UG/L AS SE)	06/07/83-07/08/97	14	24	
MNRR0032	No	01147	SELENIUM, TOTAL (UG/L AS SE)	04/17/79-04/17/79	0	1	
MNRR0040	No	01147	SELENIUM, TOTAL (UG/L AS SE)	10/27/76-07/08/97	20	71	
MNRR0042	No	01147	SELENIUM, TOTAL (UG/L AS SE)	10/18/82-07/08/97	14	26	
MNRR0048	No	01147	SELENIUM, TOTAL (UG/L AS SE)	04/12/76-07/08/97	21	52	
MNRR0051	No	01147	SELENIUM, TOTAL (UG/L AS SE)	06/13/95-01/08/97	1	2	
MNRR0055	No	01147	SELENIUM, TOTAL (UG/L AS SE)	06/28/82-07/01/96	14	24	
MNRR0056	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/11/92-03/11/92	0	1	
MNRR0063	No	01147	SELENIUM, TOTAL (UG/L AS SE)	04/02/85-04/02/85	0	1	
MNRR0068	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	07/08/94-07/08/94	0	1	
MNRR0085	No	01147	SELENIUM, TOTAL (UG/L AS SE)	03/20/90-02/16/93	2	13	
MNRR0086	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	03/23/76-08/22/89	13	41	
MNRR0103	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	06/25/87-07/14/97	10	18	
MNRR0107	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	10/07/74-08/17/82	7	21	
MNRR0109	Yes	01147	SELENIUM, TOTAL (UG/L AS SE)	04/13/76-07/14/97	21	55	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0056	No	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0109	Yes	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0067	No	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	09/22/81-08/21/83	1	3	
MNRR0073	Yes	01229	SELENIUM,TOTAL IN DRY DEPOSITION UG/KG	07/08/94-07/08/94	0	1	
MNRR0007	No	01300	OIL-GREASE (SEVERITY)	02/24/76-12/15/76	0	11	
MNRR0015	No	01300	OIL-GREASE (SEVERITY)	04/05/89-10/18/89	0	3	
MNRR0017	No	01300	OIL-GREASE (SEVERITY)	04/14/76-12/15/76	0	9	
MNRR0026	Yes	01300	OIL-GREASE (SEVERITY)	01/12/72-01/12/72	0	1	
MNRR0030	No	01300	OIL-GREASE (SEVERITY)	02/23/76-12/14/76	0	8	
MNRR0058	No	01300	OIL-GREASE (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0060	No	01300	OIL-GREASE (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0063	No	01300	OIL-GREASE (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0071	No	01300	OIL-GREASE (SEVERITY)	03/23/76-10/19/76	0	4	
MNRR0072	No	01300	OIL-GREASE (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0079	No	01300	OIL-GREASE (SEVERITY)	03/23/76-03/23/76	0	1	
MNRR0086	Yes	01300	OIL-GREASE (SEVERITY)	05/07/86-08/24/94	8	57	
MNRR0007	No	01305	DETERGENT SUDS (SEVERITY)	02/24/76-12/15/76	0	11	
MNRR0015	No	01305	DETERGENT SUDS (SEVERITY)	04/05/89-10/18/89	0	3	
MNRR0017	No	01305	DETERGENT SUDS (SEVERITY)	04/14/76-12/15/76	0	9	
MNRR0026	Yes	01305	DETERGENT SUDS (SEVERITY)	01/12/72-01/12/72	0	1	
MNRR0030	No	01305	DETERGENT SUDS (SEVERITY)	02/23/76-12/14/76	0	8	
MNRR0058	No	01305	DETERGENT SUDS (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0060	No	01305	DETERGENT SUDS (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0063	No	01305	DETERGENT SUDS (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0071	No	01305	DETERGENT SUDS (SEVERITY)	03/23/76-10/19/76	0	4	
MNRR0072	No	01305	DETERGENT SUDS (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0079	No	01305	DETERGENT SUDS (SEVERITY)	03/23/76-03/23/76	0	1	
MNRR0086	Yes	01305	DETERGENT SUDS (SEVERITY)	05/07/86-08/24/94	8	56	
MNRR0015	No	01310	GAS BUBBLES (SEVERITY)	04/05/89-10/18/89	0	3	
MNRR0026	Yes	01310	GAS BUBBLES (SEVERITY)	01/12/72-01/12/72	0	1	
MNRR0058	No	01310	GAS BUBBLES (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0063	No	01310	GAS BUBBLES (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0086	Yes	01310	GAS BUBBLES (SEVERITY)	05/07/86-11/13/91	5	50	
MNRR0007	No	01315	SLUDGE, FLOATING (SEVERITY)	02/24/76-12/15/76	0	11	
MNRR0015	No	01315	SLUDGE, FLOATING (SEVERITY)	04/05/89-10/18/89	0	3	
MNRR0017	No	01315	SLUDGE, FLOATING (SEVERITY)	04/14/76-12/15/76	0	9	
MNRR0026	Yes	01315	SLUDGE, FLOATING (SEVERITY)	01/12/72-01/12/72	0	1	
MNRR0030	No	01315	SLUDGE, FLOATING (SEVERITY)	02/23/76-12/14/76	0	8	
MNRR0058	No	01315	SLUDGE, FLOATING (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0060	No	01315	SLUDGE, FLOATING (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0063	No	01315	SLUDGE, FLOATING (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0071	No	01315	SLUDGE, FLOATING (SEVERITY)	03/23/76-10/19/76	0	4	
MNRR0072	No	01315	SLUDGE, FLOATING (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0079	No	01315	SLUDGE, FLOATING (SEVERITY)	03/23/76-03/23/76	0	1	
MNRR0086	Yes	01315	SLUDGE, FLOATING (SEVERITY)	05/07/86-11/13/91	5	50	
MNRR0007	No	01320	GARBAGE, FLOATING (SEVERITY)	02/24/76-12/15/76	0	11	
MNRR0015	No	01320	GARBAGE, FLOATING (SEVERITY)	04/05/89-10/18/89	0	3	
MNRR0017	No	01320	GARBAGE, FLOATING (SEVERITY)	04/14/76-12/15/76	0	9	
MNRR0026	Yes	01320	GARBAGE, FLOATING (SEVERITY)	01/12/72-01/12/72	0	1	
MNRR0030	No	01320	GARBAGE, FLOATING (SEVERITY)	02/23/76-12/14/76	0	8	
MNRR0058	No	01320	GARBAGE, FLOATING (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0060	No	01320	GARBAGE, FLOATING (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0063	No	01320	GARBAGE, FLOATING (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0071	No	01320	GARBAGE, FLOATING (SEVERITY)	03/23/76-10/19/76	0	4	
MNRR0072	No	01320	GARBAGE, FLOATING (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0079	No	01320	GARBAGE, FLOATING (SEVERITY)	03/23/76-03/23/76	0	1	
MNRR0086	Yes	01320	GARBAGE, FLOATING (SEVERITY)	05/07/86-08/24/94	8	57	
MNRR0007	No	01325	ALGAE, FLOATING MATS (SEVERITY)	02/24/76-12/15/76	0	11	
MNRR0015	No	01325	ALGAE, FLOATING MATS (SEVERITY)	04/05/89-10/18/89	0	3	
MNRR0017	No	01325	ALGAE, FLOATING MATS (SEVERITY)	04/14/76-12/15/76	0	9	
MNRR0026	Yes	01325	ALGAE, FLOATING MATS (SEVERITY)	01/12/72-01/12/72	0	1	
MNRR0030	No	01325	ALGAE, FLOATING MATS (SEVERITY)	02/23/76-12/14/76	0	8	
MNRR0058	No	01325	ALGAE, FLOATING MATS (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0060	No	01325	ALGAE, FLOATING MATS (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0063	No	01325	ALGAE, FLOATING MATS (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0071	No	01325	ALGAE, FLOATING MATS (SEVERITY)	03/23/76-10/19/76	0	4	
MNRR0072	No	01325	ALGAE, FLOATING MATS (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0079	No	01325	ALGAE, FLOATING MATS (SEVERITY)	03/23/76-03/23/76	0	1	
MNRR0086	Yes	01325	ALGAE, FLOATING MATS (SEVERITY)	05/07/86-08/24/94	8	57	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0007	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	02/24/76-12/15/76	0	11	
MNRR0015	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	04/05/89-10/18/89	0	3	
MNRR0017	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	04/14/76-12/15/76	0	9	
MNRR0026	Yes	01330	ODOR, ATMOSPHERIC (SEVERITY)	01/12/72-01/12/72	0	1	
MNRR0030	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	02/23/76-12/14/76	0	8	
MNRR0058	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0060	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0063	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0071	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	03/23/76-10/19/76	0	4	
MNRR0072	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0079	No	01330	ODOR, ATMOSPHERIC (SEVERITY)	03/23/76-03/23/76	0	1	
MNRR0086	Yes	01330	ODOR, ATMOSPHERIC (SEVERITY)	05/07/86-08/24/94	8	57	
MNRR0007	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	02/24/76-12/15/76	0	11	
MNRR0015	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	04/05/89-10/18/89	0	3	
MNRR0017	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	04/14/76-12/15/76	0	9	
MNRR0026	Yes	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	01/12/72-01/12/72	0	1	
MNRR0030	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	02/23/76-12/14/76	0	8	
MNRR0058	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0060	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0063	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0071	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	03/23/76-10/19/76	0	4	
MNRR0072	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0079	No	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	03/23/76-03/23/76	0	1	
MNRR0086	Yes	01335	SEWAGE SOLIDS, FRESH, FLOATING (SEVERITY)	05/07/86-11/13/91	5	50	
MNRR0007	No	01340	FISH, DEAD (SEVERITY)	02/24/76-12/15/76	0	11	
MNRR0015	No	01340	FISH, DEAD (SEVERITY)	04/05/89-10/18/89	0	3	
MNRR0017	No	01340	FISH, DEAD (SEVERITY)	04/14/76-12/15/76	0	9	
MNRR0026	Yes	01340	FISH, DEAD (SEVERITY)	01/12/72-01/12/72	0	1	
MNRR0030	No	01340	FISH, DEAD (SEVERITY)	02/23/76-12/14/76	0	8	
MNRR0058	No	01340	FISH, DEAD (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0060	No	01340	FISH, DEAD (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0063	No	01340	FISH, DEAD (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0071	No	01340	FISH, DEAD (SEVERITY)	03/23/76-10/19/76	0	4	
MNRR0072	No	01340	FISH, DEAD (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0079	No	01340	FISH, DEAD (SEVERITY)	03/23/76-03/23/76	0	1	
MNRR0086	Yes	01340	FISH, DEAD (SEVERITY)	05/07/86-08/24/94	8	57	
MNRR0007	No	01345	DEBRIS, FLOATING (SEVERITY)	02/24/76-12/15/76	0	11	
MNRR0015	No	01345	DEBRIS, FLOATING (SEVERITY)	04/05/89-10/18/89	0	3	
MNRR0017	No	01345	DEBRIS, FLOATING (SEVERITY)	04/14/76-12/15/76	0	9	
MNRR0026	Yes	01345	DEBRIS, FLOATING (SEVERITY)	01/12/72-01/12/72	0	1	
MNRR0030	No	01345	DEBRIS, FLOATING (SEVERITY)	02/23/76-12/14/76	0	8	
MNRR0058	No	01345	DEBRIS, FLOATING (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0060	No	01345	DEBRIS, FLOATING (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0063	No	01345	DEBRIS, FLOATING (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0071	No	01345	DEBRIS, FLOATING (SEVERITY)	03/23/76-10/19/76	0	4	
MNRR0072	No	01345	DEBRIS, FLOATING (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0079	No	01345	DEBRIS, FLOATING (SEVERITY)	03/23/76-03/23/76	0	1	
MNRR0086	Yes	01345	DEBRIS, FLOATING (SEVERITY)	05/07/86-08/24/94	8	57	
MNRR0015	No	01350	TURBIDITY (SEVERITY)	04/05/89-10/18/89	0	3	
MNRR0026	Yes	01350	TURBIDITY (SEVERITY)	01/12/72-01/12/72	0	1	
MNRR0058	No	01350	TURBIDITY (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0063	No	01350	TURBIDITY (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0086	Yes	01350	TURBIDITY (SEVERITY)	05/07/86-08/24/94	8	60	
MNRR0007	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	02/24/76-12/15/76	0	11	
MNRR0017	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	04/14/76-12/15/76	0	9	
MNRR0030	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	02/23/76-12/14/76	0	9	
MNRR0060	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	01/12/76-12/14/76	0	12	
MNRR0071	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	03/23/76-10/19/76	0	4	
MNRR0072	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	01/12/76-12/14/76	0	12	
MNRR0079	No	01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	03/23/76-12/07/76	0	7	
MNRR0007	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	02/24/76-12/15/76	0	11	
MNRR0015	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	04/05/89-10/18/89	0	3	
MNRR0017	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	04/14/76-12/15/76	0	9	
MNRR0026	Yes	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	01/12/72-01/12/72	0	1	
MNRR0030	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	02/23/76-12/14/76	0	8	
MNRR0040	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	02/09/76-02/09/76	0	1	
MNRR0058	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0060	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0063	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	04/23/90-04/23/90	0	1	
MNRR0071	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	03/23/76-10/19/76	0	4	
MNRR0072	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	01/12/76-12/14/76	0	12	
MNRR0079	No	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)	03/23/76-03/23/76	0	1	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0082	Yes	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)		02/10/76-02/10/76	0	1	
MNRR0086	Yes	01355	ICE COVER, FLOATING OR SOLID (SEVERITY)		05/07/86-08/17/93	7	51	
MNRR0029	Yes	01501	ALPHA, TOTAL		11/04/57-01/01/71	13	112	
MNRR0029	Yes	01502	ALPHA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	13	88	
MNRR0028	Yes	01503	ALPHA, DISSOLVED		06/30/70-12/31/71	1	5	
MNRR0029	Yes	01503	ALPHA, DISSOLVED		11/04/57-01/01/71	13	112	
MNRR0029	Yes	01504	ALPHA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	13	88	
MNRR0029	Yes	01505	ALPHA, SUSPENDED		11/04/57-01/01/71	13	112	
MNRR0029	Yes	01506	ALPHA, SUSPENDED, COUNTING ERROR		11/04/57-01/01/71	13	88	
MNRR0029	Yes	03501	BETA, TOTAL		11/04/57-01/01/71	13	221	
MNRR0029	Yes	03502	BETA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	13	176	
MNRR0028	Yes	03503	BETA, DISSOLVED		06/30/70-12/31/71	1	5	
MNRR0029	Yes	03503	BETA, DISSOLVED		11/04/57-01/01/71	13	221	
MNRR0029	Yes	03504	BETA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	13	176	
MNRR0029	Yes	03505	BETA, SUSPENDED		11/04/57-01/01/71	13	221	
MNRR0029	Yes	03506	BETA, SUSPENDED, COUNTING ERROR		11/04/57-01/01/71	13	176	
MNRR0073	Yes	03875	CHROMIUM,TOTAL IN FISH,WET WEIGHT	MG/KG	07/08/94-07/08/94	0	1	
MNRR0073	Yes	04005	METOLACHLOR,BOTTOM MATERIAL,SEDIMENT,TOT REC	UG/KG	07/08/94-07/08/94	0	1	
MNRR0073	Yes	04006	ALACHLOR,BOTTOM MATERIAL,SEDIMENT,TOT RECOV	UG/KG	07/08/94-07/08/94	0	1	
MNRR0051	No	04257	ALDICARB SULFONE, TOTAL, WATER	UG/L	06/06/95-06/06/95	0	1	
MNRR0051	No	04258	HYDROXYCARBOFURAN, 3-, TOTAL, WATER	UG/L	06/06/95-06/06/95	0	1	
MNRR0051	No	04260	ALDICARB SULFOXIDE, TOTAL, WATER	UG/L	06/06/95-06/06/95	0	1	
MNRR0051	No	04443	DIQUAT, WATER TOTAL,	UG/L	06/06/95-06/06/95	0	1	
MNRR0109	Yes	10094	INVALID PARAMETER		01/27/77-01/27/77	0	1	
MNRR0029	Yes	13501	STRONTIUM 90, TOTAL		01/01/59-10/01/64	5	17	
MNRR0029	Yes	13502	STRONTIUM 90, TOTAL, COUNTING ERROR		10/01/64-10/01/64	0	1	
MNRR0033	No	22415	ALACHLOR, SEDIMENT, WET WEIGHT	UG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	22415	ALACHLOR, SEDIMENT, WET WEIGHT	UG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	22420	PHOSPHORUS, TOTAL, AS P, SEDIMENT, WET WT	MG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	22420	PHOSPHORUS, TOTAL, AS P, SEDIMENT, WET WT	MG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	22457	NITROGEN, TOTAL KJELDAHL, AS N, SED, WET WT	MG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	22457	NITROGEN, TOTAL KJELDAHL, AS N, SED, WET WT	MG/KG	07/10/89-07/10/89	0	1	
MNRR0028	Yes	22703	URANIUM, NATURAL, DISSOLVED		01/31/73-08/22/73	0	2	
MNRR0025	No	30295	PROPACHLOR, WATER, WHOLE, RECOVERABLE,	UG/L	06/12/89-06/12/89	0	1	
MNRR0040	No	30295	PROPACHLOR, WATER, WHOLE, RECOVERABLE,	UG/L	06/12/89-06/12/89	0	1	
MNRR0042	No	30295	PROPACHLOR, WATER, WHOLE, RECOVERABLE,	UG/L	06/12/89-06/12/89	0	1	
MNRR0048	No	30295	PROPACHLOR, WATER, WHOLE, RECOVERABLE,	UG/L	06/13/89-06/13/89	0	1	
MNRR0055	No	30295	PROPACHLOR, WATER, WHOLE, RECOVERABLE,	UG/L	06/13/89-06/13/89	0	1	
MNRR0073	Yes	30295	PROPACHLOR, WATER, WHOLE, RECOVERABLE,	UG/L	07/08/94-07/08/94	0	1	
MNRR0109	Yes	30295	PROPACHLOR, WATER, WHOLE, RECOVERABLE,	UG/L	06/07/89-06/07/89	0	1	
MNRR0026	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C		09/28/72-01/15/74	1	11	
MNRR0029	Yes	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C		08/06/71-12/26/74	3	69	
MNRR0072	No	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C		04/11/61-08/13/68	7	26	
MNRR0029	Yes	31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C		01/27/58-06/23/69	11	420	
MNRR0047	No	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)		10/11/68-10/18/68	0	2	
MNRR0029	Yes	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)		04/12/73-05/31/73	0	7	
MNRR0047	No	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)		10/11/68-10/18/68	0	2	
MNRR0007	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		02/05/74-11/29/77	3	28	
MNRR0012	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	28	169	T,S
MNRR0017	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		02/04/74-11/29/77	3	26	
MNRR0025	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		10/18/82-06/07/83	0	2	
MNRR0026	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		09/28/72-01/15/74	1	11	
MNRR0027	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		01/28/88-03/27/97	9	54	
MNRR0029	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		09/02/69-08/28/75	5	157	
MNRR0030	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		02/04/74-11/29/77	3	24	
MNRR0033	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		04/18/89-02/20/90	0	4	
MNRR0038	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		09/23/75-09/20/77	1	25	
MNRR0040	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		01/22/75-09/29/81	6	42	
MNRR0046	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		11/21/78-02/28/79	0	2	
MNRR0048	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		07/18/78-07/18/78	0	1	
MNRR0060	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/07/73-11/29/77	4	30	
MNRR0066	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/07/73-06/07/73	0	1	
MNRR0071	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/07/73-11/15/77	4	9	
MNRR0072	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		10/15/68-12/21/80	12	131	
MNRR0079	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		11/05/68-11/15/77	9	82	
MNRR0080	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		07/16/75-07/08/76	0	10	
MNRR0082	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		02/05/74-07/10/75	1	9	
MNRR0085	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/07/73-04/13/93	19	40	
MNRR0086	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/20/73-04/13/76	2	21	
MNRR0088	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		03/21/78-04/26/78	0	2	
MNRR0090	No	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/19/78-06/19/79	0	2	
MNRR0103	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		10/27/77-08/27/79	1	10	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0105	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/22/75-03/18/81	5	44	
MNRR0107	Yes	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/11/75-09/17/76	1	10	
MNRR0058	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	04/23/90-04/23/90	0	1	
MNRR0063	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	04/23/90-04/23/90	0	1	
MNRR0080	No	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	02/23/77-06/24/80	3	39	
MNRR0086	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/20/76-08/24/94	17	157	
MNRR0107	Yes	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	01/20/77-09/10/86	9	63	
MNRR0012	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	12/27/72-06/23/75	2	17	
MNRR0038	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/23/75-09/20/77	1	25	
MNRR0058	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/23/90-04/23/90	0	1	
MNRR0063	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	04/23/90-04/23/90	0	1	
MNRR0080	No	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/26/77-06/24/80	2	34	
MNRR0086	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	07/26/77-08/24/94	17	151	
MNRR0105	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/22/75-09/20/77	1	25	
MNRR0107	Yes	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	01/20/77-09/10/86	9	62	
MNRR0080	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	07/16/75-06/07/77	1	15	
MNRR0085	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	01/23/90-04/13/93	3	39	
MNRR0086	Yes	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	06/20/73-05/17/77	3	27	
MNRR0088	No	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	03/21/78-04/26/78	0	2	
MNRR0107	Yes	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	02/11/75-09/17/76	1	10	
MNRR0029	Yes	32000	SAMPLE SIZE (LITERS)	10/03/66-07/01/68	1	22	
MNRR0029	Yes	32001	SAMPLE SIZE (GALLONS)	10/28/57-05/14/70	12	150	
MNRR0029	Yes	32002	SAMPLE SIZE (MILLILITERS)	08/05/68-05/14/70	1	17	
MNRR0029	Yes	32003	CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	10/28/57-05/14/70	12	150	
MNRR0029	Yes	32004	CARBON ALCOHOL EXTRACTABLES	10/28/57-05/14/70	12	150	
MNRR0029	Yes	32005	CARBON CHLOROFORM EXTRACTABLES	10/28/57-05/14/70	12	150	
MNRR0029	Yes	32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	10/28/57-11/06/67	10	52	
MNRR0029	Yes	32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	10/28/57-11/06/67	10	52	
MNRR0029	Yes	32023	ACIDS, STRONG	10/28/57-11/06/67	10	52	
MNRR0029	Yes	32024	ACIDS, WEAK	10/28/57-11/06/67	10	52	
MNRR0029	Yes	32025	BASES	10/28/57-11/06/67	10	52	
MNRR0029	Yes	32026	NEUTRALS, TOTAL	10/28/57-11/06/67	10	52	
MNRR0029	Yes	32027	ALIPHATICS FRACTION OF NEUTRALS	10/28/57-11/06/67	10	52	
MNRR0029	Yes	32028	AROMATICS FRACTION OF NEUTRALS	10/28/57-11/06/67	10	52	
MNRR0029	Yes	32029	OXYGENATED COMPOUNDS FRACTION OF NEUTRALS	10/28/57-11/06/67	10	52	
MNRR0025	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/18/82-10/02/97	14	45	
MNRR0042	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/12/83-10/02/97	14	42	
MNRR0048	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	08/25/82-10/02/97	15	43	
MNRR0055	No	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/04/82-10/10/96	14	40	
MNRR0109	Yes	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	08/24/82-08/26/97	15	40	
MNRR0048	No	32216	CHLOROPHYLL,TOTAL UG/L TRICHROMATIC UNCORRECTED	04/23/80-10/07/81	1	15	
MNRR0109	Yes	32216	CHLOROPHYLL,TOTAL UG/L TRICHROMATIC UNCORRECTED	10/25/77-10/07/81	3	31	
MNRR0025	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/06/87-10/02/97	10	32	
MNRR0042	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/06/87-10/02/97	10	31	
MNRR0048	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/07/87-10/02/97	10	30	
MNRR0055	No	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/07/87-10/10/96	9	28	
MNRR0109	Yes	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/15/87-08/26/97	10	28	
MNRR0086	Yes	32226	CHLOROPHYLL B, PERIPHYTON, SPECTRO, MG/M2	04/14/75-09/28/76	1	6	
MNRR0107	Yes	32226	CHLOROPHYLL B, PERIPHYTON, SPECTRO, MG/M2	03/13/75-03/13/75	0	1	
MNRR0086	Yes	32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	04/14/75-09/28/76	1	6	
MNRR0107	Yes	32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	03/13/75-03/13/75	0	1	
MNRR0048	No	32230	CHLOROPHYLL A (MG/L)	04/22/81-06/30/82	1	2	
MNRR0109	Yes	32230	CHLOROPHYLL A (MG/L)	04/23/81-04/23/81	0	1	
MNRR0033	No	32238	CHLOROPHYLL-A,PHYTOPLANKTON,FLUORMETRIC MTH MG/M3	04/18/89-02/20/90	0	4	
MNRR0025	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/18/83-05/12/97	13	15	
MNRR0040	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/28/82-05/12/97	14	18	
MNRR0042	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	08/24/83-05/12/97	13	15	
MNRR0048	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/30/82-05/12/97	14	17	
MNRR0055	No	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/28/82-04/30/96	13	16	
MNRR0103	Yes	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	04/21/87-05/12/97	10	9	
MNRR0109	Yes	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/08/82-05/12/97	14	15	
MNRR0067	No	34204	ACENAPHTHYLENE WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34204	ACENAPHTHYLENE WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34209	ACENAPHTHENE WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34209	ACENAPHTHENE WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34214	ACROLEIN WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34214	ACROLEIN WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34219	ACRYLONITRILE WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34219	ACRYLONITRILE WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0083	Yes	34224	ANTHRACENE WET WGTTISMG/KG	10/26/82-08/21/83	0	2	
MNRR0067	No	34234	BENZO(B)FLUORANTHENE,TISSUE,WET WGT,MG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34234	BENZO(B)FLUORANTHENE,TISSUE,WET WGT,MG/KG	09/22/81-08/21/83	1	3	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0067	No	34238	BENZENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34238	BENZENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34241	BENZIDINE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34241	BENZIDINE	WET WGTTISMG/KG	09/22/81-08/21/83	1	2	
MNRR0083	Yes	34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE	MG/KG	10/26/82-08/21/83	0	2	
MNRR0067	No	34251	BENZO-A-PYRENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34251	BENZO-A-PYRENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34252	BERYLLIUM	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34252	BERYLLIUM	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0073	Yes	34257	B-BHC-BETA	DRY WGTBOTUG/KG	07/08/94-07/08/94	0	1	
MNRR0043	No	34258	B-BHC-BETA	WET WGTTISMG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34258	B-BHC-BETA	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	34258	B-BHC-BETA	WET WGTTISMG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	34258	B-BHC-BETA	WET WGTTISMG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	34258	B-BHC-BETA	WET WGTTISMG/KG	07/26/88-09/10/91	3	4	
MNRR0056	No	34259	DELTA BENZENE HEXACHLORIDE	TOTWUG/L	03/11/92-03/11/92	0	1	
MNRR0068	Yes	34259	DELTA BENZENE HEXACHLORIDE	TOTWUG/L	03/11/92-03/11/92	0	1	
MNRR0056	No	34262	DELTA BENZENE HEXACHLORIDE	DRY WGTBOTUG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	34262	DELTA BENZENE HEXACHLORIDE	DRY WGTBOTUG/KG	03/11/92-03/11/92	0	1	
MNRR0043	No	34263	DELTA BENZENE HEXACHLORIDE	WET WGTTISMG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34263	DELTA BENZENE HEXACHLORIDE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34263	DELTA BENZENE HEXACHLORIDE	WET WGTTISMG/KG	09/22/81-08/21/83	1	2	
MNRR0095	No	34263	DELTA BENZENE HEXACHLORIDE	WET WGTTISMG/KG	07/26/88-07/26/88	0	3	
MNRR0067	No	34277	BIS (2-CHLOROETHYL) ETHER	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34277	BIS (2-CHLOROETHYL) ETHER	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34282	BIS (2-CHLOROETHOXY) METHANE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34282	BIS (2-CHLOROETHOXY) METHANE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34287	BIS (2-CHLOROISOPROPYL) ETHER	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34287	BIS (2-CHLOROISOPROPYL) ETHER	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34291	BROMOFORM	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34291	BROMOFORM	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0025	No	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L		06/05/84-08/11/86	2	8	
MNRR0040	No	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L		06/05/84-08/11/86	2	8	
MNRR0042	No	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L		06/05/84-08/11/86	2	8	
MNRR0048	No	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L		06/05/84-08/11/86	2	8	
MNRR0055	No	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L		05/30/84-08/12/86	2	8	
MNRR0109	Yes	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L		06/13/84-08/11/86	2	7	
MNRR0067	No	34296	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG		08/21/80-08/21/80	0	1	
MNRR0083	Yes	34296	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG		09/22/81-08/21/83	1	3	
MNRR0067	No	34300	CARBON TETRACHLORIDE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34300	CARBON TETRACHLORIDE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34305	CHLOROBENZENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34305	CHLOROBENZENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34310	CHLORODIBROMOMETHANE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34310	CHLORODIBROMOMETHANE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34315	CHLOROETHANE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34315	CHLOROETHANE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34319	CHLOROFORM	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34319	CHLOROFORM	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34324	CHRYSENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34324	CHRYSENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34331	DICHLOROBROMOMETHANE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34331	DICHLOROBROMOMETHANE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34335	DICHLORODIFLUOROMETHANE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34335	DICHLORODIFLUOROMETHANE	WET WGTTISMG/KG	09/22/81-09/22/81	0	1	
MNRR0025	No	34336	DIETHYL PHTHALATE	TOTWUG/L	06/05/84-08/11/86	2	8	
MNRR0040	No	34336	DIETHYL PHTHALATE	TOTWUG/L	06/05/84-08/11/86	2	8	
MNRR0042	No	34336	DIETHYL PHTHALATE	TOTWUG/L	06/05/84-08/11/86	2	8	
MNRR0048	No	34336	DIETHYL PHTHALATE	TOTWUG/L	06/05/84-08/11/86	2	8	
MNRR0055	No	34336	DIETHYL PHTHALATE	TOTWUG/L	05/30/84-08/12/86	2	8	
MNRR0109	Yes	34336	DIETHYL PHTHALATE	TOTWUG/L	06/13/84-08/11/86	2	7	
MNRR0067	No	34340	DIETHYL PHTHALATE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34340	DIETHYL PHTHALATE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0025	No	34341	DIMETHYL PHTHALATE	TOTWUG/L	06/05/84-08/11/86	2	8	
MNRR0040	No	34341	DIMETHYL PHTHALATE	TOTWUG/L	06/05/84-08/11/86	2	8	
MNRR0042	No	34341	DIMETHYL PHTHALATE	TOTWUG/L	06/05/84-08/11/86	2	8	
MNRR0048	No	34341	DIMETHYL PHTHALATE	TOTWUG/L	06/05/84-08/11/86	2	8	
MNRR0055	No	34341	DIMETHYL PHTHALATE	TOTWUG/L	05/30/84-08/12/86	2	8	
MNRR0083	Yes	34341	DIMETHYL PHTHALATE	TOTWUG/L	10/26/82-10/26/82	0	1	
MNRR0109	Yes	34341	DIMETHYL PHTHALATE	TOTWUG/L	06/13/84-08/11/86	2	7	
MNRR0067	No	34345	DIMETHYL PHTHALATE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34345	DIMETHYL PHTHALATE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0067	No	34350	1,2-DIPHENYLHYDRAZINE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34350	1,2-DIPHENYLHYDRAZINE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0043	No	34355	ENDOSULFAN SULFATE	WET WGTTISMG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34355	ENDOSULFAN SULFATE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34355	ENDOSULFAN SULFATE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0095	No	34355	ENDOSULFAN SULFATE	WET WGTTISMG/KG	07/26/88-07/26/88	0	3	
MNRR0056	No	34359	ENDOSULFAN, BETA	DRY WGTBOTUG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	34359	ENDOSULFAN, BETA	DRY WGTBOTUG/KG	03/11/92-03/11/92	0	1	
MNRR0043	No	34360	ENDOSULFAN, BETA	WET WGTTISMG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34360	ENDOSULFAN, BETA	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34360	ENDOSULFAN, BETA	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0095	No	34360	ENDOSULFAN, BETA	WET WGTTISMG/KG	07/26/88-07/26/88	0	3	
MNRR0025	No	34361	ENDOSULFAN, ALPHA	TOTWUG/L	10/18/82-05/30/95	12	26	
MNRR0040	No	34361	ENDOSULFAN, ALPHA	TOTWUG/L	07/28/81-05/30/95	13	31	
MNRR0042	No	34361	ENDOSULFAN, ALPHA	TOTWUG/L	10/18/82-05/30/95	12	26	
MNRR0048	No	34361	ENDOSULFAN, ALPHA	TOTWUG/L	07/15/81-05/30/95	13	29	
MNRR0055	No	34361	ENDOSULFAN, ALPHA	TOTWUG/L	06/28/82-05/30/95	12	27	
MNRR0056	No	34361	ENDOSULFAN, ALPHA	TOTWUG/L	03/11/92-03/11/92	0	1	
MNRR0068	Yes	34361	ENDOSULFAN, ALPHA	TOTWUG/L	03/11/92-03/11/92	0	1	
MNRR0103	Yes	34361	ENDOSULFAN, ALPHA	TOTWUG/L	06/25/87-06/12/95	7	13	
MNRR0109	Yes	34361	ENDOSULFAN, ALPHA	TOTWUG/L	06/08/82-06/12/95	13	26	
MNRR0083	Yes	34363	ENDOSULFAN, ALPHA	SUSPUG/L	10/26/82-10/26/82	0	1	
MNRR0043	No	34365	ENDOSULFAN, ALPHA	WET WGTTISMG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34365	ENDOSULFAN, ALPHA	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34365	ENDOSULFAN, ALPHA	WET WGTTISMG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	34365	ENDOSULFAN, ALPHA	WET WGTTISMG/KG	07/26/88-09/10/91	3	4	
MNRR0043	No	34370	ENDRIN ALDEHYDE	WET WGTTISMG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34370	ENDRIN ALDEHYDE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34370	ENDRIN ALDEHYDE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0095	No	34370	ENDRIN ALDEHYDE	WET WGTTISMG/KG	07/26/88-07/26/88	0	3	
MNRR0067	No	34375	ETHYLBENZENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34375	ETHYLBENZENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34380	FLUORANTHENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34380	FLUORANTHENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34385	FLUORENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34385	FLUORENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34390	HEXACHLOROCYCLOPENTADIENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34390	HEXACHLOROCYCLOPENTADIENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34395	HEXACHLOROBUTADIENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34395	HEXACHLOROBUTADIENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34400	HEXACHLOROETHANE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34400	HEXACHLOROETHANE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34407	INDENO (1,2,3-CD) PYRENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34407	INDENO (1,2,3-CD) PYRENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34412	ISOPHORONE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34412	ISOPHORONE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34417	METHYL BROMIDE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34417	METHYL BROMIDE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34422	METHYL CHLORIDE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34422	METHYL CHLORIDE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34427	METHYLENE CHLORIDE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34427	METHYLENE CHLORIDE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34432	N-NITROSODI-N-PROPYLAMINE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34432	N-NITROSODI-N-PROPYLAMINE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34437	N-NITROSODIPHENYLAMINE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34437	N-NITROSODIPHENYLAMINE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34446	NAPHTHALENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34446	NAPHTHALENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34451	NITROBENZENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34451	NITROBENZENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34456	PARACHLOROMETA CRESOL	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34456	PARACHLOROMETA CRESOL	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34465	PHENANTHRENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34465	PHENANTHRENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34468	PHENOL	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34468	PHENOL	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34473	PYRENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34473	PYRENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34474	SILVER	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34474	SILVER	WET WGTTISMG/KG	09/22/81-10/26/82	1	2	
MNRR0067	No	34479	TETRACHLOROETHYLENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34479	TETRACHLOROETHYLENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0067	No	34484	TOLUENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34484	TOLUENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34492	TRICHLOROFLUOROMETHANE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34492	TRICHLOROFLUOROMETHANE	WET WGTTISMG/KG	09/22/81-09/22/81	0	1	
MNRR0067	No	34500	1,1-DICHLOROETHANE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34500	1,1-DICHLOROETHANE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34505	1,1-DICHLOROETHYLENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34505	1,1-DICHLOROETHYLENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34510	1,1,1-TRICHLOROETHANE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34510	1,1,1-TRICHLOROETHANE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34515	1,1,2-TRICHLOROETHANE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34515	1,1,2-TRICHLOROETHANE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34520	1,1,2,2-TETRACHLOROETHANE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34520	1,1,2,2-TETRACHLOROETHANE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34525	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34525	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0083	Yes	34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE	WET WGTTISMG/KG	10/26/82-08/21/83	0	2	
MNRR0067	No	34535	1,2-DICHLOROETHANE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34535	1,2-DICHLOROETHANE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34540	1,2-DICHLOROBENZENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34540	1,2-DICHLOROBENZENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34545	1,2-DICHLOROPROPANE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34545	1,2-DICHLOROPROPANE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34550	TRANS-1,2-DICHLOROETHENE, IN TISSUE, WET WT.	MG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34550	TRANS-1,2-DICHLOROETHENE, IN TISSUE, WET WT.	MG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34555	1,2,4-TRICHLOROBENZENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34555	1,2,4-TRICHLOROBENZENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34560	1,2,5,6-DIBENZANTHRACENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34560	1,2,5,6-DIBENZANTHRACENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34570	1,3-DICHLOROBENZENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34570	1,3-DICHLOROBENZENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34575	1,4-DICHLOROBENZENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34575	1,4-DICHLOROBENZENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34580	2-CHLOROETHYL VINYL ETHER	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34580	2-CHLOROETHYL VINYL ETHER	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34585	2-CHLORONAPHTHALENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34585	2-CHLORONAPHTHALENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34590	2-CHLOROPHENOL	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34590	2-CHLOROPHENOL	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34595	2-NITROPHENOL	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34595	2-NITROPHENOL	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0025	No	34596	DI-N-OCTYL PHTHALATE	TOTWUG/L	06/05/84-08/11/86	2	8	
MNRR0040	No	34596	DI-N-OCTYL PHTHALATE	TOTWUG/L	06/05/84-08/11/86	2	8	
MNRR0042	No	34596	DI-N-OCTYL PHTHALATE	TOTWUG/L	06/05/84-08/11/86	2	8	
MNRR0048	No	34596	DI-N-OCTYL PHTHALATE	TOTWUG/L	06/05/84-08/11/86	2	8	
MNRR0055	No	34596	DI-N-OCTYL PHTHALATE	TOTWUG/L	05/30/84-08/12/86	2	8	
MNRR0109	Yes	34596	DI-N-OCTYL PHTHALATE	TOTWUG/L	06/13/84-08/11/86	2	7	
MNRR0067	No	34600	DI-N-OCTYL PHTHALATE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34600	DI-N-OCTYL PHTHALATE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34605	2,4-DICHLOROPHENOL	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34605	2,4-DICHLOROPHENOL	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34610	2,4-DIMETHYLPHENOL	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34610	2,4-DIMETHYLPHENOL	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34615	2,4-DINITROTOLUENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34615	2,4-DINITROTOLUENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34620	2,4-DINITROPHENOL	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34620	2,4-DINITROPHENOL	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34625	2,4,6-TRICHLOROPHENOL	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34625	2,4,6-TRICHLOROPHENOL	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34630	2,6-DINITROTOLUENE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34630	2,6-DINITROTOLUENE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34635	3,3'-DICHLOROBENZIDINE	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34635	3,3'-DICHLOROBENZIDINE	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34640	4-BROMOPHENYL PHENYL ETHER	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34640	4-BROMOPHENYL PHENYL ETHER	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34645	4-CHLOROPHENYL PHENYL ETHER	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34645	4-CHLOROPHENYL PHENYL ETHER	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34650	4-NITROPHENOL	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34650	4-NITROPHENOL	WET WGTTISMG/KG	10/26/82-08/21/83	0	2	
MNRR0067	No	34661	DNOC (4,6-DINITRO-ORTHO-CRESOL)	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34661	DNOC (4,6-DINITRO-ORTHO-CRESOL)	WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34664	PCB - 1221	WET WGTTISMG/KG	08/21/80-08/21/80	0	1	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0073	Yes	34664	PCB - 1221 WET WGTTISMG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	34664	PCB - 1221 WET WGTTISMG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	34664	PCB - 1221 WET WGTTISMG/KG	09/10/91-09/10/91	0	1	
MNRR0067	No	34667	PCB - 1232 WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	34667	PCB - 1232 WET WGTTISMG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	34667	PCB - 1232 WET WGTTISMG/KG	09/22/81-08/20/92	10	4	
MNRR0043	No	34669	PCB - 1248 WET WGTTISMG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34669	PCB - 1248 WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	34669	PCB - 1248 WET WGTTISMG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	34669	PCB - 1248 WET WGTTISMG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	34669	PCB - 1248 WET WGTTISMG/KG	07/26/88-07/26/88	0	3	
MNRR0043	No	34670	PCB - 1260 WET WGTTISMG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34670	PCB - 1260 WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	34670	PCB - 1260 WET WGTTISMG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	34670	PCB - 1260 WET WGTTISMG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	34670	PCB - 1260 WET WGTTISMG/KG	07/26/88-09/10/91	3	4	
MNRR0033	No	34671	PCB - 1016 TOTWUG/L	04/18/89-02/20/90	0	4	
MNRR0051	No	34671	PCB - 1016 TOTWUG/L	06/06/95-06/06/95	0	1	
MNRR0056	No	34671	PCB - 1016 TOTWUG/L	03/11/92-03/11/92	0	1	
MNRR0068	Yes	34671	PCB - 1016 TOTWUG/L	03/11/92-03/11/92	0	1	
MNRR0067	No	34674	PCB - 1016 WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	34674	PCB - 1016 WET WGTTISMG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	34674	PCB - 1016 WET WGTTISMG/KG	09/22/81-08/20/92	10	4	
MNRR0067	No	34679	2,3,7,8-TETRACHLORODIBENZO-P-DIOXINWET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34679	2,3,7,8-TETRACHLORODIBENZO-P-DIOXINWET WGTTISMG/KG	09/22/81-10/26/82	1	2	
MNRR0043	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	07/26/88-09/10/91	3	4	
MNRR0043	No	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	10/26/82-08/20/92	9	3	
MNRR0095	No	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	07/26/88-09/10/91	3	4	
MNRR0067	No	34683	DI-N-BUTYL PHTHALATE,TISSUE,WET WGTWET WGT	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34683	DI-N-BUTYL PHTHALATE,TISSUE,WET WGTWET WGT	09/22/81-08/21/83	1	3	
MNRR0043	No	34685	ENDRIN WET WGTTISMG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34685	ENDRIN WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	34685	ENDRIN WET WGTTISMG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	34685	ENDRIN WET WGTTISMG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	34685	ENDRIN WET WGTTISMG/KG	07/26/88-09/10/91	3	4	
MNRR0043	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	07/26/88-09/10/91	3	4	
MNRR0043	No	34687	HEPTACHLOR WET WGTTISMG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34687	HEPTACHLOR WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	34687	HEPTACHLOR WET WGTTISMG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	34687	HEPTACHLOR WET WGTTISMG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	34687	HEPTACHLOR WET WGTTISMG/KG	07/26/88-09/10/91	3	4	
MNRR0067	No	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	34688	HEXACHLOROBENZENE WET WGTTISMG/KG	09/10/91-09/10/91	0	1	
MNRR0043	No	34689	PCB - 1242 WET WGTTISMG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34689	PCB - 1242 WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	34689	PCB - 1242 WET WGTTISMG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	34689	PCB - 1242 WET WGTTISMG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	34689	PCB - 1242 WET WGTTISMG/KG	07/26/88-07/26/88	0	3	
MNRR0043	No	34690	PCB - 1254 WET WGTTISMG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34690	PCB - 1254 WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	34690	PCB - 1254 WET WGTTISMG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	34690	PCB - 1254 WET WGTTISMG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	34690	PCB - 1254 WET WGTTISMG/KG	07/26/88-09/10/91	3	4	
MNRR0043	No	34691	TOXAPHENE WET WGTTISMG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	34691	TOXAPHENE WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34691	TOXAPHENE WET WGTTISMG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	34691	TOXAPHENE WET WGTTISMG/KG	07/26/88-09/10/91	3	4	
MNRR0067	No	34692	TRICHLOROETHYLENE WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34692	TRICHLOROETHYLENE WET WGTTISMG/KG	09/22/81-08/21/83	1	3	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0067	No	34693	VINYL CHLORIDE WET WGTTISMG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34693	VINYL CHLORIDE WET WGTTISMG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34698	TRANS-1,3-DICHLOROPROPENEFISH TISSUE WET WGT MG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34698	TRANS-1,3-DICHLOROPROPENEFISH TISSUE WET WGT MG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	34703	CIS-1,3-DICHLOROPROPENE FISH TISSUE WET WGT MG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	34703	CIS-1,3-DICHLOROPROPENE FISH TISSUE WET WGT MG/KG	09/22/81-08/21/83	1	3	
MNRR0026	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	07/30/69-06/17/70	0	12	
MNRR0029	Yes	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	09/03/63-06/03/68	4	64	
MNRR0072	No	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	04/11/61-11/10/64	3	44	
MNRR0051	No	38437	DIBROMOCHLOROPROPANE WATER, TOTUG/L	03/25/97-03/25/97	0	1	
MNRR0051	No	38865	OXAMYL WATER, TOTUG/L	06/06/95-06/06/95	0	1	
MNRR0033	No	38932	CHLORPYRIFOS, TOTAL RECOVERABLE UG/L	04/18/89-02/20/90	0	4	
MNRR0073	Yes	38932	CHLORPYRIFOS, TOTAL RECOVERABLE UG/L	07/08/94-07/08/94	0	1	
MNRR0058	No	39024	PROPAZINE,COULSON CONDUCTIVITY,WATER SAMPL(UG/L)	04/23/90-04/23/90	0	1	
MNRR0063	No	39024	PROPAZINE,COULSON CONDUCTIVITY,WATER SAMPL(UG/L)	04/23/90-04/23/90	0	1	
MNRR0025	No	39026	STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	10/18/82-08/06/91	8	19	
MNRR0040	No	39026	STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	07/28/81-08/07/91	10	24	
MNRR0042	No	39026	STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	10/18/82-08/06/91	8	20	
MNRR0048	No	39026	STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	07/15/81-08/07/91	10	22	
MNRR0055	No	39026	STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	06/28/82-08/07/91	9	21	
MNRR0103	Yes	39026	STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	06/25/87-08/20/91	4	7	
MNRR0109	Yes	39026	STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	06/08/82-08/20/91	9	20	
MNRR0058	No	39030	TREFLAN, MICROCOULOMETRIC,WATER SAMPLE (UG/L)	04/23/90-04/23/90	0	1	
MNRR0063	No	39030	TREFLAN, MICROCOULOMETRIC,WATER SAMPLE (UG/L)	04/23/90-04/23/90	0	1	
MNRR0025	No	39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	08/03/87-08/06/97	10	21	
MNRR0040	No	39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/08/87-08/06/97	10	24	
MNRR0042	No	39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/08/87-08/06/97	10	21	
MNRR0048	No	39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/08/87-08/06/97	10	22	
MNRR0051	No	39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/16/92-12/13/94	2	2	
MNRR0055	No	39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/08/87-08/05/96	9	19	
MNRR0073	Yes	39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	07/08/94-07/08/94	0	1	
MNRR0103	Yes	39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/25/87-08/26/97	10	18	
MNRR0109	Yes	39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/24/87-08/26/97	10	21	
MNRR0051	No	39051	METHOMYL IN WHOLE WATER (UG/L)	06/06/95-06/06/95	0	1	
MNRR0051	No	39053	ALDICARB IN WHOLE WATER (UG/L)	06/06/95-06/06/95	0	1	
MNRR0058	No	39054	SIMETRYNE IN WHOLE WATER (UG/L)	04/23/90-04/23/90	0	1	
MNRR0063	No	39054	SIMETRYNE IN WHOLE WATER (UG/L)	04/23/90-04/23/90	0	1	
MNRR0025	No	39055	SIMAZINE IN WHOLE WATER (UG/L)	08/11/86-08/06/97	10	22	
MNRR0040	No	39055	SIMAZINE IN WHOLE WATER (UG/L)	06/08/87-08/06/97	10	24	
MNRR0042	No	39055	SIMAZINE IN WHOLE WATER (UG/L)	06/08/87-08/06/97	10	21	
MNRR0048	No	39055	SIMAZINE IN WHOLE WATER (UG/L)	06/08/87-08/06/97	10	22	
MNRR0055	No	39055	SIMAZINE IN WHOLE WATER (UG/L)	06/08/87-08/05/96	9	19	
MNRR0058	No	39055	SIMAZINE IN WHOLE WATER (UG/L)	04/23/90-04/23/90	0	1	
MNRR0063	No	39055	SIMAZINE IN WHOLE WATER (UG/L)	04/23/90-04/23/90	0	1	
MNRR0103	Yes	39055	SIMAZINE IN WHOLE WATER (UG/L)	06/25/87-08/26/97	10	18	
MNRR0109	Yes	39055	SIMAZINE IN WHOLE WATER (UG/L)	06/24/87-08/26/97	10	21	
MNRR0058	No	39056	PROMETONE IN WHOLE WATER (UG/L)	04/23/90-04/23/90	0	1	
MNRR0063	No	39056	PROMETONE IN WHOLE WATER (UG/L)	04/23/90-04/23/90	0	1	
MNRR0058	No	39057	PROMETRYNE IN WHOLE WATER (UG/L)	04/23/90-04/23/90	0	1	
MNRR0063	No	39057	PROMETRYNE IN WHOLE WATER (UG/L)	04/23/90-04/23/90	0	1	
MNRR0067	No	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	08/21/80-08/21/80	0	1	
MNRR0083	Yes	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	09/22/81-08/21/83	1	3	
MNRR0043	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/06/88-10/06/88	0	1	
MNRR0073	Yes	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	07/08/94-07/08/94	0	1	
MNRR0083	Yes	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	09/22/81-08/20/92	10	4	
MNRR0095	No	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	07/26/88-09/10/91	3	4	
MNRR0073	Yes	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	07/08/94-07/08/94	0	1	
MNRR0043	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/06/88-10/06/88	0	1	
MNRR0073	Yes	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	07/08/94-07/08/94	0	1	
MNRR0083	Yes	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	09/22/81-08/20/92	10	4	
MNRR0095	No	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	07/26/88-09/10/91	3	4	
MNRR0073	Yes	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	07/08/94-07/08/94	0	1	
MNRR0043	No	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	10/06/88-10/06/88	0	1	
MNRR0073	Yes	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	07/08/94-07/08/94	0	1	
MNRR0083	Yes	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	09/22/81-08/20/92	10	4	
MNRR0095	No	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	07/26/88-09/10/91	3	4	
MNRR0073	Yes	39070	CHLORDANE-NONACHLOR,CIS ISO BOTTOM DEPOS UG/KG	07/08/94-07/08/94	0	1	
MNRR0043	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	10/06/88-10/06/88	0	1	
MNRR0073	Yes	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	07/08/94-07/08/94	0	1	
MNRR0083	Yes	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	09/22/81-08/20/92	10	4	
MNRR0095	No	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	07/26/88-09/10/91	3	4	
MNRR0073	Yes	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	07/08/94-07/08/94	0	1	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0043	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/06/88-10/06/88	0	1	
MNRR0067	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	08/21/80-08/21/80	0	1	
MNRR0073	Yes	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	07/08/94-07/08/94	0	1	
MNRR0083	Yes	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	09/22/81-08/20/92	10	4	
MNRR0095	No	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	07/26/88-09/10/91	3	4	
MNRR0056	No	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	07/08/94-07/08/94	0	1	
MNRR0086	Yes	39086	ALKALINITY,WATER,DISS.INCR TIT,FIELD,AS CACO3,MG/L	11/26/85-08/24/94	8	33	
MNRR0067	No	39099	BIS(2-ETHYLHEXYL)PHTHALATE,TISSUE,WET WGT,MG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	39099	BIS(2-ETHYLHEXYL)PHTHALATE,TISSUE,WET WGT,MG/KG	09/22/81-08/21/83	1	3	
MNRR0025	No	39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	2	8	
MNRR0040	No	39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	2	8	
MNRR0042	No	39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	2	8	
MNRR0048	No	39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	2	8	
MNRR0055	No	39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	05/30/84-08/12/86	2	8	
MNRR0109	Yes	39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	06/13/84-08/11/86	2	7	
MNRR0043	No	39105	PERCENT FAT HEXANE EXTRACTION	10/06/88-10/06/88	0	1	
MNRR0073	Yes	39105	PERCENT FAT HEXANE EXTRACTION	07/08/94-07/08/94	0	1	
MNRR0083	Yes	39105	PERCENT FAT HEXANE EXTRACTION	09/22/81-08/20/92	10	4	
MNRR0095	No	39105	PERCENT FAT HEXANE EXTRACTION	07/26/88-09/10/91	3	4	
MNRR0025	No	39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	2	8	
MNRR0040	No	39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	2	8	
MNRR0042	No	39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	2	8	
MNRR0048	No	39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	2	8	
MNRR0055	No	39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	05/30/84-08/12/86	2	8	
MNRR0109	Yes	39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	06/13/84-08/11/86	2	7	
MNRR0033	No	39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	0	4	
MNRR0073	Yes	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/08/94-07/08/94	0	1	
MNRR0043	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	10/06/88-10/06/88	0	1	
MNRR0067	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	08/21/80-08/21/80	0	1	
MNRR0073	Yes	39302	P P DDT IN TISSUE WET WGT (UG/G)	07/08/94-07/08/94	0	1	
MNRR0083	Yes	39302	P P DDT IN TISSUE WET WGT (UG/G)	09/22/81-08/20/92	10	4	
MNRR0095	No	39302	P P DDT IN TISSUE WET WGT (UG/G)	07/26/88-09/10/91	3	4	
MNRR0043	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	10/06/88-10/06/88	0	1	
MNRR0083	Yes	39307	O P DDT IN TISSUE WET WGT (UG/G)	09/22/81-08/21/83	1	3	
MNRR0095	No	39307	O P DDT IN TISSUE WET WGT (UG/G)	07/26/88-07/26/88	0	3	
MNRR0033	No	39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	0	4	
MNRR0073	Yes	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/08/94-07/08/94	0	1	
MNRR0043	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	10/06/88-10/06/88	0	1	
MNRR0067	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	08/21/80-08/21/80	0	1	
MNRR0073	Yes	39312	P P DDD IN TISSUE WET WGT (UG/G)	07/08/94-07/08/94	0	1	
MNRR0083	Yes	39312	P P DDD IN TISSUE WET WGT (UG/G)	09/22/81-08/20/92	10	4	
MNRR0095	No	39312	P P DDD IN TISSUE WET WGT (UG/G)	07/26/88-09/10/91	3	4	
MNRR0025	No	39315	O,P' DDD IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/11/86	3	10	
MNRR0040	No	39315	O,P' DDD IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/11/86	5	14	
MNRR0042	No	39315	O,P' DDD IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/11/86	3	10	
MNRR0048	No	39315	O,P' DDD IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/11/86	5	12	
MNRR0055	No	39315	O,P' DDD IN WHOLE WATER SAMPLE (UG/L)	06/28/82-08/12/86	4	11	
MNRR0109	Yes	39315	O,P' DDD IN WHOLE WATER SAMPLE (UG/L)	06/08/82-08/11/86	4	10	
MNRR0033	No	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	0	4	
MNRR0056	No	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/08/94-07/08/94	0	1	
MNRR0043	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/06/88-10/06/88	0	1	
MNRR0067	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	07/26/88-09/10/91	3	4	
MNRR0043	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	10/06/88-10/06/88	0	1	
MNRR0083	Yes	39325	O,P DDD IN TISSUE WET WGT (UG/G)	09/22/81-08/21/83	1	3	
MNRR0095	No	39325	O,P DDD IN TISSUE WET WGT (UG/G)	07/26/88-07/26/88	0	3	
MNRR0073	Yes	39326	PROPACHLOR(RAMROD) IN SEDIMENT DRY WEIGHT UG/KG	07/08/94-07/08/94	0	1	
MNRR0043	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	10/06/88-10/06/88	0	1	
MNRR0083	Yes	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	09/22/81-08/21/83	1	3	
MNRR0095	No	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	07/26/88-07/26/88	0	3	
MNRR0025	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0029	Yes	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	3	4	
MNRR0033	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	0	4	
MNRR0040	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	16	38	
MNRR0042	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0048	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16	34	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0055	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	06/28/82-08/05/96	14	30	
MNRR0056	No	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	
MNRR0103	Yes	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/27/81-08/26/97	16	19	
MNRR0109	Yes	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	06/08/82-08/26/97	15	31	
MNRR0056	No	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/08/94-07/08/94	0	1	
MNRR0025	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/12/89-08/07/89	0	2	
MNRR0040	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/12/89-08/07/89	0	2	
MNRR0042	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/12/89-08/07/89	0	2	
MNRR0048	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/13/89-08/07/89	0	2	
MNRR0055	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/13/89-08/07/89	0	2	
MNRR0056	No	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	03/11/92-03/11/92	0	1	
MNRR0103	Yes	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	08/09/89-08/09/89	0	1	
MNRR0109	Yes	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/07/89-08/09/89	0	2	
MNRR0056	No	39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	03/11/92-03/11/92	0	1	
MNRR0029	Yes	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/23/64-09/29/67	3	4	
MNRR0033	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	04/18/89-02/20/90	0	4	
MNRR0051	No	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	06/16/92-06/16/92	0	1	
MNRR0056	No	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	07/08/94-07/08/94	0	1	
MNRR0043	No	39346	METOLACHLOR IN TISSUES WETWTMG/KG	10/06/88-10/06/88	0	1	
MNRR0083	Yes	39346	METOLACHLOR IN TISSUES WETWTMG/KG	08/20/92-08/20/92	0	1	
MNRR0095	No	39346	METOLACHLOR IN TISSUES WETWTMG/KG	07/26/88-07/26/88	0	3	
MNRR0025	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/18/82-08/06/97	14	32	
MNRR0029	Yes	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/13/66-09/13/66	0	1	
MNRR0033	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	04/18/89-02/20/90	0	4	
MNRR0040	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/28/81-08/06/97	16	39	
MNRR0042	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/18/82-08/06/97	14	32	
MNRR0048	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/15/81-08/06/97	16	35	
MNRR0051	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/06/95-06/06/95	0	1	
MNRR0055	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/28/82-08/05/96	14	31	
MNRR0056	No	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/08/94-07/08/94	0	1	
MNRR0103	Yes	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/27/81-08/26/97	16	19	
MNRR0109	Yes	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/08/82-08/26/97	15	32	
MNRR0056	No	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	07/08/94-07/08/94	0	1	
MNRR0025	No	39356	METOLACHLOR(DUAL) IN WHOLE WATER UG/L	08/03/87-08/06/97	10	21	
MNRR0040	No	39356	METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/08/87-08/06/97	10	24	
MNRR0042	No	39356	METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/08/87-08/06/97	10	21	
MNRR0048	No	39356	METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/08/87-08/06/97	10	22	
MNRR0051	No	39356	METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/16/92-12/13/94	2	2	
MNRR0055	No	39356	METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/08/87-08/05/96	9	19	
MNRR0056	No	39356	METOLACHLOR(DUAL) IN WHOLE WATER UG/L	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39356	METOLACHLOR(DUAL) IN WHOLE WATER UG/L	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39356	METOLACHLOR(DUAL) IN WHOLE WATER UG/L	07/08/94-07/08/94	0	1	
MNRR0103	Yes	39356	METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/25/87-08/26/97	10	18	
MNRR0109	Yes	39356	METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/24/87-08/26/97	10	21	
MNRR0029	Yes	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	3	4	
MNRR0025	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0029	Yes	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	3	4	
MNRR0040	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	16	38	
MNRR0042	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0048	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16	34	
MNRR0055	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	06/28/82-08/05/96	14	30	
MNRR0056	No	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	
MNRR0103	Yes	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/27/81-08/26/97	16	19	
MNRR0109	Yes	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	06/08/82-08/26/97	15	31	
MNRR0025	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0029	Yes	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	3	4	
MNRR0040	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	16	38	
MNRR0042	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0048	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16	34	
MNRR0055	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	06/28/82-08/05/96	14	30	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0056	No	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	
MNRR0103	Yes	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/27/81-08/26/97	16	19	
MNRR0109	Yes	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	06/08/82-08/26/97	15	31	
MNRR0025	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0029	Yes	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	3	4	
MNRR0033	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	0	4	
MNRR0040	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	16	38	
MNRR0042	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0048	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16	34	
MNRR0055	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/28/82-08/05/96	14	30	
MNRR0056	No	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	
MNRR0103	Yes	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/25/87-08/26/97	10	18	
MNRR0109	Yes	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/08/82-08/26/97	15	31	
MNRR0056	No	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/08/94-07/08/94	0	1	
MNRR0025	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	08/15/95-08/06/97	1	5	
MNRR0040	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	08/15/95-08/06/97	1	7	
MNRR0042	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	08/15/95-08/06/97	1	5	
MNRR0048	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	08/15/95-08/06/97	1	5	
MNRR0055	No	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	08/15/95-08/05/96	0	3	
MNRR0103	Yes	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	08/28/95-08/26/97	1	5	
MNRR0109	Yes	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	08/28/95-08/26/97	1	5	
MNRR0056	No	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	03/11/92-03/11/92	0	1	
MNRR0025	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0029	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	3	4	
MNRR0033	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	0	4	
MNRR0040	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	16	38	
MNRR0042	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0048	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16	34	
MNRR0051	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	06/16/92-06/16/92	0	1	
MNRR0055	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	06/28/82-08/05/96	14	30	
MNRR0056	No	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	
MNRR0103	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	06/25/87-08/26/97	10	18	
MNRR0109	Yes	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	06/08/82-08/26/97	15	31	
MNRR0056	No	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/08/94-07/08/94	0	1	
MNRR0025	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0033	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	0	4	
MNRR0040	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	16	38	
MNRR0042	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0048	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16	34	
MNRR0051	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	06/16/92-06/16/92	0	1	
MNRR0055	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	06/28/82-08/05/96	14	30	
MNRR0056	No	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	
MNRR0103	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	06/25/87-08/26/97	10	18	
MNRR0109	Yes	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	06/08/82-08/26/97	15	31	
MNRR0056	No	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	03/11/92-03/11/92	0	1	
MNRR0043	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/06/88-10/06/88	0	1	
MNRR0067	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	08/21/80-08/21/80	0	1	
MNRR0073	Yes	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	07/08/94-07/08/94	0	1	
MNRR0083	Yes	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	09/22/81-08/20/92	10	4	
MNRR0095	No	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	07/26/88-09/10/91	3	4	
MNRR0029	Yes	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	3	4	
MNRR0033	No	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	0	4	
MNRR0073	Yes	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	07/08/94-07/08/94	0	1	
MNRR0025	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0029	Yes	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	3	4	
MNRR0033	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	0	4	
MNRR0040	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	16	38	
MNRR0042	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0048	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16	34	
MNRR0055	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	06/28/82-08/05/96	14	30	
MNRR0056	No	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	03/11/92-03/11/92	0	1	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0103	Yes	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	06/25/87-08/26/97	10	18	
MNRR0109	Yes	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	06/08/82-08/26/97	15	31	
MNRR0056	No	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	07/08/94-07/08/94	0	1	
MNRR0025	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0033	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	0	4	
MNRR0040	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	16	38	
MNRR0042	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	31	
MNRR0048	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16	34	
MNRR0051	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	06/16/92-06/16/92	0	1	
MNRR0055	No	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	06/28/82-08/05/96	14	30	
MNRR0103	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	06/25/87-08/26/97	10	18	
MNRR0109	Yes	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	06/08/82-08/26/97	15	31	
MNRR0056	No	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	03/11/92-03/11/92	0	1	
MNRR0083	Yes	39482	METHOXYCHLOR IN FISH - UG/KG	09/22/81-10/26/82	1	2	
MNRR0033	No	39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	04/18/89-02/20/90	0	4	
MNRR0051	No	39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	06/06/95-06/06/95	0	1	
MNRR0056	No	39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	03/11/92-03/11/92	0	1	
MNRR0056	No	39491	PCB - 1221 BOT. DEP..PCB SERIES DRY SOL UG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39491	PCB - 1221 BOT. DEP..PCB SERIES DRY SOL UG/KG	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39491	PCB - 1221 BOT. DEP..PCB SERIES DRY SOL UG/KG	07/08/94-07/08/94	0	1	
MNRR0033	No	39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	04/18/89-02/20/90	0	4	
MNRR0051	No	39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	06/06/95-06/06/95	0	1	
MNRR0056	No	39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/92-03/11/92	0	1	
MNRR0056	No	39495	PCB - 1232 BOT. DEP..PCB-SERIES DRY SOL UG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39495	PCB - 1232 BOT. DEP..PCB-SERIES DRY SOL UG/KG	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39495	PCB - 1232 BOT. DEP..PCB-SERIES DRY SOL UG/KG	07/08/94-07/08/94	0	1	
MNRR0033	No	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	04/18/89-02/20/90	0	4	
MNRR0051	No	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/06/95-06/06/95	0	1	
MNRR0056	No	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/92-03/11/92	0	1	
MNRR0056	No	39499	PCB - 1242 BOT. DEP..PCB-SERIES DRY SOL UG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39499	PCB - 1242 BOT. DEP..PCB-SERIES DRY SOL UG/KG	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39499	PCB - 1242 BOT. DEP..PCB-SERIES DRY SOL UG/KG	07/08/94-07/08/94	0	1	
MNRR0033	No	39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	04/18/89-02/20/90	0	4	
MNRR0051	No	39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	06/06/95-06/06/95	0	1	
MNRR0056	No	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	07/08/94-07/08/94	0	1	
MNRR0033	No	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	04/18/89-02/20/90	0	4	
MNRR0051	No	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/06/95-06/06/95	0	1	
MNRR0056	No	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/92-03/11/92	0	1	
MNRR0056	No	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	07/08/94-07/08/94	0	1	
MNRR0033	No	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	04/18/89-02/20/90	0	4	
MNRR0051	No	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	06/06/95-06/06/95	0	1	
MNRR0056	No	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	03/11/92-03/11/92	0	1	
MNRR0056	No	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	07/08/94-07/08/94	0	1	
MNRR0056	No	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	03/11/92-03/11/92	0	1	
MNRR0073	Yes	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	07/08/94-07/08/94	0	1	
MNRR0025	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	32	
MNRR0040	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	01/31/80-08/06/97	17	44	
MNRR0042	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14	32	
MNRR0048	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	08/13/80-08/06/97	16	37	
MNRR0055	No	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	06/28/82-08/05/96	14	30	
MNRR0103	Yes	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	01/30/80-08/26/97	17	22	
MNRR0109	Yes	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	08/13/80-08/26/97	17	35	
MNRR0033	No	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	0	4	
MNRR0083	Yes	39534	MALATHION IN TISSUE WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	
MNRR0051	No	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	06/16/92-12/13/94	2	2	
MNRR0025	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	08/03/87-08/06/97	10	21	
MNRR0040	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/08/87-08/06/97	10	24	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0042	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)		06/08/87-08/06/97	10	21	
MNRR0048	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)		06/08/87-08/06/97	10	22	
MNRR0055	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)		06/08/87-08/05/96	9	19	
MNRR0056	No	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)		03/11/92-03/11/92	0	1	
MNRR0068	Yes	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)		03/11/92-03/11/92	0	1	
MNRR0073	Yes	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)		07/08/94-07/08/94	0	1	
MNRR0103	Yes	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)		06/25/87-08/26/97	10	18	
MNRR0109	Yes	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)		06/24/87-08/26/97	10	21	
MNRR0051	No	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)		06/16/92-12/13/94	2	2	
MNRR0058	No	39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)		04/23/90-04/23/90	0	1	
MNRR0063	No	39630	ATRAZINE(AATREX) IN WHOLE WATER SAMPLE (UG/L)		04/23/90-04/23/90	0	1	
MNRR0073	Yes	39631	ATRAZINE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)		07/08/94-07/08/94	0	1	
MNRR0051	No	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)		06/16/92-06/16/92	0	1	
MNRR0051	No	39750	SEVIN IN WHOLE WATER SAMPLE (UG/L)		06/06/95-06/06/95	0	1	
MNRR0051	No	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)		06/16/92-06/16/92	0	1	
MNRR0025	No	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)		10/18/82-08/06/97	14	31	
MNRR0040	No	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)		07/28/81-08/06/97	16	38	
MNRR0042	No	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)		10/18/82-08/06/97	14	31	
MNRR0048	No	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)		07/15/81-08/06/97	16	34	
MNRR0055	No	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)		06/28/82-08/05/96	14	30	
MNRR0056	No	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)		03/11/92-03/11/92	0	1	
MNRR0068	Yes	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)		03/11/92-03/11/92	0	1	
MNRR0103	Yes	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)		06/25/87-08/26/97	10	18	
MNRR0109	Yes	39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)		06/08/82-08/26/97	15	31	
MNRR0043	No	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG		10/06/88-10/06/88	0	1	
MNRR0067	No	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG		08/21/80-08/21/80	0	1	
MNRR0073	Yes	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG		07/08/94-07/08/94	0	1	
MNRR0083	Yes	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG		09/22/81-08/20/92	10	4	
MNRR0095	No	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG		07/26/88-09/10/91	3	4	
MNRR0023	No	48009	LEPOMIS CYANELLUS-GREEN SUNFISH-#/EFFORT		07/31/72-07/31/72	0	1	
MNRR0054	No	48009	LEPOMIS CYANELLUS-GREEN SUNFISH-#/EFFORT		07/12/72-07/12/72	0	1	
MNRR0023	No	48019	ICTALURUS MELAS-BLACK BULLHEAD-#/EFFORT		07/31/72-07/31/72	0	1	
MNRR0024	No	48023	NOTROPIS STRAMINEUS-SAND SHINER-#/EFFORT		07/13/72-07/13/72	0	1	
MNRR0054	No	48023	NOTROPIS STRAMINEUS-SAND SHINER-#/EFFORT		07/12/72-07/12/72	0	1	
MNRR0009	No	48024	NOTROPIS DORSALIS-BIGMOUTH SHINER-#/EFFORT		07/14/72-07/14/72	0	1	
MNRR0024	No	48024	NOTROPIS DORSALIS-BIGMOUTH SHINER-#/EFFORT		07/13/72-07/13/72	0	1	
MNRR0024	No	48025	NOTROPIS LUTRENSIS-RED SHINER-#/EFFORT		07/13/72-07/13/72	0	1	
MNRR0009	No	48027	HYBOGNATHUS HANKINSONI-BRASSY MINNOW-#/EFFORT		07/14/72-07/14/72	0	1	
MNRR0023	No	48027	HYBOGNATHUS HANKINSONI-BRASSY MINNOW-#/EFFORT		07/31/72-07/31/72	0	1	
MNRR0009	No	48028	PIMEPHALES PROMELAS-FATHEAD MINNOW-#/EFFORT		07/14/72-07/14/72	0	1	
MNRR0023	No	48028	PIMEPHALES PROMELAS-FATHEAD MINNOW-#/EFFORT		07/31/72-07/31/72	0	1	
MNRR0054	No	48028	PIMEPHALES PROMELAS-FATHEAD MINNOW-#/EFFORT		07/12/72-07/12/72	0	1	
MNRR0032	No	50050	FLOW, IN CONDUIT OR THRU A TREATMENT PLANT	MGD	03/24/76-04/14/87	11	6	
MNRR0032	No	50060	CHLORINE, TOTAL RESIDUAL (MG/L)		06/11/80-04/14/87	6	2	
MNRR0051	No	50060	CHLORINE, TOTAL RESIDUAL (MG/L)		08/23/90-08/23/90	0	1	
MNRR0051	No	50915	INVALID PARAMETER		08/23/90-08/23/90	0	1	
MNRR0029	Yes	60050	ALGAE, TOTAL (CELLS/ML)		10/02/61-11/01/67	6	101	
MNRR0048	No	60050	ALGAE, TOTAL (CELLS/ML)		04/19/77-10/08/80	3	3	
MNRR0051	No	60050	ALGAE, TOTAL (CELLS/ML)		10/19/93-10/19/93	0	1	
MNRR0086	Yes	60050	ALGAE, TOTAL (CELLS/ML)		11/27/74-07/22/81	6	35	
MNRR0107	Yes	60050	ALGAE, TOTAL (CELLS/ML)		10/07/74-05/20/81	6	25	
MNRR0109	Yes	60050	ALGAE, TOTAL (CELLS/ML)		01/27/77-10/08/80	3	26	
MNRR0029	Yes	60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)		10/02/61-11/01/67	6	101	
MNRR0029	Yes	60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)		10/02/61-11/01/67	6	101	
MNRR0029	Yes	60200	ALGAE, COCCOID GREEN (CELLS/ML)		10/02/61-11/01/67	6	101	
MNRR0029	Yes	60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)		10/02/61-11/01/67	6	101	
MNRR0029	Yes	60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)		10/02/61-11/01/67	6	101	
MNRR0029	Yes	60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)		10/02/61-11/01/67	6	101	
MNRR0029	Yes	60390	DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL		10/02/61-06/05/67	5	85	
MNRR0029	Yes	60391	DIATOMS,PERCENT OF TOTAL,SECOND DOMINANT SPECIES		10/03/66-06/05/67	0	4	
MNRR0029	Yes	60392	DIATOMS,PERCENT OF TOTAL,THIRD DOMINANT SPECIES		10/03/66-05/01/67	0	3	
MNRR0029	Yes	60393	DIATOMS,PERCENT OF TOTAL,FOURTH DOMINANT SPECIES		10/03/66-05/01/67	0	3	
MNRR0029	Yes	60394	DIATOMS,PERCENT OF TOTAL,ALL OTHER SPECIES		10/03/66-06/05/67	0	4	
MNRR0029	Yes	60400	DIATOMS, CENTRIC (/ML)		10/02/61-11/01/67	6	101	
MNRR0029	Yes	60600	DIATOMS, PENNATE (/ML)		10/02/61-11/01/67	6	101	
MNRR0029	Yes	60610	DIATOM, INERT SHELLS - CENTRIC (/ML)		10/03/66-11/01/67	1	9	
MNRR0029	Yes	60620	DIATOM, INERT SHELLS - PENNATE (/ML)		10/03/66-11/01/67	1	9	
MNRR0029	Yes	60820	PROTOZOA, TOTAL (/ML)		10/02/61-09/17/62	0	22	
MNRR0029	Yes	60850	ROTIFERS, TOTAL (/LITER)		10/02/61-06/07/65	3	62	
MNRR0029	Yes	60900	CRUSTACEA, TOTAL (/LITER)		10/02/61-06/07/65	3	62	
MNRR0029	Yes	60950	NEMATODES, TOTAL (/LITER)		10/02/61-06/07/65	3	61	
MNRR0029	Yes	60990	ZOOPLANKTON OTHER (/LITER)		10/02/61-06/07/65	3	61	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0029	Yes	61390	DIATOMS,FIRST DOMINANT SPECIES OF UNITS - CODE	10/03/66-06/05/67	0	4	
MNRR0029	Yes	61391	DIATOMS,SECOND DOMINANT SPECIES OF UNITS - CODE	10/03/66-06/05/67	0	4	
MNRR0029	Yes	61392	DIATOMS,THIRD DOMINANT SPECIES OF UNITS - CODE	10/03/66-05/01/67	0	3	
MNRR0029	Yes	61393	DIATOMS,FOURTH DOMINANT SPECIES OF UNITS - CODE	10/03/66-05/01/67	0	3	
MNRR0056	No	61470	HEPTACHLOR, SLUDGE SOLID FRACTN, DRY WT, UG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	61470	HEPTACHLOR, SLUDGE SOLID FRACTN, DRY WT, UG/KG	03/11/92-03/11/92	0	1	
MNRR0056	No	61471	HEPTACHLOR SLUDGE TOTAL FRACTION UG/L	03/11/92-03/11/92	0	1	
MNRR0068	Yes	61471	HEPTACHLOR SLUDGE TOTAL FRACTION UG/L	03/11/92-03/11/92	0	1	
MNRR0056	No	61476	P,P'DDT, SLUDGE SOLID FRACTN, DRY WT, UG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	61476	P,P'DDT, SLUDGE SOLID FRACTN, DRY WT, UG/KG	03/11/92-03/11/92	0	1	
MNRR0056	No	61479	P,P'DDE, SLUDGE SOLID FRACTN, DRY WT, UG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	61479	P,P'DDE, SLUDGE SOLID FRACTN, DRY WT, UG/KG	03/11/92-03/11/92	0	1	
MNRR0056	No	61482	P,P'DDD, SLUDGE SOLID FRACTN, DRY WT, UG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	61482	P,P'DDD, SLUDGE SOLID FRACTN, DRY WT, UG/KG	03/11/92-03/11/92	0	1	
MNRR0012	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	15	141	
MNRR0026	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/01/56-01/15/74	17	64	
MNRR0033	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/18/89-02/20/90	0	4	
MNRR0035	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/27/89-08/01/89	0	2	
MNRR0036	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/27/89-08/01/89	0	2	
MNRR0040	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/11/71-12/03/75	4	27	
MNRR0080	No	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/75-06/24/80	4	37	
MNRR0082	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/17/72-12/02/75	3	29	
MNRR0086	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/18/73-08/24/94	21	118	
MNRR0103	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/14/72-12/02/75	3	20	
MNRR0107	Yes	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/07/74-09/10/86	11	80	
MNRR0022	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/22/80-10/22/80	0	1	
MNRR0026	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	08/23/72-01/15/74	1	10	
MNRR0078	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/15/69-01/15/69	0	1	
MNRR0080	No	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/19/75-05/13/80	4	17	
MNRR0086	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/10/73-02/12/86	12	63	
MNRR0099	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/12/69-09/12/69	0	1	
MNRR0107	Yes	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/07/74-03/19/86	11	56	
MNRR0026	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	10/01/56-01/15/74	17	62	
MNRR0080	No	70302	SOLIDS, DISSOLVED-TONS PER DAY	07/16/75-06/24/80	4	49	
MNRR0086	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	04/18/73-02/22/83	9	79	
MNRR0107	Yes	70302	SOLIDS, DISSOLVED-TONS PER DAY	10/07/74-01/28/83	8	57	
MNRR0022	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/22/80-10/22/80	0	1	
MNRR0026	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/01/56-01/15/74	17	62	
MNRR0080	No	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	07/16/75-06/24/80	4	49	
MNRR0086	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/18/73-02/22/83	9	79	
MNRR0107	Yes	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/07/74-01/28/83	8	57	
MNRR0073	Yes	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	07/08/94-07/08/94	0	1	
MNRR0086	Yes	70326	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .002MM	11/14/89-05/01/90	0	3	
MNRR0086	Yes	70327	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .004MM	11/14/89-05/01/90	0	3	
MNRR0086	Yes	70328	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .008MM	03/13/90-03/13/90	0	1	
MNRR0086	Yes	70329	SUS SED FALL DIA(NATIVEWATER)% FINER THAN .016MM	11/14/89-05/01/90	0	3	
MNRR0001	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	08/30/79-08/30/79	0	1	
MNRR0002	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/18/79-10/22/81	2	300	
MNRR0011	Yes	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/79-10/21/81	2	311	
MNRR0013	No	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	03/27/67-03/27/67	0	1	
MNRR0020	Yes	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/16/79-10/20/81	2	302	
MNRR0086	Yes	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	11/28/84-08/24/94	9	29	
MNRR0107	Yes	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	01/20/77-09/10/86	9	51	
MNRR0086	Yes	70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	08/07/84-11/28/84	0	2	
MNRR0086	Yes	70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	08/07/84-11/28/84	0	2	
MNRR0002	No	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/22/81-10/22/81	0	1	
MNRR0020	Yes	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	07/21/81-07/21/81	0	1	
MNRR0086	Yes	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	08/07/84-11/28/84	0	2	
MNRR0086	Yes	70335	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 1.00MM	08/07/84-11/28/84	0	2	
MNRR0086	Yes	70336	SUSPENDED SED SIEVE DIAMETER,% FINER THAN 2.00MM	08/07/84-11/28/84	0	2	
MNRR0074	Yes	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	03/22/49-10/25/49	0	5	
MNRR0086	Yes	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	11/10/72-02/11/87	14	54	
MNRR0001	No	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/07/76-08/30/79	2	15	
MNRR0074	Yes	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	03/22/49-10/25/49	0	12	
MNRR0086	Yes	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	11/10/72-02/11/87	14	55	
MNRR0074	Yes	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	03/22/49-10/25/49	0	12	
MNRR0086	Yes	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	10/24/73-02/11/87	13	12	
MNRR0074	Yes	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	12/07/48-10/25/49	0	13	
MNRR0086	Yes	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	11/10/72-02/11/87	14	55	
MNRR0074	Yes	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	12/07/48-10/25/49	0	14	
MNRR0001	No	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/07/76-08/30/79	2	387	
MNRR0002	No	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/18/79-10/22/81	2	293	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0011	Yes	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/17/79-10/21/81	2	301	
MNRR0020	Yes	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/16/79-10/20/81	2	284	
MNRR0074	Yes	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	12/07/48-11/08/49	0	15	
MNRR0086	Yes	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	11/21/71-08/14/90	18	126	
MNRR0107	Yes	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	05/22/80-04/27/81	0	4	
MNRR0001	No	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/07/76-08/30/79	2	372	
MNRR0002	No	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/18/79-10/22/81	2	293	
MNRR0011	Yes	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/17/79-10/21/81	2	301	
MNRR0020	Yes	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/16/79-10/20/81	2	284	
MNRR0074	Yes	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	12/07/48-11/08/49	0	15	
MNRR0086	Yes	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	11/21/71-08/14/90	18	125	
MNRR0107	Yes	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	05/22/80-02/25/81	0	3	
MNRR0001	No	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/07/76-08/30/79	2	372	
MNRR0002	No	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/18/79-10/22/81	2	293	
MNRR0011	Yes	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/17/79-10/21/81	2	299	
MNRR0020	Yes	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/16/79-10/20/81	2	280	
MNRR0074	Yes	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	12/07/48-11/08/49	0	15	
MNRR0086	Yes	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	11/21/71-08/14/90	18	125	
MNRR0107	Yes	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	05/22/80-02/25/81	0	3	
MNRR0001	No	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	10/07/76-08/30/79	2	313	
MNRR0002	No	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	10/18/79-10/22/81	2	237	
MNRR0011	Yes	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	10/17/79-10/21/81	2	242	
MNRR0020	Yes	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	10/16/79-10/20/81	2	209	
MNRR0074	Yes	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	12/20/48-11/08/49	0	9	
MNRR0086	Yes	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	11/21/71-08/14/90	18	122	
MNRR0107	Yes	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	05/22/80-01/26/81	0	2	
MNRR0001	No	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	10/07/76-08/30/79	2	15	
MNRR0002	No	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	04/24/80-10/22/81	1	14	
MNRR0011	Yes	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	04/23/80-10/21/81	1	42	
MNRR0020	Yes	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	04/22/80-10/20/81	1	29	
MNRR0086	Yes	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	05/12/72-11/28/84	12	77	
MNRR0011	Yes	70347	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM	06/10/81-06/10/81	0	1	
MNRR0020	Yes	70347	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM	06/09/81-06/09/81	0	1	
MNRR0086	Yes	70347	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM	03/23/76-03/15/77	0	2	
MNRR0012	No	70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	03/26/74-01/28/86	11	48	
MNRR0038	No	70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	09/23/75-09/20/77	1	25	
MNRR0046	No	70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	11/21/78-07/28/79	0	4	
MNRR0090	No	70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	12/19/78-06/19/79	0	2	
MNRR0105	Yes	70505	PHOSPHATE,TOTAL,COLORIMETRIC METHOD (MG/L AS P)	09/22/75-03/18/81	5	45	
MNRR0012	No	70506	PHOSPHATE,TOT SOL COLORIMETRIC METH (MG/L AS P)	09/28/82-01/25/83	0	5	
MNRR0105	Yes	70506	PHOSPHATE,TOT SOL COLORIMETRIC METH (MG/L AS P)	11/16/81-11/16/81	0	1	
MNRR0012	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/26/74-09/24/86	12	44	
MNRR0025	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/10/83-10/02/97	14	86	
MNRR0033	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/18/89-10/30/89	0	3	
MNRR0038	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	09/23/75-09/20/77	1	24	
MNRR0040	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/07/70-10/02/97	27	130	S
MNRR0042	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/18/82-10/02/97	14	78	
MNRR0046	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/21/78-07/28/79	0	4	
MNRR0048	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/23/80-10/02/97	17	104	
MNRR0055	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/28/82-10/10/96	14	71	
MNRR0072	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/25/80-04/29/80	0	2	
MNRR0082	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/06/70-11/15/71	1	17	
MNRR0086	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/22/81-11/04/92	11	8	
MNRR0090	No	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/19/78-06/19/79	0	2	
MNRR0103	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/22/70-08/26/97	27	72	S
MNRR0105	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	09/22/75-03/18/81	5	44	
MNRR0107	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/22/80-08/24/81	1	8	
MNRR0109	Yes	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/23/80-08/26/97	17	94	
MNRR0109	Yes	70509	PHOSPHORUS,SOLUBLE,BOT. DEPOS.(MG/KG-P DRY WT)	09/15/77-09/15/77	0	1	
MNRR0109	Yes	70511	PHOSPHORUS,ORTHO,IN BOTTOM DEPOS.(MG/KG-P DRY WT)	09/15/77-09/15/77	0	1	
MNRR0086	Yes	70950	BIOMASS-CHLOROPHYLL RATIO, PERIPHYTON (UNITS)	10/20/76-10/07/80	3	9	
MNRR0086	Yes	70955	CHLOROPHYLL-A,PERIDHYTON UG/L,CHROMO-SPECTRO	10/20/76-10/20/76	0	1	
MNRR0086	Yes	70956	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-SPECTRO	10/20/76-10/20/76	0	1	
MNRR0086	Yes	70957	CHLOROPHYLL-A,PERIPHYTON UG/L,CHROMO-FLUORO	07/26/77-10/07/80	3	12	
MNRR0086	Yes	70958	CHLOROPHYLL-B,PERIPHYTON UG/L,CHROMO-FLUORO	07/26/77-10/07/80	3	12	
MNRR0029	Yes	71000	COUNT LEVEL OF MOST ABNDNT ALGAE1ST DOMINANT /ML	10/03/66-06/05/67	0	4	
MNRR0048	No	71000	COUNT LEVEL OF MOST ABNDNT ALGAE1ST DOMINANT /ML	10/08/80-10/08/80	0	1	
MNRR0109	Yes	71000	COUNT LEVEL OF MOST ABNDNT ALGAE1ST DOMINANT /ML	01/27/77-10/08/80	3	24	
MNRR0048	No	71001	COUNT LEVEL OF MOST ABNDNT ALGAE2ND DOMINANT /ML	10/08/80-10/08/80	0	1	
MNRR0109	Yes	71001	COUNT LEVEL OF MOST ABNDNT ALGAE2ND DOMINANT /ML	01/27/77-10/08/80	3	20	
MNRR0048	No	71002	COUNT LEVEL OF MOST ABNDNT ALGAE3RD DOMINANT /ML	10/08/80-10/08/80	0	1	
MNRR0109	Yes	71002	COUNT LEVEL OF MOST ABNDNT ALGAE3RD DOMINANT /ML	01/27/77-10/08/80	3	14	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0048	No	71003	COUNT LEVEL OF MOST ABNDNT ALGAE4TH DOMINANT /ML	10/08/80-10/08/80	0	1	
MNRR0109	Yes	71003	COUNT LEVEL OF MOST ABNDNT ALGAE4TH DOMINANT /ML	07/01/77-10/08/80	3	10	
MNRR0048	No	71004	COUNT LEVEL OF MOST ABNDNT ALGAE5TH DOMINANT /ML	10/08/80-10/08/80	0	1	
MNRR0109	Yes	71004	COUNT LEVEL OF MOST ABNDNT ALGAE5TH DOMINANT /ML	05/18/78-09/14/78	0	5	
MNRR0109	Yes	71005	COUNT LEVEL OF MOST ABNDNT ALGAE6TH DOMINANT /ML	05/18/78-09/14/78	0	5	
MNRR0109	Yes	71006	COUNT LEVEL OF MOST ABNDNT ALGAE7TH DOMINANT /ML	07/06/78-09/14/78	0	4	
MNRR0109	Yes	71007	COUNT LEVEL OF MOST ABNDNT ALGAE8TH DOMINANT /ML	07/06/78-09/14/78	0	3	
MNRR0109	Yes	71008	COUNT LEVEL OF MOST ABNDNT ALGAE9TH DOMINANT /ML	07/06/78-09/14/78	0	2	
MNRR0109	Yes	71009	COUNT LEVEL OF MOST ABNDNT ALGAE10TH DOMINANT /ML	07/06/78-09/14/78	0	2	
MNRR0029	Yes	71010	GENUS OF MOST ABUNDANT ALGAE 1ST DOMINANT /ML	10/03/66-06/05/67	0	4	
MNRR0048	No	71010	GENUS OF MOST ABUNDANT ALGAE 1ST DOMINANT /ML	10/08/80-10/08/80	0	1	
MNRR0109	Yes	71010	GENUS OF MOST ABUNDANT ALGAE 1ST DOMINANT /ML	01/27/77-10/08/80	3	24	
MNRR0048	No	71011	GENUS OF MOST ABUNDANT ALGAE 2ND DOMINANT /ML	10/08/80-10/08/80	0	1	
MNRR0109	Yes	71011	GENUS OF MOST ABUNDANT ALGAE 2ND DOMINANT /ML	01/27/77-10/08/80	3	20	
MNRR0048	No	71012	GENUS OF MOST ABUNDANT ALGAE 3RD DOMINANT /ML	10/08/80-10/08/80	0	1	
MNRR0109	Yes	71012	GENUS OF MOST ABUNDANT ALGAE 3RD DOMINANT /ML	01/27/77-10/08/80	3	14	
MNRR0048	No	71013	GENUS OF MOST ABUNDANT ALGAE 4TH DOMINANT /ML	10/08/80-10/08/80	0	1	
MNRR0109	Yes	71013	GENUS OF MOST ABUNDANT ALGAE 4TH DOMINANT /ML	07/01/77-08/29/79	2	9	
MNRR0048	No	71014	GENUS OF MOST ABUNDANT ALGAE 5TH DOMINANT /ML	10/08/80-10/08/80	0	1	
MNRR0109	Yes	71014	GENUS OF MOST ABUNDANT ALGAE 5TH DOMINANT /ML	05/18/78-09/14/78	0	5	
MNRR0109	Yes	71015	GENUS OF MOST ABUNDANT ALGAE 6TH DOMINANT /ML	05/18/78-09/14/78	0	5	
MNRR0109	Yes	71016	GENUS OF MOST ABUNDANT ALGAE 7TH DOMINANT /ML	07/06/78-09/14/78	0	4	
MNRR0109	Yes	71017	GENUS OF MOST ABUNDANT ALGAE 8TH DOMINANT /ML	07/06/78-09/14/78	0	3	
MNRR0109	Yes	71018	GENUS OF MOST ABUNDANT ALGAE 9TH DOMINANT /ML	07/06/78-09/14/78	0	2	
MNRR0109	Yes	71019	GENUS OF MOST ABUNDANT ALGAE 10TH DOMINANT /ML	07/06/78-09/14/78	0	2	
MNRR0040	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	02/09/76-02/09/76	0	1	
MNRR0048	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/12/76-09/20/76	0	4	
MNRR0080	No	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/09/79-06/24/80	1	14	
MNRR0082	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	02/10/76-02/10/76	0	1	
MNRR0086	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/10/79-01/06/81	1	18	
MNRR0103	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	02/10/76-02/10/76	0	1	
MNRR0107	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/19/79-12/15/80	1	13	
MNRR0109	Yes	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/13/76-09/21/76	0	4	
MNRR0026	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	04/30/71-10/27/72	1	14	
MNRR0086	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	03/23/76-02/12/86	9	29	
MNRR0107	Yes	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/24/79-11/20/85	6	24	
MNRR0026	Yes	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/01/56-06/06/59	2	32	
MNRR0026	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/30/69-01/15/74	4	34	
MNRR0078	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	01/15/69-01/15/69	0	1	
MNRR0080	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/29/70-04/29/71	0	2	
MNRR0096	No	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/29/70-10/29/70	0	1	
MNRR0099	Yes	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/12/69-09/12/69	0	1	
MNRR0026	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	07/30/69-01/15/74	4	32	
MNRR0086	Yes	71856	NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)	09/20/77-09/20/77	0	1	
MNRR0078	No	71885	IRON (UG/L AS FE)	01/15/69-01/15/69	0	1	
MNRR0099	Yes	71885	IRON (UG/L AS FE)	09/12/69-09/12/69	0	1	
MNRR0080	No	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/09/79-06/24/80	1	14	
MNRR0086	Yes	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/10/79-02/12/86	6	55	
MNRR0107	Yes	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	04/19/79-11/20/85	6	33	
MNRR0026	Yes	71887	NITROGEN, TOTAL, AS NO3 - MG/L	02/22/73-01/15/74	0	8	
MNRR0080	No	71887	NITROGEN, TOTAL, AS NO3 - MG/L	07/16/75-06/24/80	4	49	
MNRR0086	Yes	71887	NITROGEN, TOTAL, AS NO3 - MG/L	10/04/73-03/22/83	9	76	
MNRR0107	Yes	71887	NITROGEN, TOTAL, AS NO3 - MG/L	10/07/74-05/20/81	6	46	
MNRR0033	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/18/89-02/20/90	0	4	
MNRR0080	No	71890	MERCURY, DISSOLVED (UG/L AS HG)	11/19/75-05/13/80	4	10	
MNRR0086	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/04/73-08/19/91	17	52	
MNRR0107	Yes	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/07/74-05/06/86	11	36	
MNRR0080	No	71895	MERCURY, SUSPENDED (UG/L AS HG)	11/19/75-05/13/80	4	9	
MNRR0086	Yes	71895	MERCURY, SUSPENDED (UG/L AS HG)	03/20/74-02/24/81	6	16	
MNRR0107	Yes	71895	MERCURY, SUSPENDED (UG/L AS HG)	10/07/74-07/13/82	7	19	
MNRR0025	No	71900	MERCURY, TOTAL (UG/L AS HG)	07/12/83-10/02/97	14	21	
MNRR0032	No	71900	MERCURY, TOTAL (UG/L AS HG)	04/17/79-04/17/79	0	1	
MNRR0040	No	71900	MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	23	101	
MNRR0042	No	71900	MERCURY, TOTAL (UG/L AS HG)	10/18/82-10/02/97	14	22	
MNRR0048	No	71900	MERCURY, TOTAL (UG/L AS HG)	04/12/76-10/02/97	21	54	
MNRR0051	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/13/95-01/08/97	1	2	
MNRR0055	No	71900	MERCURY, TOTAL (UG/L AS HG)	06/28/82-10/10/96	14	21	
MNRR0056	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/11/92-03/11/92	0	1	
MNRR0063	No	71900	MERCURY, TOTAL (UG/L AS HG)	04/02/85-04/02/85	0	1	
MNRR0068	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	07/08/94-07/08/94	0	1	
MNRR0080	No	71900	MERCURY, TOTAL (UG/L AS HG)	11/19/75-05/13/80	4	10	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0082	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	02/05/74-10/11/79	5	37	
MNRR0085	No	71900	MERCURY, TOTAL (UG/L AS HG)	03/20/90-02/16/93	2	13	
MNRR0086	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	03/20/74-08/22/89	15	41	
MNRR0103	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	01/07/74-10/11/95	21	48	
MNRR0107	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	10/07/74-08/17/82	7	21	
MNRR0109	Yes	71900	MERCURY, TOTAL (UG/L AS HG)	04/13/76-10/11/95	19	56	
MNRR0056	No	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0068	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	03/11/92-03/11/92	0	1	
MNRR0073	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/08/94-07/08/94	0	1	
MNRR0109	Yes	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	09/15/77-09/15/77	0	1	
MNRR0006	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/18/96-09/18/96	0	3	
MNRR0018	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/18/96-09/18/96	0	6	
MNRR0043	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/06/88-09/09/96	7	4	
MNRR0061	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/18/96-09/18/96	0	3	
MNRR0067	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/21/80-08/21/80	0	1	
MNRR0073	Yes	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/08/94-07/08/94	0	1	
MNRR0083	Yes	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/22/81-08/20/92	10	4	
MNRR0095	No	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/10/91-09/10/91	0	1	
MNRR0043	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/06/88-10/06/88	0	1	
MNRR0067	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/21/80-08/21/80	0	1	
MNRR0073	Yes	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	07/08/94-07/08/94	0	1	
MNRR0083	Yes	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/22/81-08/20/92	10	4	
MNRR0095	No	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/10/91-09/10/91	0	1	
MNRR0067	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/21/80-08/21/80	0	1	
MNRR0083	Yes	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/22/81-08/21/83	1	3	
MNRR0095	No	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/10/91-09/10/91	0	1	
MNRR0067	No	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	08/21/80-08/21/80	0	1	
MNRR0073	Yes	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	07/08/94-07/08/94	0	1	
MNRR0083	Yes	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/22/81-08/21/83	1	3	
MNRR0095	No	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/10/91-09/10/91	0	1	
MNRR0067	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	08/21/80-08/21/80	0	1	
MNRR0083	Yes	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	09/22/81-08/20/92	10	4	
MNRR0095	No	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	09/10/91-09/10/91	0	1	
MNRR0043	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/06/88-10/06/88	0	1	
MNRR0067	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	08/21/80-08/21/80	0	1	
MNRR0073	Yes	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	07/08/94-07/08/94	0	1	
MNRR0083	Yes	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/22/81-08/20/92	10	4	
MNRR0095	No	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/10/91-09/10/91	0	1	
MNRR0026	Yes	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	10/01/56-09/23/59	2	48	
MNRR0086	Yes	72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	07/08/75-08/01/75	0	2	
MNRR0040	No	72003	DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT)	02/09/76-05/20/77	1	2	
MNRR0048	No	72003	DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT)	04/12/76-08/19/77	1	12	
MNRR0082	Yes	72003	DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT)	05/26/76-07/26/77	1	3	
MNRR0109	Yes	72003	DEPTH TO BOTTOM OF WATER-BEARING ZONE SAMPLED (FT)	04/13/66-07/01/77	11	12	
MNRR0040	No	72030	ELEVATION OF RESERVOIR POOL (FT ABOVE MSL)	02/09/76-10/24/78	2	18	
MNRR0048	No	72030	ELEVATION OF RESERVOIR POOL (FT ABOVE MSL)	04/12/76-11/29/78	2	26	
MNRR0103	Yes	72030	ELEVATION OF RESERVOIR POOL (FT ABOVE MSL)	02/10/76-10/23/78	2	14	
MNRR0109	Yes	72030	ELEVATION OF RESERVOIR POOL (FT ABOVE MSL)	04/13/66-10/10/78	12	24	
MNRR0008	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	06/06/90-06/06/90	0	1	
MNRR0016	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	09/18/85-09/07/95	9	3	
MNRR0021	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	09/19/85-09/19/85	0	1	
MNRR0031	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	09/08/95-07/16/96	0	2	
MNRR0049	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	09/07/95-09/07/95	0	1	
MNRR0050	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	09/20/85-07/25/90	4	2	
MNRR0057	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	09/19/85-09/19/85	0	1	
MNRR0059	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	07/25/90-07/25/90	0	1	
MNRR0064	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	09/19/85-09/07/95	9	3	
MNRR0076	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	06/09/87-06/09/87	0	1	
MNRR0087	No	72105	SAMPLE LOCATION, DISTANCE UPSTREAM (FEET)	06/09/87-10/11/95	8	3	
MNRR0073	Yes	73151	DIAZINON, DRY WEIGHT, SEDIMENT UG/KG	07/08/94-07/08/94	0	1	
MNRR0056	No	73365	BETA-BHC, DRY WEIGHT, REGOLITH UG/KG	03/11/92-03/11/92	0	1	
MNRR0068	Yes	73365	BETA-BHC, DRY WEIGHT, REGOLITH UG/KG	03/11/92-03/11/92	0	1	
MNRR0012	No	74010	IRON, TOTAL (MG/L AS FE)	12/11/68-06/23/75	6	18	
MNRR0038	No	74010	IRON, TOTAL (MG/L AS FE)	09/23/75-09/20/77	1	24	
MNRR0051	No	74010	IRON, TOTAL (MG/L AS FE)	08/23/90-03/26/97	6	6	
MNRR0105	Yes	74010	IRON, TOTAL (MG/L AS FE)	09/22/75-08/18/77	1	24	
MNRR0084	Yes	74069	FLOW, ESTIMATED STREAM CFS	05/13/81-05/13/81	0	1	
MNRR0025	No	77729	RAMROD WHOLE WATER,UG/L	08/03/87-08/06/97	10	20	
MNRR0040	No	77729	RAMROD WHOLE WATER,UG/L	06/08/87-08/06/97	10	23	
MNRR0042	No	77729	RAMROD WHOLE WATER,UG/L	06/08/87-08/06/97	10	20	
MNRR0048	No	77729	RAMROD WHOLE WATER,UG/L	06/08/87-08/06/97	10	21	
MNRR0055	No	77729	RAMROD WHOLE WATER,UG/L	06/08/87-08/05/96	9	18	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0103	Yes	77729	RAMROD	WHOLE WATER,UG/L	06/25/87-08/26/97	10	18	
MNRR0109	Yes	77729	RAMROD	WHOLE WATER,UG/L	06/24/87-08/26/97	10	20	
MNRR0025	No	77825	ALACHLOR	WHOLE WATER,UG/L	08/03/87-08/06/97	10	21	
MNRR0033	No	77825	ALACHLOR	WHOLE WATER,UG/L	04/18/89-02/20/90	0	4	
MNRR0040	No	77825	ALACHLOR	WHOLE WATER,UG/L	06/08/87-08/06/97	10	24	
MNRR0042	No	77825	ALACHLOR	WHOLE WATER,UG/L	06/08/87-08/06/97	10	21	
MNRR0048	No	77825	ALACHLOR	WHOLE WATER,UG/L	06/08/87-08/06/97	10	22	
MNRR0051	No	77825	ALACHLOR	WHOLE WATER,UG/L	06/16/92-12/13/94	2	2	
MNRR0055	No	77825	ALACHLOR	WHOLE WATER,UG/L	06/08/87-08/05/96	9	19	
MNRR0058	No	77825	ALACHLOR	WHOLE WATER,UG/L	04/23/90-04/23/90	0	1	
MNRR0063	No	77825	ALACHLOR	WHOLE WATER,UG/L	04/23/90-04/23/90	0	1	
MNRR0073	Yes	77825	ALACHLOR	WHOLE WATER,UG/L	07/08/94-07/08/94	0	1	
MNRR0103	Yes	77825	ALACHLOR	WHOLE WATER,UG/L	06/25/87-08/26/97	10	18	
MNRR0109	Yes	77825	ALACHLOR	WHOLE WATER,UG/L	06/24/87-08/26/97	10	21	
MNRR0103	Yes	77900	1ALPHA-(METHOXYMETHYL)-7ALPHA,8AL*	WHOLE WATER,UG/L	08/29/78-08/29/78	0	1	
MNRR0043	No	78211	ENDRIN KETONE IN FISH TISSUE	WETWTMG/KG	10/06/88-10/06/88	0	1	
MNRR0095	No	78211	ENDRIN KETONE IN FISH TISSUE	WETWTMG/KG	07/26/88-07/26/88	0	3	
MNRR0033	No	78410	ARSENIC	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78410	ARSENIC	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78412	CADMIUM	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78412	CADMIUM	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78414	COPPER	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78414	COPPER	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78415	LEAD	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78415	LEAD	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78416	MERCURY	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78416	MERCURY	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78417	NICKEL	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78417	NICKEL	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78418	SELENIUM	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78418	SELENIUM	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78421	ZINC	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78421	ZINC	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78422	ALDRIN	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78422	ALDRIN	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78423	DIELDRIN	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78423	DIELDRIN	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78424	CHLORDANE	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78424	CHLORDANE	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78426	4,4'-DDE	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78426	4,4'-DDE	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78427	4,4'-DDD	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78427	4,4'-DDD	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78431	ENDRIN	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78431	ENDRIN	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78433	HEPTACHLOR	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78433	HEPTACHLOR	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78434	HEPTACHLOR EPOXIDE	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78434	HEPTACHLOR EPOXIDE	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78438	GAMMA-BHC(LINDANE)	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78438	GAMMA-BHC(LINDANE)	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78439	PCB-1242	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78439	PCB-1242	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78440	PCB-1254	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78440	PCB-1254	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78441	PCB-1221	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78441	PCB-1221	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78442	PCB-1232	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78442	PCB-1232	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78443	PCB-1248	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78443	PCB-1248	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78444	PCB-1260	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78444	PCB-1260	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78446	PCB-1016	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78446	PCB-1016	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0033	No	78447	TOXAPHENE	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	78447	TOXAPHENE	SEDWETWTMG/KG	07/10/89-07/10/89	0	1	
MNRR0073	Yes	78450	DISULFOTON	SEDWETWTMG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT,	MG/KG	08/20/92-08/20/92	0	1	
MNRR0095	No	78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT,	MG/KG	09/10/91-09/10/91	0	1	
MNRR0083	Yes	78458	CHLORDENE, BETA-, FISH TISSUE, WET WEIGHT,	MG/KG	08/20/92-08/20/92	0	1	
MNRR0095	No	78458	CHLORDENE, BETA-, FISH TISSUE, WET WEIGHT,	MG/KG	09/10/91-09/10/91	0	1	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0083	Yes	78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	08/20/92-08/20/92	0	1	
MNRR0095	No	78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	09/10/91-09/10/91	0	1	
MNRR0073	Yes	78871	OXYCHLORDANE IN SEDIMENT DRY WEIGHT UG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	79006	CHLORDENE IN FISH UG/KG	08/20/92-08/20/92	0	1	
MNRR0095	No	79006	CHLORDENE IN FISH UG/KG	09/10/91-09/10/91	0	1	
MNRR0073	Yes	79792	CHLORPYRIFOS SEDIMENT,DRY,WT,UG/KG	07/08/94-07/08/94	0	1	
MNRR0029	Yes	80114	COLOR, CONCENTRATION AT WAVE LENGTH IN MG/L	03/02/72-03/30/72	0	5	
MNRR0001	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/76-08/30/79	2	387	
MNRR0002	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/18/79-10/22/81	2	300	
MNRR0011	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/17/79-10/21/81	2	311	
MNRR0013	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/20/66-03/27/67	0	3	
MNRR0020	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/16/79-10/20/81	2	301	
MNRR0039	No	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	11/27/84-11/29/84	0	2	
MNRR0074	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	12/07/48-11/08/49	0	15	
MNRR0086	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	11/21/71-08/24/94	22	163	T
MNRR0107	Yes	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/74-09/10/86	11	67	
MNRR0002	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/24/80-04/24/80	0	1	
MNRR0013	No	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/20/66-03/27/67	0	3	
MNRR0020	Yes	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/22/80-10/20/81	1	4	
MNRR0074	Yes	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	12/07/48-11/08/49	0	15	
MNRR0086	Yes	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	11/21/71-07/21/82	10	118	
MNRR0107	Yes	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	10/07/74-08/24/81	6	46	
MNRR0002	No	80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	04/24/80-04/23/81	0	16	
MNRR0011	Yes	80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	10/17/79-09/02/81	1	19	
MNRR0020	Yes	80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	04/22/80-07/21/81	1	9	
MNRR0063	No	80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	05/11/77-05/11/77	0	1	
MNRR0080	No	80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	05/11/77-05/11/77	0	1	
MNRR0086	Yes	80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	07/19/72-04/27/82	9	78	
MNRR0002	No	80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	10/18/79-09/03/81	1	56	
MNRR0011	Yes	80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	10/17/79-10/21/81	2	39	
MNRR0020	Yes	80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	10/16/79-10/20/81	2	47	
MNRR0063	No	80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	05/11/77-05/11/77	0	1	
MNRR0080	No	80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	05/11/77-05/11/77	0	1	
MNRR0086	Yes	80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	07/19/72-04/27/82	9	117	
MNRR0002	No	80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	10/18/79-10/22/81	2	60	
MNRR0011	Yes	80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	10/17/79-10/21/81	2	47	
MNRR0020	Yes	80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	10/16/79-10/20/81	2	53	
MNRR0063	No	80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	05/11/77-05/11/77	0	1	
MNRR0080	No	80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	05/11/77-05/11/77	0	1	
MNRR0086	Yes	80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	07/19/72-04/27/82	9	117	
MNRR0002	No	80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	10/18/79-10/22/81	2	61	
MNRR0011	Yes	80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	10/17/79-10/21/81	2	47	
MNRR0020	Yes	80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	10/16/79-10/20/81	2	53	
MNRR0063	No	80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	05/11/77-05/11/77	0	1	
MNRR0080	No	80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	05/11/77-05/11/77	0	1	
MNRR0086	Yes	80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	07/19/72-04/27/82	9	117	
MNRR0002	No	80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	10/18/79-10/22/81	2	47	
MNRR0011	Yes	80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	10/17/79-10/21/81	2	42	
MNRR0020	Yes	80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	10/16/79-10/20/81	2	53	
MNRR0063	No	80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	05/11/77-05/11/77	0	1	
MNRR0080	No	80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	05/11/77-05/11/77	0	1	
MNRR0086	Yes	80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	07/19/72-04/27/82	9	117	
MNRR0002	No	80163	BED MATERIAL FALL DIAMETER, % FINER THAN 2.00MM	10/22/81-10/22/81	0	3	
MNRR0011	Yes	80163	BED MATERIAL FALL DIAMETER, % FINER THAN 2.00MM	06/10/81-10/21/81	0	2	
MNRR0020	Yes	80163	BED MATERIAL FALL DIAMETER, % FINER THAN 2.00MM	10/20/81-10/20/81	0	4	
MNRR0001	No	80164	BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	10/07/76-07/19/79	2	9	
MNRR0001	No	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	10/07/76-08/30/79	2	15	
MNRR0011	Yes	80165	BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	10/17/79-10/17/79	0	1	
MNRR0001	No	80166	BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	10/07/76-08/30/79	2	15	
MNRR0001	No	80167	BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	10/07/76-08/30/79	2	15	
MNRR0001	No	80168	BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	10/07/76-08/30/79	2	15	
MNRR0001	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/07/76-08/30/79	2	15	
MNRR0002	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/18/79-10/22/81	2	56	
MNRR0011	Yes	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/17/79-10/21/81	2	33	
MNRR0020	Yes	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/16/79-10/20/81	2	53	
MNRR0063	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	05/11/77-05/11/77	0	1	
MNRR0080	No	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	05/11/77-05/11/77	0	1	
MNRR0086	Yes	80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	07/19/72-04/27/82	9	98	
MNRR0001	No	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	10/07/76-08/30/79	2	13	
MNRR0002	No	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	04/24/80-10/22/81	1	46	
MNRR0011	Yes	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	10/17/79-10/21/81	2	23	
MNRR0020	Yes	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	10/16/79-10/20/81	2	48	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0063	No	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	05/11/77-05/11/77	0	1	
MNRR0080	No	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	05/11/77-05/11/77	0	1	
MNRR0086	Yes	80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	07/19/72-08/07/84	12	84	
MNRR0001	No	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	10/07/76-08/30/79	2	12	
MNRR0002	No	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	10/18/79-10/22/81	2	39	
MNRR0011	Yes	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	10/17/79-10/21/81	2	19	
MNRR0020	Yes	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	10/16/79-10/20/81	2	45	
MNRR0080	No	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	05/11/77-05/11/77	0	1	
MNRR0086	Yes	80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	08/30/72-06/24/81	8	40	
MNRR0001	No	80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	10/07/76-06/07/79	2	7	
MNRR0002	No	80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	10/18/79-10/22/81	2	37	
MNRR0011	Yes	80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	10/17/79-10/21/81	2	17	
MNRR0020	Yes	80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	10/16/79-10/20/81	2	43	
MNRR0086	Yes	80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	09/21/72-02/20/80	7	12	
MNRR0001	No	80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	10/07/76-10/26/78	2	4	
MNRR0002	No	80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	10/18/79-09/03/81	1	14	
MNRR0011	Yes	80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	10/17/79-04/22/81	1	8	
MNRR0020	Yes	80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	10/16/79-10/20/81	2	24	
MNRR0043	No	80886	CYANAZINE (BLADEX), TISSUE, WET WEIGHT MG/KG	10/06/88-10/06/88	0	1	
MNRR0095	No	80886	CYANAZINE (BLADEX), TISSUE, WET WEIGHT MG/KG	07/26/88-07/26/88	0	3	
MNRR0025	No	81283	BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	10/18/82-08/06/97	14	29	
MNRR0040	No	81283	BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	07/28/81-08/06/97	16	36	
MNRR0042	No	81283	BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	10/18/82-08/06/97	14	29	
MNRR0048	No	81283	BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	07/15/81-08/06/97	16	32	
MNRR0055	No	81283	BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	06/28/82-08/05/96	14	28	
MNRR0103	Yes	81283	BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	07/27/81-08/26/97	16	18	
MNRR0109	Yes	81283	BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	06/08/82-08/26/97	15	29	
MNRR0025	No	81284	TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	06/06/94-08/06/97	3	8	
MNRR0040	No	81284	TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	06/06/94-08/06/97	3	10	
MNRR0042	No	81284	TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	06/06/94-08/06/97	3	8	
MNRR0048	No	81284	TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	06/06/94-08/06/97	3	8	
MNRR0051	No	81284	TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	06/16/92-12/13/94	2	2	
MNRR0055	No	81284	TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	06/06/94-08/05/96	2	6	
MNRR0073	Yes	81284	TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	07/08/94-07/08/94	0	1	
MNRR0103	Yes	81284	TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	08/15/94-08/26/97	3	7	
MNRR0109	Yes	81284	TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	08/15/94-08/26/97	3	7	
MNRR0051	No	81294	DYFONATE(CU/H15OPS2) WHOLE WATER SAMPLE UG/L	06/16/92-12/13/94	2	2	
MNRR0051	No	81403	DURSBAN(CHLOROPYRIFOS)WHOLE WATER SAMPLE (UG/L)	06/16/92-12/13/94	2	2	
MNRR0051	No	81405	CARBOFURAN (EURADAN) WHOLE WATER SAMPLE UG/L	06/06/95-06/06/95	0	1	
MNRR0025	No	81408	METRIBUZIN (SENCOR), WATER, WHOLE UG/L	08/03/87-08/06/97	10	20	
MNRR0040	No	81408	METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/08/87-08/06/97	10	23	
MNRR0042	No	81408	METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/08/87-08/06/97	10	20	
MNRR0048	No	81408	METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/08/87-08/06/97	10	21	
MNRR0051	No	81408	METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/16/92-12/13/94	2	2	
MNRR0055	No	81408	METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/08/87-08/05/96	9	18	
MNRR0103	Yes	81408	METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/25/87-08/26/97	10	18	
MNRR0109	Yes	81408	METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/24/87-08/26/97	10	20	
MNRR0051	No	81410	BUTYLATE (SUTAN),WHOLE WATER SAMPLE,UG/L	06/16/92-12/13/94	2	2	
MNRR0051	No	81522	DIBROMOETHANE WHL WATER SMPL UG/L	03/25/97-03/25/97	0	1	
MNRR0006	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	09/18/96-09/18/96	0	3	
MNRR0018	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	09/18/96-09/18/96	0	6	
MNRR0043	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	10/06/88-09/09/96	7	4	
MNRR0061	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	09/18/96-09/18/96	0	3	
MNRR0067	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	08/21/80-08/21/80	0	1	
MNRR0073	Yes	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/08/94-07/08/94	0	1	
MNRR0083	Yes	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	09/22/81-08/20/92	10	4	
MNRR0095	No	81614	NUMBER OF INDIVIDUALS IN THE SAMPLE	07/26/88-09/10/91	3	4	
MNRR0043	No	81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	10/06/88-10/06/88	0	1	
MNRR0067	No	81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	08/21/80-08/21/80	0	1	
MNRR0073	Yes	81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	07/08/94-07/08/94	0	1	
MNRR0083	Yes	81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	09/22/81-08/20/92	10	4	
MNRR0095	No	81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE	07/26/88-09/10/91	3	4	
MNRR0043	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/06/88-10/06/88	0	1	
MNRR0083	Yes	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	08/21/83-08/21/83	0	1	
MNRR0095	No	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	07/26/88-07/26/88	0	3	
MNRR0083	Yes	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	09/22/81-08/21/83	1	3	
MNRR0043	No	81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG	10/06/88-10/06/88	0	1	
MNRR0083	Yes	81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG	08/20/92-08/20/92	0	1	
MNRR0095	No	81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG	07/26/88-09/10/91	3	4	
MNRR0067	No	81655	CALCIUM IN FISH TISSUE WET WEIGHT MG/KG	08/21/80-08/21/80	0	1	
MNRR0067	No	81656	MAGNESIUM IN FISH TISSUE WET WEIGHT MG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	81656	MAGNESIUM IN FISH TISSUE WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name	Start - End	Years	Obs	Plots
MNRR0067	No	81658	BARIUM IN FISH TISSUE WET WEIGHT MG/KG	08/21/80-08/21/80	0	1	
MNRR0073	Yes	81658	BARIUM IN FISH TISSUE WET WEIGHT MG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	81658	BARIUM IN FISH TISSUE WET WEIGHT MG/KG	09/22/81-08/20/92	10	4	
MNRR0095	No	81658	BARIUM IN FISH TISSUE WET WEIGHT MG/KG	09/10/91-09/10/91	0	1	
MNRR0083	Yes	81659	COBALT IN FISH TISSUE WET WEIGHT MG/KG	10/26/82-08/21/83	0	2	
MNRR0095	No	81659	COBALT IN FISH TISSUE WET WEIGHT MG/KG	09/10/91-09/10/91	0	1	
MNRR0067	No	81660	IRON IN FISH TISSUE WET WEIGHT MG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	81660	IRON IN FISH TISSUE WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	
MNRR0083	Yes	81662	MOLYBDENUM IN FISH TISSUE WET WEIGHT MG/KG	10/26/82-08/21/83	0	2	
MNRR0095	No	81662	MOLYBDENUM IN FISH TISSUE WET WEIGHT MG/KG	09/10/91-09/10/91	0	1	
MNRR0083	Yes	81664	TITANIUM IN FISH TISSUE WET WEIGHT MG/KG	10/26/82-10/26/82	0	1	
MNRR0083	Yes	81665	VANADIUM IN FISH TISSUE WET WEIGHT MG/KG	10/26/82-08/21/83	0	2	
MNRR0095	No	81665	VANADIUM IN FISH TISSUE WET WEIGHT MG/KG	09/10/91-09/10/91	0	1	
MNRR0067	No	81666	ALUMINUM IN FISH TISSUE WET WEIGHT MG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	81666	ALUMINUM IN FISH TISSUE WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	
MNRR0067	No	81741	MANGANESE IN FISH TISSUE WET WEIGHT MG/KG	08/21/80-08/21/80	0	1	
MNRR0083	Yes	81741	MANGANESE IN FISH TISSUE WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	
MNRR0083	Yes	81742	SILVER IN FISH TISSUE WET WEIGHT (MG/KG)PPM	08/21/83-08/21/83	0	1	
MNRR0051	No	81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	06/16/92-12/13/94	2	2	
MNRR0058	No	81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	04/23/90-04/23/90	0	1	
MNRR0063	No	81757	CYANAZINE IN THE WHOLE WATER SAMPLE UG/L	04/23/90-04/23/90	0	1	
MNRR0033	No	81801	DDT IN SEDIMENT,TOTAL WEIGHT,WET WEIGHT MG/KG	07/10/89-07/10/89	0	1	
MNRR0034	No	81801	DDT IN SEDIMENT,TOTAL WEIGHT,WET WEIGHT MG/KG	07/10/89-07/10/89	0	1	
MNRR0083	Yes	81802	GUTHION IN FISH TISSUE,WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	
MNRR0073	Yes	81806	DIAZINON IN FISH TISSUE WET WEIGHT, MG/KG	07/08/94-07/08/94	0	1	
MNRR0073	Yes	81807	DURSBAN IN FISH TISSUE WET WEIGHT MG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	81807	DURSBAN IN FISH TISSUE WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	
MNRR0083	Yes	81810	PARATHION IN FISH TISSUE WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	
MNRR0083	Yes	81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	08/20/92-08/20/92	0	1	
MNRR0095	No	81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	09/10/91-09/10/91	0	1	
MNRR0001	No	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	10/07/76-08/30/79	2	80	
MNRR0002	No	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	10/18/79-10/22/81	2	330	
MNRR0011	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	10/17/79-10/21/81	2	333	
MNRR0020	Yes	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	10/16/79-10/20/81	2	326	
MNRR0033	No	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	04/18/89-10/30/89	0	4	
MNRR0034	No	81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	04/18/89-10/30/89	0	2	
MNRR0001	No	81904	STREAM VELOCITY, POINT, IN FEET PER SECOND	10/07/76-08/30/79	2	377	
MNRR0002	No	81904	STREAM VELOCITY, POINT, IN FEET PER SECOND	10/18/79-10/22/81	2	300	
MNRR0011	Yes	81904	STREAM VELOCITY, POINT, IN FEET PER SECOND	10/17/79-10/21/81	2	310	
MNRR0020	Yes	81904	STREAM VELOCITY, POINT, IN FEET PER SECOND	10/16/79-10/20/81	2	302	
MNRR0043	No	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	10/06/88-10/06/88	0	1	
MNRR0073	Yes	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	07/08/94-07/08/94	0	1	
MNRR0083	Yes	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	08/20/92-08/20/92	0	1	
MNRR0095	No	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	07/26/88-09/10/91	3	4	
MNRR0025	No	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	06/06/94-08/06/97	3	8	
MNRR0040	No	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	06/06/94-08/06/97	3	10	
MNRR0042	No	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	06/06/94-08/06/97	3	8	
MNRR0048	No	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	06/06/94-08/06/97	3	8	
MNRR0055	No	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	06/06/94-08/05/96	2	6	
MNRR0103	Yes	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	08/15/94-08/26/97	3	7	
MNRR0109	Yes	82052	BANVEL (DICAMBA) WHOLE WATER,UG/L	08/15/94-08/26/97	3	7	
MNRR0086	Yes	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	02/24/81-07/22/81	0	5	
MNRR0107	Yes	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	01/26/81-05/20/81	0	4	
MNRR0027	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	01/01/88-09/30/97	9	3507	
MNRR0073	Yes	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/08/94-07/08/94	0	1	
MNRR0051	No	82088	TERBUFOS (COUNTER) TOTAL WHOLE WATER,UG/L	06/16/92-12/13/94	2	2	
MNRR0025	No	82131	ICE, THICKNESS IN METERS	02/17/88-02/06/96	7	9	
MNRR0042	No	82131	ICE, THICKNESS IN METERS	02/12/91-04/27/92	1	2	
MNRR0048	No	82131	ICE, THICKNESS IN METERS	02/17/88-02/06/96	7	8	
MNRR0058	No	82184	AMETRYNE (GESAPAX OR EVIK) TOTAL UG/L	04/23/90-04/23/90	0	1	
MNRR0063	No	82184	AMETRYNE (GESAPAX OR EVIK) TOTAL UG/L	04/23/90-04/23/90	0	1	
MNRR0086	Yes	82398	SAMPLING METHOD (CODES)	01/29/75-09/09/81	6	26	
MNRR0107	Yes	82398	SAMPLING METHOD (CODES)	12/10/74-09/30/81	6	34	
MNRR0083	Yes	82401	DEMETON IN FISH TISSUE (SYSTOX) WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	
MNRR0083	Yes	82403	PROMETON IN FISH TISSUE (PRAMITOL)WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	
MNRR0043	No	82404	ATRAZINE IN FISH TISSUE WET WEIGHT MG/KG	10/06/88-10/06/88	0	1	
MNRR0083	Yes	82404	ATRAZINE IN FISH TISSUE WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	
MNRR0095	No	82404	ATRAZINE IN FISH TISSUE WET WEIGHT MG/KG	07/26/88-07/26/88	0	3	
MNRR0083	Yes	82405	METRIBUZIN (SENCOR), TISSUE, WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	
MNRR0083	Yes	82406	SIMAZINE IN FISH TISSUE (PRINCEP)WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	
MNRR0083	Yes	82407	FONOFOS IN FISH TISSUE (DYFONATE) WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	
MNRR0083	Yes	82411	PENOXALIN IN FISH TISSUE (PROWL) WET WEIGHT MG/KG	09/22/81-08/21/83	1	3	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0083	Yes	82413	TRICHLORFON IN FISH TISSUE(DYLOX) WET WEIGHT	MG/KG	09/22/81-08/21/83	1	2	
MNRR0051	No	82416	PARAQUAT IN WHOLE WATER TOTAL	UG/L	06/06/95-06/06/95	0	1	
MNRR0083	Yes	82419	CIS-PERMETHRIN IN FISH TISSUE WET WEIGHT	MG/KG	09/22/81-08/21/83	1	3	
MNRR0083	Yes	82422	TRANS-PERMETHRIN IN FISH TISSUE WET WEIGHT	MG/KG	09/22/81-08/21/83	1	3	
MNRR0073	Yes	82488	LEAD,TOTAL RECOVERABLE FROM DRY DEPOSITION	(UG/KG)	07/08/94-07/08/94	0	1	
MNRR0083	Yes	82533	PROPAZINE IN FISH TISSUE WET WEIGHT MG/KG		09/22/81-08/21/83	1	3	
MNRR0043	No	82571	ALACHLOR(LASSO) IN TISSUE	MG/KG	10/06/88-10/06/88	0	1	
MNRR0083	Yes	82571	ALACHLOR(LASSO) IN TISSUE	MG/KG	08/20/92-08/20/92	0	1	
MNRR0095	No	82571	ALACHLOR(LASSO) IN TISSUE	MG/KG	07/26/88-09/10/91	3	4	
MNRR0025	No	82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	06/12/89-06/12/89	0	1	
MNRR0040	No	82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	06/12/89-06/12/89	0	1	
MNRR0042	No	82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	06/12/89-06/12/89	0	1	
MNRR0048	No	82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	06/13/89-06/13/89	0	1	
MNRR0055	No	82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	06/13/89-06/13/89	0	1	
MNRR0058	No	82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	04/23/90-04/23/90	0	1	
MNRR0063	No	82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	04/23/90-04/23/90	0	1	
MNRR0109	Yes	82611	METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE	UG/L	06/07/89-06/07/89	0	1	
MNRR0058	No	82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE	UG/L	04/23/90-04/23/90	0	1	
MNRR0063	No	82612	METOLACHLOR, WHOLE WATER, TOTAL RECOVERABLE	UG/L	04/23/90-04/23/90	0	1	
MNRR0006	No	82655	FISH LENGTH, TOTAL	CM	08/30/95-09/18/96	1	16	
MNRR0018	No	82655	FISH LENGTH, TOTAL	CM	09/19/95-09/18/96	0	27	
MNRR0043	No	82655	FISH LENGTH, TOTAL	CM	08/29/95-09/09/96	1	17	
MNRR0061	No	82655	FISH LENGTH, TOTAL	CM	09/19/95-09/18/96	0	12	
MNRR0083	Yes	82655	FISH LENGTH, TOTAL	CM	08/20/92-08/20/92	0	5	
MNRR0006	No	82656	FISH, WHOLE, WET WEIGHT	GRAM	08/30/95-09/18/96	1	16	
MNRR0018	No	82656	FISH, WHOLE, WET WEIGHT	GRAM	09/19/95-09/18/96	0	27	
MNRR0043	No	82656	FISH, WHOLE, WET WEIGHT	GRAM	08/29/95-09/09/96	1	17	
MNRR0061	No	82656	FISH, WHOLE, WET WEIGHT	GRAM	09/19/95-09/18/96	0	12	
MNRR0083	Yes	82656	FISH, WHOLE, WET WEIGHT	GRAM	08/20/92-08/20/92	0	5	
MNRR0008	No	83501	SAMPLE, DURATION	HOURS	06/06/90-08/30/95	5	3	
MNRR0010	No	83501	SAMPLE, DURATION	HOURS	09/28/94-09/28/94	0	2	
MNRR0016	No	83501	SAMPLE, DURATION	HOURS	09/10/85-09/19/95	10	6	
MNRR0021	No	83501	SAMPLE, DURATION	HOURS	09/10/85-09/29/94	9	4	
MNRR0031	No	83501	SAMPLE, DURATION	HOURS	09/08/95-07/16/96	0	2	
MNRR0044	No	83501	SAMPLE, DURATION	HOURS	10/06/88-10/06/88	0	1	
MNRR0049	No	83501	SAMPLE, DURATION	HOURS	09/29/94-09/07/95	0	3	
MNRR0050	No	83501	SAMPLE, DURATION	HOURS	09/11/85-07/25/90	4	4	
MNRR0052	No	83501	SAMPLE, DURATION	HOURS	09/29/94-09/29/94	0	2	
MNRR0057	No	83501	SAMPLE, DURATION	HOURS	09/11/85-09/29/94	9	4	
MNRR0059	No	83501	SAMPLE, DURATION	HOURS	07/25/90-09/19/95	5	3	
MNRR0064	No	83501	SAMPLE, DURATION	HOURS	09/11/85-09/07/95	9	4	
MNRR0069	Yes	83501	SAMPLE, DURATION	HOURS	07/12/89-07/12/89	0	2	
MNRR0070	Yes	83501	SAMPLE, DURATION	HOURS	07/12/89-07/12/89	0	2	
MNRR0076	No	83501	SAMPLE, DURATION	HOURS	06/09/87-06/17/87	0	2	
MNRR0084	Yes	83501	SAMPLE, DURATION	HOURS	05/13/81-08/20/92	11	8	
MNRR0087	No	83501	SAMPLE, DURATION	HOURS	06/09/87-10/11/95	8	4	
MNRR0021	No	83516	SUBSTRATE, BEDROCK, SOLID ROCK	%	09/19/85-09/19/85	0	1	
MNRR0031	No	83516	SUBSTRATE, BEDROCK, SOLID ROCK	%	09/08/95-07/16/96	0	2	
MNRR0049	No	83516	SUBSTRATE, BEDROCK, SOLID ROCK	%	09/07/95-09/07/95	0	1	
MNRR0057	No	83542	SUBSTRATE, COBBLE 256-64 MM	%	09/19/85-09/19/85	0	1	
MNRR0087	No	83542	SUBSTRATE, COBBLE 256-64 MM	%	10/11/95-10/11/95	0	2	
MNRR0010	No	83544	SUBSTRATE, GRAVEL 16-2 MM	%	09/28/94-09/28/94	0	2	
MNRR0016	No	83544	SUBSTRATE, GRAVEL 16-2 MM	%	07/24/90-07/24/90	0	2	
MNRR0050	No	83544	SUBSTRATE, GRAVEL 16-2 MM	%	09/11/85-07/25/90	4	4	
MNRR0057	No	83544	SUBSTRATE, GRAVEL 16-2 MM	%	09/11/85-09/29/94	9	4	
MNRR0059	No	83544	SUBSTRATE, GRAVEL 16-2 MM	%	07/25/90-07/25/90	0	2	
MNRR0064	No	83544	SUBSTRATE, GRAVEL 16-2 MM	%	09/11/85-09/19/85	0	2	
MNRR0065	No	83544	SUBSTRATE, GRAVEL 16-2 MM	%	09/30/94-09/30/94	0	1	
MNRR0084	Yes	83544	SUBSTRATE, GRAVEL 16-2 MM	%	05/13/81-05/13/81	0	1	
MNRR0087	No	83544	SUBSTRATE, GRAVEL 16-2 MM	%	10/11/95-10/11/95	0	2	
MNRR0008	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	06/06/90-06/06/90	0	2	
MNRR0010	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	09/28/94-09/28/94	0	2	
MNRR0016	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	09/10/85-09/07/95	9	5	
MNRR0021	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	09/10/85-09/29/94	9	3	
MNRR0031	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	09/08/95-07/16/96	0	2	
MNRR0033	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	04/18/89-10/30/89	0	2	
MNRR0034	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	10/30/89-10/30/89	0	1	
MNRR0049	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	09/29/94-09/07/95	0	3	
MNRR0050	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	09/11/85-07/25/90	4	4	
MNRR0052	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	09/29/94-09/29/94	0	2	
MNRR0057	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	09/11/85-09/29/94	9	4	
MNRR0059	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	07/25/90-07/25/90	0	2	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0064	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	09/11/85-09/07/95	9	4	
MNRR0065	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	09/30/94-09/30/94	0	1	
MNRR0076	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	06/09/87-06/17/87	0	2	
MNRR0084	Yes	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	05/13/81-05/30/84	3	5	
MNRR0087	No	83545	SUBSTRATE, SAND 2.000-0.062 MM	%	06/09/87-10/11/95	8	4	
MNRR0010	No	83546	SUBSTRATE, SILT 0.062-0.004 MM	%	09/28/94-09/28/94	0	2	
MNRR0016	No	83546	SUBSTRATE, SILT 0.062-0.004 MM	%	07/24/90-07/24/90	0	2	
MNRR0019	Yes	83546	SUBSTRATE, SILT 0.062-0.004 MM	%	09/29/94-09/29/94	0	1	
MNRR0021	No	83546	SUBSTRATE, SILT 0.062-0.004 MM	%	09/10/85-09/29/94	9	4	
MNRR0033	No	83546	SUBSTRATE, SILT 0.062-0.004 MM	%	10/30/89-10/30/89	0	1	
MNRR0034	No	83546	SUBSTRATE, SILT 0.062-0.004 MM	%	04/18/89-10/30/89	0	2	
MNRR0050	No	83546	SUBSTRATE, SILT 0.062-0.004 MM	%	07/25/90-07/25/90	0	2	
MNRR0052	No	83546	SUBSTRATE, SILT 0.062-0.004 MM	%	09/29/94-09/29/94	0	2	
MNRR0057	No	83546	SUBSTRATE, SILT 0.062-0.004 MM	%	09/29/94-09/29/94	0	2	
MNRR0059	No	83546	SUBSTRATE, SILT 0.062-0.004 MM	%	07/25/90-07/25/90	0	2	
MNRR0076	No	83546	SUBSTRATE, SILT 0.062-0.004 MM	%	06/17/87-06/17/87	0	1	
MNRR0021	No	83547	SUBSTRATE,CLAY/FINE PART. ORG MATR .004-.00024MM	%	09/29/94-09/29/94	0	2	
MNRR0033	No	83547	SUBSTRATE,CLAY/FINE PART. ORG MATR .004-.00024MM	%	04/18/89-04/18/89	0	1	
MNRR0049	No	83547	SUBSTRATE,CLAY/FINE PART. ORG MATR .004-.00024MM	%	09/29/94-09/29/94	0	2	
MNRR0065	No	83547	SUBSTRATE,CLAY/FINE PART. ORG MATR .004-.00024MM	%	09/30/94-09/30/94	0	1	
MNRR0019	Yes	83548	SUBSTRATE,DETRITUS/COARSE PARTICULATE ORG MATTER	%	09/29/94-09/29/94	0	1	
MNRR0034	No	83548	SUBSTRATE,DETRITUS/COARSE PARTICULATE ORG MATTER	%	04/18/89-04/18/89	0	1	
MNRR0052	No	83548	SUBSTRATE,DETRITUS/COARSE PARTICULATE ORG MATTER	%	09/29/94-09/29/94	0	2	
MNRR0013	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)		03/27/67-03/27/67	0	1	
MNRR0022	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)		10/22/80-10/22/80	0	1	
MNRR0058	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)		04/23/90-04/23/90	0	1	
MNRR0078	No	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)		01/15/69-01/15/69	0	1	
MNRR0099	Yes	84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)		09/12/69-09/12/69	0	1	
MNRR0013	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)		03/27/67-03/27/67	0	1	
MNRR0022	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)		10/22/80-10/22/80	0	1	
MNRR0058	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)		04/23/90-04/23/90	0	1	
MNRR0078	No	84001	AQUIFER NAME CODE (SEE USGS CATALOG)		01/15/69-01/15/69	0	1	
MNRR0099	Yes	84001	AQUIFER NAME CODE (SEE USGS CATALOG)		09/12/69-09/12/69	0	1	
MNRR0083	Yes	84014	SPECIES SEX	CODE	08/21/83-08/21/83	0	2	
MNRR0083	Yes	84015	AGE IN YEARS OF SPECIMEN COLLECTED	YEARS	10/26/82-08/21/83	0	15	
MNRR0006	No	84068	SERIES CODE ALPHA-NUMERIC CODE		09/18/96-09/18/96	0	3	
MNRR0018	No	84068	SERIES CODE ALPHA-NUMERIC CODE		09/18/96-09/18/96	0	6	
MNRR0043	No	84068	SERIES CODE ALPHA-NUMERIC CODE		10/06/88-09/09/96	7	4	
MNRR0061	No	84068	SERIES CODE ALPHA-NUMERIC CODE		09/18/96-09/18/96	0	3	
MNRR0073	Yes	84068	SERIES CODE ALPHA-NUMERIC CODE		07/08/94-07/08/94	0	3	
MNRR0083	Yes	84068	SERIES CODE ALPHA-NUMERIC CODE		08/20/92-08/20/92	0	1	
MNRR0095	No	84068	SERIES CODE ALPHA-NUMERIC CODE		07/26/88-09/10/91	3	4	
MNRR0010	No	84132	STREAMBANK, VEGETATIVE STABILITY RATING	CODE	09/28/94-09/28/94	0	1	
MNRR0014	No	84132	STREAMBANK, VEGETATIVE STABILITY RATING	CODE	07/23/91-07/23/91	0	2	
MNRR0016	No	84132	STREAMBANK, VEGETATIVE STABILITY RATING	CODE	09/10/85-09/07/95	9	2	
MNRR0019	Yes	84132	STREAMBANK, VEGETATIVE STABILITY RATING	CODE	09/29/94-09/29/94	0	1	
MNRR0021	No	84132	STREAMBANK, VEGETATIVE STABILITY RATING	CODE	09/10/85-09/29/94	9	2	
MNRR0031	No	84132	STREAMBANK, VEGETATIVE STABILITY RATING	CODE	09/08/95-09/08/95	0	1	
MNRR0049	No	84132	STREAMBANK, VEGETATIVE STABILITY RATING	CODE	09/29/94-09/07/95	0	2	
MNRR0050	No	84132	STREAMBANK, VEGETATIVE STABILITY RATING	CODE	09/11/85-09/11/85	0	1	
MNRR0052	No	84132	STREAMBANK, VEGETATIVE STABILITY RATING	CODE	09/29/94-09/29/94	0	1	
MNRR0057	No	84132	STREAMBANK, VEGETATIVE STABILITY RATING	CODE	09/11/85-09/29/94	9	2	
MNRR0064	No	84132	STREAMBANK, VEGETATIVE STABILITY RATING	CODE	09/11/85-09/07/95	9	3	
MNRR0065	No	84132	STREAMBANK, VEGETATIVE STABILITY RATING	CODE	09/30/94-09/30/94	0	1	
MNRR0076	No	84132	STREAMBANK, VEGETATIVE STABILITY RATING	CODE	06/17/87-06/17/87	0	1	
MNRR0087	No	84132	STREAMBANK, VEGETATIVE STABILITY RATING	CODE	06/15/87-10/11/95	8	3	
MNRR0008	No	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	06/06/90-06/06/90	0	2	
MNRR0010	No	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	09/28/94-09/28/94	0	2	
MNRR0014	No	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	07/23/91-07/23/91	0	2	
MNRR0016	No	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	09/10/85-09/07/95	9	5	
MNRR0019	Yes	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	09/29/94-09/29/94	0	1	
MNRR0021	No	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	09/10/85-09/29/94	9	4	
MNRR0031	No	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	09/08/95-07/16/96	0	2	
MNRR0049	No	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	09/29/94-09/07/95	0	3	
MNRR0050	No	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	09/11/85-07/25/90	4	4	
MNRR0052	No	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	09/29/94-09/29/94	0	2	
MNRR0057	No	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	09/11/85-09/29/94	9	4	
MNRR0059	No	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	07/25/90-07/25/90	0	2	
MNRR0064	No	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	09/11/85-09/07/95	9	4	
MNRR0065	No	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	09/30/94-09/30/94	0	1	
MNRR0076	No	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	06/17/87-06/17/87	0	1	
MNRR0087	No	84133	STREAMBANK, STABILITY (BANK EROSION) RATING	CODE	06/15/87-10/11/95	8	3	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0016	No	84150	HABITAT QUALITY INDEX RATING	CODE	09/10/85-09/18/85	0	2	
MNRR0021	No	84150	HABITAT QUALITY INDEX RATING	CODE	09/19/85-09/19/85	0	1	
MNRR0050	No	84150	HABITAT QUALITY INDEX RATING	CODE	09/11/85-09/20/85	0	2	
MNRR0057	No	84150	HABITAT QUALITY INDEX RATING	CODE	09/11/85-09/19/85	0	2	
MNRR0064	No	84150	HABITAT QUALITY INDEX RATING	CODE	09/11/85-09/19/85	0	2	
MNRR0076	No	84150	HABITAT QUALITY INDEX RATING	CODE	06/09/87-06/09/87	0	1	
MNRR0087	No	84150	HABITAT QUALITY INDEX RATING	CODE	06/09/87-06/09/87	0	1	
MNRR0008	No	84151	AQUATIC LIFE, USE CLASSES	CODE	06/06/90-06/06/90	0	2	
MNRR0010	No	84151	AQUATIC LIFE, USE CLASSES	CODE	09/28/94-09/28/94	0	2	
MNRR0016	No	84151	AQUATIC LIFE, USE CLASSES	CODE	09/10/85-09/07/95	9	5	
MNRR0019	Yes	84151	AQUATIC LIFE, USE CLASSES	CODE	09/29/94-09/29/94	0	1	
MNRR0021	No	84151	AQUATIC LIFE, USE CLASSES	CODE	09/19/85-09/29/94	9	3	
MNRR0031	No	84151	AQUATIC LIFE, USE CLASSES	CODE	09/08/95-07/16/96	0	2	
MNRR0049	No	84151	AQUATIC LIFE, USE CLASSES	CODE	09/29/94-09/07/95	0	2	
MNRR0050	No	84151	AQUATIC LIFE, USE CLASSES	CODE	09/11/85-07/25/90	4	4	
MNRR0052	No	84151	AQUATIC LIFE, USE CLASSES	CODE	09/29/94-09/29/94	0	1	
MNRR0057	No	84151	AQUATIC LIFE, USE CLASSES	CODE	09/11/85-09/29/94	9	3	
MNRR0059	No	84151	AQUATIC LIFE, USE CLASSES	CODE	07/25/90-07/25/90	0	2	
MNRR0064	No	84151	AQUATIC LIFE, USE CLASSES	CODE	09/11/85-09/07/95	9	4	
MNRR0065	No	84151	AQUATIC LIFE, USE CLASSES	CODE	09/30/94-09/30/94	0	1	
MNRR0076	No	84151	AQUATIC LIFE, USE CLASSES	CODE	06/09/87-06/09/87	0	1	
MNRR0087	No	84151	AQUATIC LIFE, USE CLASSES	CODE	06/09/87-10/11/95	8	3	
MNRR0008	No	84152	STREAM, STAGE CLASS	CODE	06/06/90-06/06/90	0	2	
MNRR0010	No	84152	STREAM, STAGE CLASS	CODE	09/28/94-09/28/94	0	2	
MNRR0014	No	84152	STREAM, STAGE CLASS	CODE	07/23/91-07/23/91	0	2	
MNRR0016	No	84152	STREAM, STAGE CLASS	CODE	09/10/85-09/07/95	9	5	
MNRR0019	Yes	84152	STREAM, STAGE CLASS	CODE	09/29/94-09/29/94	0	1	
MNRR0021	No	84152	STREAM, STAGE CLASS	CODE	09/19/85-09/29/94	9	3	
MNRR0031	No	84152	STREAM, STAGE CLASS	CODE	09/08/95-07/16/96	0	2	
MNRR0049	No	84152	STREAM, STAGE CLASS	CODE	09/29/94-09/07/95	0	3	
MNRR0050	No	84152	STREAM, STAGE CLASS	CODE	09/11/85-07/25/90	4	4	
MNRR0052	No	84152	STREAM, STAGE CLASS	CODE	09/29/94-09/29/94	0	2	
MNRR0057	No	84152	STREAM, STAGE CLASS	CODE	09/11/85-09/29/94	9	4	
MNRR0059	No	84152	STREAM, STAGE CLASS	CODE	07/25/90-07/25/90	0	2	
MNRR0064	No	84152	STREAM, STAGE CLASS	CODE	09/11/85-09/07/95	9	4	
MNRR0065	No	84152	STREAM, STAGE CLASS	CODE	09/30/94-09/30/94	0	1	
MNRR0076	No	84152	STREAM, STAGE CLASS	CODE	06/09/87-06/09/87	0	1	
MNRR0087	No	84152	STREAM, STAGE CLASS	CODE	06/09/87-10/11/95	8	3	
MNRR0008	No	84153	STREAMBANKS, GRAZING DAMAGE	CODE	06/06/90-06/06/90	0	2	
MNRR0010	No	84153	STREAMBANKS, GRAZING DAMAGE	CODE	09/28/94-09/28/94	0	2	
MNRR0014	No	84153	STREAMBANKS, GRAZING DAMAGE	CODE	07/23/91-07/23/91	0	2	
MNRR0016	No	84153	STREAMBANKS, GRAZING DAMAGE	CODE	07/24/90-09/07/95	5	3	
MNRR0019	Yes	84153	STREAMBANKS, GRAZING DAMAGE	CODE	09/29/94-09/29/94	0	1	
MNRR0021	No	84153	STREAMBANKS, GRAZING DAMAGE	CODE	09/29/94-09/29/94	0	2	
MNRR0031	No	84153	STREAMBANKS, GRAZING DAMAGE	CODE	09/08/95-07/16/96	0	2	
MNRR0049	No	84153	STREAMBANKS, GRAZING DAMAGE	CODE	09/29/94-09/07/95	0	3	
MNRR0050	No	84153	STREAMBANKS, GRAZING DAMAGE	CODE	07/25/90-07/25/90	0	2	
MNRR0052	No	84153	STREAMBANKS, GRAZING DAMAGE	CODE	09/29/94-09/29/94	0	2	
MNRR0057	No	84153	STREAMBANKS, GRAZING DAMAGE	CODE	09/29/94-09/29/94	0	2	
MNRR0059	No	84153	STREAMBANKS, GRAZING DAMAGE	CODE	07/25/90-07/25/90	0	2	
MNRR0064	No	84153	STREAMBANKS, GRAZING DAMAGE	CODE	09/07/95-09/07/95	0	2	
MNRR0065	No	84153	STREAMBANKS, GRAZING DAMAGE	CODE	09/30/94-09/30/94	0	1	
MNRR0087	No	84153	STREAMBANKS, GRAZING DAMAGE	CODE	10/11/95-10/11/95	0	2	
MNRR0008	No	84154	CHANNEL, MAJOR ALTERATIONS	CODE	06/06/90-06/06/90	0	2	
MNRR0010	No	84154	CHANNEL, MAJOR ALTERATIONS	CODE	09/28/94-09/28/94	0	2	
MNRR0014	No	84154	CHANNEL, MAJOR ALTERATIONS	CODE	07/23/91-07/23/91	0	2	
MNRR0016	No	84154	CHANNEL, MAJOR ALTERATIONS	CODE	09/10/85-09/07/95	9	5	
MNRR0019	Yes	84154	CHANNEL, MAJOR ALTERATIONS	CODE	09/29/94-09/29/94	0	1	
MNRR0021	No	84154	CHANNEL, MAJOR ALTERATIONS	CODE	09/19/85-09/29/94	9	3	
MNRR0031	No	84154	CHANNEL, MAJOR ALTERATIONS	CODE	09/08/95-07/16/96	0	2	
MNRR0049	No	84154	CHANNEL, MAJOR ALTERATIONS	CODE	09/29/94-09/07/95	0	3	
MNRR0050	No	84154	CHANNEL, MAJOR ALTERATIONS	CODE	09/11/85-07/25/90	4	4	
MNRR0052	No	84154	CHANNEL, MAJOR ALTERATIONS	CODE	09/29/94-09/29/94	0	2	
MNRR0057	No	84154	CHANNEL, MAJOR ALTERATIONS	CODE	09/11/85-09/29/94	9	4	
MNRR0059	No	84154	CHANNEL, MAJOR ALTERATIONS	CODE	07/25/90-07/25/90	0	2	
MNRR0064	No	84154	CHANNEL, MAJOR ALTERATIONS	CODE	09/11/85-09/07/95	9	4	
MNRR0065	No	84154	CHANNEL, MAJOR ALTERATIONS	CODE	09/30/94-09/30/94	0	1	
MNRR0076	No	84154	CHANNEL, MAJOR ALTERATIONS	CODE	06/09/87-06/09/87	0	1	
MNRR0087	No	84154	CHANNEL, MAJOR ALTERATIONS	CODE	06/09/87-10/11/95	8	3	
MNRR0008	No	84155	RIFFLE/RUNS, OCCURANCE	CODE	06/06/90-06/06/90	0	2	
MNRR0010	No	84155	RIFFLE/RUNS, OCCURANCE	CODE	09/28/94-09/28/94	0	2	
MNRR0016	No	84155	RIFFLE/RUNS, OCCURANCE	CODE	07/24/90-09/07/95	5	3	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0019	Yes	84155	RIFFLE/RUNS, OCCURANCE	CODE	09/29/94-09/29/94	0	1	
MNRR0021	No	84155	RIFFLE/RUNS, OCCURANCE	CODE	09/29/94-09/29/94	0	2	
MNRR0031	No	84155	RIFFLE/RUNS, OCCURANCE	CODE	09/08/95-07/16/96	0	2	
MNRR0049	No	84155	RIFFLE/RUNS, OCCURANCE	CODE	09/29/94-09/07/95	0	3	
MNRR0050	No	84155	RIFFLE/RUNS, OCCURANCE	CODE	07/25/90-07/25/90	0	2	
MNRR0052	No	84155	RIFFLE/RUNS, OCCURANCE	CODE	09/29/94-09/29/94	0	2	
MNRR0057	No	84155	RIFFLE/RUNS, OCCURANCE	CODE	09/29/94-09/29/94	0	2	
MNRR0059	No	84155	RIFFLE/RUNS, OCCURANCE	CODE	07/25/90-07/25/90	0	2	
MNRR0064	No	84155	RIFFLE/RUNS, OCCURANCE	CODE	09/07/95-09/07/95	0	2	
MNRR0065	No	84155	RIFFLE/RUNS, OCCURANCE	CODE	09/30/94-09/30/94	0	1	
MNRR0087	No	84155	RIFFLE/RUNS, OCCURANCE	CODE	10/11/95-10/11/95	0	2	
MNRR0008	No	84156	POOL, DESCRIPTION	CODE	06/06/90-06/06/90	0	2	
MNRR0010	No	84156	POOL, DESCRIPTION	CODE	09/28/94-09/28/94	0	2	
MNRR0016	No	84156	POOL, DESCRIPTION	CODE	07/24/90-09/07/95	5	3	
MNRR0021	No	84156	POOL, DESCRIPTION	CODE	09/29/94-09/29/94	0	2	
MNRR0031	No	84156	POOL, DESCRIPTION	CODE	09/08/95-07/16/96	0	2	
MNRR0049	No	84156	POOL, DESCRIPTION	CODE	09/29/94-09/07/95	0	3	
MNRR0050	No	84156	POOL, DESCRIPTION	CODE	07/25/90-07/25/90	0	2	
MNRR0052	No	84156	POOL, DESCRIPTION	CODE	09/29/94-09/29/94	0	2	
MNRR0057	No	84156	POOL, DESCRIPTION	CODE	09/29/94-09/29/94	0	2	
MNRR0059	No	84156	POOL, DESCRIPTION	CODE	07/25/90-07/25/90	0	2	
MNRR0064	No	84156	POOL, DESCRIPTION	CODE	09/07/95-09/07/95	0	2	
MNRR0065	No	84156	POOL, DESCRIPTION	CODE	09/30/94-09/30/94	0	1	
MNRR0087	No	84156	POOL, DESCRIPTION	CODE	10/11/95-10/11/95	0	2	
MNRR0008	No	84157	SANDBARS, LARGE, OCCURANCE	CODE	06/06/90-06/06/90	0	2	
MNRR0016	No	84157	SANDBARS, LARGE, OCCURANCE	CODE	07/24/90-07/24/90	0	2	
MNRR0050	No	84157	SANDBARS, LARGE, OCCURANCE	CODE	07/25/90-07/25/90	0	2	
MNRR0059	No	84157	SANDBARS, LARGE, OCCURANCE	CODE	07/25/90-07/25/90	0	2	
MNRR0008	No	84158	LAND USE, NEAR STREAM, PREDOMINANT	CODE	06/06/90-06/06/90	0	2	
MNRR0010	No	84158	LAND USE, NEAR STREAM, PREDOMINANT	CODE	09/28/94-09/28/94	0	2	
MNRR0014	No	84158	LAND USE, NEAR STREAM, PREDOMINANT	CODE	07/23/91-07/23/91	0	2	
MNRR0016	No	84158	LAND USE, NEAR STREAM, PREDOMINANT	CODE	07/24/90-09/07/95	5	3	
MNRR0019	Yes	84158	LAND USE, NEAR STREAM, PREDOMINANT	CODE	09/29/94-09/29/94	0	1	
MNRR0021	No	84158	LAND USE, NEAR STREAM, PREDOMINANT	CODE	09/29/94-09/29/94	0	2	
MNRR0031	No	84158	LAND USE, NEAR STREAM, PREDOMINANT	CODE	09/08/95-07/16/96	0	2	
MNRR0049	No	84158	LAND USE, NEAR STREAM, PREDOMINANT	CODE	09/29/94-09/07/95	0	3	
MNRR0050	No	84158	LAND USE, NEAR STREAM, PREDOMINANT	CODE	07/25/90-07/25/90	0	2	
MNRR0052	No	84158	LAND USE, NEAR STREAM, PREDOMINANT	CODE	09/29/94-09/29/94	0	2	
MNRR0057	No	84158	LAND USE, NEAR STREAM, PREDOMINANT	CODE	09/29/94-09/29/94	0	2	
MNRR0059	No	84158	LAND USE, NEAR STREAM, PREDOMINANT	CODE	07/25/90-07/25/90	0	2	
MNRR0064	No	84158	LAND USE, NEAR STREAM, PREDOMINANT	CODE	09/07/95-09/07/95	0	2	
MNRR0065	No	84158	LAND USE, NEAR STREAM, PREDOMINANT	CODE	09/30/94-09/30/94	0	1	
MNRR0087	No	84158	LAND USE, NEAR STREAM, PREDOMINANT	CODE	10/11/95-10/11/95	0	2	
MNRR0008	No	84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH)	CODE	06/06/90-06/06/90	0	2	
MNRR0010	No	84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH)	CODE	09/28/94-09/28/94	0	2	
MNRR0016	No	84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH)	CODE	07/24/90-09/07/95	5	3	
MNRR0019	Yes	84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH)	CODE	09/29/94-09/29/94	0	1	
MNRR0021	No	84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH)	CODE	09/29/94-09/29/94	0	2	
MNRR0031	No	84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH)	CODE	09/08/95-07/16/96	0	2	
MNRR0049	No	84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH)	CODE	09/29/94-09/07/95	0	3	
MNRR0050	No	84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH)	CODE	07/25/90-07/25/90	0	2	
MNRR0052	No	84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH)	CODE	09/29/94-09/29/94	0	2	
MNRR0057	No	84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH)	CODE	09/29/94-09/29/94	0	2	
MNRR0059	No	84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH)	CODE	07/25/90-07/25/90	0	2	
MNRR0064	No	84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH)	CODE	09/07/95-09/07/95	0	2	
MNRR0065	No	84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH)	CODE	09/30/94-09/30/94	0	1	
MNRR0087	No	84159	STREAM,COVER(INSTREAM SHELTER FOR ADULT FISH)	CODE	10/11/95-10/11/95	0	2	
MNRR0008	No	84160	STREAM, DEGRADATION RATING	CODE	06/06/90-06/06/90	0	2	
MNRR0010	No	84160	STREAM, DEGRADATION RATING	CODE	09/28/94-09/28/94	0	2	
MNRR0014	No	84160	STREAM, DEGRADATION RATING	CODE	07/23/91-07/23/91	0	2	
MNRR0016	No	84160	STREAM, DEGRADATION RATING	CODE	09/10/85-09/07/95	9	5	
MNRR0021	No	84160	STREAM, DEGRADATION RATING	CODE	09/19/85-09/29/94	9	3	
MNRR0031	No	84160	STREAM, DEGRADATION RATING	CODE	09/08/95-07/16/96	0	2	
MNRR0049	No	84160	STREAM, DEGRADATION RATING	CODE	09/29/94-09/07/95	0	3	
MNRR0050	No	84160	STREAM, DEGRADATION RATING	CODE	09/11/85-07/25/90	4	4	
MNRR0052	No	84160	STREAM, DEGRADATION RATING	CODE	09/29/94-09/29/94	0	2	
MNRR0057	No	84160	STREAM, DEGRADATION RATING	CODE	09/11/85-09/29/94	9	4	
MNRR0059	No	84160	STREAM, DEGRADATION RATING	CODE	07/25/90-07/25/90	0	2	
MNRR0064	No	84160	STREAM, DEGRADATION RATING	CODE	09/11/85-09/07/95	9	4	
MNRR0065	No	84160	STREAM, DEGRADATION RATING	CODE	09/30/94-09/30/94	0	1	
MNRR0076	No	84160	STREAM, DEGRADATION RATING	CODE	06/09/87-06/09/87	0	1	
MNRR0087	No	84160	STREAM, DEGRADATION RATING	CODE	06/09/87-10/11/95	8	3	

Station/Parameter Period of Record Tabulation
From 12/07/48 To 10/22/97

Station	In Park	Code	Name		Start - End	Years	Obs	Plots
MNRR0008	No	84161	STREAM, ORDER	CODE	06/06/90-06/06/90	0	2	
MNRR0010	No	84161	STREAM, ORDER	CODE	09/28/94-09/28/94	0	2	
MNRR0014	No	84161	STREAM, ORDER	CODE	07/23/91-07/23/91	0	1	
MNRR0016	No	84161	STREAM, ORDER	CODE	09/10/85-09/07/95	9	5	
MNRR0019	Yes	84161	STREAM, ORDER	CODE	09/29/94-09/29/94	0	1	
MNRR0021	No	84161	STREAM, ORDER	CODE	09/19/85-09/29/94	9	3	
MNRR0031	No	84161	STREAM, ORDER	CODE	09/08/95-07/16/96	0	2	
MNRR0049	No	84161	STREAM, ORDER	CODE	09/29/94-09/07/95	0	2	
MNRR0050	No	84161	STREAM, ORDER	CODE	09/11/85-07/25/90	4	4	
MNRR0052	No	84161	STREAM, ORDER	CODE	09/29/94-09/29/94	0	1	
MNRR0057	No	84161	STREAM, ORDER	CODE	09/11/85-09/29/94	9	3	
MNRR0059	No	84161	STREAM, ORDER	CODE	07/25/90-07/25/90	0	2	
MNRR0064	No	84161	STREAM, ORDER	CODE	09/11/85-09/07/95	9	4	
MNRR0065	No	84161	STREAM, ORDER	CODE	09/30/94-09/30/94	0	1	
MNRR0076	No	84161	STREAM, ORDER	CODE	06/09/87-06/09/87	0	1	
MNRR0087	No	84161	STREAM, ORDER	CODE	06/09/87-10/11/95	8	3	
MNRR0008	No	84163	FLOW, STREAM, CLASSIFICATION	CODE	06/06/90-06/06/90	0	2	
MNRR0010	No	84163	FLOW, STREAM, CLASSIFICATION	CODE	09/28/94-09/28/94	0	2	
MNRR0016	No	84163	FLOW, STREAM, CLASSIFICATION	CODE	09/10/85-09/07/95	9	5	
MNRR0021	No	84163	FLOW, STREAM, CLASSIFICATION	CODE	09/19/85-09/29/94	9	3	
MNRR0031	No	84163	FLOW, STREAM, CLASSIFICATION	CODE	09/08/95-07/16/96	0	2	
MNRR0049	No	84163	FLOW, STREAM, CLASSIFICATION	CODE	09/29/94-09/07/95	0	3	
MNRR0050	No	84163	FLOW, STREAM, CLASSIFICATION	CODE	09/11/85-07/25/90	4	4	
MNRR0052	No	84163	FLOW, STREAM, CLASSIFICATION	CODE	09/29/94-09/29/94	0	2	
MNRR0057	No	84163	FLOW, STREAM, CLASSIFICATION	CODE	09/11/85-09/29/94	9	4	
MNRR0059	No	84163	FLOW, STREAM, CLASSIFICATION	CODE	07/25/90-07/25/90	0	2	
MNRR0064	No	84163	FLOW, STREAM, CLASSIFICATION	CODE	09/11/85-09/07/95	9	4	
MNRR0076	No	84163	FLOW, STREAM, CLASSIFICATION	CODE	06/09/87-06/09/87	0	1	
MNRR0087	No	84163	FLOW, STREAM, CLASSIFICATION	CODE	06/09/87-10/11/95	8	3	

Station-By-Station Results

Station Inventory for Station: MNRR0001

NPS Station ID: MNRR0001 LAT/LON: 42.575004/ -96.683337 Agency: 112WRD Date Created: 07/15/77
Location: Missouri River near Ponca, NE
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 10170101 Depth of Water: 0
Major Basin: Elevation: 0
Minor Basin:
RF1 Index: 10170101004 RF1 Mile Point: 5.880
RF3 Index: 10170101067300.00 RF3 Mile Point: 0.41
Description:

FIPS State/County: 31051 NEBRASKA/DIXON
STORET Station ID(s): 06479097
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00 On/Off RF1: ON
Distance from RF3: 0.58 On/Off RF3:

Parameter Inventory for Station: MNRR0001

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)	10/07/76-04/27/78	5	665.	690.6	780.	585.	6879.3	82.942	**	**	**	**
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/07/76-08/30/79	33	20.5	18.561	25.5	9.	28.184	5.309	10.	13.5	23.25	25.
00055 VELOCITY, STREAM FT/SEC	10/07/76-08/30/79	374	3.5	3.536	7.2	1.2	0.778	0.882	2.4	2.9	4.125	4.8
70331 SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	08/30/79-08/30/79	1	12.	12.	12.	12.	0.	0.	**	**	**	**
70338 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	10/07/76-08/30/79	15	10.	10.733	21.	3.	26.495	5.147	4.2	6.	15.	19.2
70342 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/07/76-08/30/79	387	30.	33.194	93.	2.	316.136	17.78	13.	19.	44.	58.2
70343 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/07/76-08/30/79	372	48.	49.043	99.	11.	347.777	18.649	26.	35.	62.	75.
70344 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/07/76-08/30/79	372	95.	91.277	100.	44.	102.028	10.101	77.	88.	98.	100.
70345 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	10/07/76-08/30/79	313	100.	99.821	100.	78.	1.859	1.363	100.	100.	100.	100.
70346 SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	10/07/76-08/30/79	15	100.	100.	100.	100.	0.	0.	100.	100.	100.	100.
80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/07/76-08/30/79	387	327.	382.737	2280.	0.4	68665.464	262.041	161.	220.	464.	668.6
80164 BED MATERIAL SIEVE DIAMETER,% FINER THAN .062MM	10/07/76-07/19/79	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
80165 BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM	10/07/76-08/30/79	15	1.	0.667	2.	0.	0.381	0.617	0.	0.	1.	1.4
80166 BED MATERIAL SIEVE DIAMETER,% FINER THAN .250MM	10/07/76-08/30/79	15	18.	20.	38.	10.	82.571	9.087	10.	13.	24.	37.4
80167 BED MATERIAL SIEVE DIAMETER,% FINER THAN .500MM	10/07/76-08/30/79	15	81.	80.6	95.	63.	79.257	8.903	69.	73.	89.	94.4
80168 BED MATERIAL SIEVE DIAMETER,% FINER THAN 1.00MM	10/07/76-08/30/79	15	96.	93.8	99.	78.	30.029	5.48	84.	92.	98.	99.
80169 BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/07/76-08/30/79	15	98.	96.467	100.	84.	17.41	4.172	88.8	95.	99.	100.
80170 BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	10/07/76-08/30/79	13	99.	97.385	100.	88.	10.256	3.203	90.8	96.	99.	99.6
80171 BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	10/07/76-08/30/79	12	99.	98.25	100.	91.	7.295	2.701	92.2	98.	100.	100.
80172 BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	10/07/76-06/07/79	7	99.	98.714	100.	96.	2.571	1.604	**	**	**	**
80173 BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	10/07/76-10/26/78	4	100.	100.	100.	100.	0.	0.	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE, FEET	10/07/76-08/30/79	80	14.	14.533	35.	6.6	22.94	4.79	8.	11.5	17.725	20.81
81904 STREAM VELOCITY, POINT, IN FEET PER SECOND	10/07/76-08/30/79	377	3.43	3.492	6.11	1.24	0.747	0.864	2.42	2.85	4.09	4.664

** - Less than 9 observations ## - 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. **********

Annual Analysis for 1976 - Station MNRR0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00055 VELOCITY, STREAM	FT/SEC	10/07/76-08/30/79	23	3.3	3.335	5.2	2.2	0.774	0.88	2.24	2.5	3.9	4.76
70342 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM		10/07/76-08/30/79	24	32.	32.708	79.	2.	258.563	16.08	14.	21.	38.	55.5
70343 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM		10/07/76-08/30/79	23	48.	49.696	94.	29.	259.585	16.112	30.	38.	53.	75.4
70344 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM		10/07/76-08/30/79	23	99.	93.739	100.	72.	82.565	9.087	75.	91.	100.	100.
70345 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM		10/07/76-08/30/79	14	100.	99.857	100.	98.	0.286	0.535	99.	100.	100.	100.
80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)		10/07/76-08/30/79	24	396.	428.458	754.	149.	27653.998	166.295	204.	314.	521.	718.5
81904 STREAM VELOCITY, POINT, IN FEET PER SECOND		10/07/76-08/30/79	23	3.28	3.336	5.24	2.24	0.774	0.88	2.26	2.51	3.94	4.76

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

Annual Analysis for 1977 - Station MNRR0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00055 VELOCITY, STREAM	FT/SEC	10/07/76-08/30/79	133	3.4	3.432	7.2	2.	0.69	0.831	2.3	2.8	4.	4.4
70342 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM		10/07/76-08/30/79	138	37.5	39.862	93.	7.	413.01	20.323	15.9	24.	53.25	71.2
70343 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM		10/07/76-08/30/79	133	51.	54.504	99.	13.	438.752	20.946	28.4	37.	71.	84.6
70344 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM		10/07/76-08/30/79	133	97.	93.707	100.	49.	77.057	8.778	80.	92.	99.	100.
70345 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM		10/07/76-08/30/79	105	100.	99.733	100.	78.	4.717	2.172	100.	100.	100.	100.
80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)		10/07/76-08/30/79	138	293.5	321.725	1240.	91.	33814.216	183.886	136.4	196.5	384.	526.2
81904 STREAM VELOCITY, POINT, IN FEET PER SECOND		10/07/76-08/30/79	135	3.36	3.359	5.13	1.97	0.582	0.763	2.266	2.72	4.02	4.33

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

Annual Analysis for 1978 - Station MNRR0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00055 VELOCITY, STREAM	FT/SEC	10/07/76-08/30/79	126	3.6	3.632	6.1	1.3	0.872	0.934	2.57	2.975	4.225	5.
70342 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM		10/07/76-08/30/79	131	30.	31.802	70.	6.	210.53	14.51	13.	20.	42.	52.
70343 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM		10/07/76-08/30/79	126	49.	47.468	80.	11.	265.051	16.28	23.7	34.75	60.	69.3
70344 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM		10/07/76-08/30/79	126	93.	88.492	100.	44.	138.764	11.78	71.7	83.75	96.25	100.
70345 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM		10/07/76-08/30/79	110	100.	99.773	100.	95.	0.746	0.864	100.	100.	100.	100.
80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)		10/07/76-08/30/79	131	339.	447.672	2280.	135.	117423.591	342.671	185.4	233.	536.	793.6
81904 STREAM VELOCITY, POINT, IN FEET PER SECOND		10/07/76-08/30/79	128	3.61	3.603	6.11	1.29	0.893	0.945	2.521	2.9	4.22	4.97

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

Annual Analysis for 1979 - Station MNRR0001

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00055 VELOCITY, STREAM	FT/SEC	10/07/76-08/30/79	92	3.6	3.607	5.6	1.2	0.758	0.871	2.63	3.	4.2	4.87
70342 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM		10/07/76-08/30/79	94	21.5	25.468	79.	6.	216.381	14.71	9.	14.	34.25	46.5
70343 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM		10/07/76-08/30/79	90	39.5	43.011	89.	17.	277.584	16.661	22.1	29.75	53.5	69.9
70344 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM		10/07/76-08/30/79	90	94.	90.956	100.	55.	74.245	8.617	79.3	89.	96.	97.
70345 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM		10/07/76-08/30/79	84	100.	99.988	100.	99.	0.012	0.109	100.	100.	100.	100.
80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)		10/07/76-08/30/79	94	337.5	370.143	1650.	0.4	52043.669	228.131	115.	215.25	483.75	629.
81904 STREAM VELOCITY, POINT, IN FEET PER SECOND		10/07/76-08/30/79	91	3.5	3.571	5.56	1.24	0.75	0.866	2.594	2.98	4.15	4.8

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

Station Inventory for Station: MNRR0002

NPS Station ID: MNRR0002 LAT/LON: 42.575559/ -96.683616 Agency: 112WRD Date Created: 08/23/80
Location: MISSOURI R NEAR PONCA NE FIPS State/County: 31051 NEBRASKA/DIXON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 06479098
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 3.40 On/Off RF1:
RF3 Index: 10170101000503.95 RF3 Mile Point: 4.64 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0002

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)	10/18/79-08/21/80	172	775.	773.692	780.	730.	24.448	4.945	770.	770.	775.	780.
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/79-10/22/81	11	20.5	18.636	27.	9.5	34.355	5.861	10.2	13.	24.	26.6
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/24/80-10/22/81	10	23.5	22.	34.5	6.	72.944	8.541	6.7	14.5	27.75	34.05
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/18/79-10/22/81	11	32500.	33036.364	38400.	28800.	8322545.455	2884.882	29000.	31700.	36200.	37980.
00065 STAGE, STREAM (FEET)	10/18/79-08/21/80	172	95.69	88.189	730.	7.29	6020.168	77.59	7.3	95.53	96.56	97.58
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/17/80-10/22/81	8	845.	836.25	870.	800.	569.643	23.867	**	**	**	**
70331 SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/18/79-10/22/81	300	25.	28.567	84.	3.	275.945	16.612	10.	15.	36.75	52.9
70334 SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	10/22/81-10/22/81	1	100.	100.	100.	100.	0.	0.	**	**	**	**
70342 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	10/18/79-10/22/81	293	33.	35.833	87.	4.	368.599	19.199	13.	20.	49.	64.6
70343 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	10/18/79-10/22/81	293	54.	53.352	98.	7.	430.325	20.744	23.	38.5	67.	80.
70344 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	10/18/79-10/22/81	293	91.	87.317	100.	34.	181.512	13.473	68.	79.5	98.	100.
70345 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	10/18/79-10/22/81	237	100.	99.785	100.	90.	1.271	1.128	100.	100.	100.	100.
70346 SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	04/24/80-10/22/81	14	100.	100.	100.	100.	0.	0.	100.	100.	100.	100.
80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	10/18/79-10/22/81	300	197.5	266.7	1570.	19.	47831.02	218.703	96.1	125.25	336.5	508.9
80155 SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	04/24/80-04/24/80	1	8850.	8850.	8850.	8850.	0.	0.	**	**	**	**
80158 BED MATERIAL FALL DIAMETER, % FINER THAN .062MM	04/24/80-04/23/81	16	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
80159 BED MATERIAL FALL DIAMETER, % FINER THAN .125MM	10/18/79-09/03/81	56	0.	0.143	2.	0.	0.234	0.483	0.	0.	0.	0.3
80160 BED MATERIAL FALL DIAMETER, % FINER THAN .250MM	10/18/79-10/22/81	60	15.	18.85	75.	1.	216.977	14.73	3.	6.25	29.25	39.
80161 BED MATERIAL FALL DIAMETER, % FINER THAN .500MM	10/18/79-10/22/81	61	87.	80.131	100.	23.	400.749	20.019	43.8	72.	95.	98.
80162 BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM	10/18/79-10/22/81	47	99.	96.362	100.	66.	50.366	7.097	84.8	96.	100.	100.
80163 BED MATERIAL FALL DIAMETER, % FINER THAN 2.00MM	10/22/81-10/22/81	3	97.	94.333	99.	87.	41.333	6.429	**	**	**	**
80169 BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM	10/18/79-10/22/81	56	99.	97.143	100.	69.	33.688	5.804	91.2	97.	100.	100.
80170 BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM	04/24/80-10/22/81	46	99.	97.957	100.	80.	17.465	4.179	95.1	98.	100.	100.
80171 BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM	10/18/79-10/22/81	39	100.	98.897	100.	86.	6.094	2.469	97.	99.	100.	100.
80172 BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM	10/18/79-10/22/81	37	100.	99.784	100.	96.	0.508	0.712	99.	100.	100.	100.
80173 BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM	10/18/79-09/03/81	14	100.	99.643	100.	95.	1.786	1.336	97.5	100.	100.	100.
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE. FEET	10/18/79-10/22/81	330	13.4	13.849	82.	5.3	25.38	5.038	9.9	11.175	14.8	18.8
81904 STREAM VELOCITY, POINT, IN FEET PER SECOND	10/18/79-10/22/81	300	3.44	3.475	5.28	0.94	0.533	0.73	2.55	2.94	3.97	4.447

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

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

Station Inventory for Station: MNRR0003

NPS Station ID: MNRR0003
Location: AOWA CREEK
Station Type: /TYPA/AMBNT/STREAM/BIO
RMI-Indexes:
RMI-Miles:
HUC: 10170101
Major Basin:
Minor Basin:
RF1 Index: 10170101
RF3 Index: 10170203001300.00
Description:

LAT/LON: 42.561670/ -96.687226

Depth of Water: 0
Elevation: 0

RF1 Mile Point: 0.000
RF3 Mile Point: 6.56

Agency: 21NEB001
FIPS State/County: 31051 NEBRASKA/DIXON
STORET Station ID(s): RPONDOMC
Within Park Boundary: No

Aquifer:
Water Body Id: NEMT2-10600
ECO Region: 47G
Distance from RF1: 0.00
Distance from RF3: 0.09

Date Created: 06/22/96

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: MNRR0003

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: MNRR0004

NPS Station ID: MNRR0004
Location: AOWA CREEK
Station Type: /TYPA/AMBNT/STREAM/BIO
RMI-Indexes:
RMI-Miles:
HUC: 10170101
Major Basin:
Minor Basin:
RF1 Index: 10170101
RF3 Index: 10170203001300.00
Description:

LAT/LON: 42.564170/ -96.693059
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 6.56

Agency: 21NEB001
FIPS State/County: 31051 NEBRASKA/DIXON
STORET Station ID(s): RPONDOMA
Within Park Boundary: No
Aquifer:
Water Body Id: NEMT2-10600
ECO Region: 47G
Distance from RF1: 0.00
Distance from RF3: 0.09

Date Created: 06/22/96
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: MNRR0004

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: MNRR0005

NPS Station ID: MNRR0005
Location: AOWA CREEK
Station Type: /TYPA/AMBNT/STREAM/BIO
RMI-Indexes:
RMI-Miles:
HUC: 10170101
Major Basin:
Minor Basin:
RF1 Index: 10170101
RF3 Index: 10170203001300.00
Description:

LAT/LON: 42.563892/ -96.693338
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 6.56

Agency: 21NEB001
FIPS State/County: 31051 NEBRASKA/DIXON
STORET Station ID(s): RPONDOMB
Within Park Boundary: No
Aquifer:
Water Body Id: NEMT2-10600
ECO Region: 47G
Distance from RF1: 0.00
Distance from RF3: 0.09

Date Created: 06/22/96
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: MNRR0005

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: MNRR0006

NPS Station ID: MNRR0006 LAT/LON: 42.564448/ -96.693338 Agency: 1117MBR Date Created: 01/13/96
Location: AOWA CREEK EAST OF PONCA, NEBRASKA.
Station Type: /TYPA/AMBNT/FISH/STREAM
RMI-Indexes:
RMI-Miles:
HUC: 10170101 Depth of Water: 0
Major Basin: Elevation: 0
Minor Basin:
RF1 Index: 10170101 RF1 Mile Point: 0.000
RF3 Index: 10170203001300.00 RF3 Mile Point: 6.56
Description:

FIPS State/County: 31051 NEBRASKA/DIXON
STORET Station ID(s): 009443
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.00 On/Off RF1:
Distance from RF3: 0.09 On/Off RF3:

Parameter Inventory for Station: MNRR0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71930 MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS		09/18/96-09/18/96	3	0.05	0.057	0.08	0.04	0.	0.021	**	**	**	**
81614 NUMBER OF INDIVIDUALS IN THE SAMPLE		09/18/96-09/18/96	3	3.	3.	3.	3.	0.	0.	**	**	**	**
82655 FISH LENGTH, TOTAL	CM	08/30/95-09/18/96	16	44.	45.381	54.2	36.5	34.482	5.872	37.97	40.2	52.125	54.06
82656 FISH, WHOLE, WET WEIGHT	GRAM	08/30/95-09/18/96	16	766.	987.625	2300.	359.	339178.517	582.39	376.5	509.75	1473.75	1939.5

** - 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

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

Station Inventory for Station: MNRR0007

NPS Station ID: MNRR0007
Location: AOWA CREEK AT PONCA
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes: 4233150 000050
RMI-Miles: 0964.21 0030.00
HUC: 10150007
Major Basin: MISSOURI RIVER
Minor Basin: LOWER MISSOURI
RF1 Index: 10150007
RF3 Index: 10170101008203.23

LAT/LON: 42.560142/ -96.706116
Depth of Water: 0
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 3.33

Agency: 21NEB001
Date Created: / /
FIPS State/County: 31051 NEBRASKA/DIXON
STORET Station ID(s): 301202
Within Park Boundary: No
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 1.00
On/Off RF1:
Distance from RF3: 0.02
On/Off RF3:

Description:
NE 1/4 OF SE 1/4, SEC. 22, T30N,R06E, DIXON COUNTY, SE EDGE OF PONCA ON HWY. 12 & 9 BR.

Parameter Inventory for Station: MNRR0007

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		11/29/73-11/29/77	32	14.25	14.169	35.5	0.	103.185	10.158	0.5	4.25	22.75	26.73
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		11/29/73-11/29/77	30	15.	15.53	44.	-6.	154.176	12.417	2.42	1.05	24.	31.63
00032 CLOUD COVER (PERCENT)		11/29/73-12/15/76	23	10.	42.391	100.	0.	2008.794	44.82	0.	0.	100.	100.
00035 WIND VELOCITY (MILES PER HOUR)		07/09/75-07/09/75	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	07/19/77-07/19/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)		11/29/73-11/29/77	32	26.	37.872	187.	5.9	1348.448	36.721	10.	13.25	47.5	82.7
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		11/29/73-11/29/77	32	572.5	572.281	720.	330.	4720.725	68.708	496.5	542.	610.	640.
00100 TIME OF TRAVEL (HOURS)		07/09/75-07/09/75	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	11/29/73-11/29/77	32	9.9	10.063	13.8	7.4	3.426	1.851	7.53	8.475	11.35	12.89
00310 BOD, 5 DAY, 20 DEG C	MG/L	02/05/74-11/29/77	28	2.15	2.386	6.1	0.6	1.914	1.383	0.78	1.325	3.075	4.54
00340 COD, .25N K2CR2O7	MG/L	02/05/74-11/29/77	28	14.	22.857	105.	0.	783.386	27.989	0.	3.5	35.5	81.7
00400 PH (STANDARD UNITS)		02/05/74-11/29/77	28	8.2	8.175	8.8	7.5	0.076	0.276	7.79	8.	8.375	8.5
00400 CONVERTED PH (STANDARD UNITS)		02/05/74-11/29/77	28	8.2	8.086	8.8	7.5	0.084	0.29	7.79	8.	8.375	8.5
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		02/05/74-11/29/77	28	0.006	0.008	0.032	0.002	0.	0.006	0.003	0.004	0.01	0.016
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		11/29/73-07/09/75	14	294.	296.571	353.	227.	983.033	31.353	249.5	279.5	317.75	345.
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		11/29/73-11/29/77	32	374.5	367.125	480.	190.	3956.823	62.903	267.8	330.5	405.75	451.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		02/24/76-11/29/77	18	85.	145.222	772.	21.	34604.418	186.023	26.4	43.25	168.5	480.4
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		02/24/76-11/29/77	16	0.05	0.33	3.5	0.	0.758	0.871	0.	0.	0.155	1.61
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		11/29/73-11/29/77	31	1.1	1.2	2.	0.4	0.185	0.43	0.6	0.9	1.4	1.8
00660 PHOSPHATE, ORTHO (MG/L AS PO4)		02/24/76-11/29/77	18	0.1	0.141	0.3	0.03	0.006	0.075	0.093	0.1	0.2	0.3
00900 HARDNESS, TOTAL (MG/L AS CACO3)		11/29/73-07/09/75	14	305.5	303.571	368.	230.	1438.11	37.922	244.	276.75	322.75	364.5
00915 CALCIUM, DISSOLVED (MG/L AS CA)		11/29/73-07/09/75	14	82.5	80.357	103.	61.	161.17	12.695	61.5	69.5	87.25	100.
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		11/29/73-07/09/75	14	25.	28.643	75.	19.	183.94	13.562	20.5	24.75	27.25	52.
00930 SODIUM, DISSOLVED (MG/L AS NA)		11/29/73-11/29/77	31	17.	17.097	22.	13.	2.224	1.491	16.	16.	18.	18.
00931 SODIUM ADSORPTION RATIO		11/29/73-07/09/75	14	0.4	0.443	0.7	0.4	0.007	0.085	0.4	0.4	0.5	0.6
00935 POTASSIUM, DISSOLVED (MG/L AS K)		11/29/73-07/09/75	14	9.	8.571	11.	6.	1.802	1.342	6.5	7.75	9.25	10.5
00940 CHLORIDE,TOTAL IN WATER	MG/L	11/29/73-11/29/77	31	4.	5.258	29.	2.	22.465	4.74	3.	4.	5.	6.8
00945 SULFATE, TOTAL (MG/L AS SO4)		11/29/73-07/09/75	14	41.	43.143	54.	33.	33.824	5.816	35.5	40.	47.25	53.5
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		02/05/74-11/29/77	28	690.	1216.357	7000.	0.	2194351.794	1481.334	82.7	292.5	1927.75	2751.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		02/05/74-11/29/77	28	2.839	2.725	3.845	0.	0.576	0.759	1.904	2.454	3.284	3.437
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C				GEOMETRIC MEAN =	531.219								

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

EPA Water Quality Criteria Analysis for Station: MNRR0007

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	32	7	0.22	4	0	0.00	3	2	0.67	12	5	0.42	13	0	0.00
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	32	0	0.00	4	0	0.00	3	0	0.00	12	0	0.00	13	0	0.00
00400 PH	Fresh Chronic	9.	28	0	0.00	3	0	0.00	3	0	0.00	9	0	0.00	13	0	0.00
	Other-Lo Lim.	6.5	28	0	0.00	3	0	0.00	3	0	0.00	9	0	0.00	13	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	31	0	0.00	4	0	0.00	3	0	0.00	12	0	0.00	12	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	31	0	0.00	4	0	0.00	3	0	0.00	12	0	0.00	12	0	0.00
	Drinking Water	250.	31	0	0.00	4	0	0.00	3	0	0.00	12	0	0.00	12	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	14	0	0.00	2	0	0.00	2	0	0.00	6	0	0.00	4	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	28	22	0.79	3	2	0.67	3	3	1.00	10	5	0.50	12	12	1.00

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

Station Inventory for Station: MNRR0008

NPS Station ID: MNRR0008
Location: AOWA CREEK
Station Type: /TYPA/AMBNT/STREAM/BIO
RMI-Indexes:
RMI-Miles:
HUC: 10170101
Major Basin:
Minor Basin:
RF1 Index: 10170101
RF3 Index: 10170101067800.00
Description:

LAT/LON: 42.591948/ -96.761392

Depth of Water: 0
Elevation: 0

RF1 Mile Point: 0.000
RF3 Mile Point: 0.09

Agency: 21NEB001
FIPS State/County: 31051 NEBRASKA/DIXON
STORET Station ID(s): MT2073
Within Park Boundary: No

Aquifer:
Water Body Id: NEMT2-10500
ECO Region: 46G
Distance from RF1: 2.70
Distance from RF3: 0.03

Date Created: 02/23/91
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: MNRR0008

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: MNRR0009

NPS Station ID: MNRR0009 LAT/LON: 42.666670/ -96.866671 Agency: 21NEB002 Date Created: / /
Location: PLUM CREEK NEAR WISNER, NB FIPS State/County: 31039 NEBRASKA/CUMING
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 020139
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 1 Aquifer:
Major Basin: MISSOURI Elevation: 0 Water Body Id:
Minor Basin: PLATTE ECO Region:
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10170101133200.00 RF3 Mile Point: 1.18 Distance from RF3: 0.08 On/Off RF3:
Description:
PLUM CREEK 1 E, 5 N OF WISNER, NB SECTION 8 T24N R5E

Parameter Inventory for Station: MNRR0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	07/14/72-07/14/72	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	07/14/72-07/14/72	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/14/72-07/14/72	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/14/72-07/14/72	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/14/72-07/14/72	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	07/14/72-07/14/72	1	308.	308.	308.	308.	0.	0.	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/14/72-07/14/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	07/14/72-07/14/72	1	342.	342.	342.	342.	0.	0.	**	**	**	**
48024 NOTROPIS DORSALIS-BIGMOUTH SHINER-#/EFFORT	07/14/72-07/14/72	1	1.	1.	1.	1.	0.	0.	**	**	**	**
48027 HYBOGNATHUS HANKINSONI-BRASSY MINNOW-#/EFFORT	07/14/72-07/14/72	1	2.	2.	2.	2.	0.	0.	**	**	**	**
48028 PIMEPHALES PROMELAS-FATHEAD MINNOW-#/EFFORT	07/14/72-07/14/72	1	100.	100.	100.	100.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: MNRR0009

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 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

Station Inventory for Station: MNRR0010

NPS Station ID: MNRR0010
Location: TURKEY CREEK
Station Type: /TYPA/AMBNT/STREAM/BIO
RMI-Indexes:
RMI-Miles:
HUC: 10170101
Major Basin:
Minor Basin:
RF1 Index: 10170101
RF3 Index: 10170203001300.00
Description:

LAT/LON: 42.698892/ -96.899170

Depth of Water: 0
Elevation: 0

RF1 Mile Point: 0.000
RF3 Mile Point: 6.56

Agency: 21NEB001
FIPS State/County: 31051 NEBRASKA/DIXON
STORET Station ID(s): MT2084
Within Park Boundary: No

Aquifer:
Water Body Id: NEMT2-10800
ECO Region: 46G
Distance from RF1: 0.00
Distance from RF3: 0.09

Date Created: 06/22/96

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: MNRR0010

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: MNRR0011

NPS Station ID: MNRR0011 LAT/LON: 42.717227/ -96.955559 Agency: 112WRD Date Created: 08/23/80
Location: MISSOURI R NEAR MASKELL NE FIPS State/County: 31051 NEBRASKA/DIXON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 06478526
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 23.00 On/Off RF1:
RF3 Index: 10170101009402.11 RF3 Mile Point: 4.11 Distance from RF3: 0.26 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)		10/17/79-08/20/80	161	705.	716.118	785.	655.	2531.242	50.311	655.	675.	765.	785.
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/17/79-10/21/81	11	20.	19.	27.	11.	31.75	5.635	11.3	14.	25.	26.6
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		06/04/80-10/21/81	9	26.	22.	29.	6.5	57.313	7.571	6.5	16.5	27.25	29.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/17/79-10/21/81	11	33200.	33900.	39400.	29000.	9348000.	3057.45	29240.	32500.	36800.	39000.
00065 STAGE, STREAM (FEET)		10/17/79-08/20/80	162	25.4	25.358	26.24	24.6	0.418	0.646	24.6	24.7	25.9	26.23
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		07/16/80-10/21/81	8	840.	826.25	870.	740.	1769.643	42.067	**	**	**	**
70331 SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM		10/17/79-10/21/81	311	29.	32.788	89.	1.	453.426	21.294	7.2	15.	51.	62.8
70342 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM		10/17/79-10/21/81	301	34.	38.591	94.	2.	570.902	23.894	10.	18.	59.	72.8
70343 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM		10/17/79-10/21/81	301	50.	51.698	100.	2.	644.585	25.389	18.2	30.	73.	86.
70344 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM		10/17/79-10/21/81	299	91.	83.04	100.	22.	350.589	18.724	53.	73.	98.	100.
70345 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM		10/17/79-10/21/81	242	100.	99.008	100.	55.	14.689	3.833	97.	100.	100.	100.
70346 SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM		04/23/80-10/21/81	42	100.	99.429	100.	82.	8.446	2.906	100.	100.	100.	100.
70347 SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM		06/10/81-06/10/81	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)		10/17/79-10/21/81	311	142.	225.209	3110.	17.	70654.714	265.81	58.	79.	279.	484.8
80158 BED MATERIAL FALL DIAMETER, % FINER THAN .062MM		10/17/79-09/02/81	19	0.	11.632	69.	0.	371.912	19.285	0.	0.	24.	40.
80159 BED MATERIAL FALL DIAMETER, % FINER THAN .125MM		10/17/79-10/21/81	39	0.	10.615	83.	0.	465.348	21.572	0.	0.	2.	48.
80160 BED MATERIAL FALL DIAMETER, % FINER THAN .250MM		10/17/79-10/21/81	47	14.	26.383	96.	0.	848.154	29.123	0.	4.	50.	73.4
80161 BED MATERIAL FALL DIAMETER, % FINER THAN .500MM		10/17/79-10/21/81	47	86.	71.447	100.	1.	1036.166	32.19	14.8	55.	97.	99.
80162 BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM		10/17/79-10/21/81	42	99.5	89.286	100.	23.	422.307	20.55	54.8	91.5	100.	100.
80163 BED MATERIAL FALL DIAMETER, % FINER THAN 2.00MM		06/10/81-10/21/81	2	90.5	90.5	100.	81.	180.5	13.435	**	**	**	**
80165 BED MATERIAL SIEVE DIAMETER,% FINER THAN .125MM		10/17/79-10/17/79	1	99.	99.	99.	99.	0.	0.	**	**	**	**
80169 BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM		10/17/79-10/21/81	33	99.	85.97	100.	0.	678.093	26.04	36.	84.5	100.	100.
80170 BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM		10/17/79-10/21/81	23	99.	86.087	100.	0.	693.083	26.326	35.2	84.	100.	100.
80171 BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM		10/17/79-10/21/81	19	98.	88.526	100.	0.	659.596	25.683	50.	96.	100.	100.
80172 BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM		10/17/79-10/21/81	17	100.	91.059	100.	0.	605.684	24.611	59.2	98.	100.	100.
80173 BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM		10/17/79-04/22/81	8	100.	97.25	100.	88.	23.643	4.862	**	**	**	**
81903 DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE,	FEET	10/17/79-10/21/81	333	17.5	16.29	23.7	7.1	22.35	4.728	9.	11.85	20.7	21.92
81904 STREAM VELOCITY, POINT, IN FEET PER SECOND		10/17/79-10/21/81	310	4.07	4.068	6.89	0.87	1.523	1.234	2.462	3.195	5.038	5.708

** - Less than 9 observations ## - 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: MNRR0012

NPS Station ID: MNRR0012 LAT/LON: 42.785143/ -96.962782 Agency: 21SDAK01 Date Created: / /
Location: VERMILLION R NEAR VERMILLION FIPS State/County: 46027 SOUTH DAKOTA/CLAY
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 460745 /S.D. NO. 5
RMI-Indexes: 1021500 009490 33220 Within Park Boundary: No
RMI-Miles: 1149.40 0772.00 001.50
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: LOWER MISSOURI ECO Region:
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 0.30 On/Off RF1:
RF3 Index: 10170102000507.26 RF3 Mile Point: 10.93 Distance from RF3: 0.04 On/Off RF3:
Description:
0.5 MILE WEST OF VERMILLION AT EAST-WEST SD HWY 50 BRIDGE SECTION 14, SWNENE, T92N R51W

Parameter Inventory for Station: MNRR0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/27/72-11/01/95	146	10.85	11.856	29.4	-0.6	86.405	9.295	0.6	2.65	20.	25.53
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)		12/11/68-10/22/97	180	51.	53.491	85.	31.	287.411	16.953	33.	36.	68.	78.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		03/26/73-02/16/94	143	15.6	13.852	36.	-16.7	140.766	11.864	4.1	9.	24.4	30.
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)		09/16/74-10/22/97	182	57.5	54.446	97.	-7.	539.73	23.232	22.	37.	75.	83.7
00061 FLOW, STREAM, INSTANTANEOUS	CFS	04/29/97-05/28/97	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		12/11/68-10/22/97	177	1484.	1436.39	1995.	148.	91138.898	301.892	1015.2	1296.5	1650.	1725.6
00300p OXYGEN, DISSOLVED	MG/L	03/26/73-10/22/97	188	9.8	9.919	18.7	3.5	7.511	2.741	6.3	7.925	11.875	13.31
00310 BOD, 5 DAY, 20 DEG C	MG/L	03/27/90-03/27/90	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00400p PH (STANDARD UNITS)		11/12/73-10/22/97	163	8.	7.941	8.7	6.2	0.098	0.313	7.616	7.8	8.13	8.25
00400p CONVERTED PH (STANDARD UNITS)		11/12/73-10/22/97	163	8.	7.743	8.7	6.2	0.138	0.371	7.616	7.8	8.13	8.25
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/12/73-10/22/97	163	0.01	0.018	0.631	0.002	0.003	0.05	0.006	0.007	0.016	0.024
00403 PH, LAB, STANDARD UNITS	SU	12/11/68-08/23/94	104	8.	7.946	8.5	7.3	0.041	0.202	7.7	7.8	8.1	8.2
00403 CONVERTED PH, LAB, STANDARD UNITS		12/11/68-08/23/94	104	8.	7.894	8.5	7.3	0.044	0.209	7.7	7.8	8.1	8.2
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/11/68-08/23/94	104	0.01	0.013	0.05	0.003	0.	0.008	0.006	0.008	0.016	0.02
00410p ALKALINITY, TOTAL (MG/L AS CACO3)		12/11/68-10/22/97	161	241.	234.658	762.	0.	8340.976	91.329	136.8	202.5	277.5	312.6
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		12/11/68-08/23/94	39	132.	121.821	309.	0.	14046.677	118.519	0.	0.	242.	274.
00440 BICARBONATE ION (MG/L AS HCO3)		12/11/68-06/23/75	18	286.5	285.278	371.	171.	3294.918	57.401	210.6	240.	336.	362.9
00445 CARBONATE ION (MG/L AS CO3)		04/15/74-09/16/74	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00500p RESIDUE, TOTAL (MG/L)		12/11/68-10/22/97	179	1395.	1376.235	2498.	415.	71951.192	268.237	1031.	1238.	1535.	1654.
00503 INVALID PARAMETER		06/04/74-06/04/74	1	73.	73.	73.	73.	0.	0.	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		12/27/72-09/25/78	22	1226.	1192.182	1694.	364.	66163.68	257.223	920.3	1068.75	1324.75	1456.6
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		12/27/72-10/22/97	192	72.5	120.698	860.	1.	20457.982	143.031	9.3	26.	158.5	268.2
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		03/26/73-06/23/75	7	0.9	0.776	2.	0.01	0.528	0.727	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		12/01/77-10/22/97	158	0.06	0.128	1.54	0.01	0.049	0.222	0.01	0.01	0.14	0.281
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)		12/01/77-09/25/78	5	0.07	0.341	1.4	0.005	0.357	0.597	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		03/26/74-12/09/74	10	1.46	1.48	2.72	0.94	0.277	0.526	0.945	1.073	1.675	2.629
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		12/11/68-10/22/97	110	0.2	0.428	3.45	0.	0.277	0.526	0.05	0.05	0.6	1.145
00665 PHOSPHORUS, TOTAL (MG/L AS P)		03/01/83-10/22/97	146	0.193	0.231	0.992	0.028	0.032	0.179	0.048	0.088	0.33	0.456
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		12/01/77-04/25/95	117	0.017	0.045	0.612	0.003	0.006	0.074	0.003	0.007	0.053	0.134
00900 HARDNESS, TOTAL (MG/L AS CACO3)		12/11/68-02/28/95	84	856.	829.202	1155.	219.	32955.754	181.537	576.5	744.	950.	1047.5
00910 CALCIUM (MG/L AS CACO3)		12/11/68-12/27/72	2	224.15	224.15	228.3	220.	34.445	5.869	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)		03/26/74-06/04/74	3	209.2	228.1	272.6	202.5	1496.41	38.683	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)		12/11/68-08/27/97	69	180.7	180.654	264.	67.	1506.7	38.816	128.5	158.	205.05	229.9
00920 MAGNESIUM (MG/L AS CACO3)		12/11/68-12/27/72	2	72.9	72.9	77.8	68.	48.02	6.93	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		03/26/74-06/04/74	3	80.8	87.933	107.4	75.6	290.973	17.058	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)		12/11/68-08/27/97	69	70.	70.133	114.	20.6	240.78	15.517	52.2	59.35	79.65	89.8

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

Parameter Inventory for Station: MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00929 SODIUM, TOTAL (MG/L AS NA)	12/11/68-08/27/97	70	45.15	45.619	85.1	12.5	134.987	11.618	30.56	39.9	51.825	58.36
00930 SODIUM, DISSOLVED (MG/L AS NA)	12/11/68-06/04/74	5	56.	58.428	68.5	54.6	33.903	5.823	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	12/11/68-06/04/74	5	10.17	9.834	10.8	8.3	1.068	1.033	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	12/11/68-06/23/75	15	11.1	10.585	13.1	5.4	4.069	2.017	6.3	10.17	11.5	12.8
00940 CHLORIDE,TOTAL IN WATER MG/L	12/11/68-06/23/75	18	18.	18.472	41.	0.5	63.543	7.971	9.05	14.75	21.25	28.4
00945 SULFATE, TOTAL (MG/L AS SO4)	12/11/68-06/23/75	18	629.	584.278	966.	17.	44482.918	210.91	116.9	564.25	680.	725.7
00950 FLUORIDE, DISSOLVED (MG/L AS F)	12/11/68-03/26/74	6	0.485	0.478	0.7	0.22	0.025	0.158	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	12/11/68-12/27/72	2	1650.	1650.	2300.	1000.	845000.	919.239	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	12/11/68-06/23/75	18	980.	1019.444	2500.	90.	278299.673	527.541	459.	700.	1165.	1762.
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	169	110.	2081.888	100000.	0.	92398449.446	9612.411	5.	20.	335.	2600.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	169	2.041	2.049	5.	0.	0.963	0.982	0.699	1.301	2.525	3.415
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	111.823								
31673 FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	12/27/72-06/23/75	17	140.	1887.765	14000.	2.	15541484.941	3942.269	2.	25.	2025.	10000.
31673 LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	12/27/72-06/23/75	17	2.146	2.131	4.146	0.301	1.308	1.144	0.301	1.389	2.989	3.993
31673 GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR			GEOMETRIC MEAN =	135.246								
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	141	1317.	1259.674	1735.	399.	80814.179	284.278	825.4	1065.	1475.	1575.
70506 PHOSPHATE,TOT SOL COLORIMETRIC METH (MG/L AS P)	09/28/82-01/25/83	5	0.3	0.236	0.33	0.1	0.012	0.111	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/26/74-09/24/86	44	0.133	0.148	0.473	0.009	0.013	0.114	0.02	0.051	0.198	0.337
74010 IRON, TOTAL (MG/L AS FE)	12/11/68-06/23/75	18	0.995	2.392	17.1	0.37	16.608	4.075	0.523	0.69	1.625	9.

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

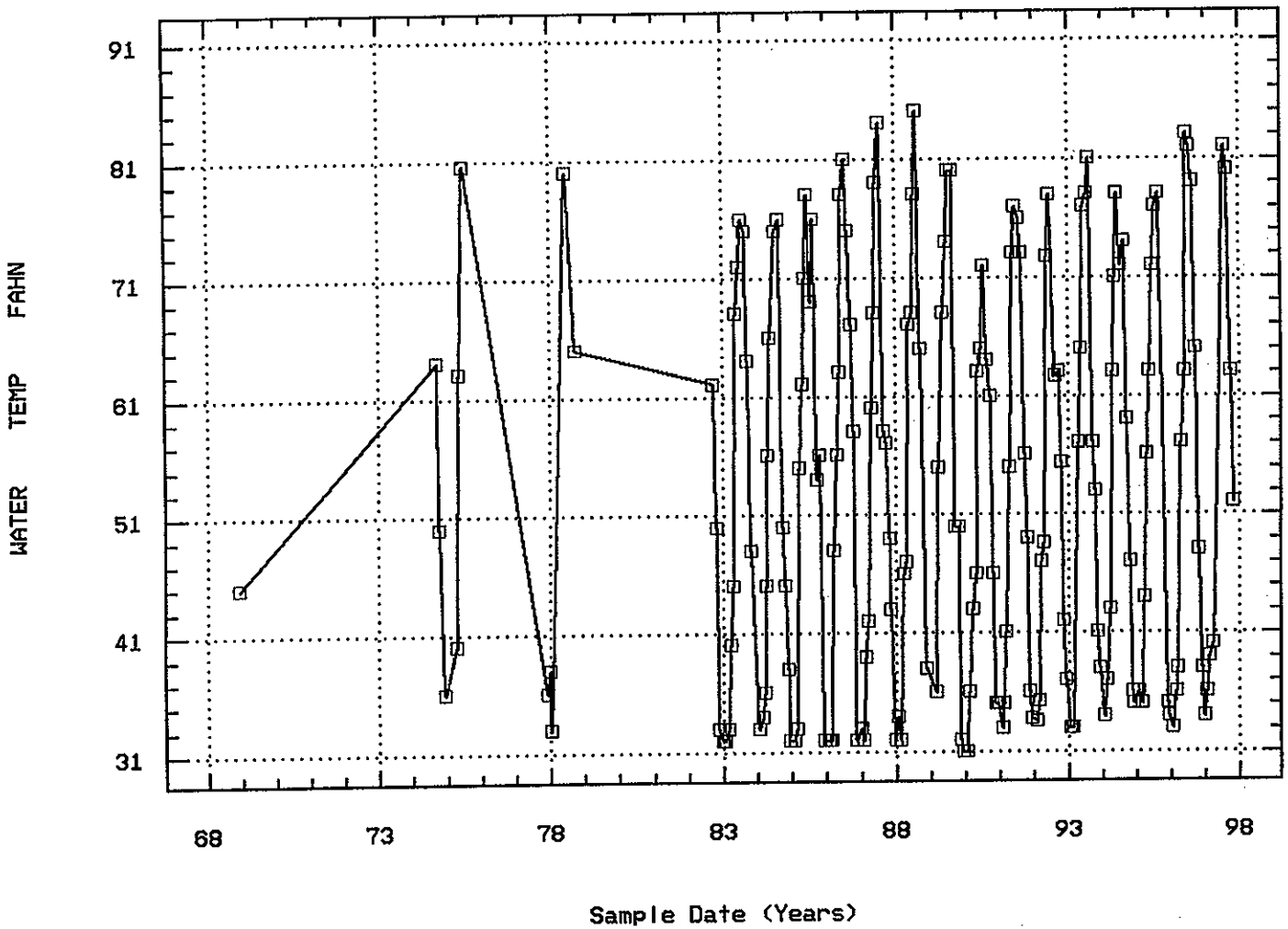
EPA Water Quality Criteria Analysis for Station: MNRR0012

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	188	2	0.01	24	0	0.00	30	0	0.00	63	1	0.02	71	1	0.01
00400 PH	Fresh Chronic	9.	163	0	0.00	23	0	0.00	24	0	0.00	53	0	0.00	63	0	0.00
	Other-Lo Lim.	6.5	163	1	0.01	23	1	0.04	24	0	0.00	53	0	0.00	63	0	0.00
00403 PH, LAB	Fresh Chronic	9.	104	0	0.00	13	0	0.00	12	0	0.00	37	0	0.00	42	0	0.00
	Other-Lo Lim.	6.5	104	0	0.00	13	0	0.00	12	0	0.00	37	0	0.00	42	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	5	1	0.20	3	1	0.33				1	0	0.00	1	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	110	0	0.00	16	0	0.00	17	0	0.00	34	0	0.00	43	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	18	0	0.00	3	0	0.00				8	0	0.00	7	0	0.00
	Drinking Water	250.	18	0	0.00	3	0	0.00				8	0	0.00	7	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	18	16	0.89	3	3	1.00				8	7	0.88	7	6	0.86
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	6	0	0.00	2	0	0.00				2	0	0.00	2	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	169	63	0.37	22	7	0.32	23	0	0.00	56	24	0.43	68	32	0.47

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

Station: MNRR0012 Parameter Code: 00011

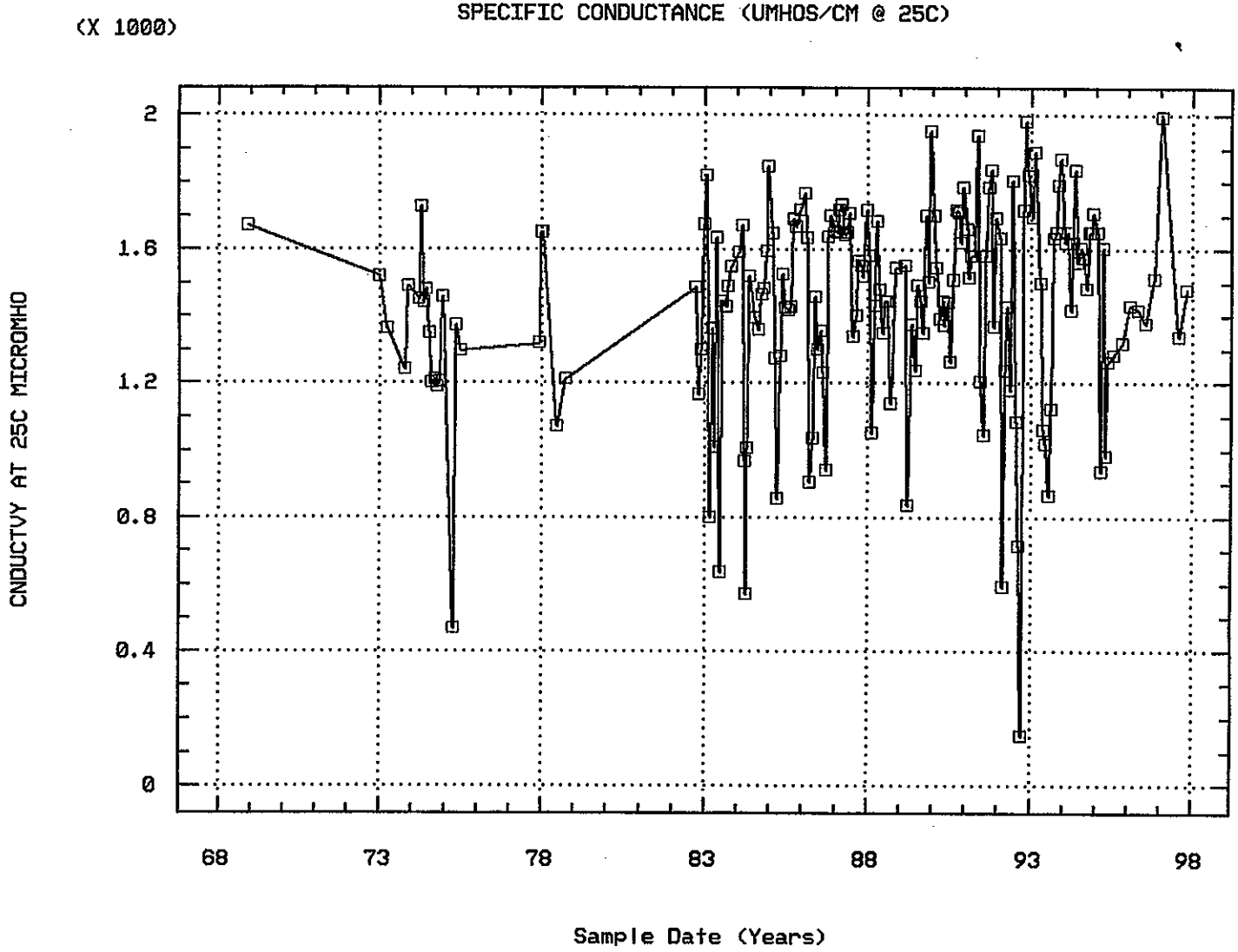
TEMPERATURE, WATER (DEGREES FAHRENHEIT)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00095

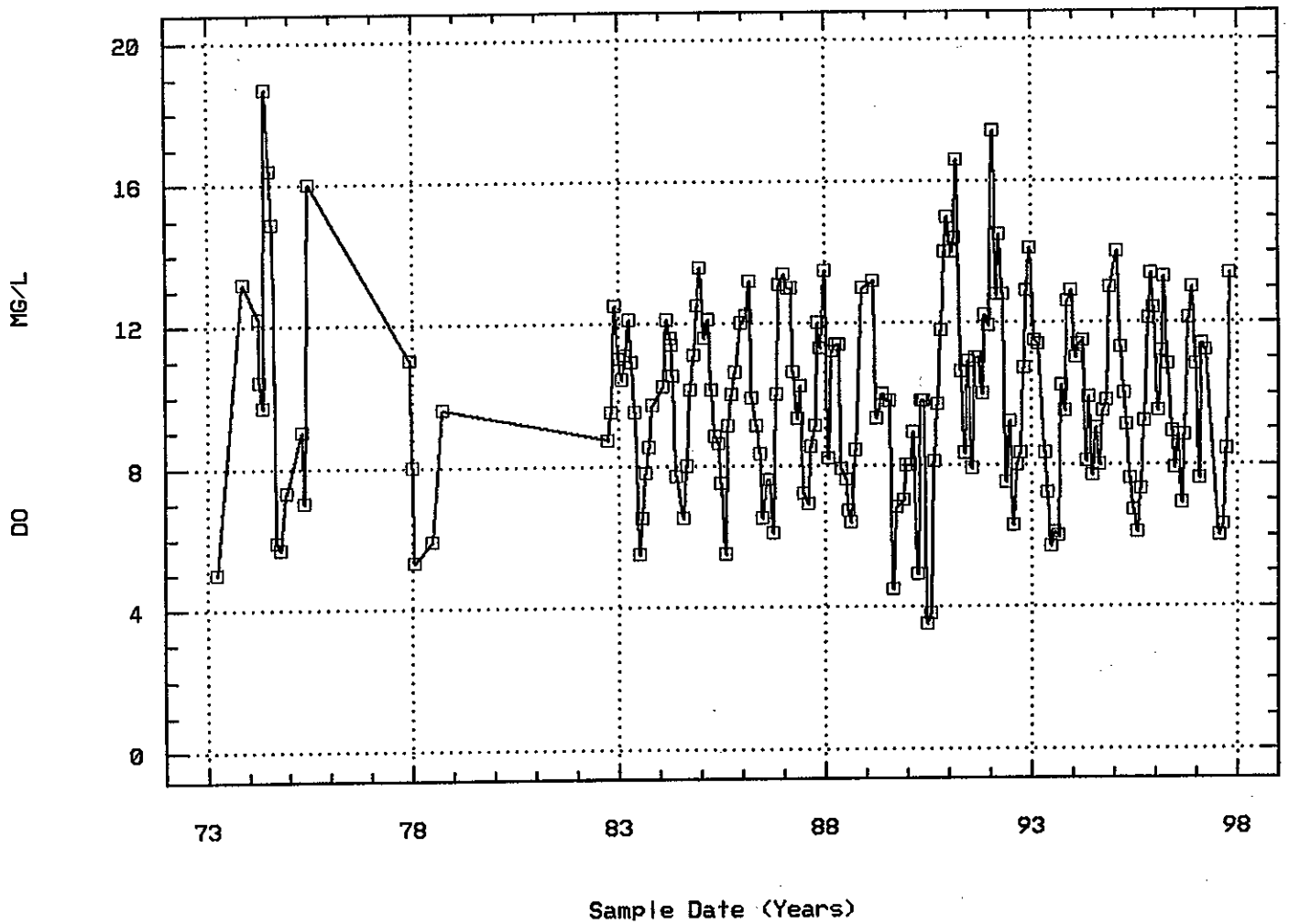
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00300

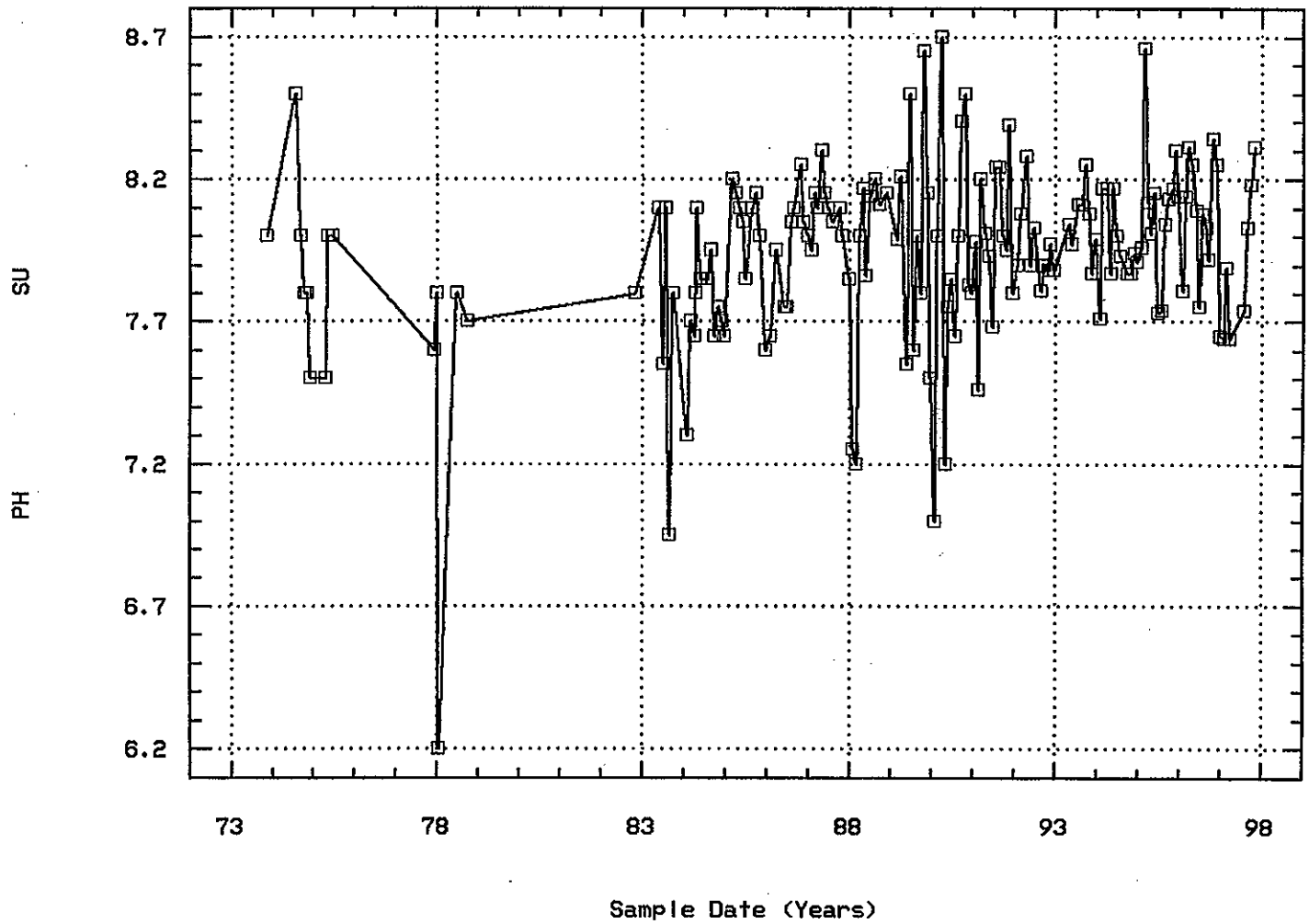
OXYGEN, DISSOLVED



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00400

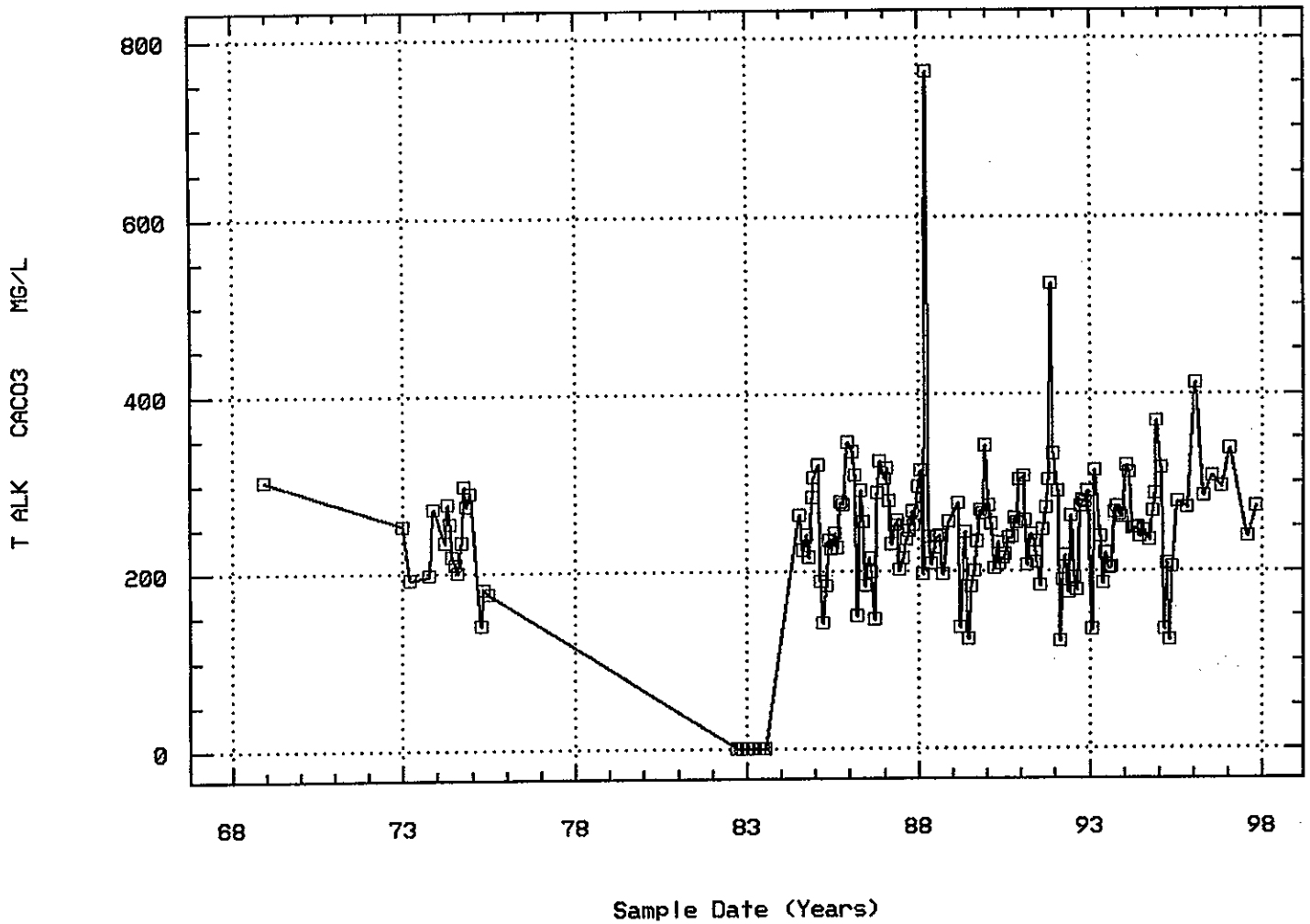
PH (STANDARD UNITS)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00410

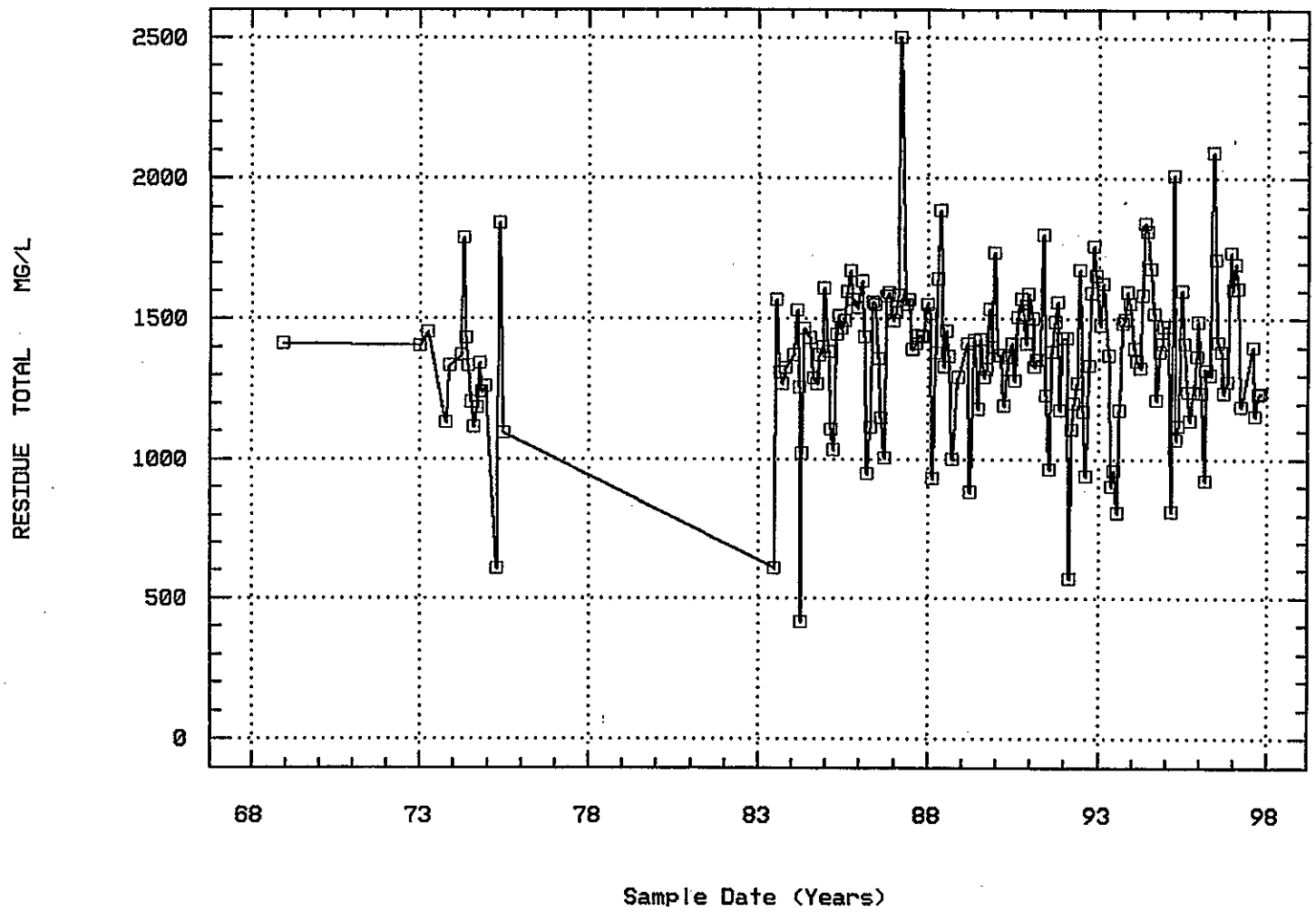
ALKALINITY, TOTAL (MG/L AS CACO3)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00500

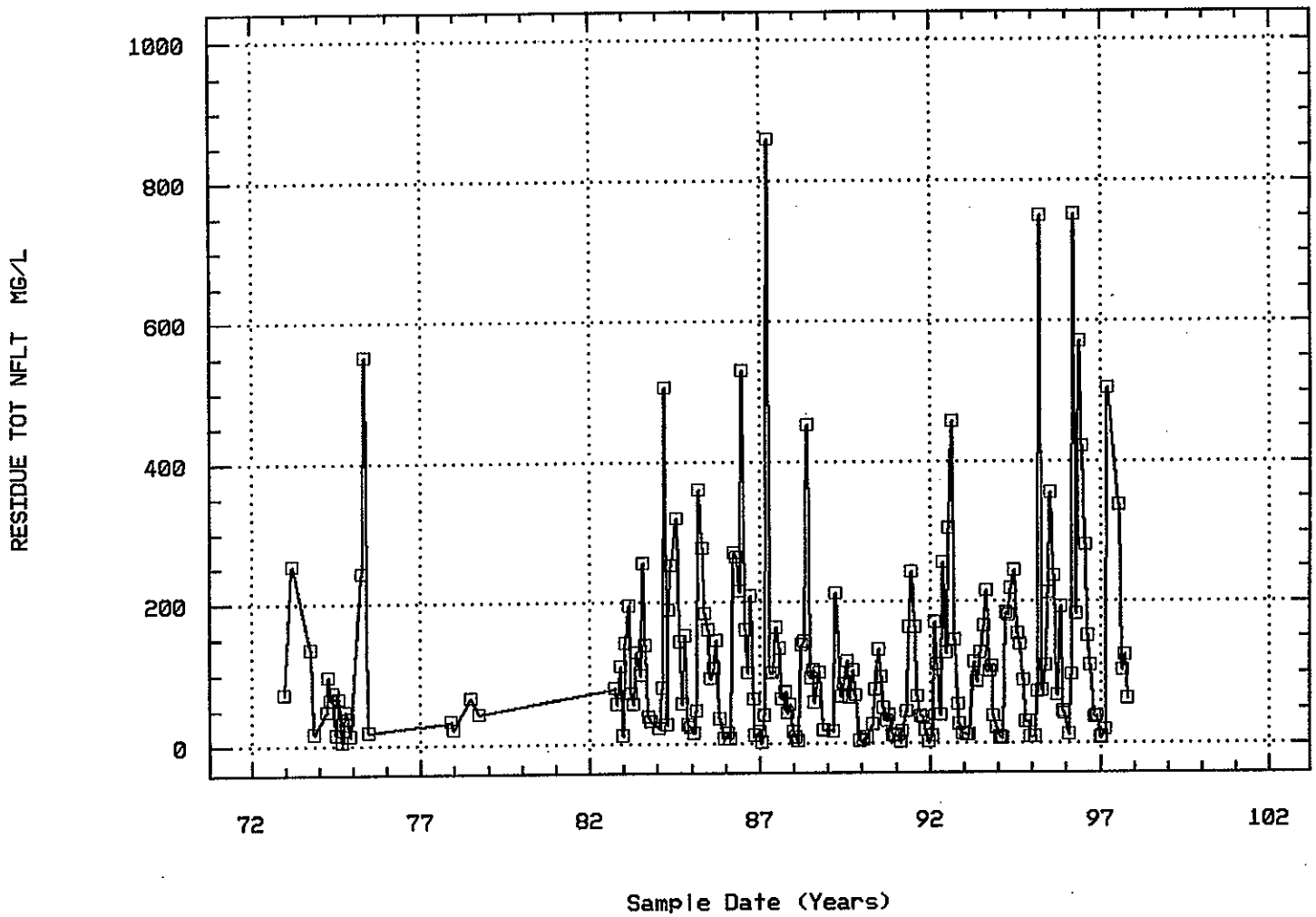
RESIDUE, TOTAL (MG/L)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00530

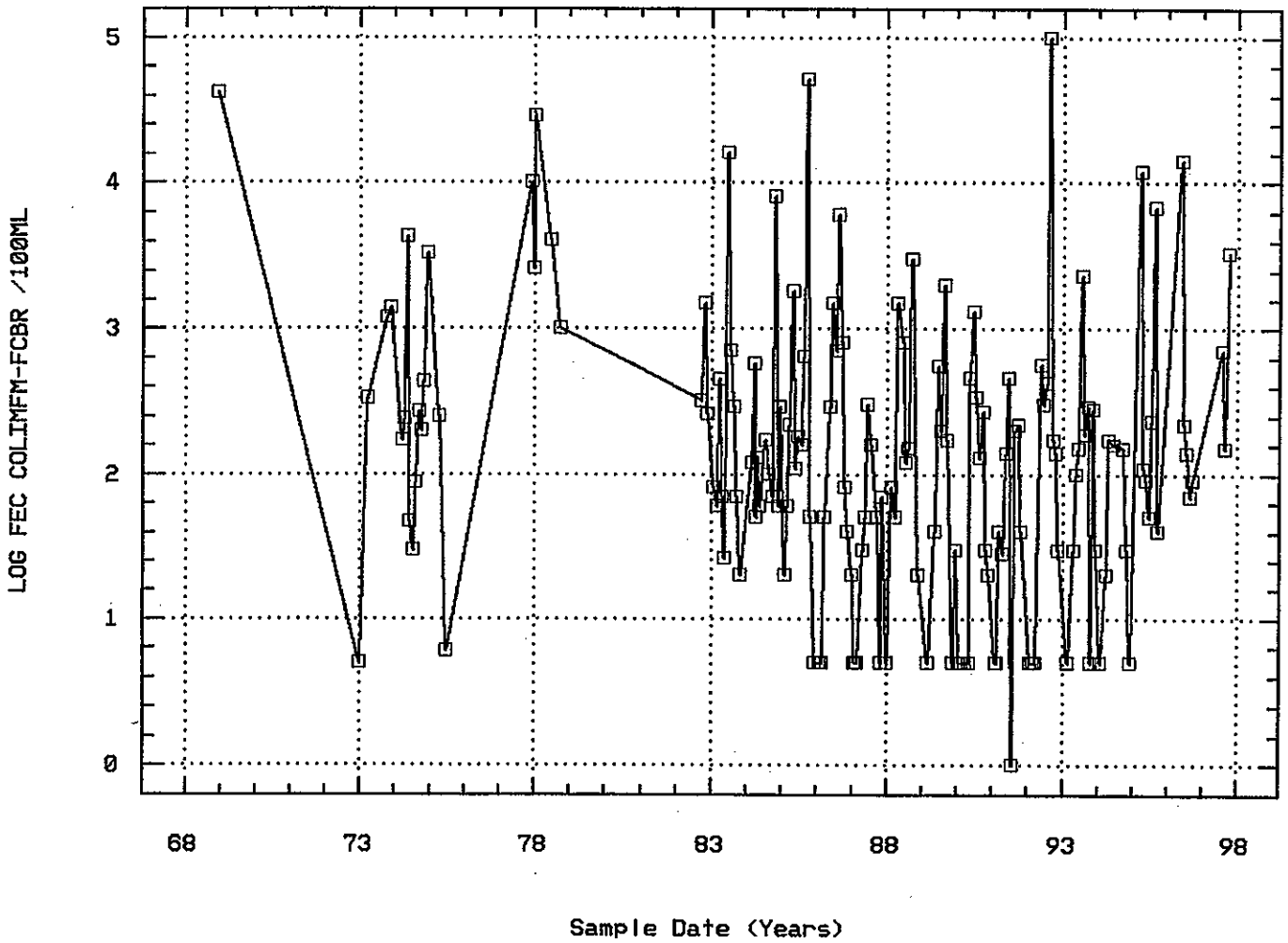
RESIDUE, TOTAL NONFILTRABLE (MG/L)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 31616

LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



VERMILLION R NEAR VERMILLION

Seasonal Analysis for Season #1: 11/20 to 1/14 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	19	1.	1.247	4.	-0.6	2.009	1.417	0.	0.	3.3	4.
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	26	35.	35.069	45.	31.	9.133	3.022	32.	32.75	37.25	38.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	18	-1.1	-1.228	7.	-12.2	38.206	6.181	2.2	5.025	-6.45	-10.22
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	25	27.	27.72	45.	10.	108.793	10.43	13.6	20.	37.	43.4
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	23	1653.	1648.087	1950.	1298.	25541.083	159.816	1375.2	1545.	1716.	1860.8
00300 OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	24	12.5	11.608	15.	5.3	6.711	2.591	7.15	10.85	13.4	14.05
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	23	7.83	7.791	8.3	6.2	0.173	0.416	7.5	7.65	8.	8.21
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	23	7.83	7.373	8.3	6.2	0.356	0.596	7.5	7.65	8.	8.21
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	23	0.015	0.042	0.631	0.005	0.017	0.129	0.006	0.01	0.022	0.032
00403p PH, LAB, STANDARD UNITS SU	12/11/68-08/23/94	13	7.8	7.762	8.	7.3	0.046	0.214	7.34	7.65	7.9	8.
00403p CONVERTED PH, LAB, STANDARD UNITS	12/11/68-08/23/94	13	7.8	7.705	8.	7.3	0.049	0.222	7.34	7.65	7.9	8.
00403p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/11/68-08/23/94	13	0.016	0.02	0.05	0.01	0.	0.012	0.01	0.013	0.023	0.046
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	20	289.	266.35	368.	0.	9290.661	96.388	25.3	256.25	304.75	343.6
00415p ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/11/68-08/23/94	5	0.	98.8	282.	0.	18915.2	137.533	**	**	**	**
00500p RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	22	1481.5	1491.227	1734.	1261.	16447.708	128.249	1315.2	1401.25	1591.	1710.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	25	17.	24.04	110.	1.	574.707	23.973	3.2	9.5	31.	55.8
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	19	0.1	0.294	1.54	0.01	0.219	0.468	0.01	0.04	0.23	1.41
00630p NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/68-10/22/97	16	0.15	0.381	1.5	0.	0.203	0.45	0.	0.063	0.575	1.29
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	14	0.066	0.072	0.122	0.037	0.001	0.028	0.04	0.047	0.098	0.117
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/77-04/25/95	13	0.015	0.025	0.161	0.003	0.002	0.042	0.003	0.007	0.022	0.109
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/11/68-02/28/95	12	912.5	953.333	1155.	787.	14194.788	119.142	807.1	872.25	1057.5	1153.5
00916p CALCIUM, TOTAL (MG/L AS CA)	12/11/68-08/27/97	3	222.7	223.667	228.3	220.	17.923	4.234	**	**	**	**
00927p MAGNESIUM, TOTAL (MG/L AS MG)	12/11/68-08/27/97	3	68.	67.333	77.8	56.2	116.973	10.815	**	**	**	**
00929p SODIUM, TOTAL (MG/L AS NA)	12/11/68-08/27/97	3	61.	61.413	68.5	54.74	47.463	6.889	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	22	20.	3986.136	42000.	5.	113011647.457	10630.694	5.	8.75	867.5	23300.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	22	1.301	1.865	4.623	0.699	1.703	1.305	0.699	0.925	2.701	4.324
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		73.258								
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	19	1463.	1460.211	1730.	991.	28689.509	169.38	1275.	1382.	1577.	1697.
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/26/74-09/24/86	8	0.068	0.143	0.473	0.012	0.028	0.166	**	**	**	**

** - Less than 9 observations ## - Computed 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: 1/15 to 3/14 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	22	1.05	1.182	5.	-0.6	1.905	1.38	0.	0.	2.2	4.67
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	30	33.8	34.36	41.	31.	5.783	2.405	32.	32.75	36.	38.8
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	22	7.	1.227	10.	-16.7	47.407	6.885	2.2	3.75	-4.675	-4.77
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	30	36.	29.067	50.	-7.	215.72	14.687	-5.2	17.25	40.	44.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	28	1635.	1530.071	1995.	594.	102959.847	320.874	921.4	1523.25	1689.5	1827.
00300 OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	30	11.45	11.797	17.4	7.6	4.998	2.236	8.27	10.85	13.05	14.36
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	24	7.925	7.833	8.66	7.	0.148	0.384	7.225	7.643	8.125	8.2
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	24	7.924	7.658	8.66	7.	0.179	0.424	7.225	7.642	8.125	8.2
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	24	0.012	0.022	0.1	0.002	0.001	0.023	0.006	0.008	0.023	0.06
00403p PH, LAB, STANDARD UNITS SU	12/11/68-08/23/94	12	7.8	7.75	8.	7.3	0.037	0.193	7.36	7.65	7.875	7.97
00403p CONVERTED PH, LAB, STANDARD UNITS	12/11/68-08/23/94	12	7.8	7.704	8.	7.3	0.04	0.199	7.36	7.65	7.875	7.97
00403p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/11/68-08/23/94	12	0.016	0.02	0.05	0.01	0.	0.011	0.011	0.013	0.023	0.045
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	26	284.	250.346	411.	0.	10318.315	101.579	84.7	194.75	316.	334.6
00415p ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/11/68-08/23/94	4	274.5	247.5	309.	132.	6447.	80.293	**	**	**	**
00500p RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	28	1403.5	1355.	1693.	569.	70368.593	265.271	909.9	1336.25	1522.25	1626.6
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	30	12.	35.533	195.	2.	2635.499	51.337	4.1	8.	40.75	137.5
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	28	0.165	0.271	0.89	0.01	0.06	0.245	0.028	0.07	0.474	0.669
00630p NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/68-10/22/97	17	0.4	0.559	1.4	0.05	0.235	0.485	0.05	0.1	1.	1.24
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	26	0.077	0.137	0.631	0.028	0.025	0.157	0.034	0.041	0.16	0.397
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/77-04/25/95	19	0.011	0.062	0.612	0.003	0.021	0.145	0.003	0.003	0.032	0.216
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/11/68-02/28/95	13	920.	846.538	1105.	219.	56961.769	238.667	313.4	870.	962.5	1051.
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	23##	5.	24.13	120.	5.	1074.209	32.775	5.	5.	40.	80.

** - Less than 9 observations ## - Computed 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: 1/15 to 3/14 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	23##	0.699	1.062	2.079	0.699	0.252	0.502	0.699	0.699	1.602	1.903
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		11.541								
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	26	1409.	1307.615	1684.	399.	112562.726	335.504	683.4	1303.	1513.5	1615.6
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/26/74-09/24/86	6	0.221	0.193	0.365	0.02	0.02	0.142	**	**	**	**

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

Seasonal Analysis for Season #3: 3/15 to 7/14 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	47	17.	15.528	26.7	2.	55.697	7.463	5.36	8.3	22.2	26.
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	58	63.	60.6	83.	36.	176.88	13.3	41.8	47.	72.	78.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	47	18.9	18.249	33.	2.2	73.175	8.554	5.	12.2	25.6	28.9
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	58	67.	64.159	90.	30.	265.929	16.307	37.9	54.	78.25	84.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	58	1404.	1337.138	1938.	468.	97756.577	312.66	899.1	1152.5	1534.5	1706.9
00300 OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	63	9.3	9.402	18.7	3.5	6.687	2.586	6.14	7.7	10.8	12.16
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	53	8.	7.974	8.7	7.2	0.067	0.26	7.644	7.8	8.145	8.268
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	53	8.	7.893	8.7	7.2	0.074	0.272	7.644	7.8	8.145	8.268
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	53	0.01	0.013	0.063	0.002	0.	0.01	0.005	0.007	0.016	0.023
00403p PH, LAB, STANDARD UNITS SU	12/11/68-08/23/94	37	8.	8.022	8.5	7.5	0.032	0.178	7.8	7.9	8.1	8.22
00403p CONVERTED PH, LAB, STANDARD UNITS	12/11/68-08/23/94	37	8.	7.985	8.5	7.5	0.033	0.182	7.8	7.9	8.1	8.22
00403p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/11/68-08/23/94	37	0.01	0.01	0.032	0.003	0.	0.005	0.006	0.008	0.013	0.016
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	52	218.5	212.558	762.	0.	10129.624	100.646	126.9	183.25	242.5	260.5
00415p ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/11/68-08/23/94	14	121.	102.214	265.	0.	9785.258	98.92	0.	0.	192.75	246.5
00500p RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	58	1367.5	1374.983	2498.	415.	135572.544	368.202	942.5	1162.25	1572.75	1841.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	63	160.	212.016	860.	1.	36087.467	189.967	45.6	84.	253.	520.
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	50	0.06	0.088	0.44	0.01	0.009	0.097	0.01	0.01	0.133	0.179
00630p NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/68-10/22/97	34	0.2	0.488	3.45	0.03	0.511	0.715	0.05	0.05	0.7	1.25
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	48	0.289	0.325	0.992	0.034	0.037	0.192	0.094	0.219	0.402	0.567
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/77-04/25/95	39	0.024	0.049	0.19	0.003	0.003	0.054	0.003	0.006	0.087	0.132
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/11/68-02/28/95	26	798.5	791.462	1127.	450.	25915.698	160.984	556.	687.5	872.5	1032.8
00916p CALCIUM, TOTAL (MG/L AS CA)	12/11/68-08/27/97	29	188.	181.334	257.2	67.	1567.536	39.592	120.	158.5	205.	229.9
00927p MAGNESIUM, TOTAL (MG/L AS MG)	12/11/68-08/27/97	29	78.3	75.338	114.	20.6	343.664	18.538	53.9	61.95	88.65	95.9
00929p SODIUM, TOTAL (MG/L AS NA)	12/11/68-08/27/97	29	45.	46.288	85.1	12.5	175.384	13.243	30.5	39.8	52.45	65.6
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	56	155.	1154.679	16000.	5.	10347431.895	3216.742	10.	47.75	460.	2490.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	56	2.19	2.191	4.204	0.699	0.731	0.855	1.	1.679	2.663	3.363
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		155.262								
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	44	1239.5	1182.136	1638.	566.	80100.027	283.019	707.	999.	1379.	1556.
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/26/74-09/24/86	16	0.134	0.127	0.203	0.026	0.002	0.045	0.067	0.095	0.165	0.19

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

Seasonal Analysis for Season #4: 7/15 to 11/19 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	58	16.8	16.405	29.4	0.	59.854	7.737	5.96	10.	24.	26.73
00011p TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	66	63.5	63.197	85.	32.	184.867	13.597	45.7	50.	76.	80.3
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	56	19.5	19.968	36.	-1.	79.542	8.919	8.39	14.4	26.925	31.37
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	69	68.	67.	97.	22.	296.176	17.21	42.	58.	81.5	86.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	68	1442.	1410.868	1980.	148.	78124.743	279.508	1119.8	1267.75	1579.5	1709.7
00300 OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	71	8.8	9.013	16.4	3.8	6.304	2.511	6.02	6.9	10.6	12.52
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	63	8.	8.009	8.65	6.95	0.066	0.256	7.74	7.87	8.13	8.328
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	63	8.	7.914	8.65	6.95	0.075	0.273	7.74	7.87	8.13	8.328
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	63	0.01	0.012	0.112	0.002	0.	0.014	0.005	0.007	0.013	0.018
00403p PH, LAB, STANDARD UNITS SU	12/11/68-08/23/94	42	8.	7.993	8.3	7.7	0.022	0.147	7.8	7.9	8.1	8.2

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

Seasonal Analysis for Season #4: 7/15 to 11/19 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403p CONVERTED PH, LAB, STANDARD UNITS	12/11/68-08/23/94	42	8.	7.968	8.3	7.7	0.022	0.149	7.8	7.9	8.1	8.2
00403p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/11/68-08/23/94	42	0.01	0.011	0.02	0.005	0.	0.004	0.006	0.008	0.013	0.016
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	63	241.	236.365	524.	0.	5345.107	73.11	182.8	209.	272.	291.6
00415p ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/11/68-08/23/94	16	39.5	114.75	274.	0.	15970.067	126.373	0.	0.	254.75	269.8
00500p RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	71	1368.	1350.	1761.	807.	35454.686	188.294	1130.	1235.	1495.	1588.8
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	74	90.	110.135	456.	5.	8151.488	90.286	30.5	42.75	146.	245.5
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	61	0.02	0.043	0.22	0.01	0.002	0.045	0.01	0.01	0.07	0.11
00630p NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/68-10/22/97	43	0.18	0.347	1.4	0.05	0.138	0.372	0.05	0.05	0.54	1.06
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	58	0.193	0.235	0.651	0.039	0.023	0.151	0.087	0.132	0.288	0.477
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/77-04/25/95	46	0.019	0.04	0.255	0.003	0.003	0.051	0.006	0.01	0.052	0.125
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/11/68-02/28/95	33	807.	806.97	1105.	359.	31424.905	177.271	536.4	715.	950.	1034.8
00916p CALCIUM, TOTAL (MG/L AS CA)	12/11/68-08/27/97	37	178.	176.632	264.	88.6	1454.629	38.14	126.2	153.6	197.	233.58
00927p MAGNESIUM, TOTAL (MG/L AS MG)	12/11/68-08/27/97	37	67.8	66.281	94.3	33.4	143.287	11.97	51.58	59.35	74.25	81.06
00929p SODIUM, TOTAL (MG/L AS NA)	12/11/68-08/27/97	38	44.7	43.861	58.4	20.9	92.69	9.628	29.88	39.3	50.525	57.13
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	68	170.	2925.397	100000.	0.	183684624.75	13553.03	29.	70.	685.	3030.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	68	2.23	2.324	5.	0.	0.76	0.872	1.46	1.845	2.835	3.481
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	210.947								
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	52	1224.	1228.038	1735.	482.	66642.94	258.153	877.	1056.25	1454.5	1536.9
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	03/26/74-09/24/86	14	0.132	0.156	0.366	0.009	0.016	0.127	0.014	0.044	0.299	0.366

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

Annual Analysis for 1968 - Station MNRR0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)		12/11/68-10/22/97	1	45.	45.	45.	45.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		12/11/68-10/22/97	1	1670.	1670.	1670.	1670.	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS	SU	12/11/68-08/23/94	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		12/11/68-08/23/94	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/11/68-08/23/94	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		12/11/68-10/22/97	1	304.	304.	304.	304.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)		12/11/68-10/22/97	1	1413.	1413.	1413.	1413.	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		12/11/68-10/22/97	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		12/11/68-02/28/95	1	879.	879.	879.	879.	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	1	42000.	42000.	42000.	42000.	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	1	4.623	4.623	4.623	4.623	0.	0.	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		42000.									

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

Annual Analysis for 1972 - Station MNRR0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/27/72-11/01/95	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		12/11/68-10/22/97	1	1520.	1520.	1520.	1520.	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS	SU	12/11/68-08/23/94	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		12/11/68-08/23/94	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/11/68-08/23/94	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		12/11/68-10/22/97	1	253.	253.	253.	253.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)		12/11/68-10/22/97	1	1402.	1402.	1402.	1402.	0.	0.	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		12/27/72-10/22/97	1	72.	72.	72.	72.	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		12/11/68-10/22/97	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		12/11/68-02/28/95	1	854.	854.	854.	854.	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	1##	0.699	0.699	0.699	0.699	0.	0.	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		5.									

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

Annual Analysis for 1973 - Station MNRR0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/27/72-11/01/95	2	7.5	7.5	9.	6.	4.5	2.121	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		03/26/73-02/16/94	2	16.5	16.5	18.	15.	4.5	2.121	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		12/11/68-10/22/97	3	1362.	1364.	1490.	1240.	15628.	125.012	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	03/26/73-10/22/97	2	9.1	9.1	13.2	5.	33.62	5.798	**	**	**	**
00400 PH (STANDARD UNITS)		11/12/73-10/22/97	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		11/12/73-10/22/97	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/12/73-10/22/97	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS	SU	12/11/68-08/23/94	3	8.	7.9	8.	7.7	0.03	0.173	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		12/11/68-08/23/94	3	8.	7.876	8.	7.7	0.031	0.176	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/11/68-08/23/94	3	0.01	0.013	0.02	0.01	0.	0.006	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		12/11/68-10/22/97	3	198.	220.667	272.	192.	1985.333	44.557	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)		12/11/68-10/22/97	3	1332.	1303.667	1451.	1128.	26684.333	163.353	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		12/27/72-10/22/97	3	136.	135.	253.	16.	14043.	118.503	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		12/11/68-10/22/97	3	1.25	1.567	2.3	1.15	0.406	0.637	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		12/11/68-02/28/95	3	824.	852.333	913.	820.	2764.333	52.577	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	3	1200.	976.667	1400.	330.	323633.333	568.888	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	3	3.079	2.915	3.146	2.519	0.119	0.345	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		821.5									

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

Annual Analysis for 1974 - Station MNRR0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/27/72-11/01/95	10	11.5	13.4	29.	2.	98.489	9.924	2.	3.5	23.	28.7
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)		12/11/68-10/22/97	3	50.	50.	64.	36.	196.	14.	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		03/26/73-02/16/94	10	14.	14.7	30.	5.	67.789	8.233	5.1	6.75	20.25	29.4
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)		09/16/74-10/22/97	3	61.	56.667	64.	45.	104.333	10.214	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		12/11/68-10/22/97	10	1394.5	1370.5	1724.	1188.	30144.5	173.622	1189.2	1204.5	1463.75	1699.7
00300p OXYGEN, DISSOLVED	MG/L	03/26/73-10/22/97	9	10.4	11.244	18.7	5.7	21.8	4.669	5.7	6.6	15.65	18.7
00400 PH (STANDARD UNITS)		11/12/73-10/22/97	5	7.8	7.92	8.5	7.5	0.137	0.37	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		11/12/73-10/22/97	5	7.8	7.815	8.5	7.5	0.151	0.388	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/12/73-10/22/97	5	0.016	0.015	0.032	0.003	0.	0.011	**	**	**	**
00403 PH, LAB, STANDARD UNITS	SU	12/11/68-08/23/94	10	7.95	7.92	8.3	7.7	0.033	0.181	7.7	7.775	8.	8.27
00403 CONVERTED PH, LAB, STANDARD UNITS		12/11/68-08/23/94	10	7.947	7.889	8.3	7.7	0.034	0.184	7.7	7.775	8.	8.27
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/11/68-08/23/94	10	0.011	0.013	0.02	0.005	0.	0.005	0.006	0.01	0.017	0.02
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		12/11/68-10/22/97	10	245.5	249.2	297.	200.	1199.067	34.628	200.9	216.5	280.75	296.2
00500 RESIDUE, TOTAL (MG/L)		12/11/68-10/22/97	10	1298.	1327.2	1790.	1112.	35668.4	188.861	1119.1	1199.5	1386.25	1754.2
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		12/27/72-10/22/97	10	47.5	46.4	96.	5.	856.933	29.273	5.8	14.5	67.	93.7
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		12/11/68-10/22/97	10	0.16	0.277	0.55	0.03	0.046	0.215	0.035	0.11	0.51	0.549
00900 HARDNESS, TOTAL (MG/L AS CACO3)		12/11/68-02/28/95	9	820.	838.111	1127.	699.	15961.611	126.339	699.	751.	887.	1127.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	10	220.	907.4	4300.	30.	2393470.044	1547.084	31.7	77.	1147.5	4200.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	10	2.341	2.422	3.633	1.477	0.495	0.704	1.497	1.873	2.855	3.622
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		264.073									

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

Annual Analysis for 1975 - Station MNRR0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)		12/11/68-10/22/97	3	63.	61.2	80.6	40.	414.52	20.36	**	**	**	**
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)		09/16/74-10/22/97	3	68.	64.4	75.2	50.	168.48	12.98	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		12/11/68-10/22/97	3	1295.	1045.333	1373.	468.	251506.333	501.504	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	03/26/73-10/22/97	3	9.	10.667	16.	7.	22.333	4.726	**	**	**	**
00400 PH (STANDARD UNITS)		11/12/73-10/22/97	3	8.	7.833	8.	7.5	0.083	0.289	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		11/12/73-10/22/97	3	8.	7.764	8.	7.5	0.09	0.301	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/12/73-10/22/97	3	0.01	0.017	0.032	0.01	0.	0.012	**	**	**	**
00403 PH, LAB, STANDARD UNITS	SU	12/11/68-08/23/94	3	8.1	8.1	8.3	7.9	0.04	0.2	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		12/11/68-08/23/94	3	8.1	8.07	8.3	7.9	0.041	0.203	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/11/68-08/23/94	3	0.008	0.009	0.013	0.005	0.	0.004	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		12/11/68-10/22/97	3	176.	165.667	181.	140.	500.333	22.368	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)		12/11/68-10/22/97	3	1094.	1180.333	1841.	606.	386896.333	622.01	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		12/27/72-10/22/97	3	242.	270.333	551.	18.	71624.333	267.627	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		12/11/68-10/22/97	3##	0.5	1.483	3.45	0.5	2.901	1.703	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		12/11/68-02/28/95	2	709.	709.	750.	668.	3362.	57.983	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	3	10.	88.667	250.	6.	19525.333	139.733	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	3	1.	1.392	2.398	0.778	0.771	0.878	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		24.662									

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	2	2.75	2.75	3.3	2.2	0.605	0.778	**	**	**	**
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	2	37.	37.	38.	36.	2.	1.414	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	2	-4.45	-4.45	-1.1	-7.8	22.445	4.738	**	**	**	**
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	2	24.	24.	30.	18.	72.	8.485	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	2	1485.	1485.	1650.	1320.	54450.	233.345	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300p OXYGEN, DISSOLVED	MG/L	03/26/73-10/22/97	2	9.5	9.5	11.	8.	4.5	2.121	**	**	**	**
00400 PH (STANDARD UNITS)		11/12/73-10/22/97	2	7.7	7.7	7.8	7.6	0.02	0.141	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		11/12/73-10/22/97	2	7.689	7.689	7.8	7.6	0.02	0.142	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/12/73-10/22/97	2	0.02	0.02	0.025	0.016	0.	0.007	**	**	**	**
00403 PH, LAB, STANDARD UNITS	SU	12/11/68-08/23/94	2	7.75	7.75	7.9	7.6	0.045	0.212	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		12/11/68-08/23/94	2	7.725	7.725	7.9	7.6	0.046	0.215	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/11/68-08/23/94	2	0.019	0.019	0.025	0.013	0.	0.009	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		12/27/72-10/22/97	2	27.	27.	33.	21.	72.	8.485	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		12/01/77-10/22/97	2	1.19	1.19	1.41	0.97	0.097	0.311	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		12/11/68-10/22/97	2	0.65	0.65	0.8	0.5	0.045	0.212	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		12/01/77-04/25/95	1	0.161	0.161	0.161	0.161	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	2	6300.	6300.	10000.	2600.	27380000.	5232.59	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	2	3.707	3.707	4.	3.415	0.171	0.414	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		5099.02									

** - 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 box-and-whisker plot

Annual Analysis for 1978 - Station MNRR0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/27/72-11/01/95	3	18.3	15.2	26.7	0.6	177.51	13.323	**	**	**	**
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)		12/11/68-10/22/97	3	65.	59.333	80.	33.	576.333	24.007	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		03/26/73-02/16/94	3	20.	13.5	26.1	-5.6	282.91	16.82	**	**	**	**
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)		09/16/74-10/22/97	3	68.	56.333	79.	22.	914.333	30.238	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		12/11/68-10/22/97	3	1210.	1310.	1650.	1070.	91600.	302.655	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	03/26/73-10/22/97	3	5.9	6.933	9.6	5.3	5.423	2.329	**	**	**	**
00400 PH (STANDARD UNITS)		11/12/73-10/22/97	3	7.7	7.233	7.8	6.2	0.803	0.896	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		11/12/73-10/22/97	3	7.7	6.653	7.8	6.2	1.308	1.144	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/12/73-10/22/97	3	0.02	0.222	0.631	0.016	0.125	0.354	**	**	**	**
00403 PH, LAB, STANDARD UNITS	SU	12/11/68-08/23/94	3	7.7	7.667	8.	7.3	0.123	0.351	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		12/11/68-08/23/94	3	7.7	7.574	8.	7.3	0.136	0.369	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/11/68-08/23/94	3	0.02	0.027	0.05	0.01	0.	0.021	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		12/27/72-10/22/97	2	54.5	54.5	66.	43.	264.5	16.263	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		12/01/77-10/22/97	3	0.16	0.59	1.54	0.07	0.679	0.824	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		12/11/68-10/22/97	3	0.3	0.367	0.7	0.1	0.093	0.306	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		12/01/77-04/25/95	1	0.053	0.053	0.053	0.053	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	3	4100.	11366.667	29000.	1000.	235603333.333	15349.376	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	3	3.613	3.692	4.462	3.	0.539	0.734	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		4917.307									

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/27/72-11/01/95	4	5.3	6.825	16.7	0.	64.309	8.019	**	**	**	**
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)		12/11/68-10/22/97	4	41.5	44.25	62.	32.	208.25	14.431	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		03/26/73-02/16/94	4	7.8	10.575	21.1	-1.1	103.116	10.155	**	**	**	**
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)		09/16/74-10/22/97	4	52.	51.	70.	30.	334.667	18.294	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		12/11/68-10/22/97	4	1391.5	1405.75	1674.	1166.	49109.583	221.607	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	03/26/73-10/22/97	4	10.25	10.425	12.5	8.7	2.823	1.68	**	**	**	**
00400 PH (STANDARD UNITS)		11/12/73-10/22/97	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		11/12/73-10/22/97	1	7.8	7.8	7.8	7.8	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/12/73-10/22/97	1	0.016	0.016	0.016	0.016	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS	SU	12/11/68-08/23/94	4	7.85	7.875	8.	7.8	0.009	0.096	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 CONVERTED PH, LAB, STANDARD UNITS	12/11/68-08/23/94	4	7.847	7.867	8.	7.8	0.009	0.096	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/11/68-08/23/94	4	0.014	0.014	0.016	0.01	0.	0.003	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	4	66.5	63.75	110.	12.	1698.917	41.218	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	4	0.1	0.115	0.17	0.09	0.001	0.037	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	3	320.	693.333	1500.	260.	488933.333	699.238	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	3	2.505	2.699	3.176	2.415	0.173	0.416	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		499.733									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	4	1098.5	1127.75	1323.	991.	27215.583	164.971	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	10	13.35	12.94	24.4	0.	94.732	9.733	0.06	3.45	22.625	24.35
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	10	56.	55.3	76.	32.	307.344	17.531	32.1	38.25	72.75	75.9
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	10	20.8	15.27	30.	-11.1	169.762	13.029	4.4	10.7	28.35	-6.99
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	10	62.5	59.5	86.	12.	549.833	23.449	14.8	40.	81.25	85.6
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	10	1434.	1316.3	1820.	636.	143684.233	379.057	652.3	955.75	1569.25	1801.3
00300p OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	10	9.6	9.2	12.1	5.5	4.458	2.111	5.6	7.475	10.95	12.
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	5	7.8	7.7	8.1	6.95	0.229	0.478	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	5	7.8	7.463	8.1	6.95	0.299	0.547	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	5	0.016	0.034	0.112	0.008	0.002	0.044	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	12/11/68-08/23/94	10	7.9	7.85	8.2	7.3	0.103	0.321	7.32	7.5	8.125	8.2
00403 CONVERTED PH, LAB, STANDARD UNITS	12/11/68-08/23/94	10	7.9	7.738	8.2	7.3	0.117	0.342	7.32	7.5	8.125	8.2
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/11/68-08/23/94	10	0.013	0.018	0.05	0.006	0.	0.015	0.006	0.008	0.032	0.048
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	6	0.	0.	0.	0.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	5	1311.	1215.2	1568.	604.	130542.7	361.307	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	10	113.	115.4	255.	32.	5140.267	71.696	32.6	51.5	155.25	249.
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	10	0.09	0.148	0.66	0.01	0.04	0.199	0.01	0.018	0.175	0.622
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	9	0.247	0.304	0.566	0.132	0.024	0.154	0.132	0.17	0.436	0.566
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	10	75.	1776.6	16000.	20.	25026044.489	5002.604	20.6	51.5	512.5	14470.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	10	1.874	2.225	4.204	1.301	0.738	0.859	1.312	1.687	2.701	4.068
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		167.968									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	5	1060.	1020.2	1457.	556.	142028.7	376.867	**	**	**	**

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

Annual Analysis for 1984 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	12	7.1	9.45	25.	0.	80.955	8.998	0.18	1.375	17.575	24.7
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	12	45.	48.833	76.	32.	257.788	16.056	32.3	34.5	63.5	75.7
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	12	-4.	12.175	35.	-6.	149.537	12.229	4.58	7.25	21.775	32.9
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	12	48.	54.	95.	22.	481.636	21.946	23.8	40.25	71.5	91.1
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	12	1473.5	1371.5	1847.	571.	127054.273	356.447	689.2	1092.25	1594.	1793.9
00300p OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	12	10.8	10.442	13.6	6.5	4.441	2.107	6.86	8.525	11.975	13.27
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	12	7.725	7.746	8.1	7.3	0.038	0.196	7.405	7.65	7.85	8.055
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	12	7.724	7.702	8.1	7.3	0.04	0.201	7.405	7.65	7.85	8.055
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	12	0.019	0.02	0.05	0.008	0.	0.011	0.009	0.014	0.022	0.042
00403 PH, LAB, STANDARD UNITS SU	12/11/68-08/23/94	12	8.	8.008	8.2	7.8	0.019	0.138	7.8	7.9	8.1	8.2
00403 CONVERTED PH, LAB, STANDARD UNITS	12/11/68-08/23/94	12	8.	7.988	8.2	7.8	0.019	0.14	7.8	7.9	8.1	8.2
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/11/68-08/23/94	12	0.01	0.01	0.016	0.006	0.	0.003	0.006	0.008	0.013	0.016
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	6	252.	255.333	305.	216.	1205.067	34.714	**	**	**	**

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

Annual Analysis for 1984 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00500 RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	12	1371.5	1285.417	1610.	415.	97887.356	312.87	595.9	1259.75	1457.5	1585.7
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	12	111.	149.333	505.	22.	22190.242	148.964	22.3	26.	236.	449.5
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	12	0.12	0.221	0.89	0.02	0.068	0.261	0.02	0.04	0.388	0.761
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	12	0.187	0.259	0.742	0.034	0.053	0.231	0.036	0.099	0.349	0.715
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/77-04/25/95	2	0.09	0.09	0.111	0.068	0.001	0.03	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	12	110.	802.5	8000.	10.	5160529.545	2271.68	22.	60.	260.	5771.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	12	2.04	2.137	3.903	1.	0.497	0.705	1.21	1.778	2.404	3.559
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		137.123									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	1	1214.	1214.	1214.	1214.	0.	0.	**	**	**	**

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

Annual Analysis for 1985 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	11	13.	13.545	26.	0.	95.473	9.771	0.	1.	22.	25.8
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	11	56.	56.182	78.	32.	299.964	17.319	32.	33.	71.	77.6
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	11	23.	16.545	33.	-10.	164.073	12.809	5.4	17.	27.	-1.4
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	11	68.	61.727	90.	14.	533.218	23.092	17.2	44.	76.	88.2
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	11	1427.	1447.455	1716.	855.	63554.273	252.1	938.4	1281.	1665.	1710.8
00300p OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	11	10.	9.627	12.1	5.5	4.052	2.013	5.9	8.6	11.6	12.08
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	9	8.1	8.022	8.2	7.6	0.036	0.189	7.6	7.925	8.15	8.2
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	9	8.1	7.979	8.2	7.6	0.038	0.194	7.6	7.925	8.15	8.2
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	9	0.008	0.011	0.025	0.006	0.	0.006	0.006	0.007	0.012	0.025
00403 PH, LAB, STANDARD UNITS SU	12/11/68-08/23/94	11	8.	7.982	8.1	7.8	0.01	0.098	7.82	7.9	8.1	8.1
00403 CONVERTED PH, LAB, STANDARD UNITS	12/11/68-08/23/94	11	8.	7.972	8.1	7.8	0.01	0.099	7.82	7.9	8.1	8.1
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/11/68-08/23/94	11	0.01	0.011	0.016	0.008	0.	0.002	0.008	0.008	0.013	0.015
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	11	235.	241.818	344.	142.	3571.564	59.763	150.4	188.	278.	339.2
00500 RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	11	1495.	1436.182	1671.	1031.	39507.964	198.766	1045.4	1383.	1566.	1655.8
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	11	106.	129.636	360.	7.	12493.255	111.773	8.6	34.	184.	343.2
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	11	0.09	0.192	0.75	0.02	0.054	0.232	0.02	0.03	0.27	0.696
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	10	0.17	0.199	0.439	0.081	0.015	0.121	0.081	0.086	0.306	0.428
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/77-04/25/95	8	0.024	0.048	0.143	0.009	0.003	0.051	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	11	160.	5022.273	52000.	5.	243031916.818	15589.481	8.	50.	640.	41960.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	11	2.204	2.282	4.716	0.699	1.128	1.062	0.819	1.699	2.806	4.424
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		191.257									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	3	1530.	1517.	1532.	1489.	589.	24.269	**	**	**	**

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

Annual Analysis for 1986 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	12	13.7	12.5	27.	0.	110.338	10.504	0.	0.15	22.75	26.7
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	12	57.	54.583	81.	32.	358.265	18.928	32.	32.25	73.	80.1
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	12	17.	14.658	32.	-4.	131.575	11.471	3.64	-1.75	23.5	30.2
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	12	62.5	58.083	89.	24.	425.174	20.62	25.8	38.	74.	85.7
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	12	1405.5	1384.	1764.	904.	93491.091	305.763	915.1	1084.	1648.75	1744.8
00300p OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	12	9.5	9.75	13.4	6.1	7.108	2.666	6.22	7.6	12.875	13.34
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	9	8.	7.95	8.25	7.65	0.038	0.195	7.65	7.75	8.075	8.25
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	9	8.	7.911	8.25	7.65	0.04	0.2	7.65	7.75	8.075	8.25
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	9	0.01	0.012	0.022	0.006	0.	0.006	0.006	0.008	0.018	0.022
00403 PH, LAB, STANDARD UNITS SU	12/11/68-08/23/94	12	7.9	7.917	8.1	7.8	0.011	0.103	7.8	7.8	8.	8.07
00403 CONVERTED PH, LAB, STANDARD UNITS	12/11/68-08/23/94	12	7.9	7.906	8.1	7.8	0.011	0.104	7.8	7.8	8.	8.07
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/11/68-08/23/94	12	0.013	0.012	0.016	0.008	0.	0.003	0.009	0.01	0.016	0.016

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

Annual Analysis for 1986 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	12	271.5	249.583	334.	146.	4649.538	68.188	146.9	187.	307.	330.7
00500 RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	12	1465.5	1367.667	1632.	947.	61762.242	248.52	964.1	1122.25	1574.75	1619.7
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	12	130.	154.75	530.	6.	24118.205	155.3	7.5	15.5	251.5	452.
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	12	0.085	0.106	0.29	0.02	0.007	0.085	0.02	0.03	0.138	0.275
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	12	0.211	0.229	0.468	0.064	0.019	0.137	0.07	0.107	0.334	0.463
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/77-04/25/95	11	0.036	0.052	0.19	0.003	0.003	0.054	0.004	0.011	0.072	0.169
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	11	80.	862.727	6000.	5.	3128776.818	1768.835	5.	20.	800.	5100.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	11	1.903	2.097	3.778	0.699	1.032	1.016	0.699	1.301	2.903	3.658
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		125.05									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	12	1271.	1212.917	1617.	677.	107554.629	327.955	712.7	893.75	1507.75	1605.9

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

Annual Analysis for 1987 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	12	11.5	11.933	29.	0.	91.662	9.574	0.	4.325	18.9	28.1
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	12	53.	53.583	84.	32.	296.629	17.223	32.	39.75	66.	82.5
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	12	13.5	13.958	36.	-3.3	139.819	11.825	1.76	5.7	23.85	33.3
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	12	56.5	57.083	97.	26.	452.083	21.262	28.4	38.75	75.	91.9
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	12	1646.5	1598.917	1732.	1339.	16373.356	127.958	1357.3	1527.25	1712.5	1727.2
00300p OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	12	10.4	10.383	13.5	6.9	5.052	2.248	6.99	8.65	12.75	13.35
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	10	8.1	8.075	8.3	7.85	0.015	0.123	7.86	7.988	8.15	8.285
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	10	8.1	8.059	8.3	7.85	0.015	0.124	7.86	7.988	8.15	8.285
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	10	0.008	0.009	0.014	0.005	0.	0.003	0.005	0.007	0.01	0.014
00403 PH, LAB, STANDARD UNITS SU	12/11/68-08/23/94	12	8.	7.967	8.1	7.8	0.019	0.137	7.8	7.8	8.1	8.1
00403 CONVERTED PH, LAB, STANDARD UNITS	12/11/68-08/23/94	12	8.	7.947	8.1	7.8	0.019	0.139	7.8	7.8	8.1	8.1
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/11/68-08/23/94	12	0.01	0.011	0.016	0.008	0.	0.004	0.008	0.008	0.016	0.016
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	12	251.5	253.667	316.	202.	1042.242	32.284	205.9	231.5	276.	309.4
00500 RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	11	1523.	1581.273	2498.	1393.	97112.018	311.628	1396.4	1438.	1569.	2315.
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	12	67.	137.083	860.	2.	54039.902	232.465	6.2	39.75	125.5	651.2
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	12	0.03	0.051	0.18	0.01	0.002	0.049	0.01	0.013	0.07	0.153
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/68-10/22/97	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	12	0.153	0.207	0.864	0.068	0.047	0.216	0.071	0.092	0.212	0.684
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/77-04/25/95	12	0.007	0.023	0.131	0.003	0.001	0.037	0.003	0.005	0.027	0.108
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	10	40.	68.	300.	5.	8917.778	94.434	5.	5.	92.5	286.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	10	1.588	1.42	2.477	0.699	0.461	0.679	0.699	0.699	1.935	2.45
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		26.286									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	6	1527.5	1518.5	1630.	1384.	6367.9	79.799	**	**	**	**

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

Annual Analysis for 1988 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	10	13.3	13.32	29.4	0.	110.953	10.533	0.11	2.75	21.4	29.02
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	10	56.	56.	85.	32.	359.556	18.962	32.2	37.	70.5	84.3
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	10	15.55	11.33	35.6	-16.7	250.158	15.816	3.64	8.725	30.575	-11.47
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	10	52.5	52.4	96.	2.	808.044	28.426	3.8	33.5	74.25	94.8
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	10	1442.	1414.2	1683.	1050.	37301.067	193.135	1058.9	1297.25	1554.	1672.8
00300p OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	10	8.3	9.22	13.	6.4	5.344	2.312	6.43	7.375	11.4	12.84
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	9	8.11	7.898	8.2	7.2	0.156	0.395	7.2	7.555	8.16	8.2
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	9	8.11	7.703	8.2	7.2	0.199	0.446	7.2	7.555	8.16	8.2
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	9	0.008	0.02	0.063	0.006	0.001	0.023	0.006	0.007	0.035	0.063
00403 PH, LAB, STANDARD UNITS SU	12/11/68-08/23/94	9	7.9	7.933	8.1	7.6	0.027	0.166	7.6	7.85	8.1	8.1

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

Annual Analysis for 1988 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 CONVERTED PH, LAB, STANDARD UNITS	12/11/68-08/23/94	9	7.9	7.903	8.1	7.6	0.029	0.169	7.6	7.85	8.1	8.1
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/11/68-08/23/94	9	0.013	0.013	0.025	0.008	0.	0.005	0.008	0.008	0.014	0.025
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	10	239.	287.7	762.	197.	28908.678	170.026	197.	205.25	269.5	717.1
00500 RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	10	1374.5	1380.2	1886.	927.	79020.844	281.106	934.1	1219.25	1550.25	1861.5
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	10	96.	112.1	452.	4.	16893.433	129.975	4.5	15.75	141.	421.2
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	10	0.1	0.18	0.59	0.03	0.037	0.193	0.034	0.07	0.248	0.579
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/68-10/22/97	5	0.3	0.34	0.6	0.1	0.043	0.207	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	9	0.193	0.25	0.614	0.061	0.037	0.192	0.061	0.122	0.39	0.614
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/77-04/25/95	10	0.014	0.082	0.612	0.003	0.035	0.188	0.003	0.005	0.071	0.558
00900 HARDNESS, TOTAL (MG/L AS CACO3)	12/11/68-02/28/95	2	747.	747.	870.	624.	30258.	173.948	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	8	135.	715.	3000.	20.	1120914.286	1058.732	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	8	2.128	2.339	3.477	1.301	0.584	0.764	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		218.44									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	10	1292.5	1268.1	1511.	898.	45089.878	212.344	900.5	1159.25	1449.75	1509.6

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

Annual Analysis for 1989 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	10	11.4	13.11	26.7	-0.6	113.221	10.641	0.22	0.1	24.15	26.7
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	10	52.5	55.6	80.	31.	365.822	19.126	31.1	35.	75.5	80.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	10	22.8	16.12	35.6	-12.2	231.48	15.214	5.32	9.55	31.4	-7.42
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	10	63.	61.	96.	10.	748.889	27.366	11.9	39.5	84.5	95.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	10	1468.	1443.7	1950.	836.	85069.789	291.667	876.	1321.5	1589.	1925.
00300p OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	9	9.3	8.711	13.2	4.5	6.169	2.484	4.5	6.9	9.9	13.2
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	10	7.995	7.995	8.65	7.5	0.155	0.393	7.505	7.587	8.283	8.635
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	10	7.995	7.855	8.65	7.5	0.176	0.42	7.505	7.587	8.283	8.635
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	10	0.01	0.014	0.032	0.002	0.	0.011	0.002	0.005	0.026	0.031
00403 PH, LAB, STANDARD UNITS SU	12/11/68-08/23/94	6	8.2	8.183	8.4	8.	0.018	0.133	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	12/11/68-08/23/94	6	8.2	8.167	8.4	8.	0.018	0.134	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/11/68-08/23/94	6	0.006	0.007	0.01	0.004	0.	0.002	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	10	238.	226.5	340.	123.	4484.5	66.966	124.3	170.5	270.	333.6
00500 RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	10	1405.	1360.4	1734.	878.	50590.489	224.923	907.9	1264.	1456.25	1714.1
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	10	67.	73.5	212.	1.	3955.389	62.892	1.3	13.	107.	202.4
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	10	0.095	0.142	0.42	0.05	0.015	0.121	0.05	0.058	0.203	0.405
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/68-10/22/97	8##	0.05	0.063	0.1	0.05	0.001	0.023	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	10	0.165	0.166	0.332	0.037	0.011	0.103	0.038	0.052	0.253	0.327
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/77-04/25/95	10	0.015	0.018	0.04	0.003	0.	0.012	0.003	0.008	0.026	0.039
00900 HARDNESS, TOTAL (MG/L AS CACO3)	12/11/68-02/28/95	7	880.	833.857	1150.	450.	48979.476	221.313	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	10	35.	302.	2000.	5.	384678.889	620.225	5.	8.75	287.5	1855.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	10	1.54	1.705	3.301	0.699	0.815	0.903	0.699	0.925	2.411	3.245
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		50.699									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	10	1336.	1286.8	1730.	666.	76605.067	276.776	708.7	1187.5	1413.75	1703.7

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

Annual Analysis for 1990 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	12	5.8	10.225	22.2	-0.6	63.898	7.994	1.7	3.175	17.65	21.03
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	12	46.	49.75	72.	31.	207.477	14.404	32.2	35.25	63.75	69.9
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	11	14.4	15.1	32.2	-9.4	156.216	12.499	3.64	-9.4	26.7	31.32
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	12	56.	58.75	90.	15.	462.568	21.507	21.9	43.25	78.5	87.6
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	12	1526.5	1541.167	1785.	1263.	27148.152	164.767	1296.	1403.25	1706.75	1764.3

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

Annual Analysis for 1990 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300p OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	12	9.3	8.942	15.	3.5	13.317	3.649	3.59	5.675	11.3	14.7
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	12	7.84	7.89	8.7	7.	0.243	0.493	7.06	7.675	8.3	8.64
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	12	7.84	7.636	8.7	7.	0.313	0.559	7.06	7.675	8.3	8.64
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	12	0.014	0.023	0.1	0.002	0.001	0.029	0.002	0.005	0.021	0.089
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	12	238.	241.333	303.	203.	851.152	29.175	204.5	216.	257.75	294.3
00500 RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	12	1391.5	1408.	1587.	1190.	14102.364	118.753	1217.	1332.5	1511.	1582.2
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	12	29.	40.5	132.	1.	1680.636	40.996	2.2	8.5	69.5	120.6
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	12	0.045	0.058	0.14	0.02	0.002	0.042	0.02	0.023	0.07	0.137
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/68-10/22/97	12##	0.05	0.113	0.7	0.05	0.035	0.186	0.05	0.05	0.088	0.52
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	12	0.088	0.162	0.562	0.028	0.026	0.16	0.032	0.045	0.257	0.49
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/77-04/25/95	12	0.019	0.016	0.033	0.003	0.	0.011	0.003	0.004	0.024	0.032
00900 HARDNESS, TOTAL (MG/L AS CACO3)	12/11/68-02/28/95	12	865.	850.083	1020.	687.	13192.992	114.861	689.1	758.5	957.5	1008.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	12	25.	215.	1300.	5.	141254.545	375.838	5.	5.	322.5	1048.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	12	1.389	1.619	3.114	0.699	0.814	0.902	0.699	0.699	2.506	2.979
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		41.587									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	12	1364.	1367.417	1577.	1186.	16124.992	126.984	1186.6	1282.	1468.5	1565.6

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

Annual Analysis for 1991 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	12	11.1	11.75	25.	0.6	96.952	9.846	0.72	1.825	22.8	24.82
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	12	52.	53.15	77.	33.	314.488	17.734	33.24	35.25	73.	76.7
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	12	11.9	15.133	28.9	2.2	122.637	11.074	2.2	4.325	27.075	28.9
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	12	53.	56.417	84.	15.	556.811	23.597	21.3	36.75	80.75	84.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	12	1581.	1565.583	1938.	1045.	66262.265	257.415	1092.7	1405.	1762.	1907.4
00300p OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	12	11.	11.567	16.6	7.9	6.217	2.493	8.02	10.15	13.55	15.94
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	12	7.99	7.99	8.39	7.46	0.068	0.261	7.526	7.833	8.23	8.345
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	12	7.99	7.913	8.39	7.46	0.074	0.273	7.526	7.832	8.23	8.345
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	12	0.01	0.012	0.035	0.004	0.	0.008	0.005	0.006	0.015	0.031
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	12	251.5	276.	524.	184.	8004.182	89.466	190.9	215.75	305.	466.1
00500 RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	12	1369.5	1380.833	1802.	961.	44062.333	209.91	1025.2	1252.25	1499.25	1728.8
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	12	37.	67.	242.	2.	6204.727	78.77	2.	13.	139.5	218.6
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	11	0.04	0.06	0.26	0.01	0.006	0.078	0.01	0.01	0.04	0.24
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/68-10/22/97	11	0.1	0.259	0.9	0.05	0.099	0.315	0.05	0.05	0.6	0.86
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	11	0.098	0.153	0.424	0.034	0.019	0.138	0.034	0.064	0.2	0.42
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/77-04/25/95	12	0.012	0.022	0.1	0.003	0.001	0.028	0.003	0.004	0.026	0.086
00900 HARDNESS, TOTAL (MG/L AS CACO3)	12/11/68-02/28/95	11	870.	850.545	1037.	582.	21401.473	146.292	588.2	760.	960.	1029.6
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	12	34.	96.5	460.	0.	19280.636	138.855	1.5	6.25	185.	388.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	12	1.525	1.458	2.663	0.	0.651	0.807	0.21	0.774	2.262	2.567
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		28.738									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	12	1333.	1313.833	1638.	797.	55781.606	236.181	853.1	1195.75	1480.75	1603.2

** - 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 1992 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	10	11.1	12.1	25.5	0.9	70.7	8.408	0.99	4.65	18.55	25.21
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	11	48.6	52.273	77.9	33.6	232.576	15.25	33.92	37.	63.	76.86
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	11	14.4	12.873	25.6	0.	93.712	9.681	0.44	2.2	22.2	25.6
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	12	56.5	53.	78.	29.	332.182	18.226	29.9	36.	70.5	78.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	12	1333.5	1278.167	1980.	148.	319374.515	565.132	281.8	806.75	1780.5	1931.7
00300p OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	12	11.75	11.208	17.4	6.3	11.486	3.389	6.66	8.075	13.8	16.53

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

Annual Analysis for 1992 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	10	7.9	7.963	8.28	7.81	0.019	0.137	7.817	7.88	8.043	8.26
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	10	7.9	7.946	8.28	7.81	0.019	0.138	7.817	7.88	8.042	8.26
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	10	0.013	0.011	0.015	0.005	0.	0.003	0.006	0.009	0.013	0.015
00403 PH, LAB, STANDARD UNITS SU	12/11/68-08/23/94	2	8.25	8.25	8.5	8.	0.125	0.354	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	12/11/68-08/23/94	2	8.182	8.182	8.5	8.	0.134	0.367	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/11/68-08/23/94	2	0.007	0.007	0.01	0.003	0.	0.005	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	12	240.	228.667	289.	121.	3195.152	56.526	137.2	181.	278.5	289.
00500 RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	12	1303.5	1308.583	1761.	569.	119199.356	345.253	679.7	1122.5	1638.75	1734.6
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	12	120.	142.917	456.	10.	18627.902	136.484	11.2	29.5	233.75	410.4
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	12##	0.01	0.062	0.49	0.01	0.02	0.14	0.01	0.01	0.018	0.385
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/68-10/22/97	12	0.45	0.604	1.5	0.05	0.302	0.549	0.05	0.063	1.15	1.47
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	12	0.284	0.296	0.631	0.04	0.042	0.204	0.044	0.127	0.42	0.629
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/77-04/25/95	12	0.029	0.074	0.255	0.003	0.008	0.089	0.003	0.007	0.143	0.243
00900 HARDNESS, TOTAL (MG/L AS CACO3)	12/11/68-02/28/95	12	784.	761.667	1105.	219.	83340.242	288.687	261.	537.5	1037.	1094.5
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	12	85.	8471.25	100000.	5.	830862250.568	28824.681	5.	6.25	390.	70168.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	12	1.812	1.9	5.	0.699	1.589	1.261	0.699	0.774	2.587	4.324
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		79.42									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	12	1173.5	1165.667	1735.	399.	190369.879	436.314	423.9	899.5	1543.5	1706.5

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

Annual Analysis for 1993 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/27/72-11/01/95	9	13.9	16.	27.3	3.3	76.968	8.773	3.3	8.35	25.3	27.3
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	11	57.	55.727	81.	33.	324.818	18.023	33.	38.	77.	80.4
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	03/26/73-02/16/94	9	13.9	15.933	31.1	3.3	104.635	10.229	3.3	6.4	26.95	31.1
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	11	55.	53.636	88.	7.	560.855	23.682	13.	38.	77.	87.2
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	11	1635.	1463.273	1890.	864.	141133.218	375.677	894.6	1060.	1792.	1886.
00300p OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	11	9.5	9.218	12.9	5.7	7.338	2.709	5.76	6.1	11.5	12.84
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	8	8.06	8.052	8.25	7.87	0.013	0.114	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	8	8.06	8.04	8.25	7.87	0.013	0.115	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	8	0.009	0.009	0.013	0.006	0.	0.002	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	12/11/68-08/23/94	2	8.	8.	8.1	7.9	0.02	0.141	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	12/11/68-08/23/94	2	7.989	7.989	8.1	7.9	0.02	0.142	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/11/68-08/23/94	2	0.01	0.01	0.013	0.008	0.	0.003	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	11	239.	232.636	313.	133.	2479.255	49.792	143.6	203.	266.	304.8
00500 RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	11	1476.	1313.636	1626.	807.	89847.055	299.745	826.	959.	1554.	1619.8
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	11	102.	90.909	214.	11.	4324.691	65.762	11.2	22.	128.	204.2
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	11##	0.01	0.023	0.15	0.01	0.002	0.042	0.01	0.01	0.01	0.122
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/68-10/22/97	11	0.5	0.645	1.2	0.2	0.163	0.403	0.2	0.3	1.1	1.2
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	11	0.259	0.234	0.442	0.033	0.021	0.146	0.042	0.083	0.395	0.433
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/01/77-04/25/95	11	0.039	0.067	0.177	0.007	0.005	0.067	0.007	0.01	0.142	0.171
00900 HARDNESS, TOTAL (MG/L AS CACO3)	12/11/68-02/28/95	11	927.	830.364	1155.	448.	61498.055	247.988	462.6	571.	1060.	1145.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	11	100.	308.182	2300.	5.	447831.364	669.202	5.	10.	280.	1898.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	11	2.	1.825	3.362	0.699	0.697	0.835	0.699	1.	2.447	3.182
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		66.881									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	11	1383.	1222.818	1615.	643.	119881.364	346.239	677.4	831.	1532.	1603.6

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

Annual Analysis for 1994 - Station MNRR0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/27/72-11/01/95	2	1.95	1.95	2.8	1.1	1.445	1.202	**	**	**	**
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)		12/11/68-10/22/97	12	53.	54.083	78.	34.	294.447	17.159	34.3	36.25	71.75	76.8
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		03/26/73-02/16/94	2	-2.25	-2.25	3.3	-7.8	61.605	7.849	**	**	**	**
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)		09/16/74-10/22/97	12	42.5	50.333	87.	15.	699.697	26.452	15.9	27.25	79.	86.1
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		12/11/68-10/22/97	12	1620.	1614.417	1836.	1418.	11032.447	105.035	1437.8	1563.75	1650.	1796.7
00300p OXYGEN, DISSOLVED	MG/L	03/26/73-10/22/97	11	9.8	9.9	13.	7.7	2.83	1.682	7.76	8.1	11.4	12.7
00400 PH (STANDARD UNITS)		11/12/73-10/22/97	11	7.93	7.965	8.17	7.71	0.022	0.15	7.742	7.87	8.17	8.17
00400 CONVERTED PH (STANDARD UNITS)		11/12/73-10/22/97	11	7.93	7.942	8.17	7.71	0.023	0.152	7.742	7.87	8.17	8.17
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/12/73-10/22/97	11	0.012	0.011	0.019	0.007	0.	0.004	0.007	0.007	0.013	0.018
00403 PH, LAB, STANDARD UNITS	SU	12/11/68-08/23/94	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		12/11/68-08/23/94	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/11/68-08/23/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		12/11/68-10/22/97	11	249.	274.091	368.	235.	1792.291	42.335	235.8	245.	311.	358.
00500 RESIDUE, TOTAL (MG/L)		12/11/68-10/22/97	12	1441.5	1498.5	1841.	1211.	38411.545	195.989	1244.9	1359.5	1655.25	1832.
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		12/27/72-10/22/97	12	114.	107.5	244.	7.	7961.545	89.227	7.3	14.	183.	236.2
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		12/01/77-10/22/97	12##	0.01	0.053	0.17	0.01	0.004	0.065	0.01	0.01	0.13	0.164
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		12/11/68-10/22/97	12	0.15	0.338	1.	0.05	0.141	0.375	0.05	0.063	0.7	1.
00665 PHOSPHORUS, TOTAL (MG/L AS P)		03/01/83-10/22/97	12	0.182	0.174	0.366	0.043	0.014	0.117	0.047	0.059	0.271	0.359
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		12/01/77-04/25/95	12	0.007	0.014	0.081	0.003	0.	0.022	0.003	0.003	0.015	0.062
00900 HARDNESS, TOTAL (MG/L AS CACO3)		12/11/68-02/28/95	12	911.5	898.75	1031.	758.	6610.023	81.302	772.1	816.75	961.25	1012.7
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	8	25.	68.75	170.	5.	5805.357	76.193	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	8	1.389	1.473	2.23	0.699	0.436	0.661	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		29.74									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		09/28/82-10/22/97	12	1384.5	1391.	1623.	1123.	22428.364	149.761	1128.1	1347.	1509.5	1606.2

** - 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 1995 - Station MNRR0012

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/27/72-11/01/95	2	10.85	10.85	17.4	4.3	85.805	9.263	**	**	**	**
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)		12/11/68-10/22/97	10	50.	53.	78.	34.	338.889	18.409	34.1	35.	73.25	77.9
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)		09/16/74-10/22/97	12	47.	50.917	82.	18.	595.72	24.407	19.8	28.	78.	82.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		12/11/68-10/22/97	7	1282.	1291.143	1650.	935.	75318.476	274.442	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	03/26/73-10/22/97	12	9.6	9.933	14.	6.1	7.27	2.696	6.28	7.375	12.325	13.82
00400 PH (STANDARD UNITS)		11/12/73-10/22/97	12	8.125	8.096	8.66	7.73	0.06	0.245	7.733	7.973	8.165	8.552
00400 CONVERTED PH (STANDARD UNITS)		11/12/73-10/22/97	12	8.125	8.038	8.66	7.73	0.064	0.253	7.733	7.972	8.165	8.552
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/12/73-10/22/97	12	0.007	0.009	0.019	0.002	0.	0.005	0.003	0.007	0.011	0.018
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		12/11/68-10/22/97	7	208.	218.714	316.	122.	5437.905	73.742	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)		12/11/68-10/22/97	12	1304.5	1330.5	2008.	810.	92945.182	304.869	888.	1123.	1487.	1885.
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		12/27/72-10/22/97	12	92.	180.417	750.	9.	42482.629	206.113	18.6	50.75	230.	631.8
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		12/01/77-10/22/97	7	0.06	0.107	0.44	0.01	0.024	0.153	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		12/11/68-10/22/97	7	0.6	0.743	1.6	0.2	0.316	0.562	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		03/01/83-10/22/97	7	0.397	0.432	0.992	0.041	0.087	0.295	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		12/01/77-04/25/95	3	0.121	0.126	0.165	0.093	0.001	0.036	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		12/11/68-02/28/95	1	455.	455.	455.	455.	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	8	100.	2403.75	12000.	10.	20391883.929	4515.737	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/11/68-09/24/97	8	1.998	2.32	4.079	1.	1.174	1.084	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		209.149									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		09/28/82-10/22/97	12	1062.5	1150.083	1466.	738.	49795.72	223.15	815.4	1003.5	1370.	1461.2

** - 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 1996 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	12	52.5	54.667	83.	33.	378.97	19.467	33.3	36.5	75.5	82.7
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	12	45.	43.25	86.	-7.	980.932	31.32	-1.6	15.25	69.	85.1
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	4	1423.5	1434.25	1512.	1378.	3174.917	56.346	**	**	**	**
00300p OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	12	10.15	10.167	13.3	6.9	4.095	2.024	7.2	8.8	11.875	13.21
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	12	8.085	8.052	8.34	7.65	0.052	0.227	7.68	7.837	8.25	8.331
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	12	8.085	7.995	8.34	7.65	0.055	0.235	7.68	7.837	8.25	8.331
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	12	0.008	0.01	0.022	0.005	0.	0.006	0.005	0.006	0.015	0.021
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	4	300.	323.75	411.	284.	3464.25	58.858	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	12	1350.	1435.083	2091.	921.	93335.72	305.509	1015.2	1246.25	1682.5	1983.9
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	12	130.	221.167	752.	7.	58225.424	241.299	8.2	36.25	385.	698.
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	4##	0.045	0.048	0.09	0.01	0.002	0.043	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/68-10/22/97	4	0.25	0.25	0.4	0.1	0.03	0.173	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	4	0.29	0.285	0.402	0.157	0.018	0.136	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	5	140.	2904.	14000.	70.	38478730.	6203.123	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	5	2.146	2.487	4.146	1.845	0.896	0.947	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		306.764									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	12	1228.5	1213.917	1697.	566.	97671.538	312.524	643.4	1120.5	1461.5	1666.7

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

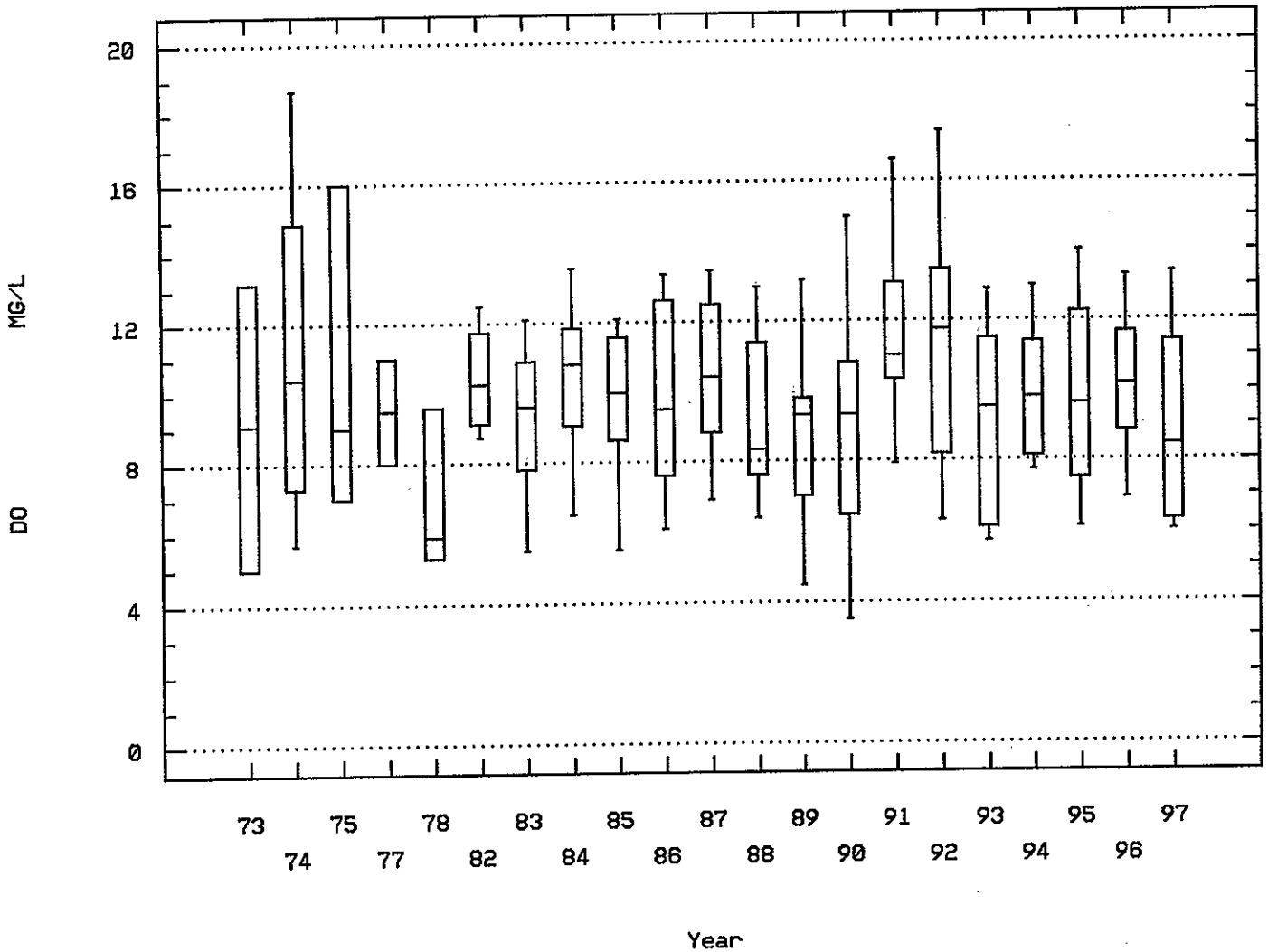
Annual Analysis for 1997 - Station MNRR0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	12/11/68-10/22/97	7	52.	56.	82.	36.	377.	19.416	**	**	**	**
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/16/74-10/22/97	7	46.	49.286	78.	14.	560.238	23.669	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/11/68-10/22/97	3	1480.	1605.	1995.	1340.	118975.	344.928	**	**	**	**
00300p OXYGEN, DISSOLVED MG/L	03/26/73-10/22/97	7	8.4	9.186	13.4	6.	8.055	2.838	**	**	**	**
00400 PH (STANDARD UNITS)	11/12/73-10/22/97	7	7.89	7.919	8.31	7.64	0.07	0.265	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	11/12/73-10/22/97	7	7.89	7.855	8.31	7.64	0.075	0.274	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/73-10/22/97	7	0.013	0.014	0.023	0.005	0.	0.007	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	12/11/68-10/22/97	3	273.	282.333	336.	238.	2466.333	49.662	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	12/11/68-10/22/97	7	1236.	1358.286	1693.	1154.	46198.571	214.939	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/27/72-10/22/97	7	104.	165.714	504.	9.	34432.905	185.561	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/01/77-10/22/97	3	0.07	0.117	0.27	0.01	0.019	0.136	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/11/68-10/22/97	3	0.7	0.533	0.8	0.1	0.143	0.379	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/01/83-10/22/97	3	0.21	0.272	0.56	0.047	0.069	0.262	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	3	700.	1383.333	3300.	150.	2830833.333	1682.508	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/11/68-09/24/97	3	2.845	2.847	3.519	2.176	0.451	0.671	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		702.373									
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/28/82-10/22/97	7	1109.	1192.571	1684.	683.	117264.952	342.44	**	**	**	**

** - Less than 9 observations ## - Computed 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: MNRR0012 Parameter Code: 00300

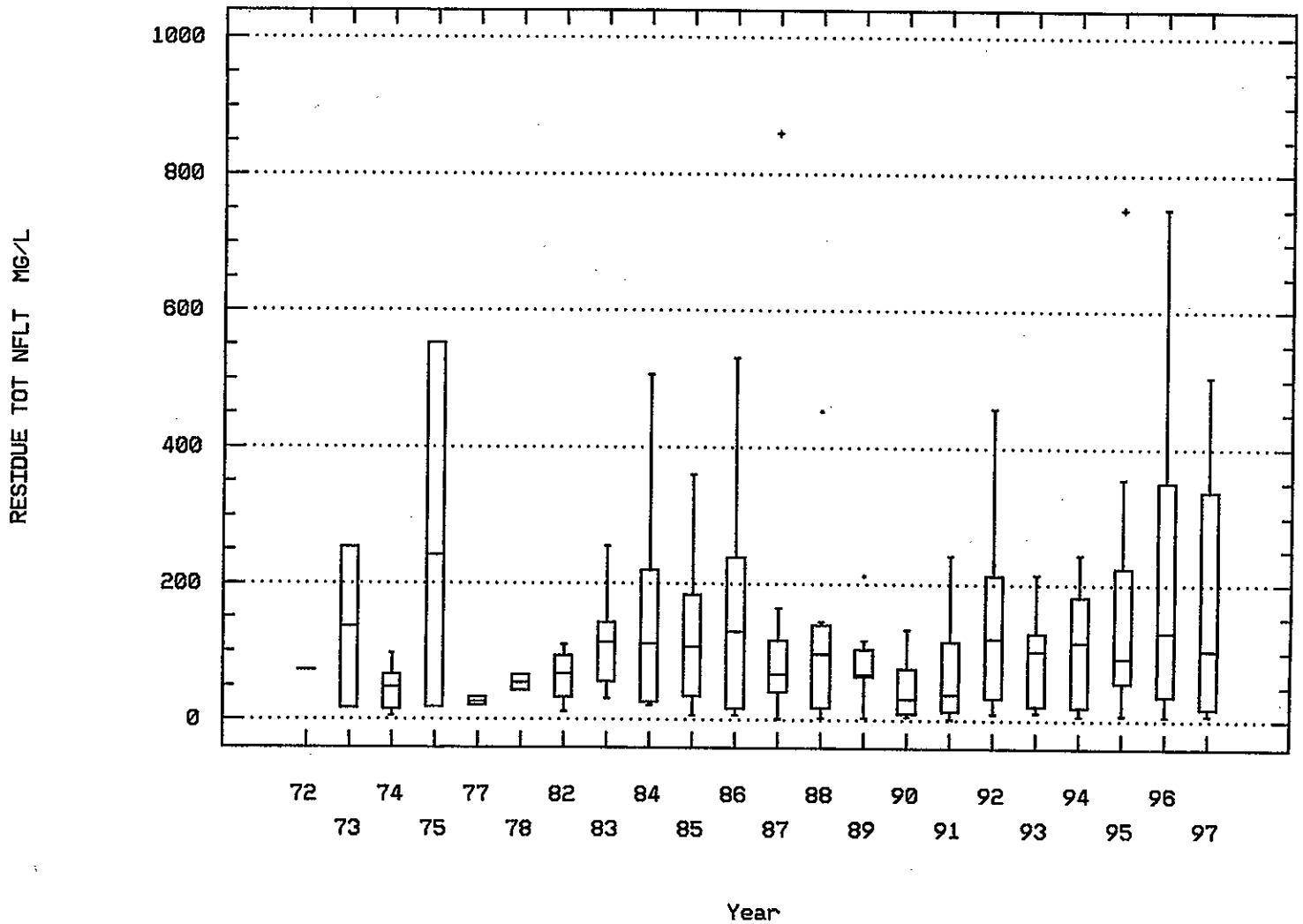
OXYGEN, DISSOLVED



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00530

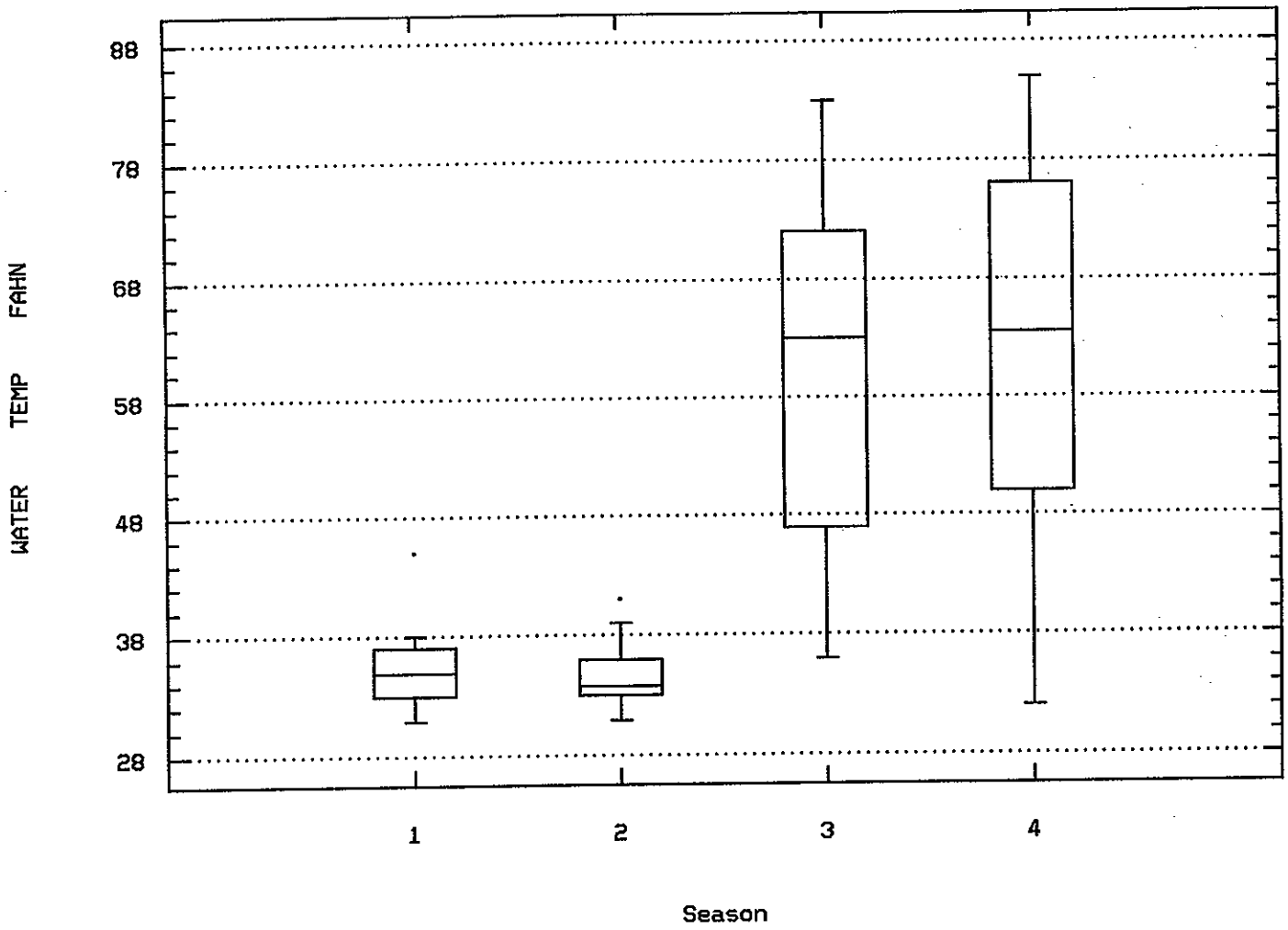
RESIDUE, TOTAL NONFILTRABLE (MG/L)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00011

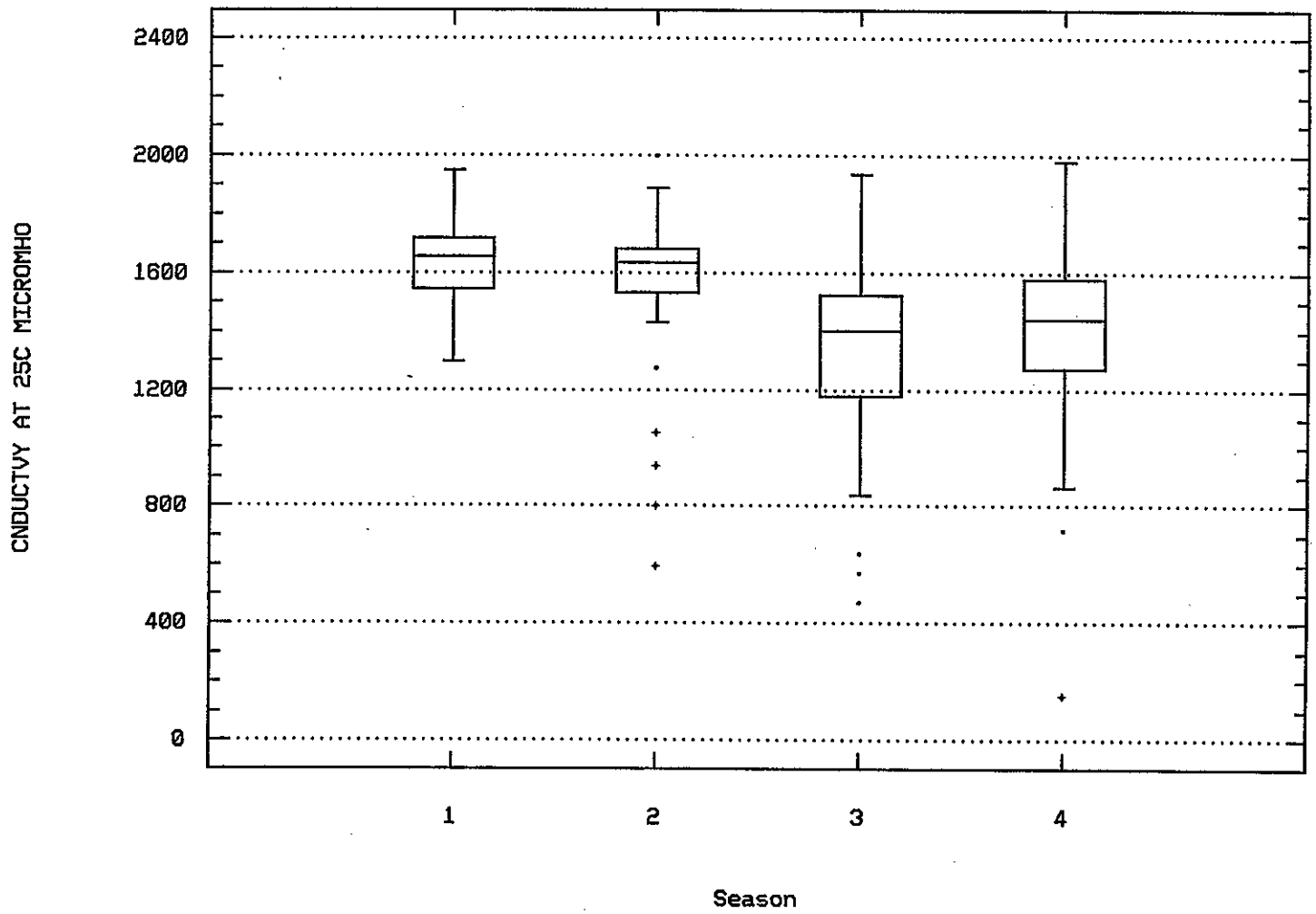
TEMPERATURE, WATER (DEGREES FAHRENHEIT)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00095

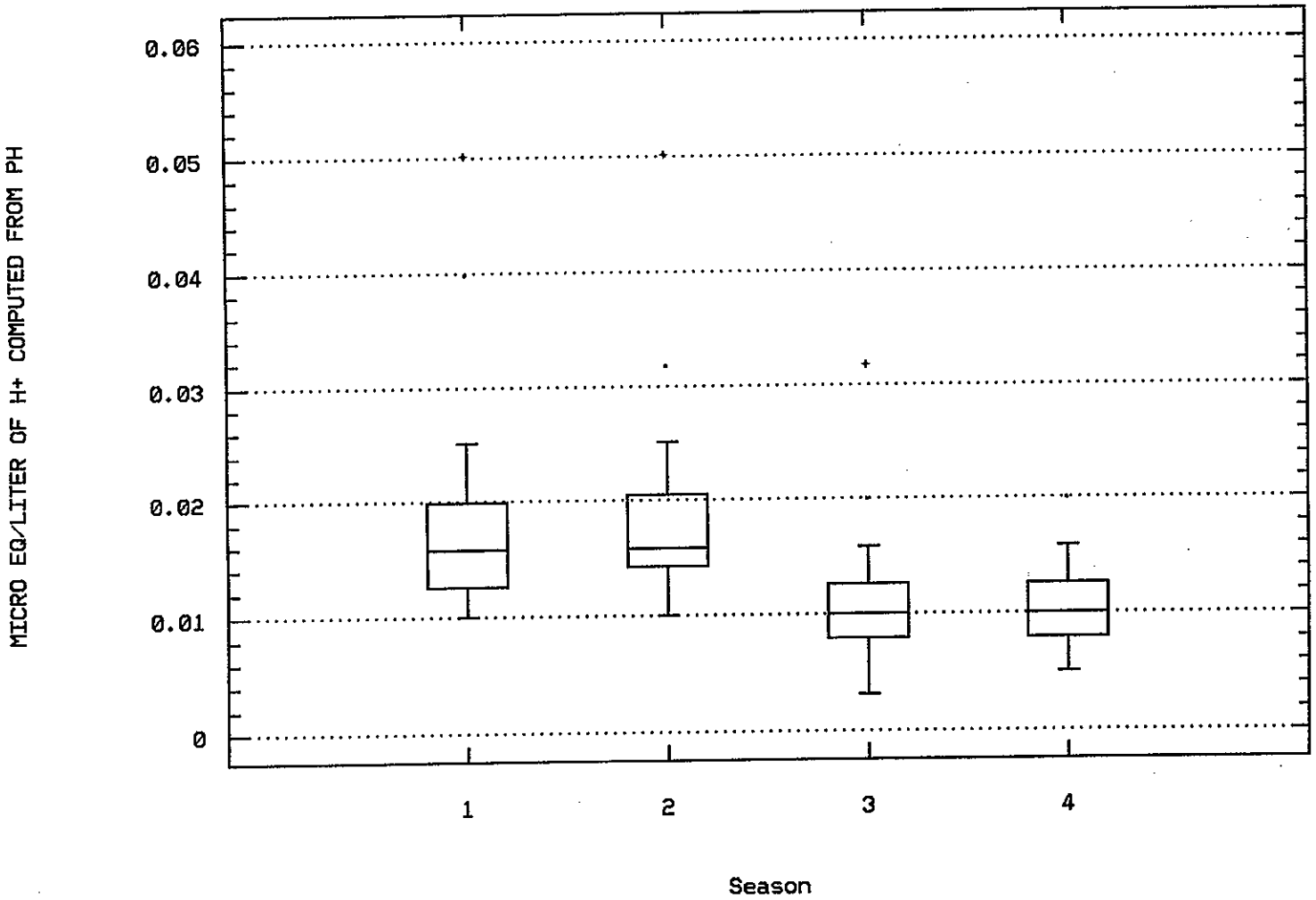
SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00403

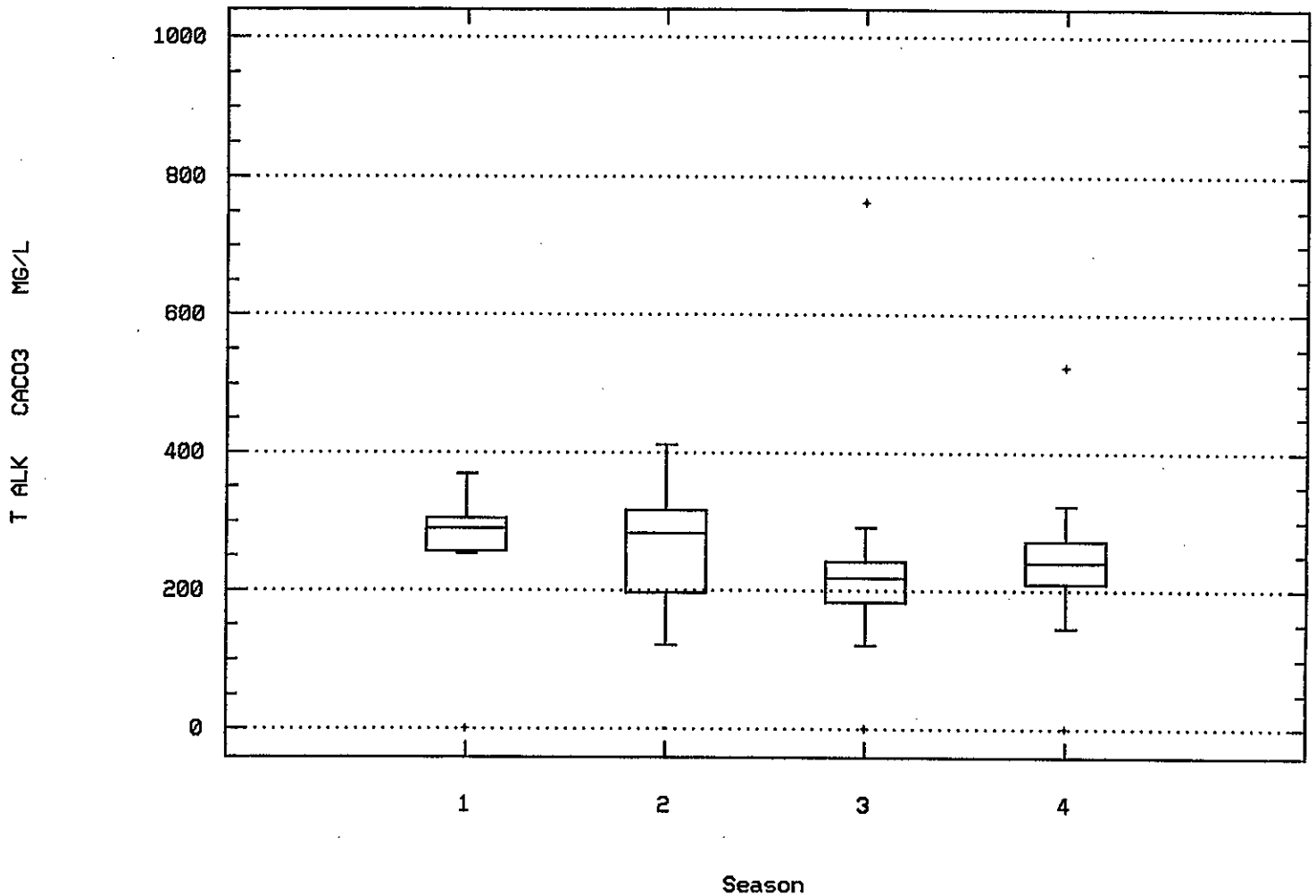
MICRO EQ/LITER OF H+ COMPUTED FROM PH



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00410

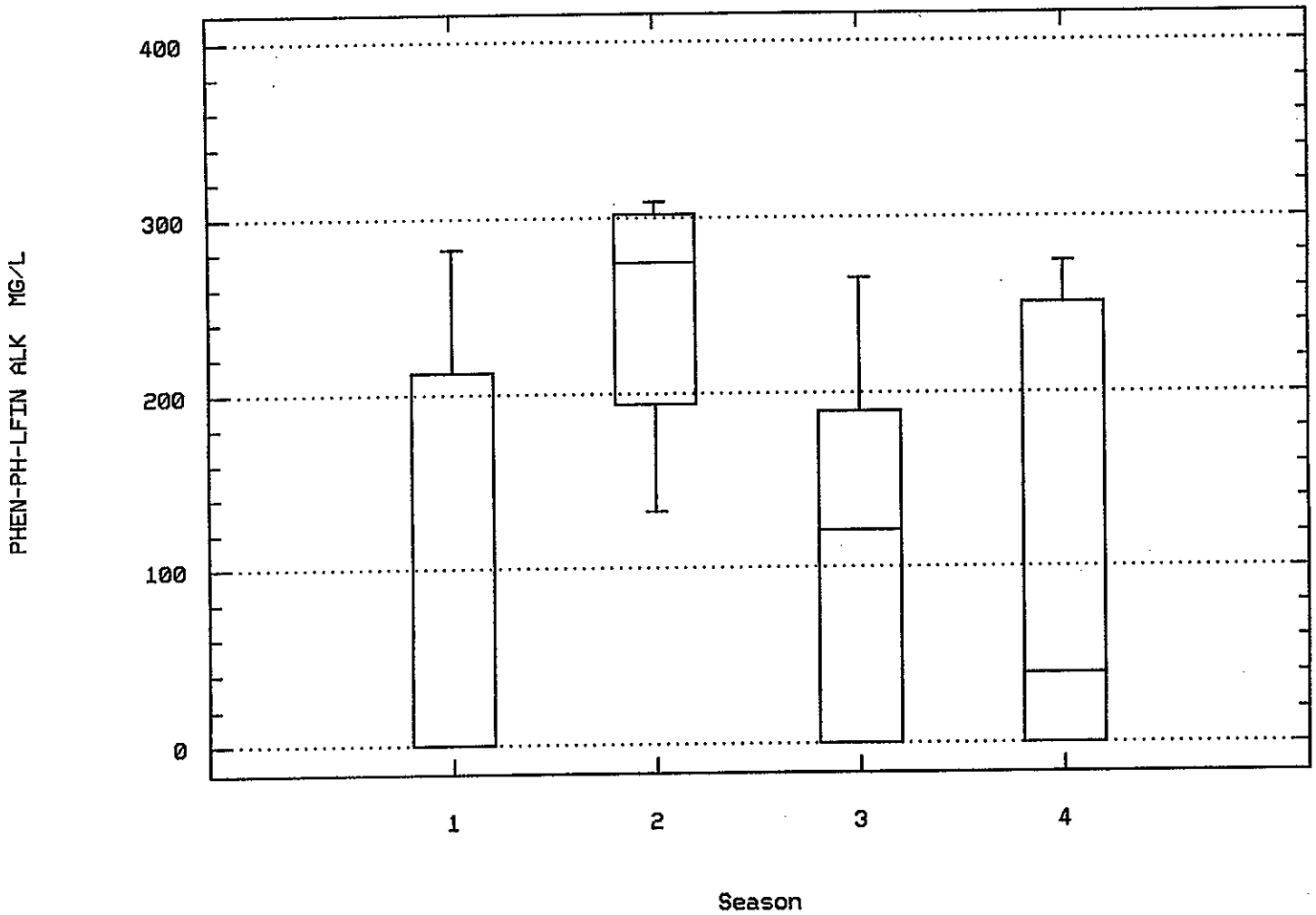
ALKALINITY, TOTAL (MG/L AS CACO3)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00415

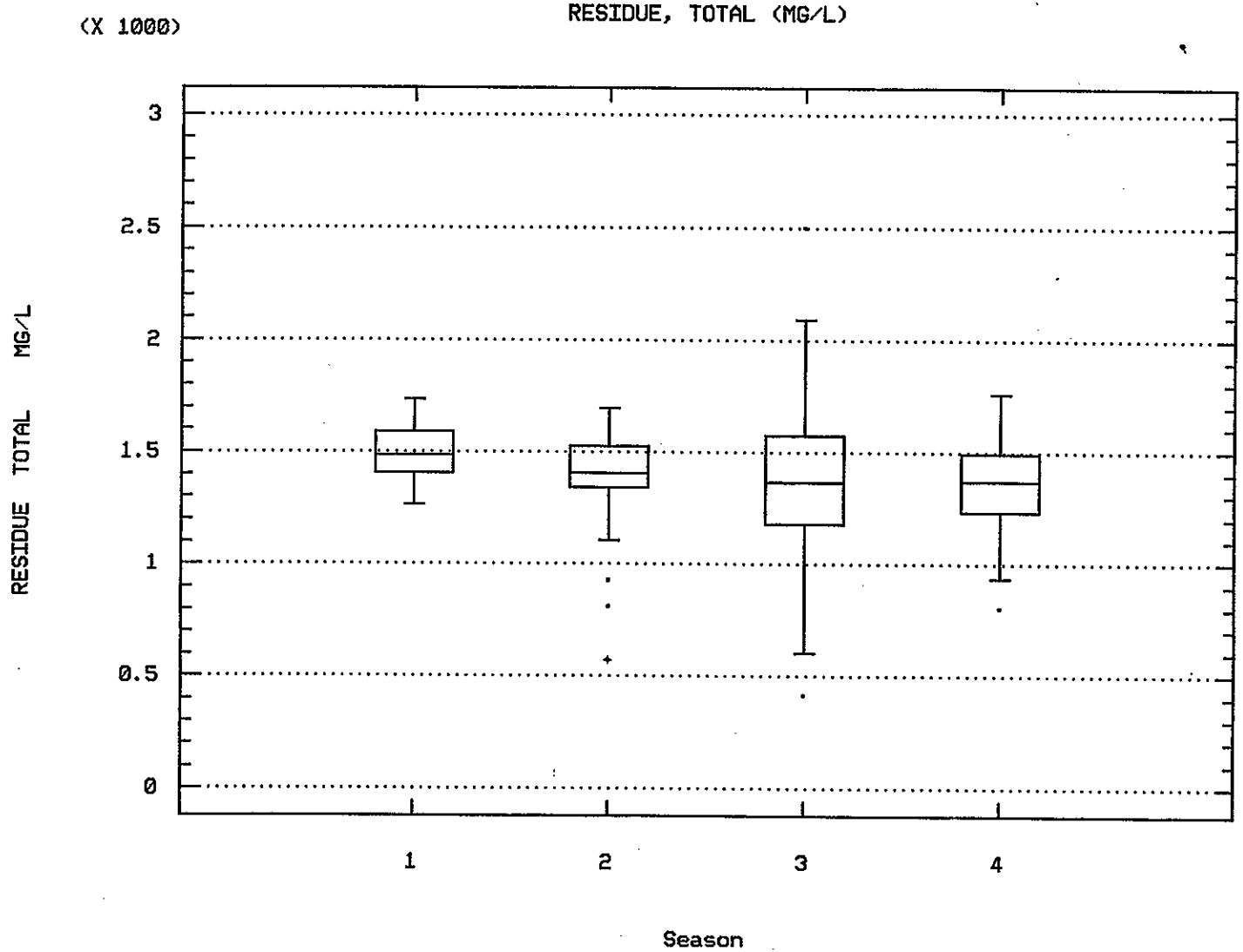
ALKALINITY, PHENOLPHTHALEIN (MG/L)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00500

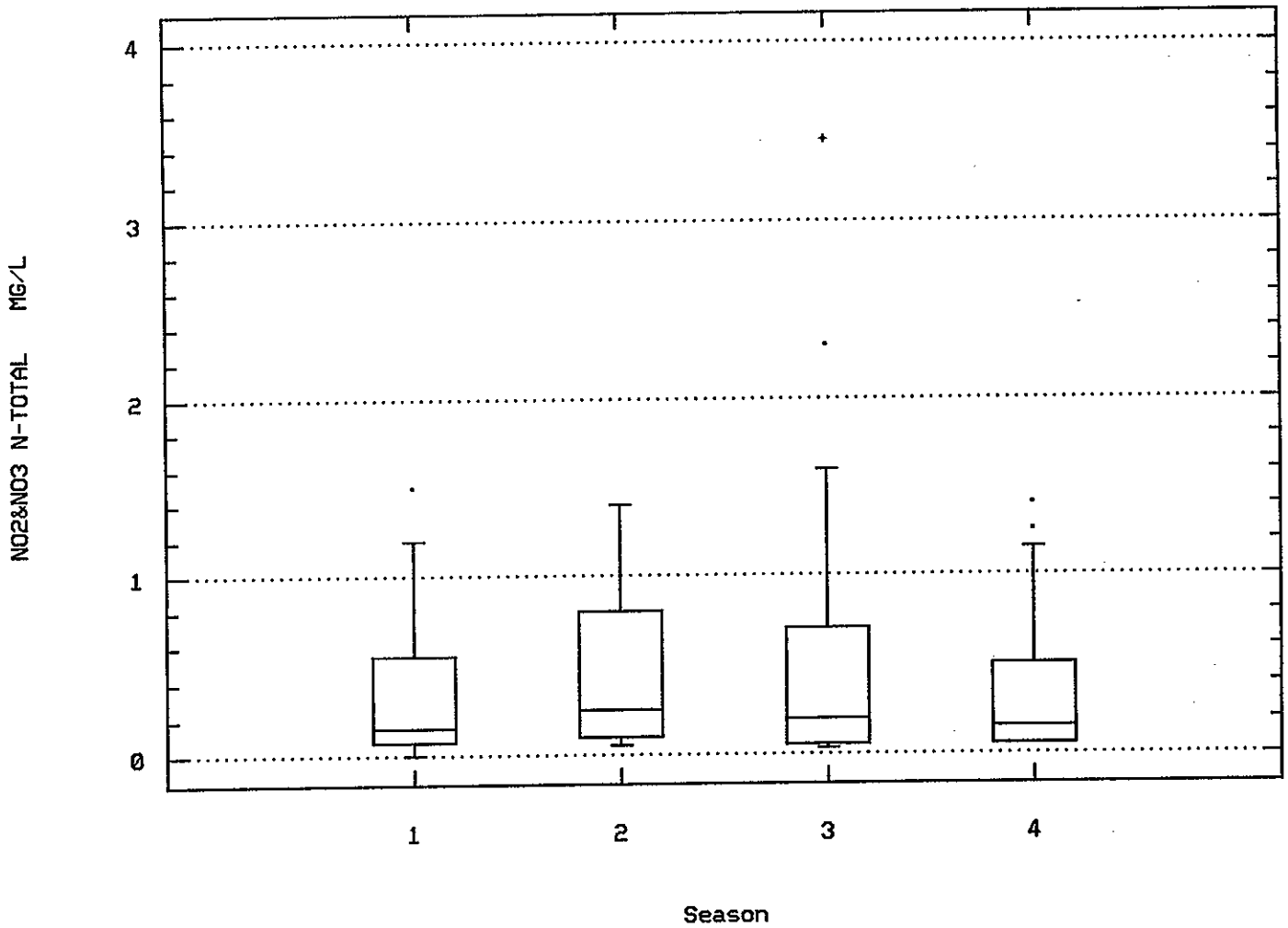
RESIDUE, TOTAL (MG/L)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00630

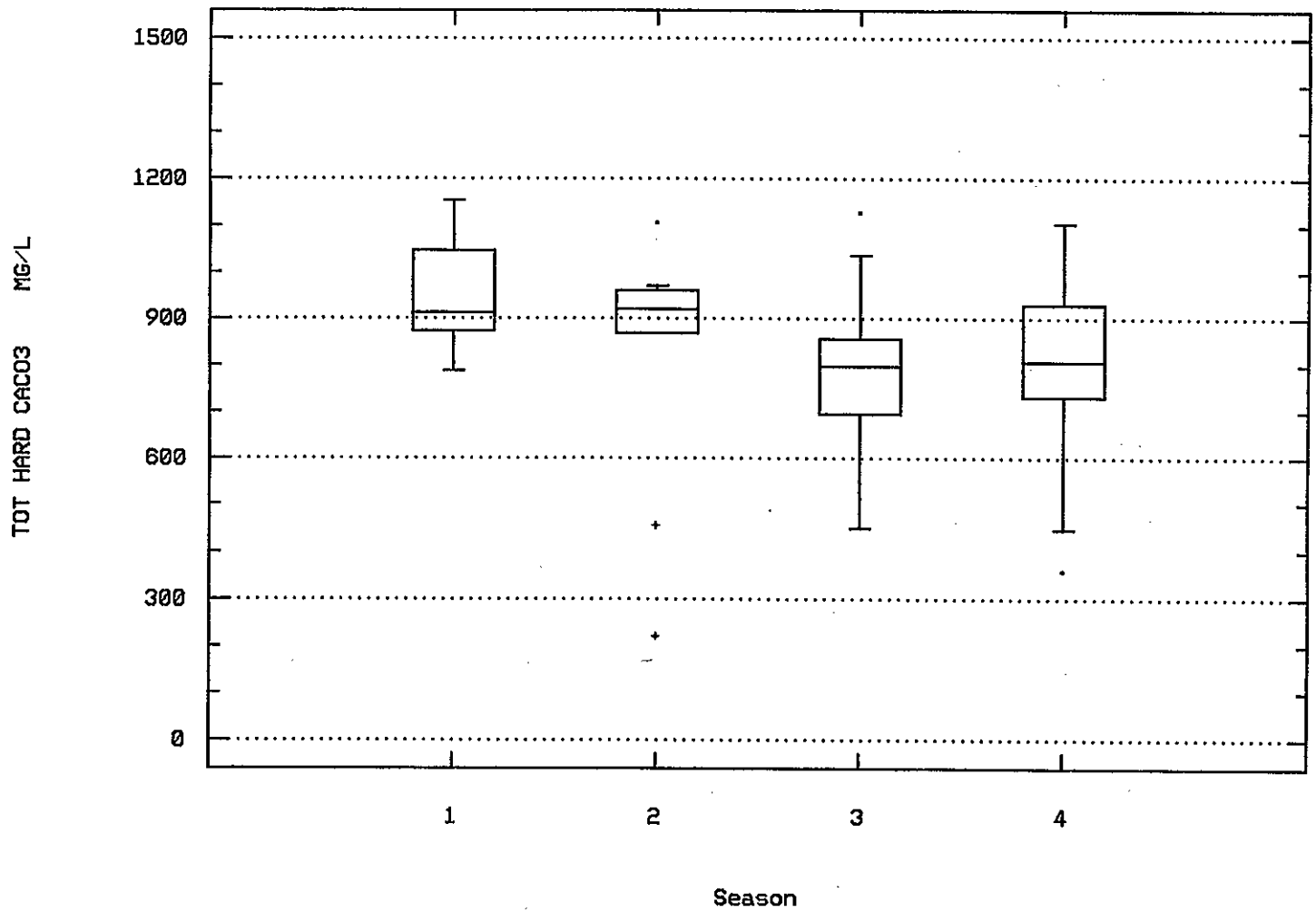
NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00900

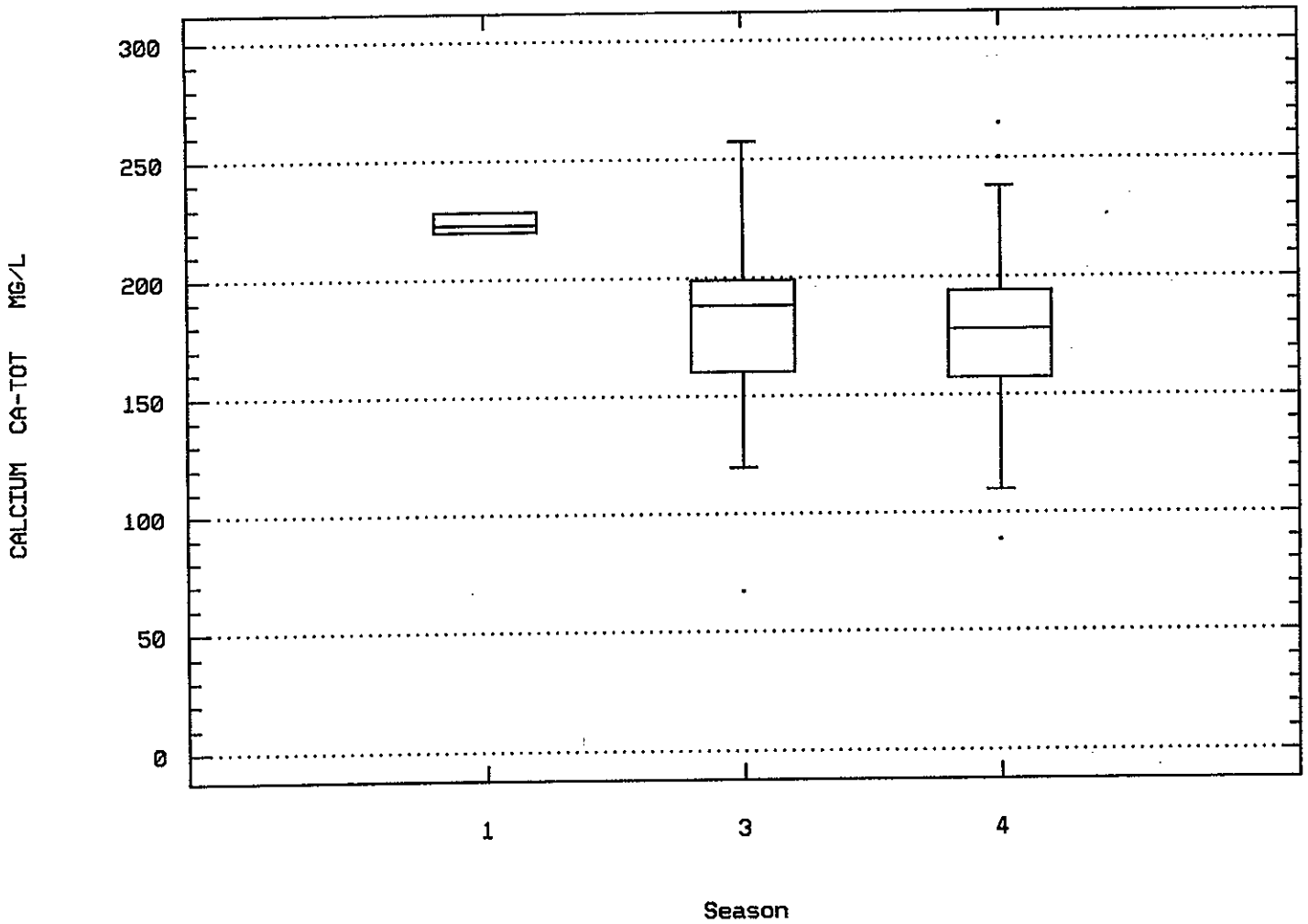
HARDNESS, TOTAL (MG/L AS CACO3)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00916

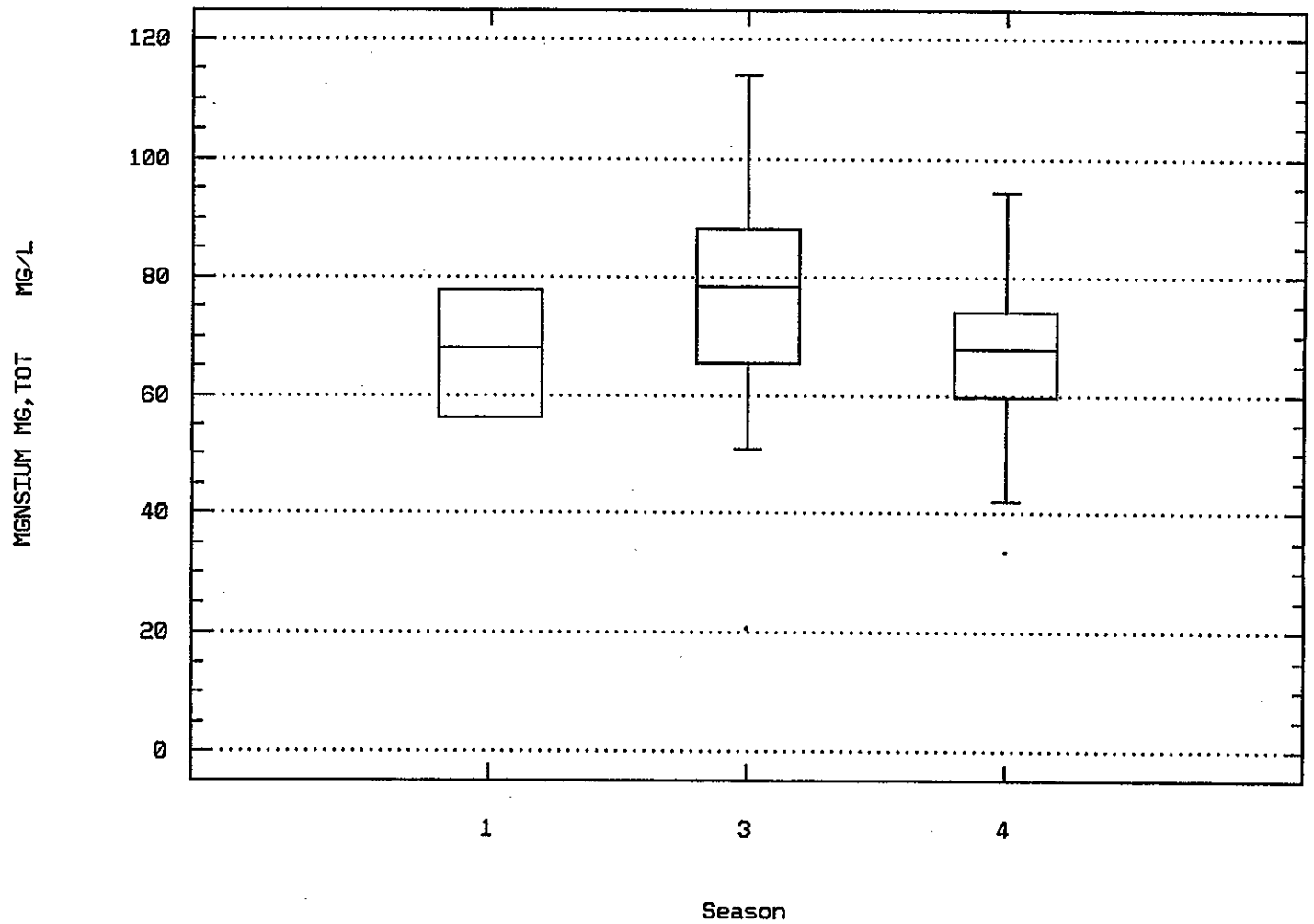
CALCIUM, TOTAL (MG/L AS CA)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00927

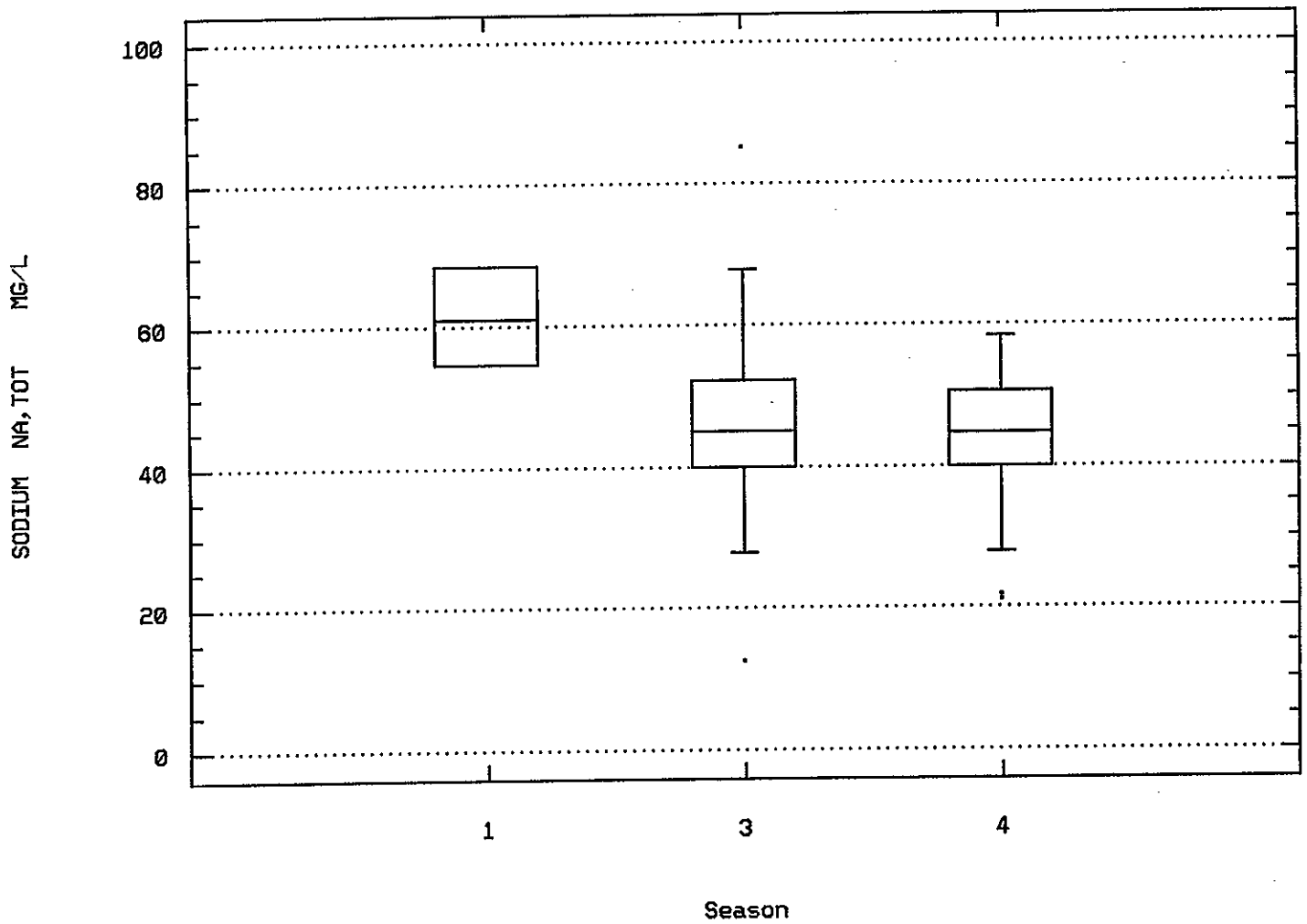
MAGNESIUM, TOTAL (MG/L AS MG)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 00929

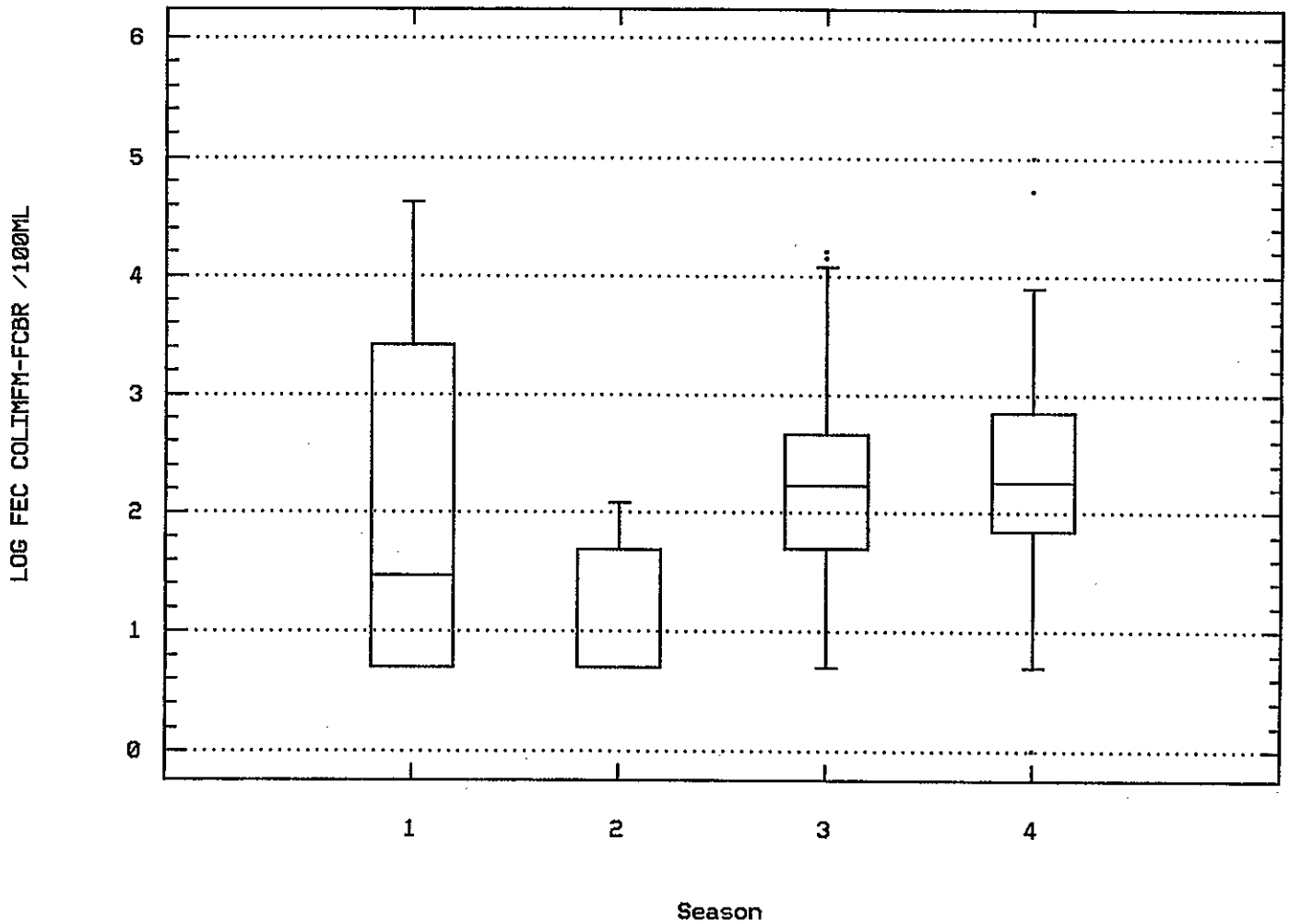
SODIUM, TOTAL (MG/L AS NA)



VERMILLION R NEAR VERMILLION

Station: MNRR0012 Parameter Code: 31616

LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



VERMILLION R NEAR VERMILLION

Station Inventory for Station: MNRR0013

NPS Station ID: MNRR0013 LAT/LON: 42.784448/ -96.963892 Agency: 112WRD Date Created: 11/18/75
Location: VERMILLION R AT VERMILLION, S.D. FIPS State/County: 46027 SOUTH DAKOTA/CLAY
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 424704096575000
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170102 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 10170102 RF1 Mile Point: 0.000 Distance from RF1: 0.70 On/Off RF1:
RF3 Index: 10170102000100.00 RF3 Mile Point: 16.36 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/20/66-03/27/67	3	5.6	5.2	10.	0.	25.12	5.012	**	**	**	**
00060 FLOW, STREAM, MEAN DAILY	CFS	10/20/66-03/27/67	3	97.	73.667	104.	20.	2172.333	46.608	**	**	**	**
70331 SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM		03/27/67-03/27/67	1	93.	93.	93.	93.	0.	0.	**	**	**	**
80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)		10/20/66-03/27/67	3	42.	42.333	76.	9.	1122.333	33.501	**	**	**	**
80155 SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)		10/20/66-03/27/67	3	12.	10.823	20.	0.47	96.394	9.818	**	**	**	**

** - Less than 9 observations ## - 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: MNRR0014

NPS Station ID: MNRR0014
LAT/LON: 42.727782/ -97.034448
Agency: 21NEB001
Date Created: 01/25/92
Location: AMES CREEK
FIPS State/County: 31051 NEBRASKA/DIXON
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): MT2089
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10170101
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NEMT2-11200
Minor Basin:
ECO Region: 45G
RF1 Index: 10170101
RF1 Mile Point: 0.000
Distance from RF1: 0.50
On/Off RF1:
RF3 Index: 10170101008203.23
RF3 Mile Point: 3.58
Distance from RF3: 0.01
On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0014

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: MNRR0015

NPS Station ID: MNRR0015 LAT/LON: 42.730004/ -97.148060 Agency: 112WRD Date Created: 09/30/89
Location: BOW CREEK NR ST. JAMES, NEBR. FIPS State/County: 31027 NEBRASKA/CEDAR
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 06478518
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 1.10 On/Off RF1:
RF3 Index: 10170101158500.00 RF3 Mile Point: 0.00 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0015

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/05/89-10/18/89	3	15.	17.	26.	10.	67.	8.185	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		04/05/89-10/18/89	3	13.	15.333	21.	12.	24.333	4.933	**	**	**	**
00025 BAROMETRIC PRESSURE (MM OF HG)		10/18/89-10/18/89	1	746.	746.	746.	746.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	04/05/89-10/18/89	3	45.	41.	48.	30.	93.	9.644	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		04/05/89-10/18/89	3	666.	647.333	696.	580.	3625.333	60.211	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	10/18/89-10/18/89	1	11.6	11.6	11.6	11.6	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		04/05/89-10/18/89	3	8.35	8.353	8.44	8.27	0.007	0.085	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		04/05/89-10/18/89	3	8.35	8.348	8.44	8.27	0.007	0.085	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/05/89-10/18/89	3	0.004	0.004	0.005	0.004	0.	0.001	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		04/05/89-10/18/89	3	1.8	1.867	2.5	1.3	0.363	0.603	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: MNRR0015

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00										1	0	0.00
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
00631 NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	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: MNRR0016

NPS Station ID: MNRR0016
LAT/LON: 42.761670/ -97.169449
Agency: 21NEB001
Date Created: 04/16/88
Location: BOW CREEK
FIPS State/County: 31027 NEBRASKA/CEDAR
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): MT2090
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10170101
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NEMT2-11300
Minor Basin:
ECO Region: 46M
RF1 Index: 10170101
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10170101158500.12
RF3 Mile Point: 0.11
Distance from RF3: 0.07
On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0016

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: MNRR0017

NPS Station ID: MNRR0017 LAT/LON: 42.765281/ -97.172366 Agency: 21NEB001 Date Created: / /
Location: BOW CREEK NEAR WYNOT (N) FIPS State/County: 31027 NEBRASKA/CEDAR
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 301199
RMI-Indexes: 4246100 000000 Within Park Boundary: No
RMI-Miles: 0971.00 0030.00
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: LOWER MISSOURI ECO Region:
RF1 Index: 10170101068 RF1 Mile Point: 2.400 Distance from RF1: 0.00 On/Off RF1: ON
RF3 Index: 10170101006600.00 RF3 Mile Point: 0.55 Distance from RF3: 0.00 On/Off RF3:
Description:
SW 1/4 OF NW 1/4, SEC. 11, T32N,R02E, CEDAR COUNTY, 2 M. N. OF WYNOT, 1/ 4 E, 1/4 NE, 0.4 M. NW ON CO. RD. BR.

Parameter Inventory for Station: MNRR0017

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		11/29/73-11/29/77	29	14.8	13.531	35.	0.	91.447	9.563	0.4	4.75	21.	27.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		11/29/73-11/29/77	28	14.5	13.246	37.8	-7.	122.18	11.054	4.16	7.	21.375	27.13
00032 CLOUD COVER (PERCENT)		11/29/73-12/15/76	21	40.	52.381	100.	0.	2009.048	44.822	0.	10.	100.	100.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	07/19/77-07/19/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)		11/29/73-11/29/77	29	14.	19.345	100.	2.	404.992	20.124	3.	5.95	26.	36.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		11/29/73-11/29/77	29	690.	687.552	880.	200.	15492.042	124.467	600.	630.	785.	800.
00300 OXYGEN, DISSOLVED	MG/L	11/29/73-11/29/77	29	9.8	10.028	13.8	7.1	3.712	1.927	7.5	8.55	11.3	13.4
00310 BOD, 5 DAY, 20 DEG C	MG/L	02/04/74-11/29/77	26	1.65	2.496	11.6	0.4	6.076	2.465	0.78	1.2	3.225	5.8
00340 COD, .25N K2CR2O7	MG/L	02/04/74-11/29/77	26	12.	17.538	82.	0.	450.818	21.232	0.	0.	25.25	50.
00400 PH (STANDARD UNITS)		02/04/74-11/29/77	27	8.2	8.215	9.	7.5	0.086	0.293	7.8	8.1	8.4	8.52
00400 CONVERTED PH (STANDARD UNITS)		02/04/74-11/29/77	27	8.2	8.119	9.	7.5	0.096	0.309	7.8	8.1	8.4	8.52
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		02/04/74-11/29/77	27	0.006	0.008	0.032	0.001	0.	0.006	0.003	0.004	0.008	0.016
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		11/29/73-07/09/75	13	267.	270.231	324.	229.	694.026	26.344	236.6	250.5	282.	320.
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		11/29/73-11/29/77	29	456.	477.241	642.	343.	5285.404	72.701	370.	437.	530.	599.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		04/14/76-11/29/77	16	28.	53.75	415.	1.	9683.	98.402	2.4	15.25	53.	173.5
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		04/14/76-11/29/77	14	0.055	0.066	0.3	0.	0.007	0.082	0.	0.	0.1	0.21
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		11/29/73-11/29/77	28	0.85	0.871	2.1	0.1	0.281	0.53	0.2	0.425	1.175	1.55
00660 PHOSPHATE, ORTHO (MG/L AS PO4)		04/14/76-11/29/77	16	0.1	0.156	1.	0.	0.053	0.23	0.028	0.1	0.1	0.44
00900 HARDNESS, TOTAL (MG/L AS CACO3)		11/29/73-07/09/75	13	367.	363.615	510.	211.	5833.756	76.379	231.	336.	399.	488.8
00915 CALCIUM, DISSOLVED (MG/L AS CA)		11/29/73-07/09/75	13	107.	108.	160.	65.	567.	23.812	73.8	94.	118.	151.6
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		11/29/73-07/09/75	13	24.	24.462	27.	23.	2.436	1.561	23.	23.	26.	27.
00930 SODIUM, DISSOLVED (MG/L AS NA)		11/29/73-11/29/77	28	20.	20.429	25.	18.	2.624	1.62	18.9	19.	21.	22.2
00931 SODIUM ADSORPTION RATIO		11/29/73-07/09/75	13	0.5	0.454	0.5	0.4	0.003	0.052	0.4	0.4	0.5	0.5
00935 POTASSIUM, DISSOLVED (MG/L AS K)		11/29/73-07/09/75	13	7.	7.077	13.	4.	5.077	2.253	4.4	5.5	8.	11.
00940 CHLORIDE,TOTAL IN WATER	MG/L	11/29/73-11/29/77	28	6.5	7.821	42.	4.	48.374	6.955	4.	5.	8.	9.3
00945 SULFATE, TOTAL (MG/L AS SO4)		11/29/73-07/09/75	13	138.	138.154	201.	84.	1498.474	38.71	86.8	106.	177.5	195.8
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		02/04/74-11/29/77	26	625.	1261.538	10900.	5.	4942064.658	2223.075	52.9	240.75	1190.	3850.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		02/04/74-11/29/77	26	2.796	2.666	4.037	0.699	0.506	0.711	1.669	2.381	3.072	3.585
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C				GEOMETRIC MEAN =	462.961								

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

EPA Water Quality Criteria Analysis for Station: MNRR0017

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	29	2	0.07	4	0	0.00	2	0	0.00	10	2	0.20	13	0	0.00
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	29	0	0.00	4	0	0.00	2	0	0.00	10	0	0.00	13	0	0.00
00400 PH	Fresh Chronic	9.	27	1	0.04	3	0	0.00	2	0	0.00	9	1	0.11	13	0	0.00
	Other-Lo Lim.	6.5	27	0	0.00	3	0	0.00	2	0	0.00	9	0	0.00	13	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	28	0	0.00	4	0	0.00	2	0	0.00	10	0	0.00	12	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	28	0	0.00	4	0	0.00	2	0	0.00	10	0	0.00	12	0	0.00
	Drinking Water	250.	28	0	0.00	4	0	0.00	2	0	0.00	10	0	0.00	12	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	13	0	0.00	2	0	0.00	2	0	0.00	5	0	0.00	4	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	26	21	0.81	3	2	0.67	2	1	0.50	9	7	0.78	12	11	0.92

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

Station Inventory for Station: MNRR0018

NPS Station ID: MNRR0018 LAT/LON: 42.756948/ -97.172226 Agency: 1117MBR Date Created: 01/13/96
Location: BOW CREEK NORTH OF WYNOT, NEBRASKA. FIPS State/County: 31027 NEBRASKA/CEDAR
Station Type: /TYPA/AMBNT/FISH/STREAM STORET Station ID(s): 009445
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10170203001300.00 RF3 Mile Point: 6.56 Distance from RF3: 0.09 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0018

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71930 MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS		09/18/96-09/18/96	6	0.09	0.093	0.16	0.05	0.001	0.036	**	**	**	**
81614 NUMBER OF INDIVIDUALS IN THE SAMPLE		09/18/96-09/18/96	6	3.	3.	3.	3.	0.	0.	**	**	**	**
82655 FISH LENGTH, TOTAL	CM	09/19/95-09/18/96	27	47.5	47.152	59.5	38.5	31.059	5.573	38.5	42.3	52.	54.4
82656 FISH, WHOLE, WET WEIGHT	GRAM	09/19/95-09/18/96	27	1088.	1172.37	2420.	408.	314056.396	560.407	448.	711.	1670.	2014.6

** - 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

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

Station Inventory for Station: MNRR0019

NPS Station ID: MNRR0019
LAT/LON: 42.800559/ -97.179726
Agency: 21NEB001
Date Created: 06/22/96
Location: UN TRIB OF MISSOURI RIVER
FIPS State/County: 31027 NEBRASKA/CEDAR
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): MT2110
RMI-Indexes:
Within Park Boundary: Yes
RMI-Miles:
HUC: 10170101
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NEMT2-00000
Minor Basin:
ECO Region: 46G
RF1 Index: 10170101
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10170203001300.00
RF3 Mile Point: 6.56
Distance from RF3: 0.09
On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0019

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: MNRR0020

NPS Station ID: MNRR0020 LAT/LON: 42.850281/ -97.220003 Agency: 112WRD Date Created: 06/14/80
Location: MISSOURI R NEAR GAYVILLE SD FIPS State/County: 46135 SOUTH DAKOTA/YANKTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 06478515
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 10170101001900.00 RF3 Mile Point: 0.00 Distance from RF3: 0.23 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0020

	Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)		10/16/79-08/19/80	169	1005.	1008.254	1015.	1005.	17.322	4.162	1005.	1005.	1010.	1015.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/16/79-10/20/81	11	20.5	19.182	27.	12.	26.964	5.193	12.2	14.5	24.	26.6
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)		04/22/80-10/20/81	10	26.5	25.95	34.	17.	37.247	6.103	17.15	18.875	31.75	33.85
00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/16/79-10/20/81	11	33900.	34090.909	39800.	28500.	10028909.091	3166.845	29080.	32200.	36600.	39360.
00065	STAGE, STREAM (FEET)		10/16/79-08/19/80	169	41.	40.72	41.18	40.	0.207	0.455	40.	40.46	41.07	41.18
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		07/15/80-10/20/81	8	830.	818.75	850.	740.	1326.786	36.425	**	**	**	**
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM		10/16/79-10/20/81	302	38.	41.281	93.	2.	414.94	20.37	16.	25.75	55.	72.
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM		07/21/81-07/21/81	1	56.	56.	56.	56.	0.	0.	**	**	**	**
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM		10/16/79-10/20/81	284	42.	45.567	97.	7.	413.356	20.331	20.5	30.	60.	75.
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM		10/16/79-10/20/81	284	54.	56.032	100.	10.	433.819	20.828	31.	40.	70.75	88.
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM		10/16/79-10/20/81	280	92.	86.232	100.	18.	233.039	15.266	63.1	76.	100.	100.
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM		10/16/79-10/20/81	209	100.	99.416	100.	64.	8.244	2.871	99.	100.	100.	100.
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM		04/22/80-10/20/81	29	100.	99.862	100.	96.	0.552	0.743	100.	100.	100.	100.
70347	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 2.00MM		06/09/81-06/09/81	1	100.	100.	100.	100.	0.	0.	**	**	**	**
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)		10/16/79-10/20/81	301	88.	113.761	824.	9.	8020.716	89.558	43.	60.5	141.	213.6
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)		04/22/80-10/20/81	4	6290.	6231.25	12300.	45.	28088506.25	5299.859	**	**	**	**
80158	BED MATERIAL FALL DIAMETER, % FINER THAN .062MM		04/22/80-07/21/81	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
80159	BED MATERIAL FALL DIAMETER, % FINER THAN .125MM		10/16/79-10/20/81	47	0.	0.043	1.	0.	0.042	0.204	0.	0.	0.	0.
80160	BED MATERIAL FALL DIAMETER, % FINER THAN .250MM		10/16/79-10/20/81	53	7.	10.377	60.	0.	105.086	10.251	3.	5.	11.5	21.8
80161	BED MATERIAL FALL DIAMETER, % FINER THAN .500MM		10/16/79-10/20/81	53	64.	59.811	99.	13.	562.233	23.711	26.2	41.	81.5	91.
80162	BED MATERIAL FALL DIAMETER, % FINER THAN 1.00MM		10/16/79-10/20/81	53	92.	86.981	100.	31.	210.788	14.519	68.4	78.	97.5	100.
80163	BED MATERIAL FALL DIAMETER, % FINER THAN 2.00MM		10/20/81-10/20/81	4	86.	87.5	100.	78.	86.333	9.292	**	**	**	**
80169	BED MATERIAL SIEVE DIAMETER,% FINER THAN 2.00MM		10/16/79-10/20/81	53	94.	90.283	100.	61.	98.822	9.941	75.4	83.5	98.	100.
80170	BED MATERIAL SIEVE DIAMETER,% FINER THAN 4.00MM		10/16/79-10/20/81	48	96.	93.896	100.	74.	41.074	6.409	85.8	91.	99.	100.
80171	BED MATERIAL SIEVE DIAMETER,% FINER THAN 8.00MM		10/16/79-10/20/81	45	98.	97.422	100.	89.	7.613	2.759	94.6	96.	100.	100.
80172	BED MATERIAL SIEVE DIAMETER,% FINER THAN 16.0MM		10/16/79-10/20/81	43	100.	99.233	100.	96.	1.135	1.065	97.	99.	100.	100.
80173	BED MATERIAL SIEVE DIAMETER,% FINER THAN 32.0MM		10/16/79-10/20/81	24	100.	99.958	100.	99.	0.042	0.204	100.	100.	100.	100.
81903	DEPTH OF BOTTOM OF WATER BODY @ SAMPLE SITE,	FEET	10/16/79-10/20/81	326	12.6	12.467	22.2	3.9	20.318	4.508	6.5	9.	15.7	18.
81904	STREAM VELOCITY, POINT, IN FEET PER SECOND		10/16/79-10/20/81	302	3.21	3.254	5.34	1.07	0.495	0.704	2.433	2.74	3.68	4.221

** - Less than 9 observations ## - 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: MNRR0021

NPS Station ID: MNRR0021
LAT/LON: 42.777781/ -97.249726
Agency: 21NEB001
Date Created: 04/16/88
Location: TRIB TO SECOND BOW CREEK
FIPS State/County: 31027 NEBRASKA/CEDAR
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): MT2107
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10170101
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NEMT2-11311.1
Minor Basin:
ECO Region: 46G
RF1 Index: 10170101
RF1 Mile Point: 0.000
Distance from RF1: 2.50
On/Off RF1:
RF3 Index: 10170101097700.00
RF3 Mile Point: 0.00
Distance from RF3: 0.18
On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0021

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: MNRR0022

NPS Station ID: MNRR0022
LAT/LON: 42.904170/ -97.325005
Agency: 112WRD
Date Created: 12/02/81
Location: 93N55W 3ABBB
FIPS State/County: 46135 SOUTH DAKOTA/YANKTON
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 425415097193001
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10160011
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10160011
RF1 Mile Point: 0.000
Distance from RF1: 6.50
On/Off RF1:
RF3 Index: 10170101000701.58
RF3 Mile Point: 5.75
Distance from RF3: 0.44
On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0022

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/22/80-10/22/80	1	9.5	9.5	9.5	9.5	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/22/80-10/22/80	1	1650.	1650.	1650.	1650.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		10/22/80-10/22/80	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		10/22/80-10/22/80	1	8.4	8.4	8.4	8.4	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/22/80-10/22/80	1	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS	SU	10/22/80-10/22/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		10/22/80-10/22/80	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/22/80-10/22/80	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		10/22/80-10/22/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)		10/22/80-10/22/80	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)		10/22/80-10/22/80	1	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		10/22/80-10/22/80	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		10/22/80-10/22/80	1	670.	670.	670.	670.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		10/22/80-10/22/80	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)		10/22/80-10/22/80	1	140.	140.	140.	140.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		10/22/80-10/22/80	1	77.	77.	77.	77.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)		10/22/80-10/22/80	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO		10/22/80-10/22/80	1	1.9	1.9	1.9	1.9	0.	0.	**	**	**	**
00932 SODIUM, PERCENT		10/22/80-10/22/80	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)		10/22/80-10/22/80	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	10/22/80-10/22/80	1	42.	42.	42.	42.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		10/22/80-10/22/80	1	620.	620.	620.	620.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)		10/22/80-10/22/80	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SIO2)		10/22/80-10/22/80	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01020 BORON, DISSOLVED (UG/L AS B)		10/22/80-10/22/80	1	380.	380.	380.	380.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)		10/22/80-10/22/80	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)		10/22/80-10/22/80	1	190.	190.	190.	190.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)		10/22/80-10/22/80	1	1190.	1190.	1190.	1190.	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT		10/22/80-10/22/80	1	1.62	1.62	1.62	1.62	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: MNRR0022

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 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
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: MNRR0023

NPS Station ID: MNRR0023 LAT/LON: 42.903338/ -97.333338 Agency: 21NEB002 Date Created: / /
Location: SAND CREEK NEAR STANTON, NB FIPS State/County: 31167 NEBRASKA/STANTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 020134
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10220003 Depth of Water: 1 Aquifer:
Major Basin: MISSOURI Elevation: 0 Water Body Id:
Minor Basin: PLATTE ECO Region:
RF1 Index: 10220003019 RF1 Mile Point: 5.430 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 10170101054100.00 RF3 Mile Point: 3.74 Distance from RF3: 0.34 On/Off RF3:
Description:
SAND CREEK 5 N, 6 W OF STANTON, NB SECTION 16 T22N R1E

Parameter Inventory for Station: MNRR0023

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	07/31/72-07/31/72	1	79.	79.	79.	79.	0.	0.	**	**	**	**
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	07/31/72-07/31/72	1	79.	79.	79.	79.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/31/72-07/31/72	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/31/72-07/31/72	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/31/72-07/31/72	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	07/31/72-07/31/72	1	188.	188.	188.	188.	0.	0.	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/31/72-07/31/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	07/31/72-07/31/72	1	171.	171.	171.	171.	0.	0.	**	**	**	**
48009 LEPOMIS CYANELLUS-GREEN SUNFISH-#/EFFORT	07/31/72-07/31/72	1	55.	55.	55.	55.	0.	0.	**	**	**	**
48019 ICTALURUS MELAS-BLACK BULLHEAD-#/EFFORT	07/31/72-07/31/72	1	33.	33.	33.	33.	0.	0.	**	**	**	**
48027 HYBOGNATHUS HANKINSONI-BRASSY MINNOW-#/EFFORT	07/31/72-07/31/72	1	2.	2.	2.	2.	0.	0.	**	**	**	**
48028 PIMEPHALES PROMELAS-FATHEAD MINNOW-#/EFFORT	07/31/72-07/31/72	1	48.	48.	48.	48.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: MNRR0023

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 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

Station Inventory for Station: MNRR0024

NPS Station ID: MNRR0024 LAT/LON: 42.833338/ -97.366671 Agency: 21NEB002 Date Created: / /
Location: SPRING CREEK NEAR NORFOLK, NB FIPS State/County: 31119 NEBRASKA/MADISON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 020131
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 1 Aquifer:
Major Basin: MISSOURI Elevation: 0 Water Body Id:
Minor Basin: PLATTE ECO Region:
RF1 Index: 10170101067 RF1 Mile Point: 1.430 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 10170203145600.00 RF3 Mile Point: 5.59 Distance from RF3: 0.28 On/Off RF3:
Description:
SPRING CREEK 1 N OF NORFOLK, NB SECTION 11 T24N R1W

Parameter Inventory for Station: MNRR0024

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	07/13/72-07/13/72	1	60.	60.	60.	60.	0.	0.	**	**	**	**
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	07/13/72-07/13/72	1	68.	68.	68.	68.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/13/72-07/13/72	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/13/72-07/13/72	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/13/72-07/13/72	1	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	07/13/72-07/13/72	1	188.	188.	188.	188.	0.	0.	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/13/72-07/13/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	07/13/72-07/13/72	1	222.	222.	222.	222.	0.	0.	**	**	**	**
48023 NOTROPIS STRAMINEUS-SAND SHINER-#/EFFORT	07/13/72-07/13/72	1	5.	5.	5.	5.	0.	0.	**	**	**	**
48024 NOTROPIS DORSALIS-BIGMOUTH SHINER-#/EFFORT	07/13/72-07/13/72	1	19.	19.	19.	19.	0.	0.	**	**	**	**
48025 NOTROPIS LUTRENSIS-RED SHINER-#/EFFORT	07/13/72-07/13/72	1	1.	1.	1.	1.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: MNRR0024

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00400 PH	Fresh Chronic	9.	1	0	0.00												
	Other-Lo Lim.	6.5	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: MNRR0025

NPS Station ID: MNRR0025 LAT/LON: 42.871670/ -97.375005 Agency: 121MBRCE Date Created: 08/28/82
Location: LAKE YANKTON DEEP FIPS State/County: 46135 SOUTH DAKOTA/YANKTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 46CELY
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 22 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: LOWER MISSOURI R FROM NIOBRARA R ECO Region:
RF1 Index: 10170101016 RF1 Mile Point: 0.510 Distance from RF1: 0.00 On/Off RF1: ON
RF3 Index: 10170101001800.00 RF3 Mile Point: 0.00 Distance from RF3: 0.30 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0025

	Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/18/82-10/02/97	353	19.4	17.387	30.	0.2	68.543	8.279	4.	11.2	25.	27.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)		10/18/82-10/02/97	87	21.	19.391	40.	-11.	114.34	10.693	-0.2	13.	29.	33.
00032	CLOUD COVER (PERCENT)		10/18/82-08/06/97	84	40.	45.321	100.	0.	1732.389	41.622	0.	1.	95.	100.
00035	WIND VELOCITY (MILES PER HOUR)		10/18/82-10/02/97	85	10.	8.553	20.	0.	29.917	5.47	0.	5.	15.	15.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		02/10/83-10/02/97	86	3.	3.167	15.	0.	7.024	2.65	0.82	1.75	4.	6.
00078	TRANSPARENCY, SECCHI DISC (METERS)		10/18/82-10/02/97	77	1.8	1.823	4.2	0.3	0.781	0.884	0.794	1.1	2.5	3.
00080	COLOR (PLATINUM-COBALT UNITS)		05/18/83-07/08/97	17	10.	10.353	20.	3.	32.118	5.667	4.6	5.	15.	20.
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		07/27/88-07/08/97	103	0.3	22.181	330.	0.08	5872.382	76.631	0.1	0.2	0.3	0.5
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		10/18/82-10/02/97	347	878.	798.222	1238.	185.	56575.503	237.856	426.	570.	969.	1021.
00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	10/18/82-10/02/97	341	9.4	9.539	19.	2.7	5.637	2.374	6.9	8.	10.7	12.56
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	10/02/97-10/02/97	4	129.3	129.325	130.3	128.4	0.629	0.793	**	**	**	**
00400	PH (STANDARD UNITS)		10/18/82-10/02/97	243	8.13	8.	9.4	5.2	0.394	0.628	7.332	7.78	8.3	8.506
00400	CONVERTED PH (STANDARD UNITS)		10/18/82-10/02/97	243	8.13	6.852	9.4	5.2	1.718	1.311	7.332	7.78	8.3	8.506
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/18/82-10/02/97	243	0.007	0.141	6.31	0.	0.648	0.805	0.003	0.005	0.017	0.047
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		02/10/83-10/02/97	86	144.5	154.256	279.	62.	2660.404	51.579	96.7	115.75	186.75	240.2
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		02/10/83-10/02/97	46	688.	700.935	906.	406.	11877.796	108.985	573.	641.	780.5	866.3
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)		05/18/83-10/02/97	39	4.	6.821	29.	0.	47.941	6.924	2.	3.	8.	22.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		02/10/83-10/02/97	86	0.01	0.039	0.37	0.	0.004	0.063	0.005	0.01	0.04	0.146
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)		02/10/83-10/02/97	46##	0.005	0.008	0.11	0.	0.	0.017	0.	0.005	0.005	0.01
00619	AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4)	(MG/L)	02/10/83-10/02/97	86##	0.005	0.005	0.04	0.	0.	0.004	0.	0.005	0.005	0.005
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)		02/10/83-10/02/97	86	0.075	0.228	3.66	0.	0.262	0.512	0.005	0.02	0.233	0.487
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		05/18/83-10/02/97	85	0.4	0.445	1.01	0.05	0.051	0.225	0.2	0.3	0.6	0.8
00665	PHOSPHORUS, TOTAL (MG/L AS P)		02/10/83-10/02/97	86	0.03	0.057	0.7	0.	0.009	0.094	0.009	0.02	0.05	0.143
00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	07/12/83-10/02/97	22##	0.005	0.004	0.005	0.	0.	0.002	0.	0.003	0.005	0.005
00900	HARDNESS, TOTAL (MG/L AS CACO3)		02/10/83-10/02/97	86	362.5	369.57	559.	203.	6088.648	78.03	276.8	313.5	408.25	480.8
00916	CALCIUM, TOTAL (MG/L AS CA)		06/07/83-08/06/97	29	88.	88.621	134.	41.	434.887	20.854	65.	78.	100.5	122.
00927	MAGNESIUM, TOTAL (MG/L AS MG)		06/07/83-08/06/97	29	29.	29.379	35.	24.	9.744	3.122	25.	27.	32.5	34.
00929	SODIUM, TOTAL (MG/L AS NA)		06/07/83-08/06/97	29	67.	66.059	81.	37.	88.87	9.427	55.	62.5	72.5	76.
00931	SODIUM ADSORPTION RATIO		06/07/83-08/06/97	29	2.	1.845	2.	1.	0.084	0.29	1.4	1.8	2.	2.
00937	POTASSIUM, TOTAL MG/L AS K)		06/07/83-08/06/97	29	9.	9.197	18.	1.	7.627	2.762	7.	8.	10.	11.
00940	CHLORIDE,TOTAL IN WATER	MG/L	08/10/83-06/10/97	15	15.	14.533	19.	2.	15.124	3.889	8.	14.	16.	18.4
00945	SULFATE, TOTAL (MG/L AS SO4)		05/18/83-10/02/97	43	332.	350.698	760.	186.	10798.93	103.918	240.4	294.	360.	506.
01002	ARSENIC, TOTAL (UG/L AS AS)		06/07/83-10/02/97	44	1.	1.909	5.	1.	1.34	1.158	1.	1.	3.	3.5
01007	BARIUM, TOTAL (UG/L AS BA)		06/07/83-06/10/97	14	36.5	34.429	57.	7.	168.11	12.966	10.5	29.	40.75	53.5
01012	BERYLLIUM, TOTAL (UG/L AS BE)		06/07/83-10/02/97	44##	1.	0.909	1.	0.	0.085	0.291	0.5	1.	1.	1.
01022	BORON, TOTAL (UG/L AS B)		06/07/83-06/10/97	21	158.	166.667	269.	126.	1104.033	33.227	133.8	147.	177.	217.2
01027	CADMIUM, TOTAL (UG/L AS CD)		06/07/83-10/02/97	45##	0.1	0.367	2.	0.	0.275	0.525	0.1	0.1	0.3	1.5
01034	CHROMIUM, TOTAL (UG/L AS CR)		06/07/83-10/02/97	44##	2.5	2.659	10.	0.	3.335	1.826	1.	2.5	2.5	3.25

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

Parameter Inventory for Station: MNRR0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01042 COPPER, TOTAL (UG/L AS CU)	06/07/83-10/02/97	45##	2.5	2.778	7.	0.	1.699	1.304	2.5	2.5	2.5	5.
01045 IRON, TOTAL (UG/L AS FE)	02/10/83-10/02/97	52	108.5	131.538	468.	5.	11087.43	105.297	33.8	56.25	164.	291.7
01051 LEAD, TOTAL (UG/L AS PB)	06/07/83-10/02/97	41	5.	6.354	24.	0.	34.628	5.885	1.	1.	10.	16.
01055 MANGANESE, TOTAL (UG/L AS MN)	02/10/83-10/02/97	52	71.5	204.923	2010.	12.	129144.229	359.366	19.6	32.25	171.	754.7
01067 NICKEL, TOTAL (UG/L AS NI)	06/07/83-10/02/97	34##	2.5	4.324	12.	0.	10.362	3.219	2.5	2.5	6.25	10.
01077 SILVER, TOTAL (UG/L AS AG)	06/07/83-10/02/97	42##	0.1	0.455	5.	0.	1.634	1.278	0.	0.1	0.1	0.4
01092 ZINC, TOTAL (UG/L AS ZN)	06/07/83-10/02/97	45	4.	4.222	11.	1.	6.995	2.645	1.	1.5	6.	7.
01097 ANTIMONY, TOTAL (UG/L AS SB)	06/07/83-06/10/97	21##	1.	4.31	47.	0.	105.112	10.252	0.	1.	1.75	10.
01147 SELENIUM, TOTAL (UG/L AS SE)	06/07/83-07/08/97	24##	1.	1.042	2.5	0.	0.194	0.44	0.75	1.	1.	1.5
30295 PROPACHLOR, WATER, WHOLE, RECOVERABLE, UG/L	06/12/89-06/12/89	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/18/82-06/07/83	2	0.	0.	0.	0.	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/18/82-06/07/83	2	0.	0.	0.	0.	0.	0.	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		1.								
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/18/82-10/02/97	45	3.	9.891	76.	0.	267.836	16.366	0.5	0.5	14.5	27.8
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/06/87-10/02/97	32##	0.5	7.578	80.	0.5	240.663	15.513	0.5	0.5	7.75	26.8
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/18/83-05/12/97	15##	5.	5.733	15.	0.	10.21	3.195	3.	5.	5.	12.
34292 N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	8##	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
34336 DIETHYL PHTHALATE TOTWUG/L	06/05/84-08/11/86	8##	0.245	0.245	0.245	0.245	0.	0.	**	**	**	**
34341 DIMETHYL PHTHALATE TOTWUG/L	06/05/84-08/11/86	8##	0.145	0.145	0.145	0.145	0.	0.	**	**	**	**
34361 ENDOSULFAN, ALPHA TOTWUG/L	10/18/82-05/30/95	26##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
34596 DI-N-OCTYL PHTHALATE TOTWUG/L	06/05/84-08/11/86	8##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39026 STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	10/18/82-08/06/91	19##	0.05	0.197	0.4	0.05	0.032	0.178	0.05	0.05	0.4	0.4
39033 ATRAZINE IN WHOLE WATER SAMPLE UG/L	08/03/87-08/06/97	21##	0.05	0.071	0.3	0.05	0.003	0.056	0.05	0.05	0.075	0.1
39055 SIMAZINE IN WHOLE WATER (UG/L)	08/11/86-08/06/97	22##	0.05	0.136	1.	0.05	0.058	0.242	0.05	0.05	0.05	0.58
39100 BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	8##	1.	1.	1.	1.	0.	0.	**	**	**	**
39110 DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	8##	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
39315 O.P' DDD IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/11/86	10##	0.013	0.013	0.015	0.013	0.	0.001	0.013	0.013	0.013	0.015
39330 ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39337 ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/12/89-08/07/89	2##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/18/82-08/06/97	32##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39356 METOLACHLOR(DUAL) IN WHOLE WATER UG/L	08/03/87-08/06/97	21##	0.05	0.071	0.5	0.05	0.01	0.098	0.05	0.05	0.05	0.05
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39370 DDT IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39388 ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	08/15/95-08/06/97	5##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39390 ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39400 TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.05	0.14	0.4	0.05	0.024	0.156	0.05	0.05	0.4	0.4
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	32##	0.05	0.161	0.5	0.	0.04	0.199	0.05	0.05	0.388	0.5
39570 DIAZINON IN WHOLE WATER SAMPLE (UG/L)	08/03/87-08/06/97	21##	0.05	0.07	0.5	0.015	0.01	0.099	0.05	0.05	0.05	0.05
39782 LINDANE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/10/83-10/02/97	86	0.005	0.011	0.1	0.	0.	0.014	0.	0.005	0.01	0.03
71900 MERCURY, TOTAL (UG/L AS HG)	07/12/83-10/02/97	21##	0.1	0.155	0.6	0.	0.018	0.134	0.1	0.1	0.15	0.38
77729 RAMROD WHOLE WATER,UG/L	08/03/87-08/06/97	20##	0.05	0.048	0.05	0.	0.	0.011	0.05	0.05	0.05	0.05
77825 ALACHLOR WHOLE WATER,UG/L	08/03/87-08/06/97	21##	0.05	0.052	0.1	0.05	0.	0.011	0.05	0.05	0.05	0.05
81283 BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	10/18/82-08/06/97	29##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
81284 TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	06/06/94-08/06/97	8##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81408 METRIBUZIN (SENCOR), WATER, WHOLE UG/L	08/03/87-08/06/97	20##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
82052 BANVEL (DICAMBA) WHOLE WATER,UG/L	06/06/94-08/06/97	8##	0.05	0.056	0.1	0.05	0.	0.018	**	**	**	**
82131 ICE, THICKNESS IN METERS	02/17/88-02/06/96	9	0.31	0.361	0.6	0.14	0.027	0.165	0.14	0.225	0.525	0.6
82611 METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/12/89-06/12/89	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: MNRR0025

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	86	0	0.00				14	0	0.00	43	0	0.00	29	0	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: MNRR0025

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	341	3	0.01				45	3	0.07	177	0	0.00	119	0	0.00
00400 PH	Fresh Chronic	9.	243	7	0.03				36	0	0.00	125	7	0.06	82	0	0.00
	Other-Lo Lim.	6.5	243	6	0.02				36	3	0.08	125	0	0.00	82	3	0.04
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	46	0	0.00				14	0	0.00	17	0	0.00	15	0	0.00
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	86	0	0.00				14	0	0.00	43	0	0.00	29	0	0.00
00720 CYANIDE, TOTAL	Fresh Acute	0.022	22	0	0.00							12	0	0.00	10	0	0.00
	Drinking Water	0.2	22	0	0.00							12	0	0.00	10	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	15	0	0.00							9	0	0.00	6	0	0.00
	Drinking Water	250.	15	0	0.00							9	0	0.00	6	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	43	38	0.88							29	25	0.86	14	13	0.93
01002 ARSENIC, TOTAL	Fresh Acute	360.	44	0	0.00				9	0	0.00	16	0	0.00	19	0	0.00
	Drinking Water	50.	44	0	0.00				9	0	0.00	16	0	0.00	19	0	0.00
01007 BARIUM, TOTAL	Drinking Water	2000.	14	0	0.00							14	0	0.00			
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	44	0	0.00				9	0	0.00	16	0	0.00	19	0	0.00
	Drinking Water	4.	44	0	0.00				9	0	0.00	16	0	0.00	19	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	45	0	0.00				9	0	0.00	16	0	0.00	20	0	0.00
	Drinking Water	5.	45	0	0.00				9	0	0.00	16	0	0.00	20	0	0.00
01034 CHROMIUM, TOTAL	Drinking Water	100.	44	0	0.00				9	0	0.00	16	0	0.00	19	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	45	0	0.00				9	0	0.00	16	0	0.00	20	0	0.00
	Drinking Water	1300.	45	0	0.00				9	0	0.00	16	0	0.00	20	0	0.00
01051 LEAD, TOTAL	Fresh Acute	82.	41	0	0.00				9	0	0.00	16	0	0.00	16	0	0.00
	Drinking Water	15.	41	5	0.12				9	1	0.11	16	1	0.06	16	3	0.19
01067 NICKEL, TOTAL	Fresh Acute	1400.	34	0	0.00							14	0	0.00	20	0	0.00
	Drinking Water	100.	34	0	0.00							14	0	0.00	20	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	39&	0	0.00				9	0	0.00	13	0	0.00	17	0	0.00
	Drinking Water	100.	42	0	0.00				9	0	0.00	14	0	0.00	19	0	0.00
01092 ZINC, TOTAL	Fresh Acute	120.	45	0	0.00				9	0	0.00	16	0	0.00	20	0	0.00
	Drinking Water	5000.	45	0	0.00				9	0	0.00	16	0	0.00	20	0	0.00
01097 ANTIMONY, TOTAL	Fresh Acute	88.	21	0	0.00							14	0	0.00	7	0	0.00
	Drinking Water	6.	19&	2	0.11							13	1	0.08	6	1	0.17
01147 SELENIUM, TOTAL	Fresh Acute	20.	24	0	0.00							20	0	0.00	4	0	0.00
	Drinking Water	50.	24	0	0.00							20	0	0.00	4	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	0	0.00							1	0	0.00	1	0	0.00
34361 ENDOSULFAN, ALPHA	Fresh Acute	0.22	26	0	0.00							12	0	0.00	14	0	0.00
39033 ATRAZINE IN WHOLE WATER SAMPLE	Drinking Water	3.	21	0	0.00							10	0	0.00	11	0	0.00
39055 SIMAZINE IN WHOLE WATER	Drinking Water	4.	22	0	0.00							10	0	0.00	12	0	0.00
39100 BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	8	0	0.00							4	0	0.00	4	0	0.00
	Drinking Water	6.	8	0	0.00							4	0	0.00	4	0	0.00
39330 ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	31	0	0.00							14	0	0.00	17	0	0.00
39350 CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	32	0	0.00							15	0	0.00	17	0	0.00
	Drinking Water	2.	32	0	0.00							15	0	0.00	17	0	0.00
39365 DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	31	0	0.00							14	0	0.00	17	0	0.00
39370 DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	31	0	0.00							14	0	0.00	17	0	0.00
39380 DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	31	0	0.00							14	0	0.00	17	0	0.00
39388 ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	5	0	0.00							2	0	0.00	3	0	0.00
39390 ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	31	0	0.00							14	0	0.00	17	0	0.00
	Drinking Water	2.	31	0	0.00							14	0	0.00	17	0	0.00
39400 TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	31	0	0.00							14	0	0.00	17	0	0.00
	Drinking Water	3.	31	0	0.00							14	0	0.00	17	0	0.00
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	31	0	0.00							14	0	0.00	17	0	0.00
	Drinking Water	0.2	31	0	0.00							14	0	0.00	17	0	0.00
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	31	0	0.00							14	0	0.00	17	0	0.00
39782 LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	31	0	0.00							14	0	0.00	17	0	0.00
	Drinking Water	0.2	31	0	0.00							7	0	0.00	14	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	21	0	0.00							7	0	0.00	14	0	0.00
	Drinking Water	2.	21	0	0.00							13	0	0.00	16	0	0.00
81283 BENZENEHEXACHLORIDE, WHOLE WATER	Fresh Acute	100.	29	0	0.00												

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

Annual Analysis for 1982 - Station MNRR0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/02/97	4	12.95	12.95	13.	12.9	0.003	0.058	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/02/97	4	866.	865.5	867.	863.	3.	1.732	**	**	**	**
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/82-10/02/97	4	10.35	10.35	10.4	10.3	0.003	0.058	**	**	**	**
00400 PH (STANDARD UNITS)	10/18/82-10/02/97	4	8.3	8.275	8.3	8.2	0.003	0.05	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/18/82-10/02/97	4	8.3	8.273	8.3	8.2	0.003	0.05	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/02/97	4	0.005	0.005	0.006	0.005	0.	0.001	**	**	**	**

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

Annual Analysis for 1983 - Station MNRR0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/02/97	24	16.7	16.788	28.	1.	78.066	8.836	2.5	11.	26.	27.75
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/02/97	20	850.	789.85	975.	395.	44458.134	210.851	395.	766.75	940.	975.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/82-10/02/97	24	9.1	8.633	11.4	6.3	2.701	1.643	6.4	6.9	9.8	10.9

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

Annual Analysis for 1984 - Station MNRR0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/02/97	25	22.	17.12	30.	2.	90.027	9.488	3.2	9.	25.5	29.4
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/02/97	25	525.	522.24	621.	435.	2259.607	47.535	435.	500.	555.	576.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/82-10/02/97	25	9.	9.208	13.	4.	4.814	2.194	6.34	8.	10.95	12.2

** - 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 1985 - Station MNRR0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/02/97	27	23.	18.407	27.	3.	64.789	8.049	4.	10.	25.	27.
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/02/97	27	440.	536.815	1085.	350.	55472.926	235.527	351.	375.	770.	1029.8
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/82-10/02/97	24	11.9	10.979	17.	4.5	8.175	2.859	8.	8.45	12.2	15.1
00400 PH (STANDARD UNITS)	10/18/82-10/02/97	11	7.8	7.205	8.25	5.4	1.324	1.151	5.4	5.5	7.8	8.22
00400 CONVERTED PH (STANDARD UNITS)	10/18/82-10/02/97	11	7.8	5.991	8.25	5.4	2.945	1.716	5.4	5.5	7.8	8.22
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/02/97	11	0.016	1.022	3.981	0.006	3.021	1.738	0.006	0.016	3.162	3.981

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

Annual Analysis for 1986 - Station MNRR0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/02/97	21	23.	19.095	26.	2.	62.79	7.924	2.8	17.	24.	26.
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/02/97	21	342.	344.905	462.	185.	6433.69	80.21	244.	286.5	408.	462.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/82-10/02/97	21	9.	9.871	19.	6.1	10.484	3.238	6.64	7.85	10.	15.3
00400 PH (STANDARD UNITS)	10/18/82-10/02/97	15	7.7	7.127	8.1	5.2	1.232	1.11	5.2	6.6	8.	8.1
00400 CONVERTED PH (STANDARD UNITS)	10/18/82-10/02/97	15	7.7	5.883	8.1	5.2	2.888	1.699	5.2	6.6	8.	8.1
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/02/97	15	0.02	1.308	6.31	0.008	6.706	2.59	0.008	0.01	0.251	6.31

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

Annual Analysis for 1987 - Station MNRR0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/18/82-10/02/97	16	25.	24.25	29.	17.	18.2	4.266	17.7	19.25	28.25	29.
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		10/18/82-10/02/97	16	455.	449.5	470.	426.	259.467	16.108	426.	430.5	460.	470.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	10/18/82-10/02/97	16	7.3	7.587	8.8	6.6	0.476	0.69	6.88	7.025	8.2	8.66
00400 PH (STANDARD UNITS)		10/18/82-10/02/97	11	7.5	7.282	7.7	6.6	0.202	0.449	6.6	6.6	7.6	7.68
00400 CONVERTED PH (STANDARD UNITS)		10/18/82-10/02/97	11	7.5	7.044	7.7	6.6	0.264	0.514	6.6	6.6	7.6	7.68
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/18/82-10/02/97	11	0.032	0.09	0.251	0.02	0.011	0.104	0.021	0.025	0.251	0.251

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/18/82-10/02/97	21	20.	16.329	27.4	0.2	105.702	10.281	1.12	6.7	26.5	27.3
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		07/27/88-07/08/97	8	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		10/18/82-10/02/97	21	983.	998.952	1238.	902.	8561.748	92.53	909.4	929.5	1018.	1204.6
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	10/18/82-10/02/97	21	8.4	8.386	14.1	2.7	6.938	2.634	3.52	8.	10.3	11.84
00400 PH (STANDARD UNITS)		10/18/82-10/02/97	14	7.81	7.773	8.23	7.21	0.111	0.333	7.225	7.538	8.063	8.195
00400 CONVERTED PH (STANDARD UNITS)		10/18/82-10/02/97	14	7.801	7.649	8.23	7.21	0.127	0.357	7.225	7.537	8.063	8.195
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/18/82-10/02/97	14	0.016	0.022	0.062	0.006	0.	0.019	0.006	0.009	0.03	0.06

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

Annual Analysis for 1989 - Station MNRR0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/18/82-10/02/97	25	21.	17.172	28.	1.	75.485	8.688	3.6	10.5	24.	28.
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		07/27/88-07/08/97	4	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		10/18/82-10/02/97	21	937.	862.381	1011.	490.	36472.548	190.978	490.	872.	985.	1011.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	10/18/82-10/02/97	25	9.6	9.548	15.	6.2	5.573	2.361	6.74	7.6	10.5	13.58
00400 PH (STANDARD UNITS)		10/18/82-10/02/97	16	8.1	8.057	9.1	7.5	0.229	0.479	7.5	7.675	8.163	9.1
00400 CONVERTED PH (STANDARD UNITS)		10/18/82-10/02/97	16	8.1	7.879	9.1	7.5	0.263	0.513	7.5	7.675	8.163	9.1
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/18/82-10/02/97	16	0.008	0.013	0.032	0.001	0.	0.011	0.001	0.007	0.022	0.032

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/18/82-10/02/97	25	21.	18.128	26.5	3.	59.262	7.698	3.92	12.	24.	26.44
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		10/18/82-10/02/97	25	824.	870.36	1059.	784.	9663.49	98.303	784.	799.	998.	1018.4
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	10/18/82-10/02/97	21	12.2	11.705	13.	9.	1.814	1.347	9.2	11.5	12.6	12.8
00400 PH (STANDARD UNITS)		10/18/82-10/02/97	16	8.5	8.406	9.1	7.2	0.229	0.478	7.69	8.125	8.825	8.96
00400 CONVERTED PH (STANDARD UNITS)		10/18/82-10/02/97	16	8.5	8.088	9.1	7.2	0.337	0.58	7.69	8.125	8.825	8.96
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/18/82-10/02/97	16	0.003	0.008	0.063	0.001	0.	0.015	0.001	0.002	0.008	0.028

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

Annual Analysis for 1991 - Station MNRR0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/02/97	25	12.	17.3	28.	4.	74.458	8.629	5.9	10.5	25.5	28.
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/02/97	25	845.	870.08	1161.	428.	33115.077	181.975	730.4	734.5	973.	1161.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/82-10/02/97	21	9.2	9.824	15.2	7.	3.379	1.838	7.24	8.8	11.1	11.8
00400 PH (STANDARD UNITS)	10/18/82-10/02/97	16	8.3	8.281	8.5	8.	0.023	0.152	8.07	8.2	8.4	8.5
00400 CONVERTED PH (STANDARD UNITS)	10/18/82-10/02/97	16	8.3	8.257	8.5	8.	0.024	0.154	8.07	8.2	8.4	8.5
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/02/97	16	0.005	0.006	0.01	0.003	0.	0.002	0.003	0.004	0.006	0.009

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

Annual Analysis for 1992 - Station MNRR0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/02/97	21	19.	14.119	22.5	3.	67.798	8.234	3.	6.25	22.	22.5
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/02/97	24	873.5	862.125	979.	725.	2806.897	52.98	808.	814.25	896.25	920.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/82-10/02/97	20	9.4	10.12	14.2	8.3	3.502	1.871	8.42	8.8	10.35	13.4
00400 PH (STANDARD UNITS)	10/18/82-10/02/97	21	8.2	8.114	8.4	7.3	0.117	0.342	7.42	8.05	8.35	8.4
00400 CONVERTED PH (STANDARD UNITS)	10/18/82-10/02/97	21	8.2	7.946	8.4	7.3	0.147	0.383	7.42	8.05	8.35	8.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/02/97	21	0.006	0.011	0.05	0.004	0.	0.013	0.004	0.004	0.009	0.038

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

Annual Analysis for 1993 - Station MNRR0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/02/97	24	15.95	15.975	25.	2.	57.083	7.555	2.5	13.125	23.5	25.
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	4	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/02/97	24	889.5	892.292	1043.	760.	2389.346	48.881	852.5	876.5	910.5	940.5
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/82-10/02/97	24	8.3	8.592	12.	5.	4.096	2.024	5.8	7.4	10.3	12.
00400 PH (STANDARD UNITS)	10/18/82-10/02/97	24	8.5	8.508	9.4	7.97	0.167	0.409	7.975	8.225	8.675	9.3
00400 CONVERTED PH (STANDARD UNITS)	10/18/82-10/02/97	24	8.5	8.362	9.4	7.97	0.19	0.436	7.975	8.225	8.675	9.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/02/97	24	0.003	0.004	0.011	0.	0.	0.003	0.001	0.002	0.006	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 box-and-whisker plot

Annual Analysis for 1994 - Station MNRR0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/02/97	24	19.85	17.683	27.4	0.6	75.446	8.686	3.7	11.2	25.4	27.15
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	24	0.2	0.199	0.3	0.08	0.007	0.085	0.095	0.1	0.3	0.3
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/02/97	24	900.5	915.792	1170.	772.	13776.259	117.372	772.	828.	969.	1156.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/82-10/02/97	24	9.75	9.375	11.2	6.	1.897	1.377	6.4	9.05	10.275	10.65
00400 PH (STANDARD UNITS)	10/18/82-10/02/97	24	8.2	8.121	8.54	7.26	0.142	0.377	7.295	8.155	8.303	8.525
00400 CONVERTED PH (STANDARD UNITS)	10/18/82-10/02/97	24	8.2	7.91	8.54	7.26	0.189	0.435	7.295	8.155	8.303	8.525
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/02/97	24	0.006	0.012	0.055	0.003	0.	0.016	0.003	0.005	0.007	0.051

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

Annual Analysis for 1995 - Station MNRR0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/18/82-10/02/97	24	17.1	16.358	27.	2.1	57.839	7.605	3.8	11.2	21.3	26.8
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		07/27/88-07/08/97	24	0.4	94.354	330.	0.1	18956.043	137.681	0.1	0.2	244.75	318.
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		10/18/82-10/02/97	23	960.	988.261	1108.	935.	3316.656	57.59	938.	940.	1008.	1101.2
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	10/18/82-10/02/97	24	8.25	8.463	11.	6.3	2.5	1.581	6.4	7.1	9.9	10.8
00400 PH (STANDARD UNITS)		10/18/82-10/02/97	24	7.78	7.775	8.44	7.21	0.116	0.341	7.22	7.598	7.913	8.325
00400 CONVERTED PH (STANDARD UNITS)		10/18/82-10/02/97	24	7.78	7.652	8.44	7.21	0.132	0.363	7.22	7.597	7.912	8.325
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/18/82-10/02/97	24	0.017	0.022	0.062	0.004	0.	0.018	0.005	0.012	0.025	0.06

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

Annual Analysis for 1996 - Station MNRR0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/18/82-10/02/97	24	14.6	16.363	28.2	3.4	69.541	8.339	3.75	12.3	25.55	28.2
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		07/27/88-07/08/97	24	0.3	0.267	0.3	0.2	0.002	0.048	0.2	0.2	0.3	0.3
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		10/18/82-10/02/97	24	978.	993.	1180.	877.	9704.87	98.513	878.	922.75	1021.	1177.5
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	10/18/82-10/02/97	24	10.25	10.446	16.6	4.5	12.34	3.513	6.65	7.3	12.375	16.6
00400 PH (STANDARD UNITS)		10/18/82-10/02/97	24	8.285	8.254	8.79	7.8	0.077	0.278	7.915	8.025	8.415	8.695
00400 CONVERTED PH (STANDARD UNITS)		10/18/82-10/02/97	24	8.28	8.176	8.79	7.8	0.083	0.289	7.915	8.025	8.415	8.695
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/18/82-10/02/97	24	0.005	0.007	0.016	0.002	0.	0.004	0.002	0.004	0.009	0.012

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

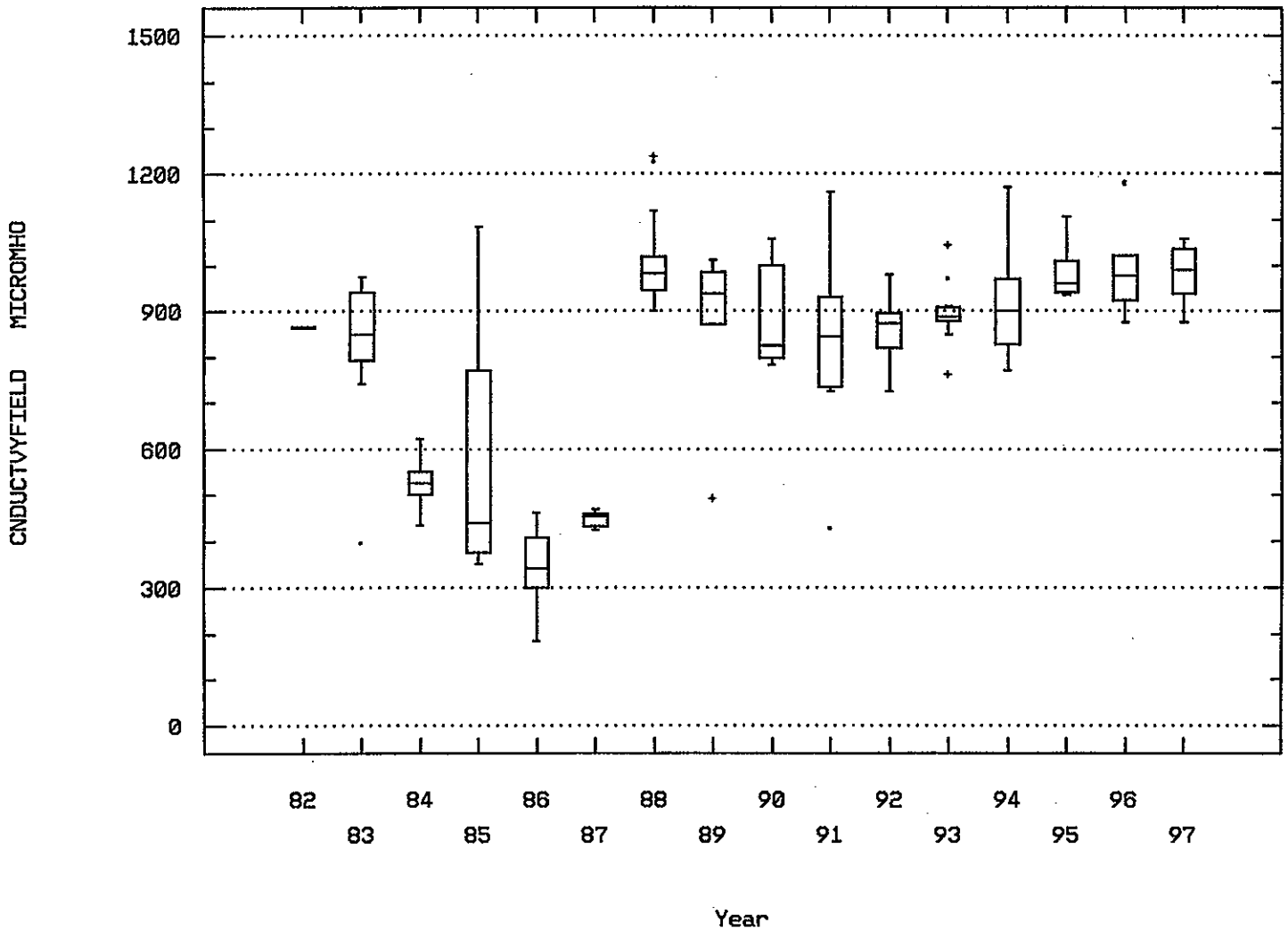
Annual Analysis for 1997 - Station MNRR0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/18/82-10/02/97	23	19.4	18.326	27.5	3.4	53.323	7.302	5.2	14.3	23.2	27.38
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		07/27/88-07/08/97	15	0.3	0.307	0.4	0.2	0.005	0.07	0.2	0.3	0.4	0.4
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		10/18/82-10/02/97	23	990.	977.957	1059.	877.	4250.953	65.199	877.4	939.	1037.	1059.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	10/18/82-10/02/97	23	9.7	9.896	15.	7.1	3.016	1.737	7.5	9.1	11.3	11.56
00400 PH (STANDARD UNITS)		10/18/82-10/02/97	23	8.15	8.074	8.53	7.59	0.071	0.267	7.6	7.93	8.28	8.322
00400 CONVERTED PH (STANDARD UNITS)		10/18/82-10/02/97	23	8.15	7.988	8.53	7.59	0.079	0.281	7.6	7.93	8.28	8.322
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/18/82-10/02/97	23	0.007	0.01	0.026	0.003	0.	0.007	0.005	0.005	0.012	0.025

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

Station: MNRR0025 Parameter Code: 00094

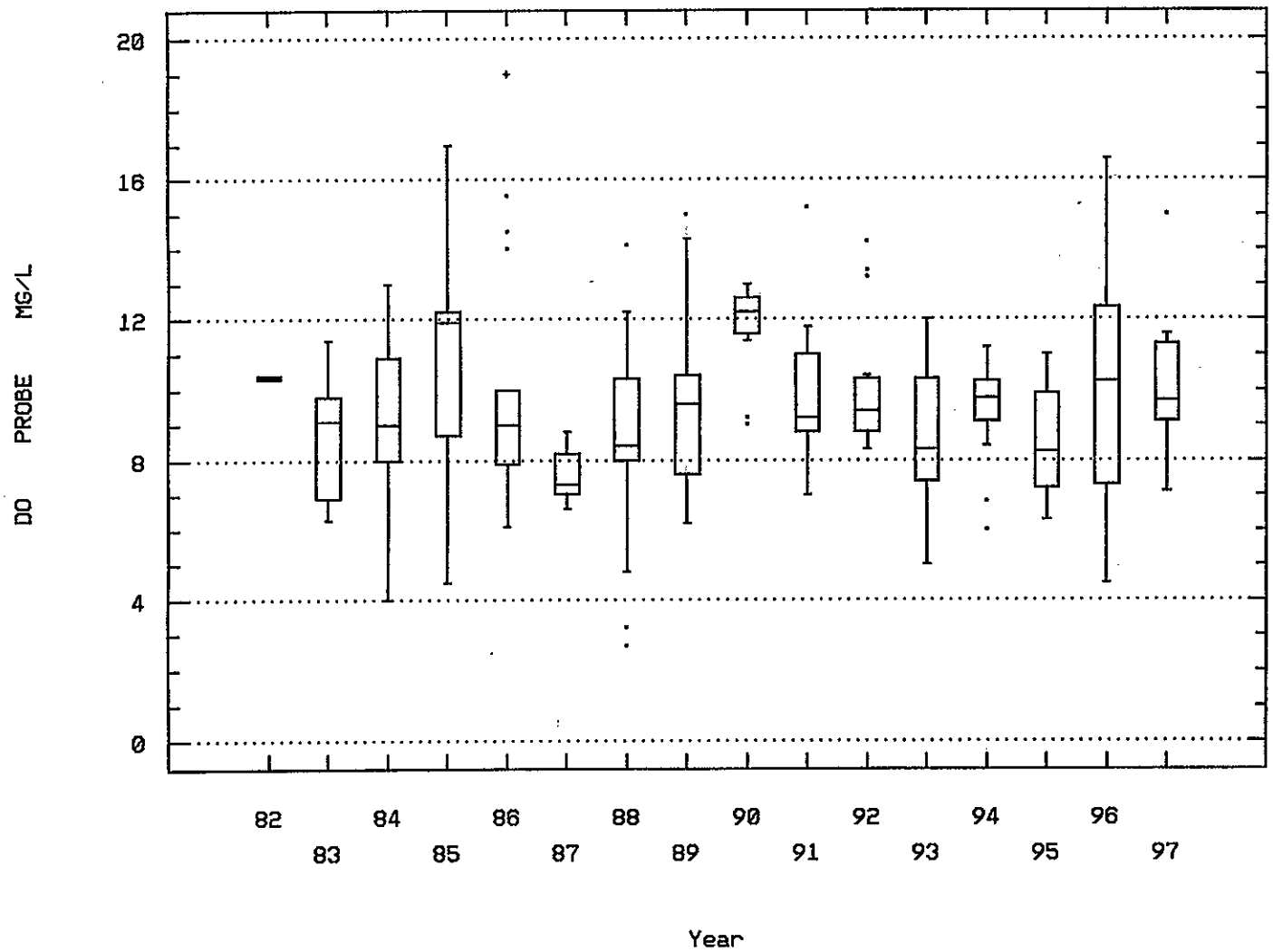
SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @



LAKE YANKTON DEEP

Station: MNRR0025 Parameter Code: 00299

OXYGEN ,DISSOLVED, ANALYSIS BY PROBE



LAKE YANKTON DEEP

Seasonal Analysis for Season #2: 1/15 to 3/14 - Station MNRR0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/02/97	53	3.7	3.64	8.	0.2	2.914	1.707	1.4	2.55	4.35	6.3
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/18/82-10/02/97	14	6.5	1.643	14.	-11.	41.632	6.452	0.	1.	-2.	1.5
00032 CLOUD COVER (PERCENT)	10/18/82-08/06/97	14	70.	55.714	100.	0.	2087.912	45.694	0.	7.5	100.	100.
00035 WIND VELOCITY (MILES PER HOUR)	10/18/82-10/02/97	13	8.	7.769	17.	0.	28.859	5.372	0.	4.	11.5	16.2
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/10/83-10/02/97	14	2.5	2.679	6.	1.	1.677	1.295	1.	2.	3.125	5.
00078 TRANSPARENCY, SECCHI DISC (METERS)	10/18/82-10/02/97	7	2.5	2.164	3.	0.8	0.696	0.834	**	**	**	**
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	16	0.3	0.3	0.4	0.2	0.005	0.073	0.2	0.225	0.375	0.4
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/02/97	48	1014.5	920.938	1238.	185.	74073.762	272.165	420.1	878.	1101.5	1177.1
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/82-10/02/97	45	8.5	9.607	19.	2.7	14.926	3.863	4.86	6.35	12.5	14.7
00400 PH (STANDARD UNITS)	10/18/82-10/02/97	36	7.81	7.666	8.79	5.2	0.837	0.915	6.607	7.262	8.278	8.632
00400 CONVERTED PH (STANDARD UNITS)	10/18/82-10/02/97	36	7.801	6.261	8.79	5.2	2.867	1.693	6.607	7.262	8.278	8.632
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/02/97	36	0.016	0.548	6.31	0.002	3.105	1.762	0.002	0.005	0.055	1.936
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	02/10/83-10/02/97	14	243.5	246.714	279.	212.	522.681	22.862	216.5	225.	272.	278.
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/10/83-10/02/97	14	795.	788.571	906.	552.	10509.341	102.515	608.	732.5	882.5	903.
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/10/83-10/02/97	14	0.02	0.067	0.21	0.	0.006	0.078	0.005	0.01	0.16	0.2
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	02/10/83-10/02/97	14##	0.005	0.015	0.11	0.	0.001	0.029	0.	0.004	0.01	0.075
00619 AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	02/10/83-10/02/97	14##	0.005	0.004	0.005	0.	0.	0.002	0.	0.004	0.005	0.005
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	02/10/83-10/02/97	14	0.17	0.253	0.74	0.005	0.059	0.243	0.028	0.06	0.355	0.725
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/18/83-10/02/97	13	0.3	0.414	0.9	0.08	0.086	0.293	0.088	0.2	0.7	0.9
00665 PHOSPHORUS, TOTAL (MG/L AS P)	02/10/83-10/02/97	14	0.025	0.088	0.7	0.	0.033	0.181	0.003	0.02	0.063	0.435
00900 HARDNESS, TOTAL (MG/L AS CACO3)	02/10/83-10/02/97	14	458.	438.857	559.	215.	9780.593	98.897	262.	374.75	517.75	554.
01002 ARSENIC, TOTAL (UG/L AS AS)	06/07/83-10/02/97	9##	1.	1.556	3.	1.	0.778	0.882	1.	1.	2.5	3.
01012 BERYLLIUM, TOTAL (UG/L AS BE)	06/07/83-10/02/97	9##	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
01027 CADMIUM, TOTAL (UG/L AS CD)	06/07/83-10/02/97	9##	0.1	0.133	0.3	0.1	0.005	0.071	0.1	0.1	0.15	0.3
01034 CHROMIUM, TOTAL (UG/L AS CR)	06/07/83-10/02/97	9##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
01042 COPPER, TOTAL (UG/L AS CU)	06/07/83-10/02/97	9##	2.5	2.5	2.5	2.5	0.	0.	2.5	2.5	2.5	2.5
01045 IRON, TOTAL (UG/L AS FE)	02/10/83-10/02/97	10	120.	138.3	302.	47.	6363.122	79.769	49.3	71.5	182.5	295.6
01051 LEAD, TOTAL (UG/L AS PB)	06/07/83-10/02/97	9	5.	6.444	16.	1.	30.028	5.48	1.	1.	11.	16.
01055 MANGANESE, TOTAL (UG/L AS MN)	02/10/83-10/02/97	10	527.5	699.7	2010.	202.	298643.789	546.483	205.4	295.25	985.75	1909.3
01077 SILVER, TOTAL (UG/L AS AG)	06/07/83-10/02/97	9##	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1
01092 ZINC, TOTAL (UG/L AS ZN)	06/07/83-10/02/97	9	4.	4.222	7.	2.	1.944	1.394	2.	3.5	5.	7.
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/18/82-10/02/97	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/10/83-10/02/97	14	0.005	0.008	0.02	0.	0.	0.006	0.	0.004	0.01	0.02
82131 ICE, THICKNESS IN METERS	02/17/88-02/06/96	9	0.31	0.361	0.6	0.14	0.027	0.165	0.14	0.225	0.525	0.6

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

Seasonal Analysis for Season #3: 3/15 to 7/14 - Station MNRR0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/02/97	181	21.3	20.004	28.2	7.	34.274	5.854	11.2	14.5	25.	26.98
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/18/82-10/02/97	44	21.	22.125	40.	10.	56.827	7.538	11.	16.25	28.75	33.
00032 CLOUD COVER (PERCENT)	10/18/82-08/06/97	43	50.	48.047	100.	0.	1602.664	40.033	0.	5.	95.	100.
00035 WIND VELOCITY (MILES PER HOUR)	10/18/82-10/02/97	44	10.	8.773	20.	0.	34.877	5.906	0.	5.	15.	15.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/10/83-10/02/97	43	3.	3.647	15.	0.	9.429	3.071	0.16	2.	4.	8.2
00078 TRANSPARENCY, SECCHI DISC (METERS)	10/18/82-10/02/97	43	1.3	1.599	3.5	0.5	0.618	0.786	0.728	1.	2.	2.96
00080 COLOR (PLATINUM-COBALT UNITS)	05/18/83-07/08/97	11	10.	12.091	20.	5.	38.091	6.172	5.	5.	20.	20.
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	47	0.2	48.267	330.	0.08	11742.524	108.363	0.1	0.2	0.4	262.4
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/02/97	180	876.	773.339	1059.	240.	58680.683	242.241	375.	525.	966.75	1011.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/82-10/02/97	177	9.1	9.488	16.6	4.5	4.579	2.14	7.3	8.1	10.6	12.2
00400 PH (STANDARD UNITS)	10/18/82-10/02/97	125	8.19	8.122	9.4	6.6	0.236	0.485	7.6	7.8	8.4	8.54
00400 CONVERTED PH (STANDARD UNITS)	10/18/82-10/02/97	125	8.19	7.788	9.4	6.6	0.348	0.59	7.6	7.8	8.4	8.54
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/02/97	125	0.006	0.016	0.251	0.	0.001	0.038	0.003	0.004	0.016	0.025
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	02/10/83-10/02/97	43	146.	146.256	212.	79.	1173.623	34.258	95.8	118.	169.	193.
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/10/83-10/02/97	17	656.	640.882	792.	474.	5537.985	74.418	515.6	592.	684.	741.6
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/18/83-10/02/97	25	6.	8.12	29.	0.	53.277	7.299	2.	4.	9.5	23.6
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/10/83-10/02/97	43	0.01	0.038	0.37	0.	0.005	0.068	0.002	0.01	0.04	0.116

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

Seasonal Analysis for Season #3: 3/15 to 7/14 - Station MNRR0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	02/10/83-10/02/97	17##	0.005	0.004	0.01	0.	0.	0.003	0.	0.003	0.005	0.01
00619	AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	02/10/83-10/02/97	43##	0.005	0.005	0.04	0.	0.	0.006	0.	0.005	0.005	0.005
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	02/10/83-10/02/97	43	0.05	0.218	2.85	0.	0.213	0.461	0.005	0.02	0.23	0.556
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/18/83-10/02/97	43	0.4	0.475	1.01	0.1	0.045	0.212	0.282	0.3	0.6	0.8
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/10/83-10/02/97	43	0.03	0.038	0.24	0.005	0.002	0.045	0.005	0.01	0.04	0.076
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	07/12/83-10/02/97	12##	0.005	0.003	0.005	0.	0.	0.002	0.	0.001	0.005	0.005
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/10/83-10/02/97	43	362.	370.791	535.	231.	4972.169	70.514	285.	318.	436.	469.4
00916	CALCIUM, TOTAL (MG/L AS CA)	06/07/83-08/06/97	14	96.	100.571	134.	81.	338.879	18.409	81.	84.75	113.	134.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/07/83-08/06/97	14	29.	29.714	35.	25.	8.835	2.972	25.5	27.75	32.25	34.5
00929	SODIUM, TOTAL (MG/L AS NA)	06/07/83-08/06/97	14	64.	63.564	81.	37.	142.412	11.934	40.45	60.25	72.5	78.5
00931	SODIUM ADSORPTION RATIO	06/07/83-08/06/97	14	2.	1.75	2.	1.	0.141	0.376	1.	1.475	2.	2.
00937	POTASSIUM, TOTAL MG/L AS K)	06/07/83-08/06/97	14	9.5	8.764	14.	1.	9.301	3.05	3.	7.925	10.25	12.5
00940	CHLORIDE,TOTAL IN WATER MG/L	08/10/83-06/10/97	9	15.	13.667	18.	2.	21.	4.583	2.	13.5	15.5	18.
00945	SULFATE, TOTAL (MG/L AS SO4)	05/18/83-10/02/97	29	332.	345.828	760.	186.	11993.505	109.515	236.	298.5	358.	482.
01002	ARSENIC, TOTAL (UG/L AS AS)	06/07/83-10/02/97	16	1.5	1.875	5.	1.	1.317	1.147	1.	1.	2.75	3.6
01007	BARIUM, TOTAL (UG/L AS BA)	06/07/83-06/10/97	14	36.5	34.429	57.	7.	168.11	12.966	10.5	29.	40.75	53.5
01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/07/83-10/02/97	16##	1.	0.875	1.	0.	0.117	0.342	0.	1.	1.	1.
01022	BORON, TOTAL (UG/L AS B)	06/07/83-06/10/97	14	151.	161.714	269.	126.	1268.681	35.619	129.5	139.25	176.5	228.
01027	CADMIUM, TOTAL (UG/L AS CD)	06/07/83-10/02/97	16##	0.2	0.425	2.	0.1	0.326	0.571	0.1	0.1	0.375	1.65
01034	CHROMIUM, TOTAL (UG/L AS CR)	06/07/83-10/02/97	16##	2.5	2.25	4.	0.	0.833	0.913	0.35	2.5	2.5	2.95
01042	COPPER, TOTAL (UG/L AS CU)	06/07/83-10/02/97	16##	2.5	3.188	6.	2.5	1.563	1.25	2.5	2.5	4.375	5.3
01045	IRON, TOTAL (UG/L AS FE)	02/10/83-10/02/97	18	156.	155.611	416.	47.	7990.84	89.391	60.5	79.5	185.	304.4
01051	LEAD, TOTAL (UG/L AS PB)	06/07/83-10/02/97	16	5.5	5.781	17.	0.	22.766	4.771	0.7	1.	8.	13.5
01055	MANGANESE, TOTAL (UG/L AS MN)	02/10/83-10/02/97	18	83.5	139.833	957.	17.	44052.735	209.887	36.8	57.5	129.5	291.
01067	NICKEL, TOTAL (UG/L AS NI)	06/07/83-10/02/97	14##	2.5	4.143	12.	2.5	9.786	3.128	2.5	2.5	5.	10.5
01077	SILVER, TOTAL (UG/L AS AG)	06/07/83-10/02/97	14##	0.1	0.457	5.	0.	1.718	1.311	0.	0.1	0.1	2.7
01092	ZINC, TOTAL (UG/L AS ZN)	06/07/83-10/02/97	16	4.5	4.625	11.	1.	11.583	3.403	1.	1.	7.	11.
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/07/83-06/10/97	14##	1.	2.	10.	0.	9.077	3.013	0.	1.	1.	9.
01147	SELENIUM, TOTAL (UG/L AS SE)	06/07/83-07/08/97	20##	1.	1.025	2.	0.5	0.065	0.255	1.	1.	1.	1.
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/18/82-10/02/97	16	9.	12.381	33.	0.	135.572	11.644	0.35	0.625	21.75	32.3
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/06/87-10/02/97	11##	0.5	3.636	24.	0.5	50.655	7.117	0.5	0.5	5.	20.6
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/18/83-05/12/97	14##	5.	5.786	15.	0.	10.951	3.309	2.5	5.	5.25	12.5
34361	ENDOSULFAN, ALPHA TOTWUG/L	10/18/82-05/30/95	12##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39026	STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	10/18/82-08/06/91	8##	0.05	0.181	0.4	0.05	0.033	0.181	**	**	**	**
39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	08/03/87-08/06/97	10##	0.05	0.085	0.3	0.05	0.006	0.078	0.05	0.05	0.1	0.28
39055	SIMAZINE IN WHOLE WATER (UG/L)	08/11/86-08/06/97	10##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/18/82-08/06/97	15##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39356	METOLACHLOR(DUAL) IN WHOLE WATER UG/L	08/03/87-08/06/97	10##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.014	0.015	0.015
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.014	0.015	0.015
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.014	0.015	0.015
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14##	0.05	0.125	0.4	0.05	0.022	0.149	0.05	0.05	0.138	0.4
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	15##	0.05	0.137	0.5	0.	0.036	0.188	0.03	0.05	0.05	0.5
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	08/03/87-08/06/97	10##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	14##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/10/83-10/02/97	43##	0.005	0.01	0.04	0.	0.	0.011	0.	0.005	0.01	0.03
71900	MERCURY, TOTAL (UG/L AS HG)	07/12/83-10/02/97	7##	0.1	0.243	0.6	0.1	0.04	0.199	**	**	**	**
77729	RAMROD WHOLE WATER,UG/L	08/03/87-08/06/97	9##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
77825	ALACHLOR WHOLE WATER,UG/L	08/03/87-08/06/97	10##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
81283	BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	10/18/82-08/06/97	13##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
81408	METRIBUZIN (SENCOR), WATER, WHOLE UG/L	08/03/87-08/06/97	9##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05

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

Seasonal Analysis for Season #4: 7/15 to 11/19 - Station MNRR0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/02/97	119	22.5	19.529	30.	3.	50.879	7.133	10.	12.9	25.7	27.5
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	10/18/82-10/02/97	29	24.	23.81	35.	10.	55.115	7.424	11.	19.	30.	34.
00032 CLOUD COVER (PERCENT)	10/18/82-08/06/97	27	10.	35.593	100.	0.	1728.712	41.578	0.	0.	80.	100.
00035 WIND VELOCITY (MILES PER HOUR)	10/18/82-10/02/97	28	8.5	8.571	15.	0.	24.328	4.932	2.	5.	14.25	15.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/10/83-10/02/97	29	2.	2.693	10.	0.	5.696	2.387	0.	1.	4.5	6.
00078 TRANSPARENCY, SECCHI DISC (METERS)	10/18/82-10/02/97	27	2.	2.092	4.2	0.3	0.934	0.967	0.8	1.3	2.6	3.72
00080 COLOR (PLATINUM-COBALT UNITS)	05/18/83-07/08/97	6	7.5	7.167	10.	3.	7.767	2.787	**	**	**	**
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	40	0.3	0.283	1.	0.1	0.024	0.153	0.2	0.2	0.3	0.5
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/02/97	119	855.	786.361	1161.	395.	40159.216	200.398	450.	621.	913.	983.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	10/18/82-10/02/97	119	9.8	9.591	17.	6.2	3.838	1.959	6.9	8.4	10.4	12.1
00400 PH (STANDARD UNITS)	10/18/82-10/02/97	82	8.125	7.961	8.7	5.4	0.382	0.618	7.43	7.9	8.243	8.428
00400 CONVERTED PH (STANDARD UNITS)	10/18/82-10/02/97	82	8.125	6.819	8.7	5.4	1.701	1.304	7.43	7.9	8.243	8.428
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/02/97	82	0.007	0.152	3.981	0.002	0.493	0.702	0.004	0.006	0.013	0.037
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	02/10/83-10/02/97	29	121.	121.483	163.	62.	588.116	24.251	95.	105.	139.	160.
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/10/83-10/02/97	15	686.	687.2	816.	406.	9829.457	99.144	530.8	651.	768.	801.6
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/18/83-10/02/97	14	3.	4.5	24.	1.	32.731	5.721	1.5	2.	4.	14.5
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/10/83-10/02/97	29##	0.01	0.028	0.22	0.005	0.002	0.041	0.01	0.01	0.03	0.06
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	02/10/83-10/02/97	15##	0.005	0.005	0.01	0.	0.	0.003	0.	0.005	0.005	0.01
00619 AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	02/10/83-10/02/97	29##	0.005	0.004	0.01	0.	0.	0.002	0.	0.005	0.005	0.005
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	02/10/83-10/02/97	29	0.05	0.231	3.66	0.	0.45	0.671	0.005	0.02	0.15	0.4
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/18/83-10/02/97	29	0.4	0.415	1.	0.05	0.045	0.211	0.08	0.3	0.52	0.7
00665 PHOSPHORUS, TOTAL (MG/L AS P)	02/10/83-10/02/97	29	0.04	0.07	0.37	0.005	0.007	0.086	0.01	0.02	0.085	0.23
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	07/12/83-10/02/97	10##	0.005	0.005	0.005	0.	0.	0.002	0.001	0.005	0.005	0.005
00900 HARDNESS, TOTAL (MG/L AS CACO3)	02/10/83-10/02/97	29	343.	334.31	405.	203.	2793.865	52.857	247.	292.5	376.	390.
00916 CALCIUM, TOTAL (MG/L AS CA)	06/07/83-08/06/97	15	80.	77.467	101.	41.	278.981	16.703	47.	67.	88.	98.6
00927 MAGNESIUM, TOTAL (MG/L AS MG)	06/07/83-08/06/97	15	29.	29.067	34.	24.	11.067	3.327	24.	27.	33.	34.
00929 SODIUM, TOTAL (MG/L AS NA)	06/07/83-08/06/97	15	68.	68.387	79.	57.	33.471	5.785	58.8	65.	73.	77.2
00931 SODIUM ADSORPTION RATIO	06/07/83-08/06/97	15	2.	1.933	2.	1.6	0.02	0.14	1.6	1.9	2.	2.
00937 POTASSIUM, TOTAL MG/L AS K)	06/07/83-08/06/97	15	9.	9.6	18.	7.	6.257	2.501	7.6	9.	10.	13.8
00940 CHLORIDE,TOTAL IN WATER MG/L	08/10/83-06/10/97	6	16.	15.833	19.	12.	5.367	2.317	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/18/83-10/02/97	14	348.5	360.786	593.	233.	8894.181	94.309	257.	293.5	370.75	557.5
01002 ARSENIC, TOTAL (UG/L AS AS)	06/07/83-10/02/97	19	2.	2.105	5.	1.	1.655	1.286	1.	1.	3.	4.
01012 BERYLLIUM, TOTAL (UG/L AS BE)	06/07/83-10/02/97	19##	1.	0.895	1.	0.	0.099	0.315	0.	1.	1.	1.
01022 BORON, TOTAL (UG/L AS B)	06/07/83-06/10/97	7	167.	176.571	219.	149.	759.619	27.561	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	06/07/83-10/02/97	20##	0.1	0.425	2.	0.	0.346	0.588	0.1	0.1	0.525	1.5
01034 CHROMIUM, TOTAL (UG/L AS CR)	06/07/83-10/02/97	19##	2.5	3.079	10.	0.	6.924	2.631	0.5	2.5	2.5	10.
01042 COPPER, TOTAL (UG/L AS CU)	06/07/83-10/02/97	20##	2.5	2.575	7.	0.	2.481	1.575	0.1	2.5	2.5	5.65
01045 IRON, TOTAL (UG/L AS FE)	02/10/83-10/02/97	24	59.	110.667	468.	5.	15261.014	123.535	25.	38.5	123.25	367.5
01051 LEAD, TOTAL (UG/L AS PB)	06/07/83-10/02/97	16	4.5	6.875	24.	1.	52.917	7.274	1.	1.	10.75	19.8
01055 MANGANESE, TOTAL (UG/L AS MN)	02/10/83-10/02/97	24	32.5	47.583	147.	12.	1357.558	36.845	16.	22.	66.	121.5
01067 NICKEL, TOTAL (UG/L AS NI)	06/07/83-10/02/97	20##	2.5	4.45	12.	0.	11.261	3.356	2.5	2.5	6.75	10.
01077 SILVER, TOTAL (UG/L AS AG)	06/07/83-10/02/97	19##	0.1	0.621	5.	0.	2.388	1.545	0.	0.1	0.1	5.
01092 ZINC, TOTAL (UG/L AS ZN)	06/07/83-10/02/97	20	4.	3.9	9.	1.	5.989	2.447	1.	1.	6.	6.9
01097 ANTIMONY, TOTAL (UG/L AS SB)	06/07/83-06/10/97	7##	1.	8.929	47.	0.	293.369	17.128	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	06/07/83-07/08/97	4##	1.	1.125	2.5	0.	1.063	1.031	**	**	**	**
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	10/18/82-10/02/97	28	1.5	8.821	76.	0.	352.671	18.78	0.5	0.5	7.75	22.3
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/06/87-10/02/97	21	2.	9.643	80.	0.5	334.679	18.294	0.5	0.5	10.	28.8
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/18/83-05/12/97	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
34361 ENDOSULFAN, ALPHA TOTWUG/L	10/18/82-05/30/95	14##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39026 STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	10/18/82-08/06/91	11##	0.05	0.209	0.4	0.05	0.033	0.183	0.05	0.05	0.4	0.4
39033 ATRAZINE IN WHOLE WATER SAMPLE UG/L	08/03/87-08/06/97	11##	0.05	0.059	0.1	0.05	0.	0.02	0.05	0.05	0.05	0.1
39055 SIMAZINE IN WHOLE WATER (UG/L)	08/11/86-08/06/97	12##	0.05	0.208	1.	0.05	0.099	0.315	0.05	0.05	0.25	0.91
39330 ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	17##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER.UG/L	10/18/82-08/06/97	17##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39356 METOLACHLOR(DUAL) IN WHOLE WATER UG/L	08/03/87-08/06/97	11##	0.05	0.091	0.5	0.05	0.018	0.136	0.05	0.05	0.05	0.41
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	17##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39370 DDT IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	17##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	17##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39390 ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	17##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015

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

Seasonal Analysis for Season #4: 7/15 to 11/19 - Station MNRR0025

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39400 TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	17##	0.05	0.153	0.4	0.05	0.027	0.164	0.05	0.05	0.4	0.4
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	17##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	17##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	17##	0.05	0.182	0.5	0.05	0.045	0.211	0.05	0.05	0.5	0.5
39570 DIAZINON IN WHOLE WATER SAMPLE (UG/L)	08/03/87-08/06/97	11##	0.05	0.088	0.5	0.015	0.019	0.137	0.022	0.05	0.05	0.41
39782 LINDANE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	17##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
70507 PHOSPHORUS.IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/10/83-10/02/97	29	0.01	0.014	0.1	0.	0.	0.02	0.	0.005	0.02	0.04
71900 MERCURY, TOTAL (UG/L AS HG)	07/12/83-10/02/97	14##	0.1	0.111	0.25	0.	0.003	0.056	0.05	0.1	0.1	0.225
77729 RAMROD WHOLE WATER,UG/L	08/03/87-08/06/97	11##	0.05	0.045	0.05	0.	0.	0.015	0.01	0.05	0.05	0.05
77825 ALACHLOR WHOLE WATER,UG/L	08/03/87-08/06/97	11##	0.05	0.055	0.1	0.05	0.	0.015	0.05	0.05	0.05	0.09
81283 BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	10/18/82-08/06/97	16##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
81408 METRIBUZIN (SENCOR), WATER, WHOLE UG/L	08/03/87-08/06/97	11##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05

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

Station Inventory for Station: MNRR0026

NPS Station ID: MNRR0026 LAT/LON: 42.866115/ -97.393616 Agency: 112WRD Date Created: / /
Location: MISSOURI R AT YANKTON SD FIPS State/County: 46135 SOUTH DAKOTA/YANKTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 06467500
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10170101001700.00 RF3 Mile Point: 0.41 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	282	12.75	12.766	30.	0.	77.528	8.805	1.	4.	21.	24.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	247	16.5	15.154	38.5	-15.	119.621	10.937	4.	9.5	24.5	29.
00060 FLOW, STREAM, MEAN DAILY	CFS	10/01/56-12/12/73	100	26420.	26836.95	55100.	8099.	177878694.997	13337.117	8842.4	16650.	34300.	48780.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	245	30100.	29642.327	205000.	7800.	252089767.926	15877.335	13000.	21150.	36500.	42180.
00065 STAGE, STREAM (FEET)		01/21/71-07/07/71	3	19.	20.	23.	18.	7.	2.646	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)		07/30/69-06/17/70	12	9.05	8.042	11.	3.	6.686	2.586	3.3	6.25	10.	10.7
00080 COLOR (PLATINUM-COBALT UNITS)		10/01/56-06/17/70	21	7.	6.429	10.	2.	5.457	2.336	2.4	4.5	8.	10.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	276	750.	735.214	930.	360.	6591.332	81.187	625.1	700.	790.	820.
00300 OXYGEN, DISSOLVED	MG/L	09/28/72-01/15/74	11	10.5	10.727	13.	7.2	3.364	1.834	7.42	9.8	12.2	12.96
00310 BOD, 5 DAY, 20 DEG C	MG/L	08/20/69-01/15/74	13	1.5	2.115	8.	0.6	3.905	1.976	0.64	0.9	2.1	6.4
00400 PH (STANDARD UNITS)		10/01/56-01/15/74	92	7.8	7.847	8.5	7.	0.14	0.374	7.3	7.6	8.2	8.3
00400 CONVERTED PH (STANDARD UNITS)		10/01/56-01/15/74	92	7.8	7.685	8.5	7.	0.166	0.408	7.3	7.6	8.2	8.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/01/56-01/15/74	92	0.016	0.021	0.1	0.003	0.	0.019	0.005	0.006	0.025	0.05
00405 CARBON DIOXIDE (MG/L AS CO2)		10/27/72-01/15/74	9	2.3	3.067	9.1	1.2	5.843	2.417	1.2	1.85	3.4	9.1
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		07/30/69-01/15/74	22	159.5	167.273	280.	144.	913.16	30.219	146.3	151.75	168.5	210.6
00440 BICARBONATE ION (MG/L AS HCO3)		10/01/56-01/15/74	70	184.5	186.129	341.	145.	674.838	25.978	162.1	172.75	193.25	202.
00445 CARBONATE ION (MG/L AS CO3)		07/30/69-01/15/74	22	0.	0.682	11.	0.	6.037	2.457	0.	0.	0.	2.8
00600 NITROGEN, TOTAL (MG/L AS N)		08/23/72-01/15/74	10	0.565	0.707	2.	0.37	0.23	0.48	0.371	0.433	0.745	1.885
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)		08/23/72-01/15/74	10	0.315	0.312	0.45	0.08	0.011	0.107	0.095	0.26	0.39	0.447
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		07/30/69-10/27/72	33	0.04	0.052	0.2	0.	0.003	0.051	0.004	0.01	0.07	0.146
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		02/22/73-01/15/74	8	0.04	0.046	0.09	0.02	0.001	0.023	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)		07/30/69-01/15/74	34	0.	0.002	0.01	0.	0.	0.004	0.	0.	0.005	0.01
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)		07/30/69-01/15/74	41	0.19	0.238	1.7	0.03	0.069	0.263	0.092	0.11	0.265	0.4
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		08/23/72-01/15/74	10	0.355	0.356	0.52	0.17	0.01	0.102	0.179	0.283	0.428	0.513
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		02/22/73-01/15/74	8	0.23	0.214	0.35	0.03	0.014	0.12	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)		04/30/71-01/15/74	22	0.2	0.247	1.7	0.03	0.116	0.34	0.048	0.1	0.225	0.4
00660 PHOSPHATE, ORTHO (MG/L AS PO4)		08/23/72-01/15/74	10	0.03	0.057	0.21	0.	0.005	0.07	0.	0.	0.082	0.204
00665 PHOSPHORUS, TOTAL (MG/L AS P)		07/30/69-01/15/74	41	0.05	0.058	0.23	0.	0.002	0.046	0.02	0.03	0.065	0.132
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)		07/30/69-06/17/70	12	0.02	0.037	0.15	0.	0.002	0.044	0.	0.003	0.065	0.126
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		08/23/72-01/15/74	10	0.01	0.02	0.07	0.	0.001	0.022	0.001	0.005	0.028	0.068
00680 CARBON, TOTAL ORGANIC (MG/L AS C)		07/30/69-07/16/70	12	7.	7.25	12.	4.	7.295	2.701	4.	5.	9.75	11.7
00900 HARDNESS, TOTAL (MG/L AS CACO3)		10/01/56-01/15/74	84	230.	232.714	970.	168.	7041.941	83.916	191.5	214.25	240.	248.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		10/01/56-01/15/74	71	72.	77.211	690.	0.	5706.512	75.541	50.6	61.	79.	84.
00915 CALCIUM, DISSOLVED (MG/L AS CA)		10/01/56-01/15/74	61	58.	59.984	230.	43.	518.483	22.77	48.2	53.5	60.5	64.
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		10/01/56-01/15/74	61	20.	20.377	97.	13.	105.372	10.265	16.	17.	21.	22.
00930 SODIUM, DISSOLVED (MG/L AS NA)		10/01/56-01/15/74	58	57.	56.621	81.	38.	94.941	9.744	42.8	50.5	63.	67.3
00931 SODIUM ADSORPTION RATIO		10/01/56-01/15/74	58	1.7	1.66	2.2	0.8	0.062	0.249	1.3	1.5	1.8	2.
00932 SODIUM, PERCENT		10/01/56-01/15/74	58	35.5	35.052	41.	11.	15.734	3.967	32.	33.75	37.	38.1

** - 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: MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00935 POTASSIUM, DISSOLVED (MG/L AS K)		10/01/56-01/15/74	42	5.	5.119	10.	3.5	1.566	1.252	3.7	4.45	5.725	6.
00940 CHLORIDE,TOTAL IN WATER	MG/L	10/01/56-01/15/74	61	10.	9.77	21.	6.	5.113	2.261	7.	9.	11.	12.
00945 SULFATE, TOTAL (MG/L AS SO4)		10/01/56-01/15/74	72	200.	199.667	770.	118.	5547.352	74.481	142.1	167.25	213.5	220.
00950 FLUORIDE, DISSOLVED (MG/L AS F)		10/01/56-01/15/74	42	0.5	0.517	0.9	0.3	0.011	0.103	0.4	0.5	0.6	0.6
00955 SILICA, DISSOLVED (MG/L AS SIO2)		10/01/56-01/15/74	42	11.	11.436	18.	7.4	8.219	2.867	7.63	9.375	13.25	15.7
01020 BORON, DISSOLVED (UG/L AS B)		10/01/56-06/06/59	32	120.	130.938	220.	70.	1292.641	35.953	93.	102.5	150.	190.
01045 IRON, TOTAL (UG/L AS FE)		10/01/56-06/06/59	32	5.	8.438	40.	0.	142.641	11.943	0.	0.	10.	34.
31501 COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C		09/28/72-01/15/74	11	10.	14.227	50.	0.	196.168	14.006	0.5	4.	20.	44.6
31501 LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,		09/28/72-01/15/74	11	1.	0.954	1.699	0.	0.235	0.484	0.08	0.602	1.301	1.632
31501 GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3				GEOMETRIC MEAN =	8.998								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		09/28/72-01/15/74	11	5.	9.227	30.	0.	92.068	9.595	0.	2.	16.	28.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		09/28/72-01/15/74	11	0.699	0.732	1.477	0.	0.268	0.518	0.	0.301	1.204	1.442
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C				GEOMETRIC MEAN =	5.393								
38260 METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)		07/30/69-06/17/70	12	0.	0.003	0.01	0.	0.	0.005	0.	0.	0.008	0.01
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		10/01/56-01/15/74	64	470.5	474.844	1370.	327.	17421.626	131.991	363.	416.25	502.	532.
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)		08/23/72-01/15/74	10	474.	563.4	1360.	459.	78547.378	280.263	459.2	462.5	492.25	1274.5
70302 SOLIDS, DISSOLVED-TONS PER DAY		10/01/56-01/15/74	62	31100.	34919.677	106000.	7220.	433518009.73	20821.095	9416.	18450.	48250.	67310.
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT		10/01/56-01/15/74	62	0.645	0.647	1.86	0.44	0.033	0.182	0.493	0.568	0.683	0.727
71846 NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)		04/30/71-10/27/72	14	0.065	0.095	0.26	0.01	0.005	0.073	0.02	0.04	0.15	0.225
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)		10/01/56-06/06/59	32	0.4	0.506	1.4	0.	0.16	0.4	0.1	0.2	0.75	1.2
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)		07/30/69-01/15/74	34	0.75	1.091	7.5	0.1	1.603	1.266	0.4	0.5	1.225	1.95
71856 NITRITE NITROGEN, DISSOLVED (MG/L AS NO2)		07/30/69-01/15/74	32	0.	0.012	0.04	0.	0.	0.015	0.	0.	0.03	0.03
71887 NITROGEN, TOTAL, AS NO3 - MG/L		02/22/73-01/15/74	8	2.5	2.588	3.8	1.6	0.513	0.716	**	**	**	**

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

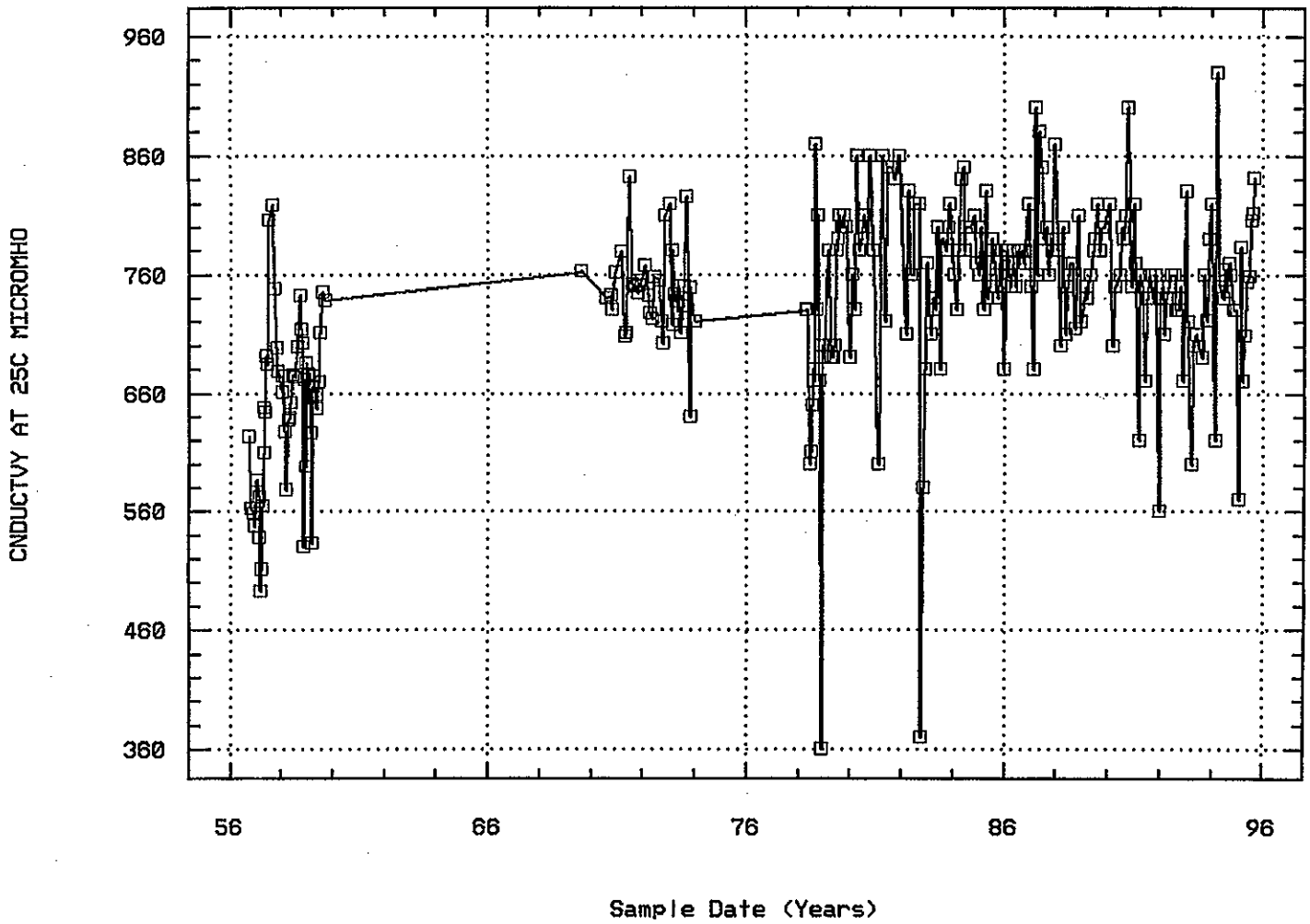
EPA Water Quality Criteria Analysis for Station: MNRR0026

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	12	0	0.00	2	0	0.00	2	0	0.00	3	0	0.00	5	0	0.00
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	11	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00	4	0	0.00
00400 PH	Fresh Chronic	9.	92	0	0.00	13	0	0.00	15	0	0.00	33	0	0.00	31	0	0.00
	Other-Lo Lim.	6.5	92	0	0.00	13	0	0.00	15	0	0.00	33	0	0.00	31	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	34	0	0.00	4	0	0.00	5	0	0.00	12	0	0.00	13	0	0.00
00618 NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	41	0	0.00	5	0	0.00	6	0	0.00	12	0	0.00	18	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	1	0	0.00	2	0	0.00	3	0	0.00	2	0	0.00
00631 NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	22	0	0.00	2	0	0.00	3	0	0.00	9	0	0.00	8	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	61	0	0.00	6	0	0.00	11	0	0.00	24	0	0.00	20	0	0.00
	Drinking Water	250.	61	0	0.00	6	0	0.00	11	0	0.00	24	0	0.00	20	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	72	3	0.04	8	1	0.13	13	0	0.00	27	1	0.04	24	1	0.04
00950 FLUORIDE, DISSOLVED AS F	Drinking Water	4.	42	0	0.00	4	0	0.00	9	0	0.00	18	0	0.00	11	0	0.00
31501 COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	11	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00	4	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	11	0	0.00	3	0	0.00	3	0	0.00	1	0	0.00	4	0	0.00
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	32	0	0.00	3	0	0.00	7	0	0.00	15	0	0.00	7	0	0.00
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	34	0	0.00	4	0	0.00	5	0	0.00	10	0	0.00	15	0	0.00
71856 NITRITE NITROGEN, DISSOLVED (AS NO2)	Drinking Water	3.3	32	0	0.00	4	0	0.00	5	0	0.00	10	0	0.00	13	0	0.00

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

Station: MNRR0026 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



MISSOURI R AT YANKTON SD

Annual Analysis for 1956 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY	CFS	10/01/56-12/12/73	3	11810.	15632.333	25890.	9197.	80621736.333	8978.961	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	3	562.	581.	623.	558.	1327.	36.428	**	**	**	**
00400 PH (STANDARD UNITS)		10/01/56-01/15/74	3	7.8	7.9	8.1	7.8	0.03	0.173	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		10/01/56-01/15/74	3	7.8	7.879	8.1	7.8	0.031	0.175	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/01/56-01/15/74	3	0.016	0.013	0.016	0.008	0.	0.005	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		10/01/56-01/15/74	3	191.	194.333	202.	190.	44.333	6.658	**	**	**	**

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

Annual Analysis for 1957 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY	CFS	10/01/56-12/12/73	17	21170.	18712.706	31160.	8099.	86594316.221	9305.607	8161.4	8819.5	28125.	30360.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	17	644.	637.471	819.	493.	9498.265	97.459	507.4	556.	694.5	808.6
00400 PH (STANDARD UNITS)		10/01/56-01/15/74	17	7.7	7.7	8.1	7.3	0.038	0.194	7.38	7.6	7.8	7.94
00400 CONVERTED PH (STANDARD UNITS)		10/01/56-01/15/74	17	7.7	7.658	8.1	7.3	0.039	0.198	7.38	7.6	7.8	7.94
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/01/56-01/15/74	17	0.02	0.022	0.05	0.008	0.	0.011	0.012	0.016	0.025	0.042
00900 HARDNESS, TOTAL (MG/L AS CACO3)		10/01/56-01/15/74	17	215.	209.118	250.	168.	594.61	24.385	174.4	189.5	227.5	245.2

** - 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 1958 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY	CFS	10/01/56-12/12/73	16	19975.	18320.75	29980.	8184.	84774755.533	9207.321	8199.4	8428.75	27607.5	29231.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	16	666.	654.5	742.	530.	2849.6	53.382	563.6	629.5	693.	722.4
00400 PH (STANDARD UNITS)		10/01/56-01/15/74	16	7.3	7.356	7.7	7.	0.052	0.228	7.07	7.2	7.575	7.7
00400 CONVERTED PH (STANDARD UNITS)		10/01/56-01/15/74	16	7.3	7.303	7.7	7.	0.055	0.234	7.07	7.2	7.575	7.7
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/01/56-01/15/74	16	0.05	0.05	0.1	0.02	0.001	0.024	0.02	0.027	0.063	0.086
00900 HARDNESS, TOTAL (MG/L AS CACO3)		10/01/56-01/15/74	16	213.	214.813	238.	177.	255.763	15.993	188.9	206.25	229.25	235.2

** - 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 1959 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY	CFS	10/01/56-12/12/73	12	24270.	21404.167	31340.	10240.	62757862.879	7921.986	10327.	11445.	28132.5	30605.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	12	671.5	669.	745.	533.	3052.364	55.248	560.9	650.	704.5	742.9
00400 PH (STANDARD UNITS)		10/01/56-01/15/74	12	7.6	7.65	8.	7.4	0.034	0.183	7.4	7.525	7.775	7.97
00400 CONVERTED PH (STANDARD UNITS)		10/01/56-01/15/74	12	7.6	7.617	8.	7.4	0.035	0.187	7.4	7.525	7.775	7.97
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/01/56-01/15/74	12	0.025	0.024	0.04	0.01	0.	0.009	0.011	0.017	0.03	0.04
00900 HARDNESS, TOTAL (MG/L AS CACO3)		10/01/56-01/15/74	12	222.5	221.25	239.	181.	230.205	15.172	190.9	215.5	231.75	238.1

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

Annual Analysis for 1969 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	6	15.5	14.667	24.	4.	88.667	9.416	**	**	**	**
00060 FLOW, STREAM, MEAN DAILY	CFS	10/01/56-12/12/73	6	47450.	46666.667	55100.	33100.	72546666.667	8517.433	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	1	763.	763.	763.	763.	0.	0.	**	**	**	**

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

Annual Analysis for 1969 - Station MNRR0026

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400 PH (STANDARD UNITS)	10/01/56-01/15/74	6	8.2	8.133	8.3	7.8	0.039	0.197	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/01/56-01/15/74	6	8.2	8.092	8.3	7.8	0.041	0.202	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/56-01/15/74	6	0.006	0.008	0.016	0.005	0.	0.004	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/01/56-01/15/74	6	247.	247.333	253.	244.	10.267	3.204	**	**	**	**

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

Annual Analysis for 1970 - Station MNRR0026

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/30/69-08/31/95	12	8.	10.167	24.	0.	86.015	9.274	0.	1.	19.75	23.7
00060 FLOW, STREAM, MEAN DAILY CFS	10/01/56-12/12/73	12	33300.	31658.333	45800.	15000.	127913560.606	11309.888	15180.	19075.	41575.	44990.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/56-08/31/95	4	741.	743.5	762.	730.	179.667	13.404	**	**	**	**
00400 PH (STANDARD UNITS)	10/01/56-01/15/74	7	8.2	8.086	8.4	7.6	0.088	0.297	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/01/56-01/15/74	7	8.2	7.992	8.4	7.6	0.098	0.314	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/56-01/15/74	7	0.006	0.01	0.025	0.004	0.	0.008	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/01/56-01/15/74	12	234.	235.333	253.	216.	108.606	10.421	219.	229.25	241.5	252.1

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

Annual Analysis for 1971 - Station MNRR0026

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/30/69-08/31/95	11	10.	11.545	27.	1.	81.073	9.004	1.1	2.	17.	26.7
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/21/71-08/31/95	3	4.	11.5	27.5	3.	192.25	13.865	**	**	**	**
00060 FLOW, STREAM, MEAN DAILY CFS	10/01/56-12/12/73	10	41750.	35950.	54700.	10800.	305656111.111	17483.024	11500.	18100.	52250.	54500.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/56-08/31/95	9	751.	754.667	842.	708.	1557.5	39.465	708.	727.5	767.	842.
00400 PH (STANDARD UNITS)	10/01/56-01/15/74	7	8.1	8.086	8.3	7.9	0.018	0.135	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/01/56-01/15/74	7	8.1	8.068	8.3	7.9	0.018	0.136	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/56-01/15/74	7	0.008	0.009	0.013	0.005	0.	0.003	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/01/56-01/15/74	3	240.	246.667	260.	240.	133.333	11.547	**	**	**	**

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

Annual Analysis for 1972 - Station MNRR0026

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/30/69-08/31/95	8	9.1	10.388	24.	0.	86.287	9.289	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/21/71-08/31/95	4	-4.	2.	15.	-7.	86.667	9.309	**	**	**	**
00060 FLOW, STREAM, MEAN DAILY CFS	10/01/56-12/12/73	11	41000.	37190.909	50400.	16500.	157076909.091	12533.033	17180.	20600.	48600.	50220.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/01/56-08/31/95	9	742.	744.889	810.	702.	1044.861	32.324	702.	721.	763.	810.
00400 PH (STANDARD UNITS)	10/01/56-01/15/74	10	8.2	8.08	8.5	7.3	0.148	0.385	7.32	7.875	8.325	8.49
00400 CONVERTED PH (STANDARD UNITS)	10/01/56-01/15/74	10	8.2	7.889	8.5	7.3	0.189	0.435	7.32	7.875	8.325	8.49
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/01/56-01/15/74	10	0.006	0.013	0.05	0.003	0.	0.015	0.003	0.005	0.015	0.048
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/01/56-01/15/74	7	240.	235.714	240.	230.	28.571	5.345	**	**	**	**

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

Annual Analysis for 1973 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	13	6.	11.115	25.5	0.	86.215	9.285	0.6	2.75	20.5	24.9
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	5	19.5	15.58	34.	0.	189.507	13.766	**	**	**	**
00060 FLOW, STREAM, MEAN DAILY	CFS	10/01/56-12/12/73	13	29100.	26169.231	32800.	18700.	28563974.359	5344.528	19100.	19850.	30000.	32240.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	3	29000.	26300.	31000.	18900.	42070000.	6486.139	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	12	746.	746.25	825.	640.	2406.75	49.059	661.3	721.	772.5	823.5
00400 PH (STANDARD UNITS)		10/01/56-01/15/74	13	8.2	8.215	8.5	7.9	0.03	0.172	7.98	8.1	8.35	8.5
00400 CONVERTED PH (STANDARD UNITS)		10/01/56-01/15/74	13	8.2	8.185	8.5	7.9	0.031	0.175	7.98	8.1	8.35	8.5
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/01/56-01/15/74	13	0.006	0.007	0.013	0.003	0.	0.003	0.003	0.004	0.008	0.011
00900 HARDNESS, TOTAL (MG/L AS CACO3)		10/01/56-01/15/74	7	240.	338.571	970.	220.	77580.952	278.534	**	**	**	**

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

Annual Analysis for 1974 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	1	20200.	20200.	20200.	20200.	0.	0.	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	1	720.	720.	720.	720.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		10/01/56-01/15/74	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		10/01/56-01/15/74	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/01/56-01/15/74	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		10/01/56-01/15/74	1	250.	250.	250.	250.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	5	11.	8.4	17.	1.	50.8	7.127	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	5	19.	14.3	22.5	4.5	67.075	8.19	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	5	62500.	50860.	63300.	23600.	313163000.	17696.412	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	20	13.5	12.925	25.	1.	81.349	9.019	1.1	3.5	20.875	24.85
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	20	18.5	18.025	31.	5.	56.039	7.486	6.	12.5	24.125	27.75
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	20	37250.	34900.	39700.	23400.	35989473.684	5999.123	23810.	32400.	39000.	39490.

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	16	19.75	16.769	25.5	1.3	58.642	7.658	2.14	12.125	22.75	24.8
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	14	18.25	21.	34.5	9.	58.	7.616	11.	15.	28.25	32.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	16	31400.	30968.75	36900.	13500.	24383625.	4937.978	25120.	30875.	33175.	34660.

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	15	18.	15.933	25.	0.	65.781	8.111	2.1	9.5	23.	25.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	14	25.	23.321	38.5	-2.5	131.985	11.488	1.5	17.75	31.625	37.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	15	51600.	43406.667	53200.	20500.	140314952.381	11845.461	23260.	30300.	52700.	53200.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	14	675.	672.143	870.	360.	13941.209	118.073	480.	607.5	730.	840.

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	15	15.	15.333	26.	1.5	68.202	8.258	2.4	7.5	22.5	25.1
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	17	10.5	14.5	33.5	-6.	148.375	12.181	2.4	6.	26.5	31.9
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	17	36800.	34276.471	43800.	15700.	46654411.765	6830.403	22260.	30800.	38200.	41240.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	15	790.	763.333	810.	690.	2666.667	51.64	690.	700.	800.	810.

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	10	16.	14.5	30.	1.	105.611	10.277	1.1	2.375	23.125	29.5
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	11	16.5	13.	26.	-6.	108.2	10.402	7.9	-4.	20.	25.2
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	11	29800.	27354.545	37500.	14900.	67744727.273	8230.719	15460.	17900.	35500.	37100.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	10	785.	785.	860.	690.	2738.889	52.334	694.	752.5	822.5	860.

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	7	15.	13.5	22.	2.5	57.333	7.572	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	7	25.5	20.643	30.5	4.5	80.643	8.98	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	7	31400.	26785.714	33400.	13600.	77518095.238	8804.436	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	7	850.	797.143	860.	600.	10023.81	100.119	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	8	12.	11.938	26.5	1.5	86.246	9.287	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	8	17.	15.313	30.	-6.	166.853	12.917	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	9	28200.	29655.556	43000.	18600.	45742777.778	6763.341	18600.	25900.	33250.	43000.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	9	760.	703.333	830.	370.	22075.	148.577	370.	630.	820.	830.

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	9	14.	13.389	26.	1.	85.611	9.253	1.	3.75	22.5	26.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	11	18.	15.273	33.	-6.	163.518	12.787	2.2	8.5	28.5	32.1
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	11	26000.	45190.909	205000.	19200.	2866210909.091	53537.005	19680.	23800.	38600.	171760.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	11	780.	764.545	820.	680.	1907.273	43.672	686.	730.	800.	816.

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

Annual Analysis for 1984 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	11	13.5	12.636	24.	1.	81.655	9.036	1.1	2.	23.	23.8
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	11	16.	16.136	30.	-5.	113.355	10.647	4.6	-5.	25.	29.2
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	11	23400.	29190.909	48100.	12500.	232404909.091	15244.832	12640.	15400.	45600.	47900.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	11	800.	792.727	850.	730.	1181.818	34.378	736.	770.	810.	848.

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

Annual Analysis for 1985 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	10	12.75	12.05	24.	0.5	79.081	8.893	0.55	2.125	20.75	23.9
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	10	12.5	9.96	25.	-9.	123.138	11.097	0.79	-0.5	20.25	24.6
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	11	29600.	27163.636	33500.	19900.	28172545.455	5307.782	20100.	21400.	31700.	33160.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	11	760.	769.091	830.	730.	909.091	30.151	732.	740.	790.	824.

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

Annual Analysis for 1986 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	10	10.75	11.3	25.5	0.	87.567	9.358	0.05	0.875	20.5	25.15
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	11	15.	9.364	30.	-15.	231.605	15.219	0.6	-9.	28.	-6.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	11	37400.	33563.636	46300.	16800.	115596545.455	10751.583	16880.	19600.	41400.	45880.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	11	770.	766.364	820.	680.	1165.455	34.139	694.	750.	780.	812.

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	12	11.75	12.542	26.	1.5	82.203	9.067	1.5	3.25	20.25	25.7
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	12	13.75	12.833	31.	-6.5	131.379	11.462	3.95	6.5	21.	29.5
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	12	28950.	28025.	35000.	19000.	22209318.182	4712.676	20020.	23700.	31225.	34550.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	12	790.	800.833	900.	680.	4044.697	63.598	701.	760.	865.	894.

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	10	11.75	12.55	26.	0.5	91.303	9.555	0.55	3.25	21.375	25.8
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	10	3.25	13.1	27.	-4.	113.433	10.651	1.35	9.	24.125	26.75
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	10	30900.	26690.	39500.	12500.	82776555.556	9098.162	12520.	16675.	31525.	38740.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	10	760.	752.5	810.	700.	1551.389	39.388	701.	713.75	785.	809.

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	11	13.	12.636	24.	1.	76.605	8.752	1.2	4.5	21.	23.8
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	11	15.5	16.364	31.	2.	114.505	10.701	2.4	7.	26.	30.4
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	11	27900.	23036.364	32500.	8620.	104131825.455	10204.5	8852.	9800.	32000.	32460.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	9	780.	780.	820.	740.	675.	25.981	740.	755.	800.	820.

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	10	10.	12.85	24.	3.5	76.669	8.756	3.55	4.75	23.	23.9
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	10	17.5	15.05	23.5	1.5	45.803	6.768	2.2	10.	20.25	23.25
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	11	22900.	20502.727	33400.	9250.	78434881.818	8856.347	9316.	10300.	26800.	32780.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	9	790.	786.667	900.	700.	3200.	56.569	700.	750.	815.	900.

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	10	8.	11.8	27.	1.	110.011	10.489	1.1	2.75	23.5	26.8
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	11	14.	16.864	34.	2.	110.705	10.522	3.	8.	28.	33.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	11	23600.	20077.273	30700.	7800.	89411681.818	9455.775	8050.	10100.	28900.	30440.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	11	750.	722.727	820.	560.	5701.818	75.51	572.	670.	760.	810.

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

Annual Analysis for 1992 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	12	8.5	11.083	22.	1.	64.947	8.059	1.3	4.125	20.125	21.7
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	12	11.25	10.5	19.	0.5	45.091	6.715	0.8	5.	17.25	18.85
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	12	17800.	17424.167	26200.	7890.	47543008.333	6895.144	8703.	10900.	23525.	25600.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	12	740.	735.	760.	670.	627.273	25.045	682.	730.	750.	760.

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

Annual Analysis for 1993 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	10	11.5	10.7	23.5	0.	84.067	9.169	0.	1.5	18.5	23.45
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	10	18.	14.5	29.	-3.	93.444	9.667	3.5	-0.25	20.375	28.4
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	10	15650.	16100.	22600.	10900.	16453333.333	4056.271	10960.	11800.	18925.	22510.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	10	715.	722.1	830.	600.	3861.878	62.144	609.	697.5	767.5	826.

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

Annual Analysis for 1994 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	11	9.5	12.591	24.	1.	89.891	9.481	1.	1.	23.	23.8
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	11	15.5	14.227	28.5	-5.	138.418	11.765	0.5	9.5	27.	28.3
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	11	28700.	25681.818	32300.	15600.	44089636.364	6640.003	16080.	18200.	31500.	32160.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	11	750.	760.091	930.	620.	5472.091	73.974	642.	730.	770.	908.

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

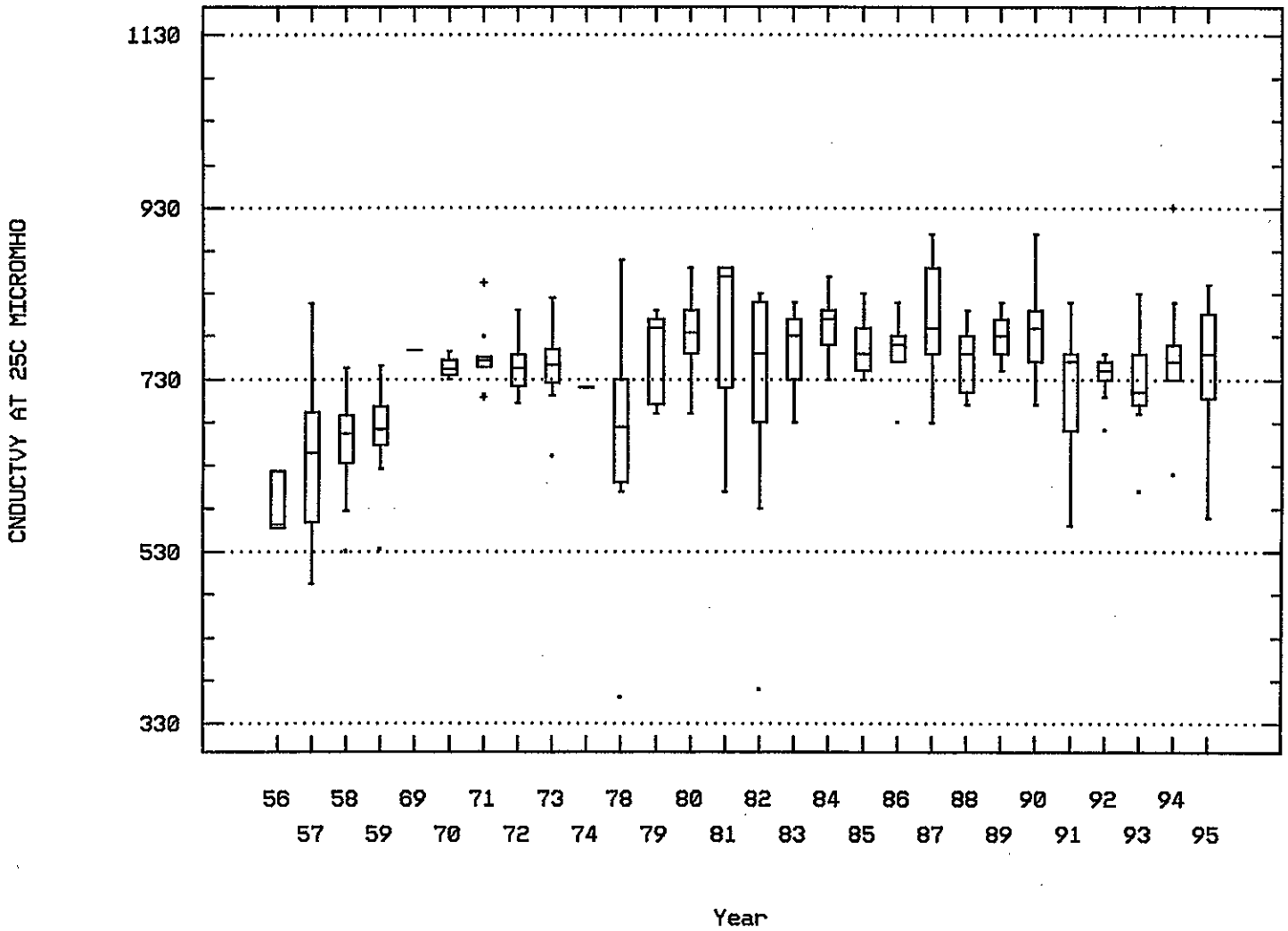
Annual Analysis for 1995 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	9	15.	14.278	26.5	1.	110.382	10.506	1.	4.	24.5	26.5
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	9	14.	15.222	36.	-4.	175.944	13.264	1.5	7.75	26.75	36.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	9	27800.	31622.222	57900.	12500.	265966944.444	16308.493	12500.	16750.	46300.	57900.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	9	759.	744.889	841.	570.	7086.611	84.182	570.	689.5	809.	841.

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

Station: MNRR0026 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



MISSOURI R AT YANKTON SD

Seasonal Analysis for Season #1: 11/20 to 1/14 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	33	1.	1.682	5.	0.	2.232	1.494	0.	0.75	2.75	4.3
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	31	8.	1.339	9.5	-9.	39.323	6.271	2.	5.	-6.	-8.6
00060 FLOW, STREAM, MEAN DAILY	CFS	10/01/56-12/12/73	15	15000.	16698.267	46100.	8264.	112893581.781	10625.139	8309.6	9197.	20000.	38300.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	29	19000.	21743.103	53200.	9250.	105987807.882	10295.038	12100.	13550.	24850.	39800.
00080 COLOR (PLATINUM-COBALT UNITS)		10/01/56-06/17/70	2	3.	3.	4.	2.	2.	1.414	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	34	740.	715.441	870.	360.	12081.345	109.915	553.	676.25	800.	820.
00400 PH (STANDARD UNITS)		10/01/56-01/15/74	13	7.9	7.777	8.4	7.1	0.15	0.388	7.14	7.45	8.05	8.28
00400 CONVERTED PH (STANDARD UNITS)		10/01/56-01/15/74	13	7.9	7.612	8.4	7.1	0.18	0.424	7.14	7.45	8.05	8.28
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/01/56-01/15/74	13	0.013	0.024	0.079	0.004	0.001	0.023	0.006	0.009	0.036	0.073
00440 BICARBONATE ION (MG/L AS HCO3)		10/01/56-01/15/74	10	190.	197.5	341.	145.	2968.278	54.482	146.8	164.5	203.	328.1
00900 HARDNESS, TOTAL (MG/L AS CACO3)		10/01/56-01/15/74	12	233.5	283.333	970.	177.	47390.061	217.693	180.	194.75	246.5	754.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		10/01/56-01/15/74	10	71.	129.1	690.	53.	38941.433	197.336	53.3	57.5	78.25	628.9
00915 CALCIUM, DISSOLVED (MG/L AS CA)		10/01/56-01/15/74	6	60.	85.833	230.	49.	5019.767	70.85	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		10/01/56-01/15/74	6	19.5	31.5	97.	15.	1037.1	32.204	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)		10/01/56-01/15/74	8	50.5	49.375	60.	39.	62.554	7.909	**	**	**	**
00931 SODIUM ADSORPTION RATIO		10/01/56-01/15/74	8	1.4	1.388	1.8	0.8	0.084	0.29	**	**	**	**
00932 SODIUM, PERCENT		10/01/56-01/15/74	8	32.5	30.5	36.	11.	64.	8.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)		10/01/56-01/15/74	4	4.3	5.525	10.	3.5	9.283	3.047	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	10/01/56-01/15/74	6	11.	10.5	14.	7.	8.7	2.95	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		10/01/56-01/15/74	8	206.	260.	770.	138.	43545.429	208.675	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)		10/01/56-01/15/74	4	0.4	0.4	0.5	0.3	0.007	0.082	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SIO2)		10/01/56-01/15/74	4	14.5	15.25	18.	14.	3.583	1.893	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		10/01/56-01/15/74	6	477.5	591.5	1370.	356.	150037.1	387.346	**	**	**	**
70302 SOLIDS, DISSOLVED-TONS PER DAY		10/01/56-01/15/74	6	14505.	24756.667	74000.	8840.	637269306.667	25244.194	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT		10/01/56-01/15/74	6	0.65	0.803	1.86	0.48	0.276	0.526	**	**	**	**

** - Less than 9 observations ## - Computed 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: 1/15 to 3/14 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	36	1.5	1.889	6.5	0.	2.002	1.415	0.35	1.	2.5	4.15
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	31	8.	3.319	21.	-15.	56.488	7.516	0.7	3.	-5.	16.6
00060 FLOW, STREAM, MEAN DAILY	CFS	10/01/56-12/12/73	17	10800.	14305.882	25000.	8099.	32721048.235	5720.231	8184.6	8749.	19700.	21800.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	28	17350.	16792.857	24100.	8620.	25448124.868	5044.613	10048.	12000.	21650.	23810.
00080 COLOR (PLATINUM-COBALT UNITS)		10/01/56-06/17/70	3	5.	5.	6.	4.	1.	1.	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	36	745.	716.306	830.	538.	6264.961	79.152	581.8	664.25	779.75	806.
00400 PH (STANDARD UNITS)		10/01/56-01/15/74	15	7.8	7.827	8.2	7.4	0.075	0.274	7.46	7.6	8.1	8.2
00400 CONVERTED PH (STANDARD UNITS)		10/01/56-01/15/74	15	7.8	7.752	8.2	7.4	0.081	0.285	7.46	7.6	8.1	8.2
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/01/56-01/15/74	15	0.016	0.018	0.04	0.006	0.	0.01	0.006	0.008	0.025	0.035
00440 BICARBONATE ION (MG/L AS HCO3)		10/01/56-01/15/74	12	180.	181.5	202.	163.	156.273	12.501	164.5	170.25	193.75	200.5
00900 HARDNESS, TOTAL (MG/L AS CACO3)		10/01/56-01/15/74	14	221.5	221.5	260.	182.	500.885	22.38	188.	203.75	240.	255.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		10/01/56-01/15/74	12	68.5	67.25	80.	48.	100.205	10.01	50.1	58.	74.5	80.
00915 CALCIUM, DISSOLVED (MG/L AS CA)		10/01/56-01/15/74	11	57.	58.	70.	50.	30.8	5.55	50.4	53.	61.	68.4
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		10/01/56-01/15/74	11	17.	18.182	23.	14.	9.364	3.06	14.2	16.	21.	22.8
00930 SODIUM, DISSOLVED (MG/L AS NA)		10/01/56-01/15/74	10	55.	54.6	72.	43.	74.489	8.631	43.4	47.75	59.5	71.2
00931 SODIUM ADSORPTION RATIO		10/01/56-01/15/74	10	1.6	1.63	2.	1.4	0.031	0.177	1.41	1.5	1.725	1.98
00932 SODIUM, PERCENT		10/01/56-01/15/74	10	34.	34.8	38.	33.	2.844	1.687	33.	33.75	36.25	37.9
00935 POTASSIUM, DISSOLVED (MG/L AS K)		10/01/56-01/15/74	9	4.6	4.6	6.	3.6	0.698	0.835	3.6	3.75	5.25	6.
00940 CHLORIDE,TOTAL IN WATER	MG/L	10/01/56-01/15/74	11	10.	9.636	13.	7.	3.655	1.912	7.	8.	11.	12.8
00945 SULFATE, TOTAL (MG/L AS SO4)		10/01/56-01/15/74	13	168.	179.462	220.	134.	928.603	30.473	139.2	155.5	215.	220.
00950 FLUORIDE, DISSOLVED (MG/L AS F)		10/01/56-01/15/74	9	0.5	0.511	0.6	0.4	0.004	0.06	0.4	0.5	0.55	0.6
00955 SILICA, DISSOLVED (MG/L AS SIO2)		10/01/56-01/15/74	9	12.	12.111	15.	10.	2.611	1.616	10.	10.5	13.	15.
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		10/01/56-01/15/74	11	440.	438.545	528.	354.	3534.473	59.451	357.2	376.	500.	525.2
70302 SOLIDS, DISSOLVED-TONS PER DAY		10/01/56-01/15/74	11	10460.	15120.909	28000.	7740.	64384589.091	8024.001	7900.	9170.	25000.	27960.
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT		10/01/56-01/15/74	11	0.6	0.596	0.72	0.48	0.007	0.082	0.484	0.51	0.68	0.716

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

Seasonal Analysis for Season #3: 3/15 to 7/14 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	95	15.	14.603	30.	2.	49.044	7.003	5.	8.5	21.	23.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	84	19.5	19.168	34.5	0.1	72.854	8.535	7.	12.	25.875	29.75
00060 FLOW, STREAM, MEAN DAILY	CFS	10/01/56-12/12/73	33	26580.	27823.242	54700.	8177.	79315368.814	8905.918	15958.	23740.	31130.	39800.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	86	29500.	30011.395	205000.	7800.	430028908.618	20737.138	15670.	22625.	33200.	38720.
00080 COLOR (PLATINUM-COBALT UNITS)		10/01/56-06/17/70	13	7.	7.154	10.	2.	5.474	2.34	2.8	6.	9.	10.
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	100	730.	724.51	930.	493.	6366.03	79.787	611.	681.	760.	839.
00400 PH (STANDARD UNITS)		10/01/56-01/15/74	33	7.8	7.836	8.5	7.2	0.122	0.35	7.34	7.6	8.2	8.3
00400 CONVERTED PH (STANDARD UNITS)		10/01/56-01/15/74	33	7.8	7.709	8.5	7.2	0.139	0.373	7.34	7.6	8.2	8.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/01/56-01/15/74	33	0.016	0.02	0.063	0.003	0.	0.015	0.005	0.006	0.025	0.046
00440 BICARBONATE ION (MG/L AS HCO3)		10/01/56-01/15/74	26	181.	180.769	274.	154.	491.945	22.18	159.4	167.5	185.25	193.3
00900 HARDNESS, TOTAL (MG/L AS CACO3)		10/01/56-01/15/74	30	219.	217.033	244.	168.	388.792	19.718	182.1	207.5	230.25	240.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		10/01/56-01/15/74	26	67.5	65.462	96.	4.	320.818	17.911	44.1	57.25	75.	84.3
00915 CALCIUM, DISSOLVED (MG/L AS CA)		10/01/56-01/15/74	24	56.5	55.167	65.	43.	32.667	5.715	46.5	50.25	59.	61.5
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		10/01/56-01/15/74	24	19.	18.75	22.	13.	5.326	2.308	15.	17.25	21.	21.
00930 SODIUM, DISSOLVED (MG/L AS NA)		10/01/56-01/15/74	23	56.	54.565	81.	38.	84.439	9.189	40.4	51.	59.	62.2
00931 SODIUM ADSORPTION RATIO		10/01/56-01/15/74	23	1.6	1.626	2.2	1.3	0.043	0.207	1.3	1.5	1.8	1.8
00932 SODIUM, PERCENT		10/01/56-01/15/74	23	35.	35.087	41.	32.	5.265	2.295	32.	33.	37.	38.
00935 POTASSIUM, DISSOLVED (MG/L AS K)		10/01/56-01/15/74	18	4.7	5.178	8.8	3.5	1.255	1.12	4.22	4.6	5.75	6.28
00940 CHLORIDE,TOTAL IN WATER	MG/L	10/01/56-01/15/74	24	9.	9.167	13.	6.	1.884	1.373	7.5	8.25	10.	10.5
00945 SULFATE, TOTAL (MG/L AS SO4)		10/01/56-01/15/74	27	194.	184.185	253.	118.	1006.926	31.732	133.4	164.	203.	222.
00950 FLUORIDE, DISSOLVED (MG/L AS F)		10/01/56-01/15/74	18	0.5	0.533	0.9	0.4	0.014	0.119	0.4	0.5	0.6	0.72
00955 SILICA, DISSOLVED (MG/L AS SIO2)		10/01/56-01/15/74	18	10.5	11.228	17.	7.5	8.939	2.99	7.68	9.375	13.25	17.
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		10/01/56-01/15/74	27	453.	446.704	544.	327.	3177.986	56.374	360.2	411.	476.	519.2
70302 SOLIDS, DISSOLVED-TONS PER DAY		10/01/56-01/15/74	25	31200.	33919.2	60400.	7220.	158330632.667	12582.95	16934.	27760.	42550.	54260.
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT		10/01/56-01/15/74	25	0.62	0.606	0.74	0.44	0.006	0.08	0.48	0.56	0.655	0.712

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

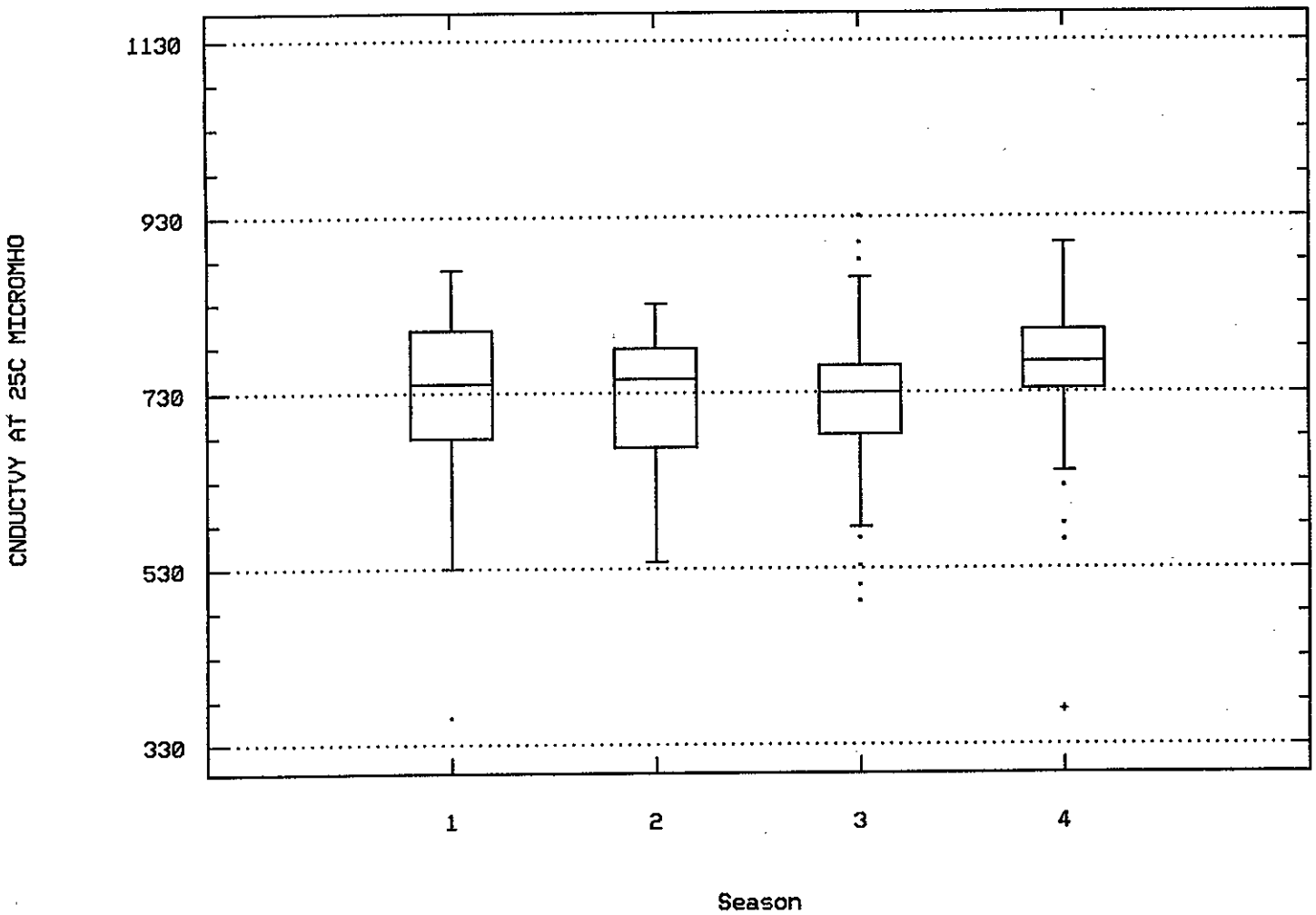
Seasonal Analysis for Season #4: 7/15 to 11/19 - Station MNRR0026

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/30/69-08/31/95	118	20.	17.704	27.	1.3	47.196	6.87	7.45	11.	24.	25.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		01/21/71-08/31/95	101	19.5	19.688	38.5	-2.5	68.174	8.257	9.	15.	26.	30.
00060 FLOW, STREAM, MEAN DAILY	CFS	10/01/56-12/12/73	35	32800.	36338.686	55100.	8184.	163661252.222	12793.016	16202.	28650.	48800.	52340.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/73-08/31/95	102	33300.	35104.314	63300.	7890.	116984105.96	10815.919	23090.	30775.	39100.	52140.
00080 COLOR (PLATINUM-COBALT UNITS)		10/01/56-06/17/70	3	7.	7.	8.	6.	1.	1.	**	**	**	**
00095p SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/01/56-08/31/95	106	764.	758.075	900.	370.	4489.518	67.004	687.	732.25	800.	819.3
00400 PH (STANDARD UNITS)		10/01/56-01/15/74	31	8.	7.897	8.5	7.	0.194	0.441	7.2	7.6	8.3	8.38
00400 CONVERTED PH (STANDARD UNITS)		10/01/56-01/15/74	31	8.	7.664	8.5	7.	0.25	0.5	7.2	7.6	8.3	8.38
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/01/56-01/15/74	31	0.01	0.022	0.1	0.003	0.001	0.025	0.004	0.005	0.025	0.063
00440 BICARBONATE ION (MG/L AS HCO3)		10/01/56-01/15/74	22	189.5	189.818	216.	162.	154.061	12.412	172.6	183.5	200.	207.1
00900 HARDNESS, TOTAL (MG/L AS CACO3)		10/01/56-01/15/74	28	235.	233.429	253.	190.	203.884	14.279	213.7	228.5	243.	250.3
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		10/01/56-01/15/74	23	78.	73.13	97.	0.	353.3	18.796	56.4	71.	82.	90.4
00915 CALCIUM, DISSOLVED (MG/L AS CA)		10/01/56-01/15/74	20	59.	59.1	66.	48.	17.147	4.141	53.3	57.25	62.75	64.
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		10/01/56-01/15/74	20	21.	20.2	23.	17.	3.221	1.795	17.	19.	21.	22.
00930 SODIUM, DISSOLVED (MG/L AS NA)		10/01/56-01/15/74	17	65.	64.	80.	43.	60.125	7.754	51.8	61.	67.	72.8
00931 SODIUM ADSORPTION RATIO		10/01/56-01/15/74	17	1.9	1.853	2.2	1.4	0.029	0.17	1.64	1.8	1.95	2.04
00932 SODIUM, PERCENT		10/01/56-01/15/74	17	37.	37.294	40.	32.	3.471	1.863	35.2	36.5	38.5	40.
00935 POTASSIUM, DISSOLVED (MG/L AS K)		10/01/56-01/15/74	11	5.4	5.3	6.3	3.9	0.596	0.772	3.92	5.	5.9	6.24
00940 CHLORIDE,TOTAL IN WATER	MG/L	10/01/56-01/15/74	20	10.	10.35	21.	6.	8.661	2.943	7.1	9.	11.	12.
00945 SULFATE, TOTAL (MG/L AS SO4)		10/01/56-01/15/74	24	209.5	207.917	258.	148.	399.471	19.987	181.	200.25	220.	220.5
00950 FLUORIDE, DISSOLVED (MG/L AS F)		10/01/56-01/15/74	11	0.5	0.536	0.7	0.4	0.009	0.092	0.4	0.5	0.6	0.68
00955 SILICA, DISSOLVED (MG/L AS SIO2)		10/01/56-01/15/74	11	8.8	9.836	15.	7.4	6.217	2.493	7.42	7.6	12.	14.6
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		10/01/56-01/15/74	20	491.	497.8	750.	359.	5333.642	73.032	411.9	472.	508.	556.7
70302 SOLIDS, DISSOLVED-TONS PER DAY		10/01/56-01/15/74	20	50000.	50108.5	106000.	11450.	486516645.	22057.122	16210.	36800.	67325.	71380.
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT		10/01/56-01/15/74	20	0.67	0.677	1.02	0.49	0.01	0.099	0.557	0.643	0.69	0.757

** - Less than 9 observations ## - Computed 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: MNRR0026 Parameter Code: 00095

SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)



MISSOURI R AT YANKTON SD

Station Inventory for Station: MNRR0027

NPS Station ID: MNRR0027 LAT/LON: 42.866115/ -97.393616 Agency: 11NPSWRD Date Created: 01/10/98
Location: YANKTON RAW WATER INTAKE AT MERIDIAN BRIDGE FIPS State/County: 46135 SOUTH DAKOTA/YANKTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): NIMI_YWD_MERI1 /06467500
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: LOWER MISSOURI R FROM NIOBRARA R ECO Region:
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10170203001300.00 RF3 Mile Point: 6.56 Distance from RF3: 0.09 On/Off RF3:
Description:

THE SITE IS LOCATED ON THE GAVINS POINT DAM NEBRASKA-SOUTH DAKOTA 7.5 MINUTE (TOPOGRAPHIC) QUADRANGLE. THE SITE IS LOCATED WITHIN THE MISSOURI NATIONAL RECREATION RIVER PARK BOUNDARY APPROXIMATELY 2 YARDS FROM USGS GAGING STATION 06467500 AT MERIDIAN BRIDGE; MILE MARKER 805.76. DATA FOR THIS SITE WERE COLLECTED FROM 1988 THROUGH 1997 BY THE CITY OF YANKTON WATER DEPARTMENT TO MONITOR RAW WATER QUALITY BEFORE TREATMENT IN THE FILTRATION PLANT. DATA COLLECTED INCLUDE FECAL COLIFORMS; TURBIDITY; TEMPERATURE; DISSOLVED OXYGEN CHLORIDE; HARDNESS; ALKALINITY; AND COLOR. THE ENTRIES FOR COLOR DATA REPRESENT COMBINED TOTALS OF TRUE AND APPARENT VALUES. FOR ADDITIONAL INFORMATION CONTACT RESOURCE MANAGEMENT AT MISSOURI NATIONAL RECREATION RIVER; P.O. BOX 591; O'NEIL NEBRASKA 68763-0591; TEL(402)336-3970. THE DATA WERE PROCESSED AND UPLOADED TO STORET BY KRISTIE MACZKO NPS-WRD FORT COLLINS COLORADO 80525. TEL(970)225-3514.

Parameter Inventory for Station: MNRR0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/01/88-09/30/97	3516	11.5	12.067	31.	0.5	77.148	8.783	1.5	3.	21.	24.
00080 COLOR (PLATINUM-COBALT UNITS)		01/28/88-09/30/97	694	105.	114.873	476.	10.	3845.378	62.011	55.	80.	140.	175.
00300 OXYGEN, DISSOLVED	MG/L	01/28/88-09/25/97	99	9.9	10.161	14.5	6.8	4.199	2.049	7.4	8.5	12.2	13.
00403 PH, LAB, STANDARD UNITS	SU	01/01/88-09/30/97	3515	8.3	8.301	9.4	7.7	0.024	0.154	8.1	8.2	8.4	8.5
00403 CONVERTED PH, LAB, STANDARD UNITS		01/01/88-09/30/97	3515	8.3	8.272	9.4	7.7	0.025	0.157	8.1	8.2	8.4	8.5
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/01/88-09/30/97	3515	0.005	0.005	0.02	0.	0.	0.002	0.003	0.004	0.006	0.008
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	3516	160.	160.241	188.	16.	54.104	7.356	152.	156.	164.	168.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		01/01/88-09/30/97	3516	4.	3.336	12.	0.	3.826	1.956	0.	2.	4.	6.
00900 HARDNESS, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	3516	238.	238.143	308.	162.	149.355	12.221	224.	232.	244.	252.
00901 HARDNESS, CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	3516	150.	150.637	208.	100.	134.046	11.578	136.	142.	158.	166.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	3516	76.	77.937	168.	40.	113.247	10.642	66.	72.	82.	90.
00940 CHLORIDE,TOTAL IN WATER	MG/L	01/28/88-09/25/97	99	16.	16.414	24.	10.	3.47	1.863	14.	15.	17.	18.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		01/28/88-03/27/97	54	3.5	7.111	60.	0.	142.327	11.93	0.	0.75	7.	21.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		01/28/88-03/27/97	54	0.54	0.549	1.778	0.	0.245	0.495	0.	0.	0.845	1.322
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C				GEOMETRIC MEAN =	3.542								
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		01/01/88-09/30/97	3507	7.7	8.5	62.	1.	34.505	5.874	2.4	4.2	11.	16.

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

EPA Water Quality Criteria Analysis for Station: MNRR0027

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	99	0	0.00	12	0	0.00	16	0	0.00	33	0	0.00	38	0	0.00
00403 PH, LAB	Fresh Chronic	9.	3515	2	0.00	499	1	0.00	584	0	0.00	1211	1	0.00	1221	0	0.00
	Other-Lo Lim.	6.5	3515	0	0.00	499	0	0.00	584	0	0.00	1211	0	0.00	1221	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	99	0	0.00	12	0	0.00	16	0	0.00	33	0	0.00	38	0	0.00
	Drinking Water	250.	99	0	0.00	12	0	0.00	16	0	0.00	33	0	0.00	38	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	54	0	0.00	3	0	0.00	12	0	0.00	18	0	0.00	21	0	0.00
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	3507	6	0.00	498	0	0.00	583	0	0.00	1206	6	0.00	1220	0	0.00

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

Annual Analysis for 1988 - Station MNRR0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/01/88-09/30/97	348	11.5	12.796	27.	1.	82.38	9.076	2.	3.	22.	25.
00080 COLOR (PLATINUM-COBALT UNITS)		01/28/88-09/30/97	9	100.	81.667	130.	15.	1718.75	41.458	15.	42.5	120.	130.
00300 OXYGEN, DISSOLVED	MG/L	01/28/88-09/25/97	9	10.5	9.856	12.7	7.	4.993	2.234	7.	7.3	11.85	12.7
00403 PH, LAB, STANDARD UNITS	SU	01/01/88-09/30/97	347	8.1	8.108	8.5	7.8	0.012	0.112	8.	8.1	8.2	8.2
00403 CONVERTED PH, LAB, STANDARD UNITS		01/01/88-09/30/97	347	8.1	8.093	8.5	7.8	0.013	0.113	8.	8.1	8.2	8.2
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/01/88-09/30/97	347	0.008	0.008	0.016	0.003	0.	0.002	0.006	0.006	0.008	0.01
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	347	160.	160.081	174.	136.	32.687	5.717	154.	158.	164.	166.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		01/01/88-09/30/97	347	4.	3.942	8.	0.	5.083	2.255	0.	2.	6.	6.
00900 HARDNESS, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	347	234.	233.695	268.	208.	87.825	9.372	224.	228.	238.	246.
00901 HARDNESS, CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	347	142.	143.654	166.	128.	65.707	8.106	134.	136.	150.	156.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	347	74.	73.597	94.	58.	56.461	7.514	64.	68.	78.	84.
00940 CHLORIDE,TOTAL IN WATER	MG/L	01/28/88-09/25/97	9	16.	16.667	24.	13.	10.5	3.24	13.	14.5	18.	24.
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		01/01/88-09/30/97	347	9.2	10.603	30.	1.5	41.947	6.477	2.8	6.	14.	20.

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/01/88-09/30/97	357	13.5	12.363	27.	1.	76.443	8.743	2.	3.	19.75	24.
00080 COLOR (PLATINUM-COBALT UNITS)		01/28/88-09/30/97	9	65.	70.333	130.	15.	2027.25	45.025	15.	29.	122.5	130.
00300 OXYGEN, DISSOLVED	MG/L	01/28/88-09/25/97	9	9.3	9.9	13.2	6.8	6.495	2.549	6.8	7.6	12.95	13.2
00403 PH, LAB, STANDARD UNITS	SU	01/01/88-09/30/97	357	8.3	8.32	8.8	7.9	0.017	0.132	8.18	8.2	8.4	8.5
00403 CONVERTED PH, LAB, STANDARD UNITS		01/01/88-09/30/97	357	8.3	8.3	8.8	7.9	0.018	0.133	8.18	8.2	8.4	8.5
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/01/88-09/30/97	357	0.005	0.005	0.013	0.002	0.	0.002	0.003	0.004	0.006	0.007
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	357	166.	165.972	180.	138.	31.157	5.582	162.	164.	169.	172.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		01/01/88-09/30/97	357	4.	3.557	12.	0.	2.084	1.444	2.	4.	4.	4.
00900 HARDNESS, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	357	240.	238.986	270.	190.	73.272	8.56	234.	236.	242.	246.
00901 HARDNESS, CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	357	144.	144.98	170.	124.	46.081	6.788	138.	140.	148.	156.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	357	74.	73.289	168.	50.	56.65	7.527	66.	70.	78.	80.
00940 CHLORIDE,TOTAL IN WATER	MG/L	01/28/88-09/25/97	9	15.	15.333	18.	12.	3.5	1.871	12.	14.	17.	18.
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		01/01/88-09/30/97	356	8.85	9.777	31.	1.7	31.063	5.573	3.37	5.3	13.	17.

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

Annual Analysis for 1990 - Station MNRR0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/01/88-09/30/97	357	12.	12.7	26.	1.	70.401	8.391	2.5	4.	22.	24.
00080 COLOR (PLATINUM-COBALT UNITS)		01/28/88-09/30/97	12	85.	93.	180.	35.	2406.182	49.053	36.8	47.5	113.75	180.
00300 OXYGEN, DISSOLVED	MG/L	01/28/88-09/25/97	12	11.7	11.033	13.4	7.8	4.381	2.093	7.83	8.975	12.775	13.34
00403 PH, LAB, STANDARD UNITS	SU	01/01/88-09/30/97	357	8.4	8.365	9.	8.1	0.013	0.116	8.2	8.3	8.4	8.5
00403 CONVERTED PH, LAB, STANDARD UNITS		01/01/88-09/30/97	357	8.4	8.35	9.	8.1	0.014	0.117	8.2	8.3	8.4	8.5
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/01/88-09/30/97	357	0.004	0.004	0.008	0.001	0.	0.001	0.003	0.004	0.005	0.006
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	357	164.	164.017	176.	16.	96.056	9.801	158.	160.	168.	172.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		01/01/88-09/30/97	357	4.	4.034	12.	2.	0.313	0.56	4.	4.	4.	4.
00900 HARDNESS, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	357	238.	238.398	274.	198.	75.201	8.672	228.	234.	242.	250.
00901 HARDNESS, CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	357	142.	142.325	164.	118.	36.029	6.002	136.	138.	146.	150.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	357	74.	73.978	98.	58.	23.191	4.816	70.	72.	76.	80.
00940 CHLORIDE,TOTAL IN WATER	MG/L	01/28/88-09/25/97	12	16.	15.5	18.	12.	2.273	1.508	12.6	15.	16.	17.7
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		01/01/88-09/30/97	356	7.7	8.622	24.	1.	26.711	5.168	2.5	4.425	12.	17.

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

Annual Analysis for 1991 - Station MNRR0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/01/88-09/30/97	363	11.	12.161	31.	1.	81.161	9.009	2.	3.	23.	24.3
00080 COLOR (PLATINUM-COBALT UNITS)		01/28/88-09/30/97	12	59.	68.167	165.	23.	1975.242	44.444	23.3	27.5	98.75	148.5
00300 OXYGEN, DISSOLVED	MG/L	01/28/88-09/25/97	12	11.45	11.242	13.5	7.8	3.679	1.918	8.22	9.675	13.175	13.44
00403 PH, LAB, STANDARD UNITS	SU	01/01/88-09/30/97	363	8.4	8.376	8.7	8.1	0.011	0.106	8.3	8.3	8.4	8.5
00403 CONVERTED PH, LAB, STANDARD UNITS		01/01/88-09/30/97	363	8.4	8.363	8.7	8.1	0.011	0.107	8.3	8.3	8.4	8.5
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/01/88-09/30/97	363	0.004	0.004	0.008	0.002	0.	0.001	0.003	0.004	0.005	0.005
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	363	156.	157.994	174.	138.	43.856	6.622	152.	154.	162.	168.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		01/01/88-09/30/97	363	4.	3.427	6.	0.	0.953	0.976	2.	2.	4.	4.
00900 HARDNESS, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	363	226.	227.879	262.	196.	143.123	11.963	214.	220.	236.	242.
00901 HARDNESS, CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	363	136.	137.41	166.	116.	48.414	6.958	130.	132.	142.	146.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	363	70.	70.138	160.	50.	90.467	9.511	60.	64.	76.	82.
00940 CHLORIDE,TOTAL IN WATER	MG/L	01/28/88-09/25/97	12	17.	16.833	18.	15.	1.606	1.267	15.	15.25	18.	18.
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		01/01/88-09/30/97	362	8.	8.49	25.	1.	31.3	5.595	1.9	3.	12.	17.

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

Annual Analysis for 1992 - Station MNRR0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/01/88-09/30/97	366	11.	11.648	23.5	1.	58.982	7.68	2.	3.375	19.5	22.
00080 COLOR (PLATINUM-COBALT UNITS)		01/28/88-09/30/97	11	48.	63.727	120.	23.	1193.418	34.546	23.6	30.	90.	118.
00300 OXYGEN, DISSOLVED	MG/L	01/28/88-09/25/97	11	9.5	9.636	12.2	7.5	2.671	1.634	7.52	8.2	10.6	12.2
00403 PH, LAB, STANDARD UNITS	SU	01/01/88-09/30/97	366	8.4	8.397	9.4	8.	0.015	0.123	8.2	8.3	8.5	8.5
00403 CONVERTED PH, LAB, STANDARD UNITS		01/01/88-09/30/97	366	8.4	8.381	9.4	8.	0.015	0.124	8.2	8.3	8.5	8.5
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/01/88-09/30/97	366	0.004	0.004	0.01	0.	0.	0.001	0.003	0.003	0.005	0.006
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	366	156.	156.475	168.	144.	17.472	4.18	150.	154.	160.	162.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		01/01/88-09/30/97	366	4.	4.574	8.	2.	1.829	1.352	2.	4.	6.	6.
00900 HARDNESS, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	366	236.	235.639	252.	212.	42.938	6.553	228.	232.	240.	242.
00901 HARDNESS, CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	366	146.	145.617	160.	134.	18.79	4.335	140.	142.	148.	150.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	366	80.	79.169	90.	62.	17.807	4.22	74.	78.	82.	84.
00940 CHLORIDE,TOTAL IN WATER	MG/L	01/28/88-09/25/97	11	17.	17.818	21.	15.	2.564	1.601	15.4	17.	19.	20.6
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		01/01/88-09/30/97	363	6.8	7.134	18.	1.3	14.054	3.749	2.6	3.8	10.	12.

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

Annual Analysis for 1993 - Station MNRR0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/01/88-09/30/97	359	12.	11.256	25.5	1.	77.913	8.827	1.	2.	19.5	23.5
00080 COLOR (PLATINUM-COBALT UNITS)		01/28/88-09/30/97	6	95.	102.5	170.	45.	1687.5	41.079	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	01/28/88-09/25/97	7	8.7	9.214	14.5	7.	6.411	2.532	**	**	**	**
00403 PH, LAB, STANDARD UNITS	SU	01/01/88-09/30/97	359	8.3	8.298	8.6	7.8	0.019	0.136	8.1	8.2	8.4	8.4
00403 CONVERTED PH, LAB, STANDARD UNITS		01/01/88-09/30/97	359	8.3	8.275	8.6	7.8	0.019	0.138	8.1	8.2	8.4	8.4
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/01/88-09/30/97	359	0.005	0.005	0.016	0.003	0.	0.002	0.004	0.004	0.006	0.008
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	359	156.	155.95	170.	120.	52.545	7.249	148.	154.	162.	164.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		01/01/88-09/30/97	359	4.	3.281	10.	0.	5.549	2.356	0.	2.	4.	6.
00900 HARDNESS, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	359	238.	237.365	264.	162.	161.763	12.719	226.	232.	244.	250.
00901 HARDNESS, CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	359	156.	156.011	180.	118.	59.307	7.701	148.	152.	160.	164.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	359	82.	81.448	114.	40.	69.807	8.355	72.	78.	86.	92.
00940 CHLORIDE,TOTAL IN WATER	MG/L	01/28/88-09/25/97	7	17.	16.571	17.	16.	0.286	0.535	**	**	**	**
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		01/01/88-09/30/97	359	8.	8.676	62.	1.3	60.436	7.774	2.1	4.4	10.	14.

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

Annual Analysis for 1994 - Station MNRR0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/01/88-09/30/97	365	12.	12.252	25.	0.5	78.596	8.865	1.	3.	22.	23.7
00080 COLOR (PLATINUM-COBALT UNITS)		01/28/88-09/30/97	40	140.	182.675	470.	22.	16279.456	127.591	65.1	90.	255.	422.5
00300 OXYGEN, DISSOLVED	MG/L	01/28/88-09/25/97	11	8.6	9.455	13.8	7.1	3.779	1.944	7.18	8.1	10.8	13.24
00403 PH, LAB, STANDARD UNITS	SU	01/01/88-09/30/97	364	8.4	8.342	8.7	8.	0.023	0.15	8.1	8.2	8.5	8.5
00403 CONVERTED PH, LAB, STANDARD UNITS		01/01/88-09/30/97	364	8.4	8.315	8.7	8.	0.023	0.153	8.1	8.2	8.5	8.5
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/01/88-09/30/97	364	0.004	0.005	0.01	0.002	0.	0.002	0.003	0.003	0.006	0.008
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	365	160.	159.025	188.	132.	36.76	6.063	152.	156.	162.	166.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		01/01/88-09/30/97	365	4.	3.726	8.	0.	6.298	2.51	0.	2.	6.	8.
00900 HARDNESS, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	365	232.	234.219	260.	192.	107.358	10.361	226.	228.	242.	248.8
00901 HARDNESS, CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	365	154.	153.507	174.	122.	54.24	7.365	144.	148.	160.	164.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	365	74.	75.222	94.	58.	49.832	7.059	66.	70.	80.	86.
00940 CHLORIDE,TOTAL IN WATER	MG/L	01/28/88-09/25/97	11	17.	15.909	19.	10.	6.891	2.625	10.6	14.	18.	18.8
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		01/01/88-09/30/97	365	6.4	7.178	42.	1.1	31.105	5.577	2.1	4.	8.4	12.4

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

Annual Analysis for 1995 - Station MNRR0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/01/88-09/30/97	365	10.	11.807	27.5	1.	77.265	8.79	1.5	2.75	20.5	25.
00080 COLOR (PLATINUM-COBALT UNITS)		01/28/88-09/30/97	189	125.	129.635	280.	32.	2088.169	45.696	80.	95.	160.	190.
00300 OXYGEN, DISSOLVED	MG/L	01/28/88-09/25/97	9	10.3	9.989	13.	7.	5.449	2.334	7.	7.35	12.1	13.
00403 PH, LAB, STANDARD UNITS	SU	01/01/88-09/30/97	365	8.3	8.28	8.6	8.	0.017	0.131	8.1	8.2	8.4	8.4
00403 CONVERTED PH, LAB, STANDARD UNITS		01/01/88-09/30/97	365	8.3	8.26	8.6	8.	0.017	0.132	8.1	8.2	8.4	8.4
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/01/88-09/30/97	365	0.005	0.005	0.01	0.003	0.	0.002	0.004	0.004	0.006	0.008
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	365	160.	160.449	178.	146.	31.929	5.651	154.	156.	164.	168.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		01/01/88-09/30/97	365	2.	1.786	6.	0.	1.701	1.304	0.	0.	2.	4.
00900 HARDNESS, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	365	240.	243.649	308.	210.	217.811	14.758	228.	234.	250.	260.
00901 HARDNESS, CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	365	160.	163.551	208.	134.	139.468	11.81	152.	156.	170.	178.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	365	82.	83.151	142.	54.	213.376	14.607	66.	72.	92.	100.8
00940 CHLORIDE,TOTAL IN WATER	MG/L	01/28/88-09/25/97	9	17.	17.222	18.	16.	0.694	0.833	16.	16.5	18.	18.
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		01/01/88-09/30/97	365	8.	8.559	27.	1.6	27.891	5.281	2.3	4.25	12.	16.

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

Annual Analysis for 1996 - Station MNRR0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/01/88-09/30/97	363	9.5	11.31	25.5	1.	81.798	9.044	1.	2.	21.	24.5
00080 COLOR (PLATINUM-COBALT UNITS)		01/28/88-09/30/97	186	92.5	94.339	200.	21.	1341.025	36.62	50.	70.	115.	150.
00300 OXYGEN, DISSOLVED	MG/L	01/28/88-09/25/97	11	10.9	10.9	12.6	9.2	1.628	1.276	9.22	9.6	12.2	12.56
00403 PH, LAB, STANDARD UNITS	SU	01/01/88-09/30/97	364	8.3	8.267	8.7	7.9	0.02	0.141	8.1	8.2	8.4	8.4
00403 CONVERTED PH, LAB, STANDARD UNITS		01/01/88-09/30/97	364	8.3	8.244	8.7	7.9	0.02	0.143	8.1	8.2	8.4	8.4
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/01/88-09/30/97	364	0.005	0.006	0.013	0.002	0.	0.002	0.004	0.004	0.006	0.008
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	364	164.	164.176	180.	140.	34.217	5.85	158.	160.	168.	170.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		01/01/88-09/30/97	364	2.	2.632	10.	0.	4.084	2.021	0.	0.	4.	4.
00900 HARDNESS, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	364	242.	243.429	266.	214.	101.601	10.08	230.	236.	250.	258.
00901 HARDNESS, CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	364	158.	158.621	184.	142.	42.049	6.484	150.	154.	162.	166.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	364	80.	79.538	164.	56.	102.023	10.101	66.	72.	86.	90.
00940 CHLORIDE,TOTAL IN WATER	MG/L	01/28/88-09/25/97	11	16.	15.727	17.	14.	0.818	0.905	14.2	15.	16.	17.
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		01/01/88-09/30/97	363	6.4	7.363	60.	1.4	28.618	5.35	2.2	3.6	9.6	13.6

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

Annual Analysis for 1997 - Station MNRR0027

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/01/88-09/30/97	273	12.	12.529	27.	0.5	88.97	9.432	1.	1.75	22.	24.5
00080	COLOR (PLATINUM-COBALT UNITS)		01/28/88-09/30/97	220	108.5	117.041	476.	10.	4095.09	63.993	63.1	82.	132.	160.9
00300	OXYGEN, DISSOLVED	MG/L	01/28/88-09/25/97	8	9.45	9.563	12.4	7.6	2.803	1.674	**	**	**	**
00403	PH, LAB, STANDARD UNITS	SU	01/01/88-09/30/97	273	8.3	8.226	8.6	7.7	0.028	0.166	8.	8.1	8.3	8.4
00403	CONVERTED PH, LAB, STANDARD UNITS		01/01/88-09/30/97	273	8.3	8.193	8.6	7.7	0.029	0.169	8.	8.1	8.3	8.4
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/01/88-09/30/97	273	0.005	0.006	0.02	0.003	0.	0.003	0.004	0.005	0.008	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	273	158.	157.788	178.	140.	61.764	7.859	148.	152.	162.	170.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		01/01/88-09/30/97	273	2.	2.147	8.	0.	3.89	1.972	0.	0.	4.	4.
00900	HARDNESS, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	273	252.	251.231	276.	212.	145.538	12.064	234.	242.	260.	266.
00901	HARDNESS, CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	273	164.	163.282	180.	100.	77.159	8.784	152.	157.	170.	173.2
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	273	92.	93.333	118.	66.	102.392	10.119	82.	86.	102.	108.
00940	CHLORIDE,TOTAL IN WATER	MG/L	01/28/88-09/25/97	8	16.	16.75	20.	16.	2.214	1.488	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS,	NTU	01/01/88-09/30/97	271	7.9	8.804	44.	1.4	45.009	6.709	2.52	4.7	10.	14.

** - Less than 9 observations ## - Computed 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: 11/20 to 1/14 - Station MNRR0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/01/88-09/30/97	500	2.	2.407	8.5	0.5	2.129	1.459	1.	1.5	3.	4.45
00080 COLOR (PLATINUM-COBALT UNITS)		01/28/88-09/30/97	25	40.	48.6	125.	15.	902.083	30.035	24.6	26.	62.5	104.
00300 OXYGEN, DISSOLVED	MG/L	01/28/88-09/25/97	12	12.5	12.433	14.5	10.9	1.09	1.044	10.99	11.5	12.875	14.29
00403 PH, LAB, STANDARD UNITS	SU	01/01/88-09/30/97	499	8.3	8.308	9.	8.	0.024	0.155	8.1	8.2	8.4	8.5
00403 CONVERTED PH, LAB, STANDARD UNITS		01/01/88-09/30/97	499	8.3	8.281	9.	8.	0.025	0.157	8.1	8.2	8.4	8.5
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/01/88-09/30/97	499	0.005	0.005	0.01	0.001	0.	0.002	0.003	0.004	0.006	0.008
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	499	162.	160.97	180.	128.	49.515	7.037	152.	156.	166.	170.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		01/01/88-09/30/97	499	4.	3.058	12.	0.	2.477	1.574	0.	2.	4.	4.
00900 HARDNESS, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	499	236.	239.166	274.	198.	105.103	10.252	228.	232.	244.	254.
00901 HARDNESS, CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	499	152.	151.655	184.	124.	92.716	9.629	140.	144.	158.	164.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	499	78.	78.212	108.	62.	56.123	7.492	68.	72.	84.	88.
00940 CHLORIDE,TOTAL IN WATER	MG/L	01/28/88-09/25/97	12	16.	16.333	18.	15.	1.152	1.073	15.	15.25	17.	18.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		01/28/88-03/27/97	3	2.	2.	3.	1.	1.	1.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		01/28/88-03/27/97	3	0.301	0.259	0.477	0.	0.058	0.241	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C				GEOMETRIC MEAN =	1.817								
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		01/01/88-09/30/97	498	3.1	3.763	22.	1.	5.257	2.293	1.9	2.3	4.5	6.22

** - Less than 9 observations ## - Computed 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: 1/15 to 3/14 - Station MNRR0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/01/88-09/30/97	585	2.	2.061	6.	0.5	0.886	0.941	1.	1.5	3.	3.
00080 COLOR (PLATINUM-COBALT UNITS)		01/28/88-09/30/97	56	85.5	128.786	476.	10.	15707.662	125.33	23.	40.5	186.25	350.4
00300 OXYGEN, DISSOLVED	MG/L	01/28/88-09/25/97	16	12.6	12.288	13.5	8.5	1.758	1.326	9.41	12.2	13.15	13.36
00403 PH, LAB, STANDARD UNITS	SU	01/01/88-09/30/97	584	8.2	8.226	8.6	7.7	0.03	0.172	8.	8.1	8.4	8.4
00403 CONVERTED PH, LAB, STANDARD UNITS		01/01/88-09/30/97	584	8.2	8.191	8.6	7.7	0.031	0.176	8.	8.1	8.4	8.4
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/01/88-09/30/97	584	0.006	0.006	0.02	0.003	0.	0.003	0.004	0.004	0.008	0.01
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	585	162.	161.952	180.	138.	52.08	7.217	152.	158.	166.	170.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		01/01/88-09/30/97	585	2.	1.535	4.	0.	2.277	1.509	0.	0.	2.	4.
00900 HARDNESS, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	585	240.	238.65	264.	206.	133.714	11.563	224.	230.	248.	254.
00901 HARDNESS, CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	585	154.	152.903	180.	128.	91.376	9.559	140.	146.	160.	164.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	585	76.	76.68	104.	52.	64.79	8.049	66.	71.	82.	88.
00940 CHLORIDE,TOTAL IN WATER	MG/L	01/28/88-09/25/97	16	16.	16.438	24.	13.	6.263	2.502	13.7	15.	17.	20.5
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		01/28/88-03/27/97	12##	0.5	1.25	4.	0.	2.386	1.545	0.	0.	2.	4.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		01/28/88-03/27/97	12##	0.	0.176	0.602	0.	0.057	0.239	0.	0.	0.301	0.602
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C				GEOMETRIC MEAN =	1.498								
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		01/01/88-09/30/97	583	2.8	4.053	44.	1.	24.541	4.954	1.6	2.1	4.	6.5

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

Seasonal Analysis for Season #3: 3/15 to 7/14 - Station MNRR0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/01/88-09/30/97	1210	14.5	14.125	27.	1.	47.088	6.862	5.	8.	21.	23.
00080 COLOR (PLATINUM-COBALT UNITS)		01/28/88-09/30/97	324	95.	110.586	470.	21.	3747.308	61.215	55.	75.	138.75	173.
00300 OXYGEN, DISSOLVED	MG/L	01/28/88-09/25/97	33	9.8	9.824	13.4	7.	3.294	1.815	7.18	8.25	10.9	12.52
00403 PH, LAB, STANDARD UNITS	SU	01/01/88-09/30/97	1211	8.3	8.309	9.4	7.8	0.025	0.157	8.1	8.2	8.4	8.5
00403 CONVERTED PH, LAB, STANDARD UNITS		01/01/88-09/30/97	1211	8.3	8.28	9.4	7.8	0.025	0.16	8.1	8.2	8.4	8.5
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/01/88-09/30/97	1211	0.005	0.005	0.016	0.	0.	0.002	0.003	0.004	0.006	0.008
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	1211	160.	160.591	180.	120.	60.364	7.769	150.	156.	166.	170.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		01/01/88-09/30/97	1211	4.	3.43	10.	0.	3.559	1.887	0.	2.	4.	6.
00900 HARDNESS, TOTAL (MG/L AS CACO3)		01/01/88-09/30/97	1211	238.	238.504	308.	162.	230.526	15.183	222.	232.	244.	258.
00901 HARDNESS, CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	1211	150.	151.197	208.	100.	163.117	12.772	138.	144.	158.	168.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		01/01/88-09/30/97	1211	76.	78.178	168.	40.	180.299	13.428	64.	70.	84.	96.

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

Seasonal Analysis for Season #3: 3/15 to 7/14 - Station MNRR0027

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940 CHLORIDE,TOTAL IN WATER MG/L	01/28/88-09/25/97	33	16.	15.909	20.	10.	3.773	1.942	14.	15.	17.	18.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/28/88-03/27/97	18	3.5	4.278	20.	0.	23.859	4.885	0.	0.	6.25	9.2
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/28/88-03/27/97	18	0.54	0.476	1.301	0.	0.171	0.414	0.	0.	0.795	0.943
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	2.993								
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	01/01/88-09/30/97	1206	8.6	10.517	62.	2.3	43.64	6.606	5.	6.4	13.	18.

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

Seasonal Analysis for Season #4: 7/15 to 11/19 - Station MNRR0027

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/01/88-09/30/97	1221	21.	18.776	31.	2.	38.806	6.229	9.	14.5	24.	25.
00080 COLOR (PLATINUM-COBALT UNITS)	01/28/88-09/30/97	289	116.	122.716	280.	30.	1474.03	38.393	80.	100.	145.	175.
00300 OXYGEN, DISSOLVED MG/L	01/28/88-09/25/97	38	8.8	8.839	12.	6.8	1.712	1.309	7.18	7.6	9.65	10.62
00403 PH, LAB, STANDARD UNITS SU	01/01/88-09/30/97	1221	8.3	8.324	8.7	8.	0.017	0.129	8.1	8.2	8.4	8.5
00403 CONVERTED PH, LAB, STANDARD UNITS	01/01/88-09/30/97	1221	8.3	8.305	8.7	8.	0.017	0.13	8.1	8.2	8.4	8.5
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/01/88-09/30/97	1221	0.005	0.005	0.01	0.002	0.	0.001	0.003	0.004	0.006	0.008
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	01/01/88-09/30/97	1221	158.	158.775	188.	16.	46.976	6.854	152.	156.	162.	166.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/01/88-09/30/97	1221	4.	4.219	12.	0.	3.014	1.736	2.	4.	6.	6.
00900 HARDNESS, TOTAL (MG/L AS CACO3)	01/01/88-09/30/97	1221	238.	237.125	266.	200.	93.051	9.646	224.	232.	242.	248.
00901 HARDNESS, CARBONATE (MG/L AS CACO3)	01/01/88-09/30/97	1221	146.	148.58	180.	118.	135.408	11.636	134.	138.	156.	164.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/01/88-09/30/97	1221	78.	78.187	116.	58.	92.627	9.624	66.	72.	82.	92.
00940 CHLORIDE,TOTAL IN WATER MG/L	01/28/88-09/25/97	38	17.	16.868	21.	12.	2.604	1.614	15.9	16.	18.	18.1
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/28/88-03/27/97	21	6.	13.619	60.	0.	279.248	16.711	0.4	3.5	19.	49.6
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/28/88-03/27/97	21	0.778	0.867	1.778	0.	0.259	0.509	0.06	0.54	1.273	1.687
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	7.357								
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	01/01/88-09/30/97	1220	10.	10.564	31.	2.	15.327	3.915	6.41	8.	12.	16.

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

Station Inventory for Station: MNRR0028

NPS Station ID: MNRR0028 LAT/LON: 42.866115/ -97.393616 Agency: 1110NET Date Created: / /
Location: MISSOURI R. @ YANKTON, S. DAK. FIPS State/County: 46135 SOUTH DAKOTA/YANKTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 06467500
RMI-Indexes: Within Park Boundary: Yes
RMI-Miles:
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: CENTRAL MISSOURI BASIN ECO Region:
RF1 Index: 10170101017 RF1 Mile Point: 0.610 Distance from RF1: 2.00 On/Off RF1: ON
RF3 Index: 10170101001700.00 RF3 Mile Point: 0.15 Distance from RF3: 0.02 On/Off RF3:
Description:

MISSOURI RIVER AT YANKTON, S. DAK. YANKTON COUNTY, NEAR LEFT BANK IN DOWNSTREAM END OF LEFT PIER OF MERIDIAN HIGHWAY BRIDGE ON U.S. HIGHWAY 81, 5.0 MILES DOWNSTREAM FROM GRAVINS POINT DAM, 6.0 MILES UPSTREAM FROM JAMES RIVER, AND AT MILE 805.8.
COOPERATIVE EPA-USGS WATER QUALITY STATION ENTERED AS A EPA NET STATION FOR PURPOSE OF RECORDING: (1)DATA SAMPLED BY USGS BUT ANALYZED BY EPA LABORATORIES AND (2)THE FOLLOWING USGS FIELD DATA: FLOW, WATER TEMPERAT- URE, DO, PH, TOTAL COLIFORM AND FECAL COLIFORM.

Parameter Inventory for Station: MNRR0028

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01025 CADMIUM, DISSOLVED (UG/L AS CD)	04/01/72-08/22/73	5##	2.5	3.	5.	2.5	1.25	1.118	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	04/01/72-08/22/73	5##	5.	5.5	10.	2.5	7.5	2.739	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	04/01/72-08/22/73	5	5.	5.2	6.	5.	0.2	0.447	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	04/01/72-08/22/73	5	15.	17.	30.	5.	157.5	12.55	**	**	**	**
01049 LEAD, DISSOLVED (UG/L AS PB)	04/01/72-04/26/73	4	10.	10.125	18.	2.5	40.063	6.329	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	04/01/72-08/22/73	5	10.	15.8	40.	5.	209.2	14.464	**	**	**	**
01057 THALLIUM, DISSOLVED (UG/L AS TL)	04/01/72-04/01/72	1	18.	18.	18.	18.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	04/01/72-08/22/73	5##	5.	5.4	10.	2.5	10.175	3.19	**	**	**	**
01503 ALPHA, DISSOLVED	06/30/70-12/31/71	5	4.	3.8	4.	3.	0.2	0.447	**	**	**	**
03503 BETA, DISSOLVED	06/30/70-12/31/71	5	17.	15.4	20.	9.	17.3	4.159	**	**	**	**
22703 URANIUM, NATURAL, DISSOLVED	01/31/73-08/22/73	2	3.	3.	4.	2.	2.	1.414	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: MNRR0028

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
01025 CADMIUM, DISSOLVED	Fresh Acute	3.9	4&	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
	Drinking Water	5.	4&	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	5	0	0.00				1	0	0.00	2	0	0.00	2	0	0.00
01040 COPPER, DISSOLVED	Fresh Acute	18.	5	0	0.00				1	0	0.00	2	0	0.00	2	0	0.00
	Drinking Water	1300.	5	0	0.00				1	0	0.00	2	0	0.00	2	0	0.00
01049 LEAD, DISSOLVED	Fresh Acute	82.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
	Drinking Water	15.	4	1	0.25				1	0	0.00	2	0	0.00	1	1	1.00
01057 THALLIUM, DISSOLVED	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
	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

EPA Water Quality Criteria Analysis for Station: MNRR0028

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
01090 ZINC, DISSOLVED	Fresh Acute	120.	5	0	0.00				1	0	0.00	2	0	0.00	2	0	0.00
	Drinking Water	5000.	5	0	0.00				1	0	0.00	2	0	0.00	2	0	0.00
22703 URANIUM, NATURAL DISSOLVED	Drinking Water	20.	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: MNRR0029

NPS Station ID: MNRR0029 LAT/LON: 42.866670/ -97.400004 Agency: 1110NET Date Created: / /
Location: MISSOURI RIVER AT YANKTON FIPS State/County: 46135 SOUTH DAKOTA/YANKTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 460032 /46091201 /032-
RMI-Indexes: 1021500 009490 Within Park Boundary: Yes
RMI-Miles: 1149.40 0040.00
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: LOWER MISSOURI BELOW NIOBRARA RIVER ECO Region:
RF1 Index: 10170101017 RF1 Mile Point: 0.820 Distance from RF1: 0.20 On/Off RF1: ON
RF3 Index: 10170203000405.60 RF3 Mile Point: 13.30 Distance from RF3: 0.12 On/Off RF3:
Description:

ACTIVATION DATE' OCTOBER 28, 1957. SAMPLED BY' YANKTON WATER DEPT. FIELD ANALYSIS BY' YANKTON WATER DEPT. OTHER COOPERATING AGENCIES' SO. DAKOTA STATE BOARD OF HEALTH. NEAREST PERTINENT GAGING STATION AT' YANKTON, SO. DAKOTA, OPERATED BY' U.S.G.S. DRAINAGE AREA AT GAGING STATION' 279,500 SQUARE MILES. PERIOD OF RECORD' 1930 TO PRESENT. REMARKS' FLOWS COMPLETELY REGULATED BY OPERATIONS OF GAVIN POINT DAM, 6 MILES UPSTREAM. MANY IRRIGATION DIVERSIONS ABOVE STATION. 4252000 09724000

Parameter Inventory for Station: MNRR0029

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/16/57-08/28/75	794	11.	11.69	26.8	0.	74.784	8.648	1.	3.	20.	23.85
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)		03/02/72-03/30/72	5	38.	37.2	39.	34.	4.7	2.168	**	**	**	**
00060	FLOW, STREAM, MEAN DAILY	CFS	12/16/57-09/30/68	542	24500.	21026.236	38100.	4700.	90427781.741	9509.352	7813.	10075.	29000.	31900.
00070	TURBIDITY, (JACKSON CANDLE UNITS)		12/16/57-08/17/70	577	20.	23.388	400.	0.	641.451	25.327	12.5	12.5	25.	40.
00075	TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)		10/07/68-08/28/75	204	20.	18.407	80.	0.	143.405	11.975	5.	10.	25.	30.
00080	COLOR (PLATINUM-COBALT UNITS)		02/24/58-08/28/75	724	20.	28.715	200.	0.	817.02	28.584	2.5	5.	40.	60.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		04/01/68-11/04/68	7	761.	767.143	820.	716.	1178.143	34.324	**	**	**	**
00300	OXYGEN, DISSOLVED	MG/L	12/16/57-08/28/75	755	10.8	11.023	19.2	5.7	6.043	2.458	8.	8.9	13.2	14.1
00310	BOD, 5 DAY, 20 DEG C	MG/L	12/23/57-08/28/75	763	1.2	1.47	15.	0.	1.024	1.012	0.6	0.9	1.8	2.66
00320	BOD, ULTIMATE 1ST STAGE, 20 DEG C	MG/L	10/07/68-12/30/68	13	0.8	1.362	8.	0.4	4.058	2.014	0.44	0.6	1.	5.4
00335	COD, .025N K2CR2O7	MG/L	03/03/58-08/06/62	23	13.2	16.022	36.6	5.	55.597	7.456	9.16	11.	20.8	28.16
00370	CHLORINE DEMAND, 1 HOUR (MG/L)		01/27/58-01/18/65	354	1.1	1.345	4.7	0.2	0.666	0.816	0.5	0.8	1.7	2.45
00380	CHLORINE DEMAND, 24 HOUR (MG/L)		01/27/58-01/18/65	353	3.3	3.385	7.	0.8	1.622	1.274	1.9	2.4	4.1	5.1
00400	PH (STANDARD UNITS)		12/16/57-08/28/75	789	8.3	8.24	8.6	7.6	0.024	0.154	8.	8.1	8.35	8.4
00400	CONVERTED PH (STANDARD UNITS)		12/16/57-08/28/75	789	8.3	8.211	8.6	7.6	0.025	0.157	8.	8.1	8.35	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/16/57-08/28/75	789	0.005	0.006	0.025	0.003	0.	0.003	0.004	0.004	0.008	0.01
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	794	158.	158.526	656.	92.	414.769	20.366	148.	154.	164.	170.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C).MG/L		01/08/62-12/07/64	32	479.	454.813	560.	270.	3837.835	61.95	359.3	426.5	492.75	507.7
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)		01/12/59-06/27/66	150	61.	67.207	396.	5.	3706.689	60.883	17.1	28.75	82.	103.7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		02/24/58-11/15/65	388	0.2	0.17	1.	0.02	0.005	0.07	0.1	0.1	0.2	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		12/07/64-09/03/68	38	0.2	0.202	0.6	0.05	0.016	0.125	0.05	0.1	0.3	0.31
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)		12/07/64-11/04/68	38	0.6	0.899	3.7	0.05	0.636	0.797	0.1	0.3	1.275	2.01
00636	NITROGEN, AMMONIA&ORG., DISS. 1 DET (MG/L AS N)		01/04/65-09/06/66	10	0.15	0.19	0.4	0.05	0.024	0.156	0.05	0.05	0.4	0.4
00650	PHOSPHATE, TOTAL (MG/L AS PO4)		10/07/68-10/27/69	3	0.	0.333	1.	0.	0.333	0.577	**	**	**	**
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)		03/27/61-09/30/68	375	0.	0.041	0.3	0.	0.003	0.053	0.	0.	0.1	0.1
00665	PHOSPHORUS, TOTAL (MG/L AS P)		12/07/64-11/04/68	36	0.02	0.044	0.47	0.005	0.006	0.079	0.005	0.013	0.04	0.106
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)		12/07/64-01/01/71	36##	0.005	0.013	0.11	0.005	0.001	0.022	0.005	0.005	0.01	0.03
00680	CARBON, TOTAL ORGANIC (MG/L AS C)		03/01/65-11/04/68	30	4.2	4.6	8.3	2.3	2.368	1.539	3.21	3.4	5.225	7.18
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)		04/05/65-11/04/68	24	3.3	3.333	6.2	1.	0.91	0.954	2.15	2.925	3.7	4.35

** - Less than 9 observations ## - 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: MNRR0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00900 HARDNESS, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	798	236.	235.52	292.	136.	357.168	18.899	212.	226.	246.	258.
00929 SODIUM, TOTAL (MG/L AS NA)		08/06/73-08/06/73	1	1205.	1205.	1205.	1205.	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)		04/01/63-07/01/70	14	68.5	66.714	78.	53.	53.297	7.3	53.	63.75	72.	75.5
00935 POTASSIUM, DISSOLVED (MG/L AS K)		04/01/63-07/01/70	14	6.3	6.414	9.1	4.5	1.649	1.284	4.65	5.725	6.925	8.85
00940 CHLORIDE,TOTAL IN WATER	MG/L	12/16/57-08/28/75	794	16.	16.605	29.	7.	17.402	4.172	12.	14.	20.	22.
00945 SULFATE, TOTAL (MG/L AS SO4)		01/08/62-11/12/68	38	200.	182.974	270.	0.	2427.432	49.269	110.	175.	206.25	215.5
00950 FLUORIDE, DISSOLVED (MG/L AS F)		04/01/63-10/01/68	12	0.505	0.516	0.8	0.38	0.011	0.107	0.392	0.45	0.55	0.728
01000 ARSENIC, DISSOLVED (UG/L AS AS)		10/01/62-10/01/71	19##	25.	27.132	50.	20.	67.162	8.195	20.5	25.	25.	50.
01005 BARIUM, DISSOLVED (UG/L AS BA)		10/01/62-10/01/71	19	45.	41.263	65.	15.	177.205	13.312	20.	38.	49.	53.
01010 BERYLLIUM, DISSOLVED (UG/L AS BE)		10/01/62-10/01/71	19##	0.065	0.078	0.12	0.01	0.001	0.032	0.05	0.06	0.12	0.12
01020 BORON, DISSOLVED (UG/L AS B)		10/01/62-10/01/71	19	168.	196.789	500.	98.	9600.731	97.983	98.	115.	235.	318.
01025 CADMIUM, DISSOLVED (UG/L AS CD)		10/01/62-10/01/71	19##	12.	10.895	25.	2.	20.377	4.514	5.5	10.	12.	12.5
01030 CHROMIUM, DISSOLVED (UG/L AS CR)		10/01/62-10/01/71	19##	6.	6.421	12.	1.	7.313	2.704	2.5	6.	7.	10.
01034 CHROMIUM, TOTAL (UG/L AS CR)		08/06/73-08/06/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01035 COBALT, DISSOLVED (UG/L AS CO)		10/01/62-10/01/71	19##	12.	10.211	12.5	3.	9.064	3.011	4.	10.	12.	12.5
01040 COPPER, DISSOLVED (UG/L AS CU)		10/01/62-10/01/71	19	8.	23.684	133.	4.	983.45	31.36	5.	6.	36.	58.
01042 COPPER, TOTAL (UG/L AS CU)		08/06/73-08/06/73	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)		10/01/62-08/06/73	20##	12.	24.8	180.	6.	1531.616	39.136	6.	6.	22.25	58.7
01049 LEAD, DISSOLVED (UG/L AS PB)		10/01/62-10/01/71	19##	24.	25.342	95.	7.	325.501	18.042	10.	20.	25.	30.
01051 LEAD, TOTAL (UG/L AS PB)		08/06/73-08/06/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)		10/01/62-08/06/73	20##	5.95	10.645	59.	1.5	203.174	14.254	1.69	3.775	9.	36.5
01060 MOLYBDENUM, DISSOLVED (UG/L AS MO)		10/01/62-10/01/71	19##	24.	62.184	275.	7.	5273.7	72.62	12.5	24.	76.	220.
01065 NICKEL, DISSOLVED (UG/L AS NI)		10/01/62-10/01/71	19##	12.	10.053	12.5	1.	11.608	3.407	3.	10.	12.	12.5
01070 PHOSPHORUS, TOTAL, SPECTROGRAPH METH (UG/L AS P)		10/01/62-07/01/71	17##	59.5	57.529	175.	10.	1367.14	36.975	12.	47.	60.	111.8
01075 SILVER, DISSOLVED (UG/L AS AG)		10/01/62-10/01/71	19##	1.2	1.139	1.5	0.7	0.031	0.176	0.8	1.	1.2	1.25
01080 STRONTIUM, DISSOLVED (UG/L AS SR)		10/01/62-07/01/71	18	327.	345.556	536.	170.	9496.732	97.451	233.	291.25	398.75	535.1
01085 VANADIUM, DISSOLVED (UG/L AS V)		10/01/62-10/01/71	19##	24.	19.447	25.	2.	48.747	6.982	10.	12.5	24.	25.
01090 ZINC, DISSOLVED (UG/L AS ZN)		10/01/62-10/01/71	19##	12.	17.605	48.	6.5	133.766	11.566	10.	12.	20.	43.
01092 ZINC, TOTAL (UG/L AS ZN)		08/06/73-08/06/73	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)		04/01/63-08/06/73	19##	24.	19.921	31.5	5.	62.424	7.901	5.5	20.	24.	25.
01145 SELENIUM, DISSOLVED (UG/L AS SE)		04/01/63-04/01/63	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
01501 ALPHA, TOTAL		11/04/57-01/01/71	112	4.	4.429	36.	0.	15.31	3.913	1.	3.	5.	7.
01502 ALPHA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	88	2.	1.852	7.	0.	3.461	1.86	0.	0.	3.	4.
01503 ALPHA, DISSOLVED		11/04/57-01/01/71	112	4.	4.	36.	0.	14.306	3.782	1.	2.	5.	6.
01504 ALPHA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	88	2.	1.773	7.	0.	3.051	1.747	0.	0.	3.	4.
01505 ALPHA, SUSPENDED		11/04/57-01/01/71	112	0.	0.429	6.	0.	1.076	1.037	0.	0.	0.75	1.
01506 ALPHA, SUSPENDED, COUNTING ERROR		11/04/57-01/01/71	88	0.	0.477	5.	0.	0.735	0.857	0.	0.	1.	1.
03501 BETA, TOTAL		11/04/57-01/01/71	221	28.	32.204	171.	0.	701.045	26.477	3.	14.5	45.	60.6
03502 BETA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	176	10.	12.068	40.	0.	47.047	6.859	3.	10.	18.75	20.
03503 BETA, DISSOLVED		11/04/57-01/01/71	221	23.	25.946	110.	0.	396.933	19.923	1.	12.	35.	50.
03504 BETA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	176	10.	10.426	30.	0.	29.435	5.425	3.	9.	14.	18.
03505 BETA, SUSPENDED		11/04/57-01/01/71	221	2.	6.258	117.	0.	147.51	12.145	0.	0.	7.	14.8
03506 BETA, SUSPENDED, COUNTING ERROR		11/04/57-01/01/71	176	10.	7.83	20.	0.	22.199	4.712	0.	3.25	10.	12.
13501 STRONTIUM 90, TOTAL		01/01/59-10/01/64	17	2.2	1.9	4.3	0.4	1.449	1.204	0.48	0.75	2.9	3.5
13502 STRONTIUM 90, TOTAL, COUNTING ERROR		10/01/64-10/01/64	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
31501 COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,35C		08/06/71-12/26/74	69	15.	6146.812	45800.	0.	116566089.846	10796.578	0.5	1.	10500.	20300.
31501 LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,		08/06/71-12/26/74	69	1.176	1.717	4.661	-0.301	3.424	1.85	-0.301	0.	4.02	4.307
31501 GM COLIFORM,TOT,MEMBRANE FILTER,IMMED.M-ENDO MED,3			GEOMETRIC MEAN =		52.167								
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C		01/27/58-06/23/69	418	31.5	161.878	14000.	0.5	625987.254	791.194	3.5	8.	80.	232.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3		01/27/58-06/23/69	418	1.498	1.45	4.146	-0.301	0.569	0.754	0.544	0.903	1.903	2.365
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35			GEOMETRIC MEAN =		28.215								
31615 FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)		04/12/73-05/31/73	7	12.	11.143	30.	1.	99.143	9.957	**	**	**	**
31615 LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)		04/12/73-05/31/73	7	1.079	0.847	1.477	0.	0.257	0.507	**	**	**	**
31615 GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)			GEOMETRIC MEAN =		7.023								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		09/02/69-08/28/75	143	6.	14.587	190.	0.	566.688	23.805	1.	1.	19.	38.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		09/02/69-08/28/75	143	0.778	0.737	2.279	-0.301	0.411	0.641	0.	0.	1.279	1.58
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =		5.452								
32000 SAMPLE SIZE (LITERS)		10/03/66-07/01/68	22	13324.5	13030.636	18925.	5000.	17333551.576	4163.358	7570.	9808.25	16739.25	18641.2
32001 SAMPLE SIZE (GALLONS)		10/28/57-05/14/70	149	4070.	4153.295	13520.	1000.	4121971.777	2030.264	2110.	3165.	4905.	5000.
32002 SAMPLE SIZE (MILLILITERS)		08/05/68-05/14/70	17	17820.	15507.882	18920.	4466.	19267862.735	4389.517	8251.6	12070.	18920.	18920.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL		10/28/57-05/14/70	150	147.	162.78	509.	68.	3907.502	62.51	99.2	125.	186.5	246.8
32004 CARBON ALCOHOL EXTRACTABLES		10/28/57-05/14/70	150	111.5	123.593	445.	51.	2694.659	51.91	75.1	89.	143.25	203.2
32005 CARBON CHLOROFORM EXTRACTABLES		10/28/57-05/14/70	150	34.	39.313	112.	12.	333.881	18.272	21.	26.	48.25	62.8

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

Parameter Inventory for Station: MNRR0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
32021	CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF	10/28/57-11/06/67	52	1.	1.538	9.	0.	2.214	1.488	0.	1.	2.	3.
32022	CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF	10/28/57-11/06/67	52	10.	11.	31.	3.	26.431	5.141	6.	8.	13.	17.
32023	ACIDS, STRONG	10/28/57-11/06/67	52	2.	2.654	8.	1.	2.741	1.655	1.	1.	4.	5.
32024	ACIDS, WEAK	10/28/57-11/06/67	52	3.	4.038	14.	2.	5.214	2.283	2.	2.25	5.	7.7
32025	BASES	10/28/57-11/06/67	52	1.	1.077	3.	0.	0.19	0.436	1.	1.	1.	1.7
32026	NEUTRALS, TOTAL	10/28/57-11/06/67	52	10.	10.865	30.	5.	17.648	4.201	7.	8.	12.	16.
32027	ALIPHATICS FRACTION OF NEUTRALS	10/28/57-11/06/67	52	1.	1.058	3.	0.	0.369	0.608	0.	1.	1.	2.
32028	AROMATICS FRACTION OF NEUTRALS	10/28/57-11/06/67	52	1.	0.904	2.	0.	0.167	0.409	0.	1.	1.	1.
32029	OXYGENATED COMPOUNDS FRACTION OF NEUTRALS	10/28/57-11/06/67	52	8.	8.25	25.	2.	12.819	3.58	5.	6.	9.	12.7
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	09/03/63-06/03/68	64	0.03	0.03	0.08	0.01	0.	0.016	0.01	0.02	0.04	0.05
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	09/23/64-09/29/67	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	09/13/66-09/13/66	1	0.	0.	0.	0.	0.	0.	**	**	**	**
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	4	0.	0.001	0.004	0.	0.	0.002	**	**	**	**
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	4	0.	0.006	0.024	0.	0.	0.012	**	**	**	**
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	4	0.	0.002	0.009	0.	0.	0.005	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	4	0.	0.	0.	0.	0.	0.	**	**	**	**
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	09/23/64-09/29/67	3	0.	0.	0.	0.	0.	0.	**	**	**	**
60050	ALGAE, TOTAL (CELLS/ML)	10/02/61-11/01/67	101	2200.	4530.693	43000.	0.	50746348.515	7123.647	500.	900.	5500.	9580.
60100	ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/01/67	101	0.	18.02	1280.	0.	16394.04	128.039	0.	0.	0.	20.
60150	ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/01/67	101	0.	16.238	250.	0.	1939.703	44.042	0.	0.	0.	56.
60200	ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/01/67	101	130.	229.802	1300.	0.	73993.96	272.018	0.	45.	305.	620.
60250	ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/01/67	101	0.	0.594	40.	0.	19.644	4.432	0.	0.	0.	0.
60300	ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-11/01/67	101	150.	451.782	6530.	0.	981750.792	990.833	0.	40.	315.	1140.
60350	ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-11/01/67	101	20.	499.208	16630.	0.	5710431.366	2389.651	0.	0.	70.	258.
60390	DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	10/02/61-06/05/67	85	48.	52.518	99.	3.	568.443	23.842	23.	34.	71.5	91.4
60391	DIATOMS,PERCENT OF TOTAL,SECOND DOMINANT SPECIES	10/03/66-06/05/67	4	23.	20.75	36.	1.	213.583	14.614	**	**	**	**
60392	DIATOMS,PERCENT OF TOTAL,THIRD DOMINANT SPECIES	10/03/66-05/01/67	3	10.	9.	14.	3.	31.	5.568	**	**	**	**
60393	DIATOMS,PERCENT OF TOTAL,FOURTH DOMINANT SPECIES	10/03/66-05/01/67	3	5.	5.	7.	3.	4.	2.	**	**	**	**
60394	DIATOMS,PERCENT OF TOTAL,ALL OTHER SPECIES	10/03/66-06/05/67	4	11.	10.75	19.	2.	48.917	6.994	**	**	**	**
60400	DIATOMS, CENTRIC (/ML)	10/02/61-11/01/67	101	700.	1725.545	22870.	0.	9281710.95	3046.59	102.	215.	1655.	4826.
60600	DIATOMS, PENNATE (/ML)	10/02/61-11/01/67	101	330.	1583.069	13800.	0.	8728345.485	2954.377	40.	110.	985.	5338.
60610	DIATOM, INERT SHELLS - CENTRIC (/ML)	10/03/66-11/01/67	9	20.	24.444	70.	0.	852.778	29.202	0.	0.	55.	70.
60620	DIATOM, INERT SHELLS - PENNATE (/ML)	10/03/66-11/01/67	9	0.	30.	160.	0.	2900.	53.852	0.	0.	45.	160.
60820	PROTOZOA, TOTAL (/ML)	10/02/61-09/17/62	22	0.	5.909	50.	0.	139.61	11.816	0.	0.	10.	20.
60850	ROTIFERS, TOTAL (/LITER)	10/02/61-06/07/65	62	21.	168.	2880.	0.	166176.23	407.647	0.	1.75	161.25	429.2
60900	CRUSTACEA, TOTAL (/LITER)	10/02/61-06/07/65	62	9.5	46.032	603.	0.	9768.261	98.835	0.	1.	40.5	131.7
60950	NEMATODES, TOTAL (/LITER)	10/02/61-06/07/65	61	0.	2.164	60.	0.	74.506	8.632	0.	0.	0.	4.4
60990	ZOOPLANKTON OTHER (/LITER)	10/02/61-06/07/65	61	0.	0.033	2.	0.	0.066	0.256	0.	0.	0.	0.
71000	COUNT LEVEL OF MOST ABNDNT ALGAE1ST DOMINANT /ML	10/03/66-06/05/67	4	675.	1293.75	3600.	225.	2442656.25	1562.9	**	**	**	**
71010	GENUS OF MOST ABUNDANT ALGAE 1ST DOMINANT /ML	10/03/66-06/05/67	4	74.	65.75	77.	38.	350.25	18.715	**	**	**	**
80114	COLOR, CONCENTRATION AT WAVE LENGTH IN MG/L	03/02/72-03/30/72	5	110.	106.	160.	50.	1630.	40.373	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: MNRR0029

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00070	TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	577	34	0.06	81	2	0.02	90	5	0.06	211	17	0.08	195	10	0.05
00300	OXYGEN, DISSOLVED	Other-Lo Lim.	4.	755	0	0.00	106	0	0.00	119	0	0.00	263	0	0.00	267	0	0.00
00400	PH	Fresh Chronic	9.	789	0	0.00	114	0	0.00	125	0	0.00	274	0	0.00	276	0	0.00
		Other-Lo Lim.	6.5	789	0	0.00	114	0	0.00	125	0	0.00	274	0	0.00	276	0	0.00
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	38	0	0.00	7	0	0.00	6	0	0.00	13	0	0.00	12	0	0.00
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	794	0	0.00	114	0	0.00	126	0	0.00	277	0	0.00	277	0	0.00
		Drinking Water	250.	794	0	0.00	114	0	0.00	126	0	0.00	277	0	0.00	277	0	0.00
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	250.	38	1	0.03	3	1	0.33	9	0	0.00	17	0	0.00	9	0	0.00
00950	FLUORIDE, DISSOLVED AS F	Drinking Water	4.	12	0	0.00	4	0	0.00				6	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: MNRR0029

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	19	0	0.00	6	0	0.00				9	0	0.00	4	0	0.00
	Drinking Water	50.	17&	0	0.00	6	0	0.00				7	0	0.00	4	0	0.00
01005 BARIUM, DISSOLVED	Drinking Water	2000.	19	0	0.00	6	0	0.00				9	0	0.00	4	0	0.00
01010 BERYLLIUM, DISSOLVED	Fresh Acute	130.	19	0	0.00	6	0	0.00				9	0	0.00	4	0	0.00
	Drinking Water	4.	19	0	0.00	6	0	0.00				9	0	0.00	4	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.	19	0	0.00	6	0	0.00				9	0	0.00	4	0	0.00
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00										1	0	0.00
01040 COPPER, DISSOLVED	Fresh Acute	18.	19	7	0.37	6	4	0.67				9	1	0.11	4	2	0.50
	Drinking Water	1300.	19	0	0.00	6	0	0.00				9	0	0.00	4	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00										1	0	0.00
	Drinking Water	1300.	1	0	0.00										1	0	0.00
01049 LEAD, DISSOLVED	Fresh Acute	82.	19	1	0.05	6	0	0.00				9	0	0.00	4	1	0.25
	Drinking Water	15.	5&	1	0.20	1	0	0.00				2	0	0.00	2	1	0.50
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00										1	0	0.00
	Drinking Water	15.	1	0	0.00										1	0	0.00
01065 NICKEL, DISSOLVED	Fresh Acute	1400.	19	0	0.00	6	0	0.00				9	0	0.00	4	0	0.00
	Drinking Water	100.	19	0	0.00	6	0	0.00				9	0	0.00	4	0	0.00
01075 SILVER, DISSOLVED	Fresh Acute	4.1	19	0	0.00	6	0	0.00				9	0	0.00	4	0	0.00
	Drinking Water	100.	19	0	0.00	6	0	0.00				9	0	0.00	4	0	0.00
01090 ZINC, DISSOLVED	Fresh Acute	120.	19	0	0.00	6	0	0.00				9	0	0.00	4	0	0.00
	Drinking Water	5000.	19	0	0.00	6	0	0.00				9	0	0.00	4	0	0.00
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00										1	0	0.00
	Drinking Water	5000.	1	0	0.00										1	0	0.00
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	1	0	0.00							1	0	0.00			
	Drinking Water	50.	1	0	0.00							1	0	0.00			
13501 STRONTIUM 90, TOTAL	Drinking Water	8.	17	0	0.00	3	0	0.00				9	0	0.00	5	0	0.00
31501 COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	69	23	0.33	12	0	0.00	5	0	0.00	13	0	0.00	39	23	0.59
31503 COLIFORM,TOT,MEMBRANE FILTR,DELAY. M-END	Other-Hi Lim.	1000.	418	15	0.04	51	1	0.02	71	1	0.01	144	4	0.03	152	9	0.06
31615 FECAL COLIFORM, MPN	Other-Hi Lim.	200.	7	0	0.00							7	0	0.00			
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	143	0	0.00	22	0	0.00	19	0	0.00	48	0	0.00	54	0	0.00
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXT	Fresh Acute	28900.	150	0	0.00	23	0	0.00	27	0	0.00	49	0	0.00	51	0	0.00
	Drinking Water	100.	150	135	0.90	23	22	0.96	27	26	0.96	49	47	0.96	51	40	0.78
32005 CARBON CHLOROFORM EXTRACTABLES	Fresh Acute	28900.	150	0	0.00	23	0	0.00	27	0	0.00	49	0	0.00	51	0	0.00
	Drinking Water	100.	150	3	0.02	23	0	0.00	27	0	0.00	49	3	0.06	51	0	0.00
32021 CARBON CHLOROFORM EXTRACTS, ETHER INSOLU	Fresh Acute	28900.	52	0	0.00	9	0	0.00	10	0	0.00	14	0	0.00	19	0	0.00
	Drinking Water	100.	52	0	0.00	9	0	0.00	10	0	0.00	14	0	0.00	19	0	0.00
32022 CARBON CHLOROFORM EXTRACTS, WATER SOLUBL	Fresh Acute	28900.	52	0	0.00	9	0	0.00	10	0	0.00	14	0	0.00	19	0	0.00
	Drinking Water	100.	52	0	0.00	9	0	0.00	10	0	0.00	14	0	0.00	19	0	0.00
39330 ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	4	0	0.00										4	0	0.00
39340 GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	4	0	0.00										4	0	0.00
	Drinking Water	0.2	4	0	0.00										4	0	0.00
39350 CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	1	0	0.00										1	0	0.00
	Drinking Water	2.	1	0	0.00										1	0	0.00
39360 DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	4	0	0.00										4	0	0.00
39365 DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	4	0	0.00										4	0	0.00
39370 DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	4	0	0.00										4	0	0.00
39380 DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	4	0	0.00										4	0	0.00
39390 ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	4	0	0.00										4	0	0.00
	Drinking Water	2.	4	0	0.00										4	0	0.00
39410 HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	4	0	0.00										4	0	0.00
	Drinking Water	0.4	4	0	0.00										3	0	0.00
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	3	0	0.00										3	0	0.00
	Drinking Water	0.2	3	0	0.00												

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

Annual Analysis for 1957 - Station MNRR0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/16/57-08/28/75	3	2.5	2.5	3.	2.	0.25	0.5	**	**	**	**
00060 FLOW, STREAM, MEAN DAILY	CFS	12/16/57-09/30/68	3	8080.	8200.	8520.	8000.	78400.	280.	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)		12/16/57-08/17/70	3	25.	25.	25.	25.	0.	0.	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	12/16/57-08/28/75	3	11.	10.333	11.2	8.8	1.773	1.332	**	**	**	**
00310p BOD, 5 DAY, 20 DEG C	MG/L	12/23/57-08/28/75	2	2.8	2.8	3.7	1.9	1.62	1.273	**	**	**	**
00400p PH (STANDARD UNITS)		12/16/57-08/28/75	3	7.9	7.967	8.1	7.9	0.013	0.115	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)		12/16/57-08/28/75	3	7.9	7.957	8.1	7.9	0.013	0.116	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/16/57-08/28/75	3	0.013	0.011	0.013	0.008	0.	0.003	**	**	**	**
00410p ALKALINITY, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	3	144.	146.667	156.	140.	69.333	8.327	**	**	**	**
00900p HARDNESS, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	3	224.	233.333	260.	216.	549.333	23.438	**	**	**	**
00940p CHLORIDE,TOTAL IN WATER	MG/L	12/16/57-08/28/75	3	11.	11.	13.	9.	4.	2.	**	**	**	**
01501 ALPHA, TOTAL		11/04/57-01/01/71	9	4.	3.333	5.	0.	4.	2.	0.	1.5	5.	5.
01502 ALPHA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01503 ALPHA, DISSOLVED		11/04/57-01/01/71	9	4.	3.222	5.	0.	3.694	1.922	0.	1.5	4.5	5.
01504 ALPHA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01505 ALPHA, SUSPENDED		11/04/57-01/01/71	9	0.	0.111	1.	0.	0.111	0.333	0.	0.	0.	1.
01506 ALPHA, SUSPENDED, COUNTING ERROR		11/04/57-01/01/71	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
03501 BETA, TOTAL		11/04/57-01/01/71	9	29.	31.111	58.	10.	267.611	16.359	10.	18.5	45.5	58.
03502 BETA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	9	10.	10.	10.	10.	0.	0.	10.	10.	10.	10.
03503 BETA, DISSOLVED		11/04/57-01/01/71	9	25.	27.778	54.	10.	168.944	12.998	10.	18.5	35.	54.
03504 BETA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	9	10.	10.	10.	10.	0.	0.	10.	10.	10.	10.
03505 BETA, SUSPENDED		11/04/57-01/01/71	9	0.	3.333	21.	0.	46.75	6.837	0.	0.	4.	21.
03506 BETA, SUSPENDED, COUNTING ERROR		11/04/57-01/01/71	9	10.	10.	10.	10.	0.	0.	10.	10.	10.	10.
32001 SAMPLE SIZE (GALLONS)		10/28/57-05/14/70	3	4730.	4746.667	5030.	4480.	75833.333	275.379	**	**	**	**
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL		10/28/57-05/14/70	3	152.	144.333	184.	97.	1936.333	44.004	**	**	**	**
32004 CARBON ALCOHOL EXTRACTABLES		10/28/57-05/14/70	3	118.	118.333	160.	77.	1722.333	41.501	**	**	**	**
32005 CARBON CHLOROFORM EXTRACTABLES		10/28/57-05/14/70	3	24.	26.	34.	20.	52.	7.211	**	**	**	**

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

Annual Analysis for 1958 - Station MNRR0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/16/57-08/28/75	51	12.5	12.578	26.	1.	73.585	8.578	2.5	3.	20.5	24.
00060 FLOW, STREAM, MEAN DAILY	CFS	12/16/57-09/30/68	51	25000.	20191.961	31000.	7550.	87268364.078	9341.754	8008.	9030.	28400.	30040.
00070 TURBIDITY, (JACKSON CANDLE UNITS)		12/16/57-08/17/70	51	25.	29.51	50.	20.	62.255	7.89	21.	25.	30.	40.
00080p COLOR (PLATINUM-COBALT UNITS)		02/24/58-08/28/75	44	50.	45.341	80.	20.	164.416	12.822	27.5	40.	50.	60.
00300p OXYGEN, DISSOLVED	MG/L	12/16/57-08/28/75	51	9.7	10.312	13.9	7.2	4.294	2.072	7.94	8.5	12.3	13.4
00310p BOD, 5 DAY, 20 DEG C	MG/L	12/23/57-08/28/75	43	1.5	1.612	4.4	0.6	0.553	0.744	0.84	1.1	1.8	2.76
00370 CHLORINE DEMAND, 1 HOUR (MG/L)		01/27/58-01/18/65	48	1.1	1.215	2.5	0.4	0.183	0.428	0.7	0.9	1.6	1.8
00380 CHLORINE DEMAND, 24 HOUR (MG/L)		01/27/58-01/18/65	48	2.4	2.479	5.6	1.	1.198	1.095	1.	1.525	3.1	4.01
00400p PH (STANDARD UNITS)		12/16/57-08/28/75	51	8.2	8.194	8.5	7.8	0.03	0.173	7.92	8.1	8.3	8.4
00400p CONVERTED PH (STANDARD UNITS)		12/16/57-08/28/75	51	8.2	8.159	8.5	7.8	0.031	0.176	7.92	8.1	8.3	8.4
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/16/57-08/28/75	51	0.006	0.007	0.016	0.003	0.	0.003	0.004	0.005	0.008	0.012
00410p ALKALINITY, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	51	148.	148.275	170.	128.	87.843	9.372	136.4	140.	156.	159.6
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		02/24/58-11/15/65	44	0.16	0.175	0.35	0.02	0.003	0.054	0.135	0.15	0.2	0.235
00900p HARDNESS, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	51	224.	225.49	260.	184.	330.215	18.172	204.8	212.	240.	252.
00940p CHLORIDE,TOTAL IN WATER	MG/L	12/16/57-08/28/75	51	12.	12.314	15.	8.	3.06	1.749	10.	11.	14.	15.
01501 ALPHA, TOTAL		11/04/57-01/01/71	20	3.	3.2	7.	0.	4.274	2.067	0.1	1.25	5.	6.
01502 ALPHA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	20	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01503 ALPHA, DISSOLVED		11/04/57-01/01/71	20	3.	3.	6.	0.	3.579	1.892	0.1	1.25	4.75	5.9
01504 ALPHA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	20	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01505 ALPHA, SUSPENDED		11/04/57-01/01/71	20	0.	0.2	1.	0.	0.168	0.41	0.	0.	0.	1.
01506 ALPHA, SUSPENDED, COUNTING ERROR		11/04/57-01/01/71	20	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
03501 BETA, TOTAL		11/04/57-01/01/71	51	27.	33.275	98.	6.	374.883	19.362	11.4	19.	46.	56.
03502 BETA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	51	10.	10.	10.	10.	0.	0.	10.	10.	10.	10.
03503 BETA, DISSOLVED		11/04/57-01/01/71	51	24.	27.902	93.	0.	324.65	18.018	6.4	17.	40.	49.

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

Annual Analysis for 1958 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
03504 BETA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	51	10.	9.804	10.	0.	1.961	1.4	10.	10.	10.	10.
03505 BETA, SUSPENDED	11/04/57-01/01/71	51	3.	5.373	46.	0.	60.518	7.779	0.	0.	6.	13.8
03506 BETA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	51	10.	8.039	10.	0.	16.078	4.01	0.	10.	10.	10.
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	01/27/58-06/23/69	33	10.	154.985	2200.	4.5	184110.179	429.081	4.7	7.	90.	406.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	01/27/58-06/23/69	33	1.	1.396	3.342	0.653	0.555	0.745	0.672	0.827	1.952	2.608
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =		24.868									
32001 SAMPLE SIZE (GALLONS)	10/28/57-05/14/70	14	4790.	4287.857	5320.	1800.	1020187.363	1010.043	2480.	3470.	5000.	5165.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	10/28/57-05/14/70	14	147.	156.	291.	78.	2642.923	51.409	94.	123.5	175.5	253.
32004 CARBON ALCOHOL EXTRACTABLES	10/28/57-05/14/70	14	116.5	114.643	210.	52.	1463.016	38.249	64.	89.	128.5	183.
32005 CARBON CHLOROFORM EXTRACTABLES	10/28/57-05/14/70	14	34.5	41.357	81.	26.	279.786	16.727	27.5	31.5	48.5	77.

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

Annual Analysis for 1959 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/57-08/28/75	52	9.8	11.642	26.8	0.4	84.662	9.201	1.	2.425	21.5	25.35
00060 FLOW, STREAM, MEAN DAILY CFS	12/16/57-09/30/68	52	24000.	20031.538	32700.	8180.	79403181.9	8910.846	8478.	10125.	27875.	30740.
00070 TURBIDITY, (JACKSON CANDLE UNITS)	12/16/57-08/17/70	51	25.	25.196	50.	20.	36.961	6.08	20.	20.	25.	30.
00080p COLOR (PLATINUM-COBALT UNITS)	02/24/58-08/28/75	51	30.	33.725	50.	20.	99.843	9.992	20.	30.	40.	50.
00300p OXYGEN, DISSOLVED MG/L	12/16/57-08/28/75	52	10.75	10.854	14.7	6.7	7.42	2.724	7.36	7.8	13.65	14.37
00310p BOD, 5 DAY, 20 DEG C MG/L	12/23/57-08/28/75	40	1.55	1.798	3.5	0.5	1.037	1.018	0.61	0.925	2.75	3.38
00370 CHLORINE DEMAND, 1 HOUR (MG/L)	01/27/58-01/18/65	52	1.25	1.283	2.	0.3	0.23	0.479	0.6	0.925	1.6	2.
00380 CHLORINE DEMAND, 24 HOUR (MG/L)	01/27/58-01/18/65	52	3.2	3.24	5.8	0.9	1.247	1.117	2.	2.4	3.975	4.71
00400p PH (STANDARD UNITS)	12/16/57-08/28/75	52	8.2	8.231	8.5	7.9	0.03	0.172	8.	8.1	8.4	8.5
00400p CONVERTED PH (STANDARD UNITS)	12/16/57-08/28/75	52	8.2	8.198	8.5	7.9	0.031	0.175	8.	8.1	8.4	8.5
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/16/57-08/28/75	52	0.006	0.006	0.013	0.003	0.	0.002	0.003	0.004	0.008	0.01
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	52	164.	162.885	180.	138.	73.006	8.544	150.	158.5	168.	174.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/12/59-06/27/66	43	32.	38.326	79.	5.	476.749	21.835	14.	22.	61.	75.2
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/24/58-11/15/65	52	0.175	0.175	0.2	0.1	0.001	0.027	0.15	0.15	0.2	0.2
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	52	224.	221.962	260.	176.	335.763	18.324	202.4	212.	232.	250.8
00940p CHLORIDE,TOTAL IN WATER MG/L	12/16/57-08/28/75	52	9.	11.442	24.	7.	23.546	4.852	7.	8.	14.	20.
01501 ALPHA, TOTAL	11/04/57-01/01/71	9	3.	7.333	36.	1.	120.	10.954	1.	2.5	7.	36.
01502 ALPHA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	7	0.	0.	0.	0.	0.	0.	**	**	**	**
01503 ALPHA, DISSOLVED	11/04/57-01/01/71	9	3.	7.222	36.	1.	120.444	10.975	1.	2.5	6.5	36.
01504 ALPHA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	7	0.	0.	0.	0.	0.	0.	**	**	**	**
01505 ALPHA, SUSPENDED	11/04/57-01/01/71	9	0.	0.111	1.	0.	0.111	0.333	0.	0.	0.	1.
01506 ALPHA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	7	0.	0.	0.	0.	0.	0.	**	**	**	**
03501 BETA, TOTAL	11/04/57-01/01/71	44	20.5	31.068	150.	0.	1144.112	33.825	1.	8.75	46.75	75.5
03502 BETA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	31	10.	11.29	40.	0.	118.28	10.876	0.	0.	20.	20.
03503 BETA, DISSOLVED	11/04/57-01/01/71	44	18.	27.045	110.	0.	783.161	27.985	1.	8.	34.75	74.5
03504 BETA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	31	10.	9.677	30.	0.	83.226	9.123	0.	0.	20.	20.
03505 BETA, SUSPENDED	11/04/57-01/01/71	44	0.	4.023	51.	0.	75.744	8.703	0.	0.	4.75	13.
03506 BETA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	31	10.	6.774	20.	0.	35.914	5.993	0.	0.	10.	10.
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	01/27/58-06/23/69	39	10.	32.679	380.	0.5	4138.73	64.333	2.	5.	34.	82.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	01/27/58-06/23/69	39	1.	1.096	2.58	-0.301	0.364	0.604	0.301	0.699	1.531	1.914
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =		12.48									
32001 SAMPLE SIZE (GALLONS)	10/28/57-05/14/70	10	3890.	3921.	5230.	2580.	622476.667	788.972	2652.	3367.5	4450.	5200.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	10/28/57-05/14/70	10	169.5	183.7	290.	139.	2518.678	50.186	139.1	147.5	207.	286.5
32004 CARBON ALCOHOL EXTRACTABLES	10/28/57-05/14/70	10	134.	145.9	232.	99.	1985.656	44.561	99.9	108.	174.	229.8
32005 CARBON CHLOROFORM EXTRACTABLES	10/28/57-05/14/70	10	32.	37.8	58.	23.	161.733	12.717	23.3	28.25	48.25	58.

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

Annual Analysis for 1960 - Station MNRR0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/16/57-08/28/75	50	12.	11.922	25.5	0.1	91.85	9.584	0.11	0.8	21.925	24.
00060 FLOW, STREAM, MEAN DAILY	CFS	12/16/57-09/30/68	51	20200.	18930.588	30400.	7820.	65923733.647	8119.343	8510.	9560.	27100.	28180.
00070 TURBIDITY, (JACKSON CANDLE UNITS)		12/16/57-08/17/70	50	30.	46.1	400.	10.	3875.806	62.256	10.	25.	36.25	116.
00080p COLOR (PLATINUM-COBALT UNITS)		02/24/58-08/28/75	50	30.	45.	140.	10.	1012.245	31.816	20.	30.	50.	100.
00300p OXYGEN, DISSOLVED	MG/L	12/16/57-08/28/75	50	10.45	10.83	15.5	7.	4.809	2.193	7.81	9.075	13.025	13.5
00310p BOD, 5 DAY, 20 DEG C	MG/L	12/23/57-08/28/75	50	1.4	1.442	3.	0.2	0.518	0.719	0.61	0.875	1.8	2.6
00370 CHLORINE DEMAND, 1 HOUR (MG/L)		01/27/58-01/18/65	50	2.7	2.656	4.7	0.9	0.863	0.929	1.6	1.975	3.325	4.08
00380 CHLORINE DEMAND, 24 HOUR (MG/L)		01/27/58-01/18/65	50	4.8	4.75	7.	2.4	1.513	1.23	3.01	3.775	5.8	6.47
00400p PH (STANDARD UNITS)		12/16/57-08/28/75	50	8.2	8.206	8.5	7.7	0.021	0.146	8.	8.1	8.3	8.4
00400p CONVERTED PH (STANDARD UNITS)		12/16/57-08/28/75	50	8.2	8.179	8.5	7.7	0.022	0.149	8.	8.1	8.3	8.4
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/16/57-08/28/75	50	0.006	0.007	0.02	0.003	0.	0.003	0.004	0.005	0.008	0.01
00410p ALKALINITY, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	50	156.	152.76	174.	92.	302.839	17.402	136.	148.	164.	170.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		01/12/59-06/27/66	21	41.	78.143	396.	16.	9195.329	95.892	18.	21.5	94.	260.2
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		02/24/58-11/15/65	50	0.15	0.16	0.3	0.1	0.004	0.067	0.1	0.1	0.2	0.29
00900p HARDNESS, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	50	216.	213.08	264.	136.	583.871	24.163	192.2	204.	224.	243.6
00940p CHLORIDE,TOTAL IN WATER	MG/L	12/16/57-08/28/75	50	17.	16.58	22.	8.	12.698	3.563	12.	13.75	20.	21.8
01501 ALPHA, TOTAL		11/04/57-01/01/71	13	4.	4.923	13.	0.	13.41	3.662	0.4	1.5	7.	11.4
01503 ALPHA, DISSOLVED		11/04/57-01/01/71	13	3.	4.	13.	0.	11.333	3.367	0.4	1.5	5.5	10.6
01505 ALPHA, SUSPENDED		11/04/57-01/01/71	13	0.	0.923	6.	0.	3.077	1.754	0.	0.	1.	4.8
03501 BETA, TOTAL		11/04/57-01/01/71	21	4.	4.571	16.	0.	20.757	4.556	0.	0.	7.	11.
03503 BETA, DISSOLVED		11/04/57-01/01/71	21	2.	3.714	16.	0.	21.114	4.595	0.	0.	6.5	11.
03505 BETA, SUSPENDED		11/04/57-01/01/71	21	0.	0.857	9.	0.	5.829	2.414	0.	0.	0.	5.8
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C		01/27/58-06/23/69	44	14.5	72.852	1800.	1.	74376.914	272.721	2.	5.25	35.75	101.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3		01/27/58-06/23/69	44	1.161	1.178	3.255	0.	0.45	0.671	0.239	0.719	1.552	2.004
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35		GEOMETRIC MEAN =		15.073									
32001 SAMPLE SIZE (GALLONS)		10/28/57-05/14/70	9	3310.	3312.222	5240.	1890.	1169019.444	1081.212	1890.	2350.	4115.	5240.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL		10/28/57-05/14/70	9	174.	190.556	268.	140.	1975.028	44.441	140.	156.	230.5	268.
32004 CARBON ALCOHOL EXTRACTABLES		10/28/57-05/14/70	9	141.	151.333	218.	89.	1779.	42.178	89.	124.	190.5	218.
32005 CARBON CHLOROFORM EXTRACTABLES		10/28/57-05/14/70	9	34.	39.222	54.	23.	153.194	12.377	23.	28.	51.5	54.

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

Annual Analysis for 1961 - Station MNRR0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/16/57-08/28/75	51	9.1	11.218	25.	0.5	72.359	8.506	1.92	3.5	20.9	23.9
00060 FLOW, STREAM, MEAN DAILY	CFS	12/16/57-09/30/68	53	20200.	17682.264	30700.	5950.	87549094.775	9356.767	6334.	8380.	27600.	29200.
00070 TURBIDITY, (JACKSON CANDLE UNITS)		12/16/57-08/17/70	51	20.	22.157	60.	0.	125.255	11.192	10.	20.	30.	35.
00080p COLOR (PLATINUM-COBALT UNITS)		02/24/58-08/28/75	51	20.	25.686	40.	5.	90.02	9.488	16.	20.	30.	40.
00300p OXYGEN, DISSOLVED	MG/L	12/16/57-08/28/75	51	12.7	12.231	16.8	8.3	7.077	2.66	9.	9.5	14.5	15.66
00310p BOD, 5 DAY, 20 DEG C	MG/L	12/23/57-08/28/75	51	1.1	1.722	8.4	0.2	2.293	1.514	0.7	0.8	2.1	4.02
00370 CHLORINE DEMAND, 1 HOUR (MG/L)		01/27/58-01/18/65	51	0.9	1.059	3.9	0.2	0.365	0.604	0.5	0.7	1.4	1.8
00380 CHLORINE DEMAND, 24 HOUR (MG/L)		01/27/58-01/18/65	51	3.3	3.531	6.	1.6	1.228	1.108	2.12	2.8	4.1	5.28
00400p PH (STANDARD UNITS)		12/16/57-08/28/75	51	8.2	8.204	8.4	7.9	0.008	0.092	8.1	8.1	8.3	8.3
00400p CONVERTED PH (STANDARD UNITS)		12/16/57-08/28/75	51	8.2	8.194	8.4	7.9	0.008	0.092	8.1	8.1	8.3	8.3
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/16/57-08/28/75	51	0.006	0.006	0.013	0.004	0.	0.001	0.005	0.005	0.008	0.008
00410p ALKALINITY, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	51	164.	163.255	180.	144.	84.794	9.208	152.	156.	170.	176.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		01/12/59-06/27/66	18	79.5	80.056	139.	54.	313.467	17.705	56.7	73.75	84.	96.7
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		02/24/58-11/15/65	51	0.2	0.159	0.2	0.1	0.002	0.05	0.1	0.1	0.2	0.2
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)		03/27/61-09/30/68	39	0.1	0.097	0.1	0.	0.	0.016	0.1	0.1	0.1	0.1
00900p HARDNESS, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	51	232.	230.392	266.	182.	258.883	16.09	210.4	224.	236.	255.6
00940p CHLORIDE,TOTAL IN WATER	MG/L	12/16/57-08/28/75	51	19.	18.686	25.	12.	9.74	3.121	13.	17.	20.	22.
01501 ALPHA, TOTAL		11/04/57-01/01/71	11	4.	4.091	5.	2.	0.891	0.944	2.2	4.	5.	5.
01502 ALPHA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	2	3.	3.	3.	3.	0.	0.	**	**	**	**
01503 ALPHA, DISSOLVED		11/04/57-01/01/71	11	4.	3.545	5.	2.	0.673	0.82	2.2	3.	4.	4.8
01504 ALPHA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	2	3.	3.	3.	3.	0.	0.	**	**	**	**
01505 ALPHA, SUSPENDED		11/04/57-01/01/71	11	1.	0.545	1.	0.	0.273	0.522	0.	0.	1.	1.

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

Annual Analysis for 1961 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01506 ALPHA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	2	1.	1.	1.	1.	0.	0.	**	**	**	**
03501 BETA, TOTAL	11/04/57-01/01/71	18	16.5	19.389	59.	0.	343.193	18.525	0.	1.	32.25	50.
03502 BETA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	7	19.	16.857	19.	14.	7.143	2.673	**	**	**	**
03503 BETA, DISSOLVED	11/04/57-01/01/71	18	14.	15.278	48.	0.	202.918	14.245	0.	0.75	28.5	34.5
03504 BETA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	7	15.	13.714	16.	11.	5.238	2.289	**	**	**	**
03505 BETA, SUSPENDED	11/04/57-01/01/71	18	2.	4.111	16.	0.	28.575	5.346	0.	0.	7.25	14.2
03506 BETA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	7	10.	9.571	11.	8.	2.286	1.512	**	**	**	**
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	01/27/58-06/23/69	36	22.	72.25	960.	0.5	27197.207	164.916	2.7	7.25	57.75	171.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	01/27/58-06/23/69	36	1.341	1.348	2.982	-0.301	0.46	0.678	0.424	0.86	1.761	2.226
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =		22.292									
32001 SAMPLE SIZE (GALLONS)	10/28/57-05/14/70	15	4580.	6075.333	13520.	3290.	13737655.238	3706.434	3428.	3930.	5000.	13436.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	10/28/57-05/14/70	15	136.	141.	167.	122.	248.857	15.775	122.6	129.	156.	164.
32004 CARBON ALCOHOL EXTRACTABLES	10/28/57-05/14/70	15	103.	107.	139.	81.	269.857	16.427	84.	95.	119.	134.2
32005 CARBON CHLOROFORM EXTRACTABLES	10/28/57-05/14/70	15	32.	34.	52.	23.	80.429	8.968	23.6	26.	40.	49.6
60050 ALGAE, TOTAL (CELLS/ML)	10/02/61-11/01/67	6	2550.	3066.667	8400.	200.	8630666.667	2937.8	**	**	**	**
60100 ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/01/67	6	0.	6.667	20.	0.	106.667	10.328	**	**	**	**
60150 ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/01/67	6	10.	10.	20.	0.	120.	10.954	**	**	**	**
60200 ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/01/67	6	75.	100.	270.	0.	11320.	106.395	**	**	**	**
60250 ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/01/67	6	0.	0.	0.	0.	0.	0.	**	**	**	**
60300 ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-11/01/67	6	1345.	1868.333	6530.	40.	5573256.667	2360.775	**	**	**	**
60350 ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-11/01/67	6	10.	41.667	160.	0.	4096.667	64.005	**	**	**	**
60390 DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	10/02/61-06/05/67	5	42.	41.6	60.	21.	191.3	13.831	**	**	**	**
60400 DIATOMS, CENTRIC (/ML)	10/02/61-11/01/67	6	630.	720.	1640.	100.	370040.	608.309	**	**	**	**
60600 DIATOMS, PENNATE (/ML)	10/02/61-11/01/67	6	160.	318.333	800.	40.	93456.667	305.707	**	**	**	**

** - 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 box-and-whisker plot

Annual Analysis for 1962 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/57-08/28/75	50	11.9	11.976	25.9	1.	75.838	8.708	1.92	2.9	19.825	24.
00060 FLOW, STREAM, MEAN DAILY CFS	12/16/57-09/30/68	52	15700.	16387.692	30700.	6000.	60955908.296	7807.426	7217.	8350.	24350.	26390.
00070 TURBIDITY, (JACKSON CANDLE UNITS)	12/16/57-08/17/70	50	20.	35.	200.	10.	1185.714	34.434	15.	20.	32.5	69.
00080p COLOR (PLATINUM-COBALT UNITS)	02/24/58-08/28/75	50	10.	16.7	60.	5.	178.173	13.348	5.	5.	22.5	30.
00300p OXYGEN, DISSOLVED MG/L	12/16/57-08/28/75	37	11.	11.976	19.2	7.3	11.724	3.424	8.22	9.4	13.95	18.08
00310p BOD, 5 DAY, 20 DEG C MG/L	12/23/57-08/28/75	50	2.2	2.406	5.3	0.5	1.756	1.325	0.8	1.35	3.2	4.58
00370 CHLORINE DEMAND, 1 HOUR (MG/L)	01/27/58-01/18/65	50	1.	1.158	3.1	0.3	0.462	0.68	0.5	0.6	1.5	2.34
00380 CHLORINE DEMAND, 24 HOUR (MG/L)	01/27/58-01/18/65	49	3.2	3.394	7.	1.4	1.268	1.126	2.	2.7	3.95	4.7
00400p PH (STANDARD UNITS)	12/16/57-08/28/75	50	8.2	8.156	8.4	7.9	0.009	0.097	8.	8.1	8.2	8.29
00400p CONVERTED PH (STANDARD UNITS)	12/16/57-08/28/75	50	8.2	8.145	8.4	7.9	0.01	0.098	8.	8.1	8.2	8.29
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/16/57-08/28/75	50	0.006	0.007	0.013	0.004	0.	0.002	0.005	0.006	0.008	0.01
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	50	154.	165.76	656.	108.	5274.227	72.624	140.2	148.	170.	180.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/12/59-06/27/66	40	80.	93.625	377.	32.	4092.702	63.974	42.2	70.25	87.5	129.2
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/24/58-11/15/65	50	0.2	0.182	0.4	0.1	0.005	0.072	0.1	0.1	0.2	0.2
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	03/27/61-09/30/68	50	0.1	0.114	0.3	0.1	0.002	0.04	0.1	0.1	0.1	0.2
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	50	244.	239.8	280.	158.	629.592	25.092	202.6	234.	253.	267.6
00940p CHLORIDE,TOTAL IN WATER MG/L	12/16/57-08/28/75	50	20.	20.4	25.	11.	5.184	2.277	18.	19.	22.	22.9
01501 ALPHA, TOTAL	11/04/57-01/01/71	12	4.	4.25	11.	0.	8.75	2.958	0.6	2.	6.5	9.8
01502 ALPHA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	12	3.	3.833	7.	2.	2.515	1.586	2.3	3.	5.5	6.7
01503 ALPHA, DISSOLVED	11/04/57-01/01/71	12	3.5	3.833	11.	0.	7.97	2.823	0.6	2.	4.	9.8
01504 ALPHA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	12	3.	3.583	7.	2.	2.083	1.443	2.3	3.	3.75	6.7
01505 ALPHA, SUSPENDED	11/04/57-01/01/71	12	0.	0.417	4.	0.	1.356	1.165	0.	0.	0.	3.1
01506 ALPHA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	12	1.	1.25	5.	0.	1.477	1.215	0.3	1.	1.	3.8
03501 BETA, TOTAL	11/04/57-01/01/71	40	48.	52.85	171.	19.	881.413	29.689	27.2	34.	62.5	82.7
03502 BETA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	40	19.	18.425	25.	11.	14.148	3.761	11.2	16.25	21.75	23.
03503 BETA, DISSOLVED	11/04/57-01/01/71	40	34.5	37.1	82.	12.	239.785	15.485	19.2	24.	49.5	55.8
03504 BETA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	40	15.	14.425	21.	8.	11.584	3.404	9.	11.25	17.	19.

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

Annual Analysis for 1962 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
03505 BETA, SUSPENDED	11/04/57-01/01/71	40	8.	15.75	117.	0.	483.731	21.994	1.1	5.	15.5	39.5
03506 BETA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	40	11.	10.975	18.	6.	6.435	2.537	7.	10.	12.	13.9
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	01/27/58-06/23/69	36	91.5	579.25	14000.	2.	5369400.307	2317.197	8.3	50.	200.	860.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	01/27/58-06/23/69	36	1.96	1.935	4.146	0.301	0.615	0.784	0.819	1.699	2.301	2.932
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =		86.011									
32001 SAMPLE SIZE (GALLONS)	10/28/57-05/14/70	16	4605.	5337.5	13030.	1000.	11039073.333	3322.51	1469.	3272.5	7505.	11539.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	10/28/57-05/14/70	16	127.5	147.688	266.	75.	3225.963	56.798	89.	113.	171.5	252.7
32004 CARBON ALCOHOL EXTRACTABLES	10/28/57-05/14/70	16	92.	100.188	210.	54.	1626.429	40.329	62.4	71.75	107.5	177.8
32005 CARBON CHLOROFORM EXTRACTABLES	10/28/57-05/14/70	16	35.5	47.5	104.	18.	706.667	26.583	20.1	29.75	62.5	102.6
60050 ALGAE, TOTAL (CELLS/ML)	10/02/61-11/01/67	24	2300.	6137.5	43000.	100.	84913750.	9214.866	600.	1025.	8525.	15900.
60100 ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/01/67	24	0.	58.75	1280.	0.	67915.761	260.607	0.	0.	0.	55.
60150 ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/01/67	24	0.	20.833	230.	0.	3034.058	55.082	0.	0.	0.	115.
60200 ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/01/67	24	75.	147.083	720.	0.	35099.819	187.349	0.	20.	245.	440.
60250 ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/01/67	24	0.	2.5	40.	0.	80.435	8.969	0.	0.	0.	10.
60300 ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-11/01/67	24	165.	488.333	5360.	0.	1219475.362	1104.299	0.	47.5	462.5	1305.
60350 ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-11/01/67	24	20.	58.75	320.	0.	8750.543	93.544	0.	0.	60.	255.
60390 DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	10/02/61-06/05/67	24	38.5	41.458	83.	15.	271.303	16.471	21.	31.25	50.25	68.
60400 DIATOMS, CENTRIC (/ML)	10/02/61-11/01/67	24	1310.	2922.917	22870.	0.	24251038.949	4924.534	115.	260.	3670.	8515.
60600 DIATOMS, PENNATE (/ML)	10/02/61-11/01/67	24	710.	2435.833	13800.	20.	13987042.754	3739.926	170.	297.5	3075.	10135.

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

Annual Analysis for 1963 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/57-08/28/75	52	10.95	12.527	26.4	0.1	80.389	8.966	0.82	3.3	21.475	24.35
00060 FLOW, STREAM, MEAN DAILY CFS	12/16/57-09/30/68	53	25000.	20162.075	31400.	4790.	99898297.533	9994.914	5412.	8350.	28800.	29560.
00070 TURBIDITY, (JACKSON CANDLE UNITS)	12/16/57-08/17/70	52	25.	24.663	60.	12.5	97.311	9.865	12.5	20.	30.	37.
00080p COLOR (PLATINUM-COBALT UNITS)	02/24/58-08/28/75	52	10.	12.5	30.	5.	50.49	7.106	5.	5.	20.	20.
00300p OXYGEN, DISSOLVED MG/L	12/16/57-08/28/75	23	9.2	9.5	13.9	7.2	4.146	2.036	7.38	7.8	10.8	13.38
00310p BOD, 5 DAY, 20 DEG C MG/L	12/23/57-08/28/75	52	1.7	1.665	3.6	0.5	0.609	0.78	0.83	1.	2.175	2.9
00370 CHLORINE DEMAND, 1 HOUR (MG/L)	01/27/58-01/18/65	52	1.	1.142	3.1	0.2	0.423	0.651	0.4	0.725	1.4	2.07
00380 CHLORINE DEMAND, 24 HOUR (MG/L)	01/27/58-01/18/65	52	3.05	3.14	5.1	0.8	1.339	1.157	1.55	2.15	4.075	4.87
00400p PH (STANDARD UNITS)	12/16/57-08/28/75	52	8.2	8.212	8.4	7.9	0.016	0.126	8.	8.1	8.3	8.4
00400p CONVERTED PH (STANDARD UNITS)	12/16/57-08/28/75	52	8.2	8.193	8.4	7.9	0.016	0.128	8.	8.1	8.3	8.4
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/16/57-08/28/75	52	0.006	0.006	0.013	0.004	0.	0.002	0.004	0.005	0.008	0.01
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	51	158.	160.039	200.	130.	121.838	11.038	150.	152.	166.	173.6
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/12/59-06/27/66	12	65.	88.75	306.	18.	6877.477	82.931	20.1	36.75	94.	272.1
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/24/58-11/15/65	52	0.2	0.188	0.3	0.1	0.003	0.055	0.1	0.2	0.2	0.27
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	03/27/61-09/30/68	52	0.1	0.069	0.1	0.	0.002	0.047	0.	0.	0.1	0.1
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	52	260.	261.385	292.	198.	336.084	18.333	240.	248.5	275.5	285.4
00940p CHLORIDE,TOTAL IN WATER MG/L	12/16/57-08/28/75	52	22.	22.673	29.	17.	5.911	2.431	20.	21.	24.	26.
01501 ALPHA, TOTAL	11/04/57-01/01/71	12	4.5	5.5	13.	2.	11.364	3.371	2.3	3.	6.75	12.4
01502 ALPHA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	12	3.	3.333	5.	2.	0.788	0.888	2.	3.	4.	4.7
01503 ALPHA, DISSOLVED	11/04/57-01/01/71	12	4.5	4.75	12.	2.	6.932	2.633	2.3	3.	5.75	10.2
01504 ALPHA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	12	3.	3.167	5.	2.	0.697	0.835	2.	3.	3.75	4.7
01505 ALPHA, SUSPENDED	11/04/57-01/01/71	12	0.	0.75	5.	0.	2.205	1.485	0.	0.	1.	4.1
01506 ALPHA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	12	1.	1.	3.	0.	0.727	0.853	0.	0.25	1.	2.7
03501 BETA, TOTAL	11/04/57-01/01/71	12	39.	42.833	79.	30.	206.879	14.383	30.3	31.5	48.75	73.
03502 BETA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	12	16.	15.5	24.	5.	41.909	6.474	5.6	10.	21.5	24.
03503 BETA, DISSOLVED	11/04/57-01/01/71	12	33.5	34.25	70.	10.	200.932	14.175	13.9	27.25	40.	61.6
03504 BETA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	12	15.	12.75	18.	5.	21.841	4.673	5.3	8.	16.	17.7
03505 BETA, SUSPENDED	11/04/57-01/01/71	12	7.5	8.583	25.	0.	70.083	8.372	0.	1.75	9.	25.
03506 BETA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	12	6.	8.583	18.	1.	33.538	5.791	1.9	5.	14.5	18.
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	01/27/58-06/23/69	42##	50.	177.036	5000.	3.5	583795.663	764.065	3.5	17.5	100.	176.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	01/27/58-06/23/69	42##	1.699	1.597	3.699	0.544	0.39	0.624	0.544	1.226	2.	2.234
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =		39.579									

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

Annual Analysis for 1963 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
32001 SAMPLE SIZE (GALLONS)	10/28/57-05/14/70	12	3495.	3253.333	5870.	1280.	1828133.333	1352.085	1313.	1945.	4070.	5345.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS..TOTAL	10/28/57-05/14/70	12	158.5	188.833	399.	98.	8689.606	93.218	100.1	119.75	252.25	372.6
32004 CARBON ALCOHOL EXTRACTABLES	10/28/57-05/14/70	12	125.	142.583	287.	75.	4701.902	68.57	76.5	85.25	202.5	268.7
32005 CARBON CHLOROFORM EXTRACTABLES	10/28/57-05/14/70	12	35.	46.25	112.	18.	749.841	27.383	19.8	30.25	55.75	103.9
60050 ALGAE, TOTAL (CELLS/ML)	10/02/61-11/01/67	26	2400.	6784.615	40800.	300.	98245353.846	9911.879	500.	1100.	7450.	25950.
60100 ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/01/67	26	0.	9.615	140.	0.	835.846	28.911	0.	0.	0.	29.
60150 ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/01/67	26	0.	27.308	250.	0.	3812.462	61.745	0.	0.	20.	142.
60200 ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/01/67	26	85.	177.308	1030.	0.	62956.462	250.911	0.	40.	207.5	538.
60250 ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/01/67	26	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60300 ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-11/01/67	26	235.	541.154	3680.	0.	947258.615	973.272	0.	30.	367.5	2369.
60350 ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-11/01/67	26	10.	1767.308	16630.	0.	20565484.462	4534.918	0.	0.	250.	11350.
60390 DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	10/02/61-06/05/67	17	62.	58.941	93.	23.	411.309	20.281	31.8	40.	74.	86.6
60400 DIATOMS, CENTRIC (/ML)	10/02/61-11/01/67	26	1180.	2175.385	11510.	90.	8163641.846	2857.209	158.	245.	2762.5	6965.
60600 DIATOMS, PENNATE (/ML)	10/02/61-11/01/67	26	410.	2066.923	12310.	0.	13759126.154	3709.33	14.	127.5	1560.	10591.

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

Annual Analysis for 1964 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/57-08/28/75	48	10.1	11.202	26.5	2.8	54.977	7.415	3.98	4.	18.45	22.03
00060 FLOW, STREAM, MEAN DAILY CFS	12/16/57-09/30/68	49	24900.	20054.286	30200.	4700.	93623162.5	9675.906	6170.	8265.	28300.	29600.
00070 TURBIDITY, (JACKSON CANDLE UNITS)	12/16/57-08/17/70	48##	12.5	19.323	50.	12.5	141.42	11.892	12.5	12.5	30.	40.
00080p COLOR (PLATINUM-COBALT UNITS)	02/24/58-08/28/75	48	10.	14.063	40.	5.	94.315	9.712	5.	5.	20.	30.
00300p OXYGEN, DISSOLVED MG/L	12/16/57-08/28/75	48	10.95	10.906	16.1	7.3	6.9	2.627	7.5	8.6	12.75	15.13
00310p BOD, 5 DAY, 20 DEG C MG/L	12/23/57-08/28/75	48	1.5	1.673	3.8	0.5	0.693	0.833	0.79	1.	2.1	3.01
00370 CHLORINE DEMAND, 1 HOUR (MG/L)	01/27/58-01/18/65	48	0.9	0.937	1.7	0.2	0.118	0.343	0.5	0.7	1.2	1.4
00380 CHLORINE DEMAND, 24 HOUR (MG/L)	01/27/58-01/18/65	48	3.5	3.248	5.2	1.6	0.771	0.878	1.9	2.325	3.9	4.1
00400p PH (STANDARD UNITS)	12/16/57-08/28/75	47	8.3	8.223	8.6	7.6	0.042	0.205	7.9	8.1	8.4	8.42
00400p CONVERTED PH (STANDARD UNITS)	12/16/57-08/28/75	47	8.3	8.171	8.6	7.6	0.045	0.211	7.9	8.1	8.4	8.42
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/16/57-08/28/75	47	0.005	0.007	0.025	0.003	0.	0.004	0.004	0.004	0.008	0.013
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	48	160.	161.833	186.	134.	81.333	9.018	153.6	158.	166.	174.4
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/12/59-06/27/66	6	47.	64.	115.	37.	1201.2	34.658	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/24/58-11/15/65	47	0.2	0.17	1.	0.1	0.018	0.135	0.1	0.1	0.2	0.2
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/07/64-09/03/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	03/27/61-09/30/68	48	0.	0.008	0.1	0.	0.001	0.028	0.	0.	0.	0.01
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	48	246.	247.417	288.	208.	232.674	15.254	229.8	238.5	258.	262.8
00940p CHLORIDE,TOTAL IN WATER MG/L	12/16/57-08/28/75	48	22.	22.521	29.	15.	7.914	2.813	19.	21.	24.	26.
01501 ALPHA, TOTAL	11/04/57-01/01/71	12	4.	4.5	9.	0.	5.545	2.355	0.6	3.25	6.	8.4
01502 ALPHA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	12	4.	3.417	6.	1.	2.083	1.443	1.3	2.	4.	5.7
01503 ALPHA, DISSOLVED	11/04/57-01/01/71	12	4.	3.75	8.	0.	4.568	2.137	0.6	2.	5.	7.4
01504 ALPHA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	12	4.	3.25	5.	1.	1.477	1.215	1.3	2.	4.	4.7
01505 ALPHA, SUSPENDED	11/04/57-01/01/71	12	0.	0.75	5.	0.	2.205	1.485	0.	0.	1.	4.1
01506 ALPHA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	12	1.	1.	4.	0.	1.273	1.128	0.	0.	1.	3.4
03501 BETA, TOTAL	11/04/57-01/01/71	12	34.	34.917	48.	23.	64.992	8.062	23.3	29.25	42.75	47.4
03502 BETA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	12	6.5	7.25	11.	4.	5.841	2.417	4.3	6.	10.	11.
03503 BETA, DISSOLVED	11/04/57-01/01/71	12	28.	29.5	43.	20.	47.545	6.895	20.9	24.	33.75	41.8
03504 BETA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	12	5.	6.167	10.	3.	5.061	2.25	3.6	5.	8.25	10.
03505 BETA, SUSPENDED	11/04/57-01/01/71	12	3.5	5.417	22.	0.	39.174	6.259	0.	1.25	9.25	18.4
03506 BETA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	12	3.	3.667	6.	2.	1.697	1.303	2.	3.	5.	5.7
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	01/27/58-06/23/69	36	10.	107.25	1300.	3.5	70422.221	265.372	3.5	3.5	100.	200.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	01/27/58-06/23/69	36	1.	1.323	3.114	0.544	0.596	0.772	0.544	0.544	2.	2.301
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =		21.05									
32001 SAMPLE SIZE (GALLONS)	10/28/57-05/14/70	12	4195.	4110.833	6920.	2340.	1455281.061	1206.35	2361.	3462.5	4625.	6344.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS..TOTAL	10/28/57-05/14/70	12	141.5	155.5	265.	68.	3073.727	55.441	78.5	127.75	183.	259.
32004 CARBON ALCOHOL EXTRACTABLES	10/28/57-05/14/70	12	105.5	112.583	189.	51.	1436.447	37.9	62.1	89.25	130.5	184.2
32005 CARBON CHLOROFORM EXTRACTABLES	10/28/57-05/14/70	12	41.5	42.917	76.	15.	382.083	19.547	15.6	27.25	55.	74.8

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

Annual Analysis for 1964 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
60050 ALGAE, TOTAL (CELLS/ML)	10/02/61-11/01/67	18	2250.	2616.667	7400.	700.	3945000.	1986.202	700.	900.	2975.	6500.
60100 ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/01/67	18	0.	5.556	40.	0.	132.026	11.49	0.	0.	5.	22.
60150 ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/01/67	18	0.	10.556	80.	0.	593.791	24.368	0.	0.	5.	71.
60200 ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/01/67	18	135.	292.222	1040.	50.	94065.359	306.701	59.	85.	375.	950.
60250 ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/01/67	18	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60300 ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-11/01/67	18	95.	165.	980.	0.	48802.941	220.914	0.	47.5	222.5	323.
60350 ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-11/01/67	18	55.	93.889	310.	0.	9366.34	96.78	0.	20.	165.	265.
60390 DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	10/02/61-06/05/67	17	65.	61.882	96.	20.	750.485	27.395	21.6	35.	87.	92.8
60400 DIATOMS, CENTRIC (/ML)	10/02/61-11/01/67	18	1240.	1811.111	6720.	130.	3942257.516	1985.512	157.	257.5	2347.5	5469.
60600 DIATOMS, PENNATE (/ML)	10/02/61-11/01/67	18	180.	235.	1170.	20.	69061.765	262.796	38.	72.5	332.5	468.

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

Annual Analysis for 1965 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/57-08/28/75	46	12.4	12.809	25.	1.3	65.105	8.069	2.42	4.	19.95	24.
00060 FLOW, STREAM, MEAN DAILY CFS	12/16/57-09/30/68	47	25200.	22372.34	33300.	7280.	69495718.316	8336.409	7866.	16300.	29500.	30420.
00070 TURBIDITY, (JACKSON CANDLE UNITS)	12/16/57-08/17/70	47##	12.5	16.649	60.	12.5	101.977	10.098	12.5	12.5	12.5	31.
00080p COLOR (PLATINUM-COBALT UNITS)	02/24/58-08/28/75	47	10.	11.915	30.	5.	59.297	7.7	5.	5.	20.	20.
00300p OXYGEN, DISSOLVED MG/L	12/16/57-08/28/75	47	10.5	10.711	16.	7.3	5.245	2.29	7.92	8.7	12.8	13.54
00310p BOD, 5 DAY, 20 DEG C MG/L	12/23/57-08/28/75	47	1.2	1.298	2.3	0.5	0.183	0.428	0.8	1.	1.6	1.94
00370 CHLORINE DEMAND, 1 HOUR (MG/L)	01/27/58-01/18/65	3	0.5	0.633	0.9	0.5	0.053	0.231	**	**	**	**
00380 CHLORINE DEMAND, 24 HOUR (MG/L)	01/27/58-01/18/65	3	1.6	1.467	1.8	1.	0.173	0.416	**	**	**	**
00400p PH (STANDARD UNITS)	12/16/57-08/28/75	46	8.3	8.263	8.4	7.9	0.018	0.134	8.	8.2	8.4	8.4
00400p CONVERTED PH (STANDARD UNITS)	12/16/57-08/28/75	46	8.3	8.24	8.4	7.9	0.018	0.136	8.	8.2	8.4	8.4
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/16/57-08/28/75	46	0.005	0.006	0.013	0.004	0.	0.002	0.004	0.004	0.006	0.01
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	47	160.	161.149	176.	140.	31.782	5.638	157.6	158.	164.	168.4
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/24/58-11/15/65	42	0.15	0.15	0.2	0.1	0.003	0.051	0.1	0.1	0.2	0.2
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/07/64-09/03/68	9	0.16	0.17	0.5	0.05	0.02	0.142	0.05	0.05	0.21	0.5
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	03/27/61-09/30/68	47	0.	0.038	0.1	0.	0.002	0.049	0.	0.	0.1	0.1
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	46	240.	240.891	276.	218.	137.877	11.742	226.8	234.	248.5	256.
00940p CHLORIDE,TOTAL IN WATER MG/L	12/16/57-08/28/75	47	17.	19.064	29.	9.	26.713	5.168	14.	15.	24.	26.2
01501 ALPHA, TOTAL	11/04/57-01/01/71	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01502 ALPHA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01503 ALPHA, DISSOLVED	11/04/57-01/01/71	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01504 ALPHA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01505 ALPHA, SUSPENDED	11/04/57-01/01/71	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01506 ALPHA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	1	1.	1.	1.	1.	0.	0.	**	**	**	**
03501 BETA, TOTAL	11/04/57-01/01/71	1	29.	29.	29.	29.	0.	0.	**	**	**	**
03502 BETA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	1	4.	4.	4.	4.	0.	0.	**	**	**	**
03503 BETA, DISSOLVED	11/04/57-01/01/71	1	27.	27.	27.	27.	0.	0.	**	**	**	**
03504 BETA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	1	3.	3.	3.	3.	0.	0.	**	**	**	**
03505 BETA, SUSPENDED	11/04/57-01/01/71	1	2.	2.	2.	2.	0.	0.	**	**	**	**
03506 BETA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	1	2.	2.	2.	2.	0.	0.	**	**	**	**
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	01/27/58-06/23/69	31##	63.	348.5	4200.	31.5	684304.167	827.227	31.5	31.5	250.	1400.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	01/27/58-06/23/69	31##	1.799	1.96	3.623	1.498	0.378	0.615	1.498	1.498	2.398	3.141
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =		91.099									
32001 SAMPLE SIZE (GALLONS)	10/28/57-05/14/70	10	4255.	4161.	5000.	3050.	543765.556	737.405	3062.	3372.5	5000.	5000.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	10/28/57-05/14/70	11	125.	130.273	218.	79.	1577.018	39.712	81.6	101.	142.	210.2
32004 CARBON ALCOHOL EXTRACTABLES	10/28/57-05/14/70	11	90.	91.727	143.	59.	798.018	28.249	59.2	69.	102.	142.
32005 CARBON CHLOROFORM EXTRACTABLES	10/28/57-05/14/70	11	35.	38.545	80.	20.	308.073	17.552	20.	23.	50.	74.2
60050 ALGAE, TOTAL (CELLS/ML)	10/02/61-11/01/67	12	2100.	2950.	8600.	700.	6193636.364	2488.702	790.	1300.	3250.	8210.
60100 ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/01/67	12	0.	1.667	20.	0.	33.333	5.774	0.	0.	0.	14.
60150 ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/01/67	12	0.	11.667	100.	0.	833.333	28.868	0.	0.	15.	76.
60200 ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/01/67	12	235.	399.167	1300.	120.	113426.515	336.789	123.	210.	605.	1096.
60250 ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/01/67	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.

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

Annual Analysis for 1965 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
60300 ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-11/01/67	12	210.	352.5	970.	0.	143584.091	378.925	6.	42.5	782.5	955.
60350 ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-11/01/67	12	30.	70.833	390.	0.	14062.879	118.587	0.	0.	50.	342.
60390 DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	10/02/61-06/05/67	12	50.	55.75	99.	26.	689.841	26.265	27.2	32.5	85.5	97.5
60400 DIATOMS, CENTRIC (/ML)	10/02/61-11/01/67	12	500.	634.167	1500.	140.	188317.424	433.956	161.	247.5	865.	1431.
60600 DIATOMS, PENNATE (/ML)	10/02/61-11/01/67	12	485.	1475.833	5390.	50.	3865590.152	1966.11	68.	115.	2647.5	5312.

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

Annual Analysis for 1966 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/57-08/28/75	51	10.3	11.324	25.9	0.2	77.339	8.794	0.82	3.1	19.8	24.72
00060 FLOW, STREAM, MEAN DAILY CFS	12/16/57-09/30/68	51	28000.	25470.588	34400.	10600.	59137317.647	7690.079	12540.	16900.	32200.	33560.
00070 TURBIDITY, (JACKSON CANDLE UNITS)	12/16/57-08/17/70	51##	12.5	14.461	85.	12.5	116.328	10.786	12.5	12.5	12.5	12.5
00080p COLOR (PLATINUM-COBALT UNITS)	02/24/58-08/28/75	51	5.	4.902	10.	0.	3.49	1.868	5.	5.	5.	5.
00300p OXYGEN, DISSOLVED MG/L	12/16/57-08/28/75	51	11.	10.927	14.6	6.7	6.291	2.508	7.52	8.6	13.4	14.06
00310p BOD, 5 DAY, 20 DEG C MG/L	12/23/57-08/28/75	51	1.1	1.127	1.9	0.7	0.111	0.333	0.7	0.9	1.4	1.68
00400p PH (STANDARD UNITS)	12/16/57-08/28/75	51	8.3	8.253	8.4	8.	0.016	0.127	8.02	8.2	8.4	8.4
00400p CONVERTED PH (STANDARD UNITS)	12/16/57-08/28/75	51	8.3	8.234	8.4	8.	0.017	0.129	8.02	8.2	8.4	8.4
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/16/57-08/28/75	51	0.005	0.006	0.01	0.004	0.	0.002	0.004	0.004	0.006	0.01
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	51	158.	158.392	176.	134.	52.803	7.267	150.	154.	162.	168.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/12/59-06/27/66	10	14.	15.7	24.	6.	37.344	6.111	6.5	11.	22.5	24.
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/07/64-09/03/68	9	0.2	0.233	0.6	0.05	0.029	0.171	0.05	0.075	0.3	0.6
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	03/27/61-09/30/68	51	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	51	236.	237.804	268.	204.	217.161	14.736	220.	228.	252.	255.6
00940p CHLORIDE,TOTAL IN WATER MG/L	12/16/57-08/28/75	50	14.	14.54	18.	10.	2.784	1.669	12.	14.	16.	16.9
01501 ALPHA, TOTAL	11/04/57-01/01/71	10	3.	3.6	5.	2.	1.156	1.075	2.1	3.	5.	5.
01502 ALPHA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	10	2.	2.	3.	1.	0.222	0.471	1.1	2.	2.	2.9
01503 ALPHA, DISSOLVED	11/04/57-01/01/71	10	3.	3.6	5.	2.	1.156	1.075	2.1	3.	5.	5.
01504 ALPHA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	10	2.	2.	3.	1.	0.222	0.471	1.1	2.	2.	2.9
01505 ALPHA, SUSPENDED	11/04/57-01/01/71	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01506 ALPHA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
03501 BETA, TOTAL	11/04/57-01/01/71	10	23.5	22.6	32.	14.	29.6	5.441	14.3	17.	26.25	31.5
03502 BETA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	10	3.	3.	4.	2.	0.444	0.667	2.	2.75	3.25	4.
03503 BETA, DISSOLVED	11/04/57-01/01/71	10	23.	21.8	30.	14.	27.289	5.224	14.2	16.	25.5	29.7
03504 BETA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	10	3.	3.	4.	2.	0.444	0.667	2.	2.75	3.25	4.
03505 BETA, SUSPENDED	11/04/57-01/01/71	10	1.	0.8	2.	0.	0.622	0.789	0.	0.	1.25	2.
03506 BETA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	10	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	01/27/58-06/23/69	30##	31.5	190.717	2000.	31.5	147490.374	384.045	31.5	31.5	212.5	500.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	01/27/58-06/23/69	30##	1.498	1.874	3.301	1.498	0.277	0.526	1.498	1.498	2.325	2.699
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =		74.806									
32001 SAMPLE SIZE (GALLONS)	10/28/57-05/14/70	12	2740.	2731.667	4290.	1280.	766142.424	875.296	1427.	2097.5	3335.	4155.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	10/28/57-05/14/70	12	183.5	182.167	268.	98.	2856.333	53.445	107.	132.5	235.25	259.9
32004 CARBON ALCOHOL EXTRACTABLES	10/28/57-05/14/70	12	148.	142.333	221.	83.	2169.879	46.582	83.3	91.75	178.5	215.9
32005 CARBON CHLOROFORM EXTRACTABLES	10/28/57-05/14/70	12	40.5	39.833	65.	15.	180.333	13.429	18.3	30.	47.	62.
60050 ALGAE, TOTAL (CELLS/ML)	10/02/61-11/01/67	8	1650.	3225.	8200.	400.	10345000.	3216.364	**	**	**	**
60100 ALGAE, COCCOID BLUE-GREEN (CELLS/ML)	10/02/61-11/01/67	8	0.	0.	0.	0.	0.	0.	**	**	**	**
60150 ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)	10/02/61-11/01/67	8	0.	5.	40.	0.	200.	14.142	**	**	**	**
60200 ALGAE, COCCOID GREEN (CELLS/ML)	10/02/61-11/01/67	8	290.	421.25	1120.	60.	132012.5	363.335	**	**	**	**
60250 ALGAE, FILAMENTOUS GREEN (CELLS/ML)	10/02/61-11/01/67	8	0.	0.	0.	0.	0.	0.	**	**	**	**
60300 ALGAE, FLAGELLATE GREEN (CELLS/ML)	10/02/61-11/01/67	8	50.	132.5	640.	0.	45735.714	213.859	**	**	**	**
60350 ALGAE, FLAGELLATE OTHER (CELLS/ML)	10/02/61-11/01/67	8	20.	28.75	130.	0.	1869.643	43.239	**	**	**	**
60390 DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL	10/02/61-06/05/67	8	44.	49.125	93.	3.	946.696	30.768	**	**	**	**
60400 DIATOMS, CENTRIC (/ML)	10/02/61-11/01/67	8	245.	285.	570.	90.	39371.429	198.422	**	**	**	**
60600 DIATOMS, PENNATE (/ML)	10/02/61-11/01/67	8	170.	2347.5	7490.	0.	10682678.571	3268.437	**	**	**	**

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

Annual Analysis for 1967 - Station MNRR0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/16/57-08/28/75	50	9.1	10.714	25.2	0.1	72.378	8.508	0.8	2.15	20.	22.19
00060 FLOW, STREAM, MEAN DAILY	CFS	12/16/57-09/30/68	40	30200.	25089.	36400.	5900.	119186301.538	10917.248	6439.	12775.	34000.	35570.
00070 TURBIDITY, (JACKSON CANDLE UNITS)		12/16/57-08/17/70	50##	12.5	17.95	180.	12.5	680.278	26.082	12.5	12.5	12.5	12.5
00080p COLOR (PLATINUM-COBALT UNITS)		02/24/58-08/28/75	50	5.	2.9	5.	0.	6.214	2.493	0.	0.	5.	5.
00300p OXYGEN, DISSOLVED	MG/L	12/16/57-08/28/75	50	10.95	11.266	18.4	7.5	7.494	2.738	8.03	8.8	13.425	15.36
00310p BOD, 5 DAY, 20 DEG C	MG/L	12/23/57-08/28/75	50	1.2	1.242	2.7	0.4	0.263	0.513	0.61	0.8	1.6	2.
00400p PH (STANDARD UNITS)		12/16/57-08/28/75	50	8.2	8.174	8.3	8.	0.011	0.105	8.	8.1	8.3	8.3
00400p CONVERTED PH (STANDARD UNITS)		12/16/57-08/28/75	50	8.2	8.161	8.3	8.	0.011	0.105	8.	8.1	8.3	8.3
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/16/57-08/28/75	50	0.006	0.007	0.01	0.005	0.	0.002	0.005	0.005	0.008	0.01
00410p ALKALINITY, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	50	155.	153.36	176.	130.	56.072	7.488	144.	150.	158.	160.
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		12/07/64-09/03/68	10	0.2	0.21	0.4	0.1	0.01	0.099	0.1	0.1	0.3	0.39
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)		03/27/61-09/30/68	49	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00900p HARDNESS, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	50	232.	233.84	268.	198.	251.566	15.861	214.2	224.	240.5	260.
00940p CHLORIDE,TOTAL IN WATER	MG/L	12/16/57-08/28/75	50	16.	15.4	18.	9.	4.082	2.02	14.	14.	17.	18.
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C		01/27/58-06/23/69	50	31.5	107.96	1000.	1.	38716.315	196.765	4.2	20.	63.	371.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3		01/27/58-06/23/69	50	1.498	1.579	3.	0.	0.426	0.653	0.62	1.301	1.799	2.568
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35		GEOMETRIC MEAN =		37.945									
32001 SAMPLE SIZE (GALLONS)		10/28/57-05/14/70	12	2725.	3156.75	5000.	1321.	1665181.295	1290.419	1524.7	2057.5	4545.	5000.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS..TOTAL		10/28/57-05/14/70	12	147.	174.083	312.	88.	6228.083	78.918	88.	114.25	254.5	305.1
32004 CARBON ALCOHOL EXTRACTABLES		10/28/57-05/14/70	12	114.	134.25	231.	64.	3629.477	60.245	65.8	92.5	201.	229.5
32005 CARBON CHLOROFORM EXTRACTABLES		10/28/57-05/14/70	12	35.	39.833	86.	18.	416.515	20.409	18.	21.	53.5	77.6
60050 ALGAE, TOTAL (CELLS/ML)		10/02/61-11/01/67	7	500.	1028.571	4200.	0.	2065714.286	1437.259	**	**	**	**
60100 ALGAE, COCCOID BLUE-GREEN (CELLS/ML)		10/02/61-11/01/67	7	0.	0.	0.	0.	0.	0.	**	**	**	**
60150 ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)		10/02/61-11/01/67	7	0.	0.	0.	0.	0.	0.	**	**	**	**
60200 ALGAE, COCCOID GREEN (CELLS/ML)		10/02/61-11/01/67	7	150.	150.	330.	0.	16933.333	130.128	**	**	**	**
60250 ALGAE, FILAMENTOUS GREEN (CELLS/ML)		10/02/61-11/01/67	7	0.	0.	0.	0.	0.	0.	**	**	**	**
60300 ALGAE, FLAGELLATE GREEN (CELLS/ML)		10/02/61-11/01/67	7	0.	52.857	220.	0.	7090.476	84.205	**	**	**	**
60350 ALGAE, FLAGELLATE OTHER (CELLS/ML)		10/02/61-11/01/67	7	0.	5.714	20.	0.	95.238	9.759	**	**	**	**
60390 DIATOMS, DOMINANT SPECIES, PERCENT OF TOTAL		10/02/61-06/05/67	2	72.5	72.5	97.	48.	1200.5	34.648	**	**	**	**
60400 DIATOMS, CENTRIC (/ML)		10/02/61-11/01/67	7	90.	108.571	200.	20.	4180.952	64.66	**	**	**	**
60600 DIATOMS, PENNATE (/ML)		10/02/61-11/01/67	7	70.	722.857	3880.	0.	2061957.143	1435.952	**	**	**	**

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

Annual Analysis for 1968 - Station MNRR0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/16/57-08/28/75	52	10.7	10.829	24.5	0.	78.558	8.863	0.43	1.5	19.225	23.
00060 FLOW, STREAM, MEAN DAILY	CFS	12/16/57-09/30/68	40	32350.	28502.5	38100.	12800.	63329993.59	7958.014	16110.	17275.	33525.	35650.
00070 TURBIDITY, (JACKSON CANDLE UNITS)		12/16/57-08/17/70	39##	12.5	12.5	12.5	12.5	0.	0.	12.5	12.5	12.5	12.5
00075 TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)		10/07/68-08/28/75	7	10.	7.857	10.	5.	7.143	2.673	**	**	**	**
00080p COLOR (PLATINUM-COBALT UNITS)		02/24/58-08/28/75	40	0.	0.875	5.	0.	3.702	1.924	0.	0.	0.	5.
00300p OXYGEN, DISSOLVED	MG/L	12/16/57-08/28/75	52	10.8	10.74	14.6	5.7	5.383	2.32	7.86	8.725	12.65	13.97
00310p BOD, 5 DAY, 20 DEG C	MG/L	12/23/57-08/28/75	39	0.9	0.936	2.1	0.2	0.184	0.429	0.5	0.6	1.2	1.6
00400p PH (STANDARD UNITS)		12/16/57-08/28/75	51	8.3	8.28	8.5	7.9	0.017	0.131	8.1	8.2	8.4	8.4
00400p CONVERTED PH (STANDARD UNITS)		12/16/57-08/28/75	51	8.3	8.26	8.5	7.9	0.018	0.133	8.1	8.2	8.4	8.4
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/16/57-08/28/75	51	0.005	0.006	0.013	0.003	0.	0.002	0.004	0.004	0.006	0.008
00410p ALKALINITY, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	52	160.	160.692	170.	138.	30.1	5.486	154.6	158.	164.	168.
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		12/07/64-09/03/68	9	0.2	0.206	0.3	0.05	0.008	0.088	0.05	0.15	0.3	0.3
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)		03/27/61-09/30/68	39	0.	0.003	0.1	0.	0.	0.016	0.	0.	0.	0.
00900p HARDNESS, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	52	246.	247.538	276.	220.	102.057	10.102	238.6	240.	254.	260.8
00940p CHLORIDE,TOTAL IN WATER	MG/L	12/16/57-08/28/75	52	16.	16.038	18.	12.	2.077	1.441	14.	16.	17.	18.
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C		01/27/58-06/23/69	33	8.	26.818	380.	0.5	4671.216	68.346	0.5	0.75	24.	58.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3		01/27/58-06/23/69	33	0.903	0.76	2.58	-0.301	0.64	0.8	-0.301	-0.151	1.379	1.748
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35		GEOMETRIC MEAN =		5.755									
32001 SAMPLE SIZE (GALLONS)		10/28/57-05/14/70	10	4380.	4204.	5000.	2840.	504160.	710.042	2889.	3592.5	4767.5	5000.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS..TOTAL		10/28/57-05/14/70	10	150.	151.8	211.	97.	1115.511	33.399	98.9	129.5	175.25	209.

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

Annual Analysis for 1968 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
32004 CARBON ALCOHOL EXTRACTABLES	10/28/57-05/14/70	10	119.	121.6	175.	71.	965.156	31.067	72.3	101.25	144.75	173.1
32005 CARBON CHLOROFORM EXTRACTABLES	10/28/57-05/14/70	10	29.5	30.2	38.	24.	23.956	4.894	24.1	25.75	35.25	37.8

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

Annual Analysis for 1969 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/57-08/28/75	17	16.	16.3	25.	0.1	41.517	6.443	7.22	12.	22.	24.2
00070 TURBIDITY, (JACKSON CANDLE UNITS)	12/16/57-08/17/70	15	10.	9.667	10.	5.	1.667	1.291	8.	10.	10.	10.
00080p COLOR (PLATINUM-COBALT UNITS)	02/24/58-08/28/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00300p OXYGEN, DISSOLVED MG/L	12/16/57-08/28/75	17	9.2	9.612	12.7	7.5	2.291	1.514	7.9	8.35	10.6	12.3
00310p BOD, 5 DAY, 20 DEG C MG/L	12/23/57-08/28/75	17	1.3	1.318	2.3	0.6	0.314	0.56	0.68	0.8	1.85	2.14
00400p PH (STANDARD UNITS)	12/16/57-08/28/75	17	8.3	8.294	8.5	8.1	0.016	0.125	8.1	8.2	8.4	8.42
00400p CONVERTED PH (STANDARD UNITS)	12/16/57-08/28/75	17	8.3	8.277	8.5	8.1	0.016	0.126	8.1	8.2	8.4	8.42
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/16/57-08/28/75	17	0.005	0.005	0.008	0.003	0.	0.002	0.004	0.004	0.006	0.008
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	17	154.	152.588	168.	136.	58.382	7.641	142.4	148.	158.	161.6
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	17	238.	236.412	250.	210.	105.382	10.266	220.4	229.	244.	248.4
00940p CHLORIDE,TOTAL IN WATER MG/L	12/16/57-08/28/75	17	16.	15.706	18.	12.	1.971	1.404	14.4	15.	16.5	18.
01501 ALPHA, TOTAL	11/04/57-01/01/71	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01502 ALPHA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01503 ALPHA, DISSOLVED	11/04/57-01/01/71	1	8.	8.	8.	8.	0.	0.	**	**	**	**
01504 ALPHA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01505 ALPHA, SUSPENDED	11/04/57-01/01/71	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01506 ALPHA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	1	0.	0.	0.	0.	0.	0.	**	**	**	**
03501 BETA, TOTAL	11/04/57-01/01/71	1	3.	3.	3.	3.	0.	0.	**	**	**	**
03502 BETA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	1	6.	6.	6.	6.	0.	0.	**	**	**	**
03503 BETA, DISSOLVED	11/04/57-01/01/71	1	2.	2.	2.	2.	0.	0.	**	**	**	**
03504 BETA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	1	6.	6.	6.	6.	0.	0.	**	**	**	**
03505 BETA, SUSPENDED	11/04/57-01/01/71	1	1.	1.	1.	1.	0.	0.	**	**	**	**
03506 BETA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	01/27/58-06/23/69	8	25.5	64.	220.	6.	6875.714	82.92	**	**	**	**
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3	01/27/58-06/23/69	8	1.406	1.468	2.342	0.778	0.349	0.591	**	**	**	**
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35	GEOMETRIC MEAN =		29.343									
32001 SAMPLE SIZE (GALLONS)	10/28/57-05/14/70	9	4410.	3831.111	5000.	1180.	1924961.111	1387.43	1180.	2555.	4945.	5000.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS..TOTAL	10/28/57-05/14/70	9	132.	175.444	509.	74.	17658.028	132.884	74.	101.	202.	509.
32004 CARBON ALCOHOL EXTRACTABLES	10/28/57-05/14/70	9	119.	150.556	445.	62.	14125.778	118.852	62.	78.5	178.5	445.
32005 CARBON CHLOROFORM EXTRACTABLES	10/28/57-05/14/70	9	21.	27.	64.	12.	233.75	15.289	12.	19.5	31.	64.

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

Annual Analysis for 1970 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/57-08/28/75	43	13.3	12.316	24.9	0.	83.531	9.14	0.88	2.	22.9	23.58
00070 TURBIDITY, (JACKSON CANDLE UNITS)	12/16/57-08/17/70	19	10.	9.737	20.	0.	29.094	5.394	5.	5.	10.	20.
00075 TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	10/07/68-08/28/75	14	10.	10.714	40.	0.	122.527	11.069	0.	5.	10.	35.
00080p COLOR (PLATINUM-COBALT UNITS)	02/24/58-08/28/75	11	0.	0.909	5.	0.	4.091	2.023	0.	0.	0.	5.
00300p OXYGEN, DISSOLVED MG/L	12/16/57-08/28/75	43	10.9	10.944	14.3	8.4	4.431	2.105	8.5	8.8	13.1	13.96
00310p BOD, 5 DAY, 20 DEG C MG/L	12/23/57-08/28/75	43	0.7	0.935	3.2	0.3	0.435	0.659	0.4	0.5	1.1	1.78
00400p PH (STANDARD UNITS)	12/16/57-08/28/75	43	8.3	8.263	8.5	7.7	0.03	0.173	8.	8.1	8.4	8.5
00400p CONVERTED PH (STANDARD UNITS)	12/16/57-08/28/75	43	8.3	8.224	8.5	7.7	0.032	0.178	8.	8.1	8.4	8.5
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/16/57-08/28/75	43	0.005	0.006	0.02	0.003	0.	0.003	0.003	0.004	0.008	0.01
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	43	156.	156.558	170.	148.	18.729	4.328	152.	154.	158.	161.2
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	43	236.	235.814	258.	216.	81.298	9.017	226.	230.	242.	247.2

** - 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 1970 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00940p CHLORIDE,TOTAL IN WATER MG/L	12/16/57-08/28/75	39	16.	15.615	19.	11.	1.717	1.31	14.	15.	16.	17.
01501 ALPHA, TOTAL	11/04/57-01/01/71	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01502 ALPHA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01503 ALPHA, DISSOLVED	11/04/57-01/01/71	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01504 ALPHA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01505 ALPHA, SUSPENDED	11/04/57-01/01/71	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01506 ALPHA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	1	0.	0.	0.	0.	0.	0.	**	**	**	**
03501 BETA, TOTAL	11/04/57-01/01/71	1	14.	14.	14.	14.	0.	0.	**	**	**	**
03502 BETA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	1	3.	3.	3.	3.	0.	0.	**	**	**	**
03503 BETA, DISSOLVED	11/04/57-01/01/71	1	13.	13.	13.	13.	0.	0.	**	**	**	**
03504 BETA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	1	3.	3.	3.	3.	0.	0.	**	**	**	**
03505 BETA, SUSPENDED	11/04/57-01/01/71	1	1.	1.	1.	1.	0.	0.	**	**	**	**
03506 BETA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/02/69-08/28/75	41	2.	7.561	56.	0.	137.752	11.737	1.	1.	10.	21.6
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/02/69-08/28/75	41	0.301	0.512	1.748	0.	0.302	0.549	0.	0.	0.991	1.334
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		3.251									
32001 SAMPLE SIZE (GALLONS)	10/28/57-05/14/70	5	4830.	4372.	5000.	3050.	724970.	851.452	**	**	**	**
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL	10/28/57-05/14/70	5	159.	166.6	208.	128.	1082.8	32.906	**	**	**	**
32004 CARBON ALCOHOL EXTRACTABLES	10/28/57-05/14/70	5	112.	117.8	158.	91.	623.7	24.974	**	**	**	**
32005 CARBON CHLOROFORM EXTRACTABLES	10/28/57-05/14/70	5	39.	48.8	87.	34.	479.2	21.891	**	**	**	**

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

Annual Analysis for 1971 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/57-08/28/75	35	13.3	13.166	24.4	0.5	72.823	8.534	1.6	5.	23.	23.8
00075 TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	10/07/68-08/28/75	35	20.	19.143	60.	0.	141.891	11.912	5.	10.	25.	32.
00080p COLOR (PLATINUM-COBALT UNITS)	02/24/58-08/28/75	35	50.	63.714	200.	0.	2094.622	45.767	10.	30.	80.	144.
00300p OXYGEN, DISSOLVED MG/L	12/16/57-08/28/75	35	11.2	11.269	14.1	8.5	3.962	1.991	8.6	9.2	13.2	13.88
00310p BOD, 5 DAY, 20 DEG C MG/L	12/23/57-08/28/75	35	0.8	0.96	2.4	0.3	0.218	0.467	0.36	0.6	1.2	1.54
00400p PH (STANDARD UNITS)	12/16/57-08/28/75	35	8.2	8.214	8.4	7.8	0.024	0.156	8.	8.1	8.3	8.4
00400p CONVERTED PH (STANDARD UNITS)	12/16/57-08/28/75	35	8.2	8.185	8.4	7.8	0.025	0.158	8.	8.1	8.3	8.4
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/16/57-08/28/75	35	0.006	0.007	0.016	0.004	0.	0.003	0.004	0.005	0.008	0.01
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	35	156.	154.971	162.	140.	28.558	5.344	146.	152.	158.	160.
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	35	232.	230.571	258.	192.	118.252	10.874	217.2	230.	236.	239.6
00940p CHLORIDE,TOTAL IN WATER MG/L	12/16/57-08/28/75	35	15.	14.829	17.	13.	0.676	0.822	14.	14.	15.	16.
01501 ALPHA, TOTAL	11/04/57-01/01/71	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01502 ALPHA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01503 ALPHA, DISSOLVED	11/04/57-01/01/71	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01504 ALPHA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01505 ALPHA, SUSPENDED	11/04/57-01/01/71	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01506 ALPHA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	1	0.	0.	0.	0.	0.	0.	**	**	**	**
03501 BETA, TOTAL	11/04/57-01/01/71	1	9.	9.	9.	9.	0.	0.	**	**	**	**
03502 BETA, TOTAL, COUNTING ERROR	11/04/57-01/01/71	1	3.	3.	3.	3.	0.	0.	**	**	**	**
03503 BETA, DISSOLVED	11/04/57-01/01/71	1	9.	9.	9.	9.	0.	0.	**	**	**	**
03504 BETA, DISSOLVED, COUNTING ERROR	11/04/57-01/01/71	1	3.	3.	3.	3.	0.	0.	**	**	**	**
03505 BETA, SUSPENDED	11/04/57-01/01/71	1	0.	0.	0.	0.	0.	0.	**	**	**	**
03506 BETA, SUSPENDED, COUNTING ERROR	11/04/57-01/01/71	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/02/69-08/28/75	14	5.5	9.571	38.	0.5	129.61	11.385	0.5	1.	13.75	32.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/02/69-08/28/75	14	0.724	0.636	1.58	-0.301	0.393	0.627	-0.301	0.	1.117	1.497
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		4.33									

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

Annual Analysis for 1972 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/57-08/28/75	38	7.2	10.179	24.3	0.	69.262	8.322	0.	2.1	20.	22.1
00075 TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	10/07/68-08/28/75	43	20.	23.372	80.	0.	219.906	14.829	10.	10.	30.	46.
00080p COLOR (PLATINUM-COBALT UNITS)	02/24/58-08/28/75	38	55.	60.263	140.	0.	1310.74	36.204	18.	30.	90.	110.
00300p OXYGEN, DISSOLVED MG/L	12/16/57-08/28/75	40	12.2	11.658	15.1	8.5	4.341	2.083	8.91	9.425	13.475	14.18
00310p BOD, 5 DAY, 20 DEG C MG/L	12/23/57-08/28/75	41	1.4	1.744	15.	0.	5.007	2.238	0.7	0.95	2.05	2.5
00400p PH (STANDARD UNITS)	12/16/57-08/28/75	40	8.15	8.177	8.5	7.6	0.032	0.178	8.	8.1	8.3	8.4
00400p CONVERTED PH (STANDARD UNITS)	12/16/57-08/28/75	40	8.147	8.139	8.5	7.6	0.033	0.182	8.	8.1	8.3	8.4
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/16/57-08/28/75	40	0.007	0.007	0.025	0.003	0.	0.004	0.004	0.005	0.008	0.01
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	43	154.	155.209	170.	142.	42.693	6.534	148.	150.	160.	164.
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	42	231.	230.238	250.	212.	86.088	9.278	217.2	223.5	236.	243.4
00940p CHLORIDE,TOTAL IN WATER MG/L	12/16/57-08/28/75	42	15.	14.857	18.	13.	1.003	1.002	14.	14.	15.	16.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/02/69-08/28/75	27	14.	17.704	48.	0.	218.14	14.77	0.5	2.	29.	37.6
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/02/69-08/28/75	27	1.146	0.944	1.681	-0.301	0.442	0.665	-0.301	0.301	1.462	1.575
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		8.799									

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

Annual Analysis for 1973 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/57-08/28/75	27	12.	13.178	25.	1.	71.995	8.485	2.08	6.	22.	24.
00075 TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	10/07/68-08/28/75	27	20.	22.037	40.	5.	133.191	11.541	10.	10.	30.	40.
00080p COLOR (PLATINUM-COBALT UNITS)	02/24/58-08/28/75	27	60.	60.926	110.	20.	638.533	25.269	29.	40.	80.	102.
00300p OXYGEN, DISSOLVED MG/L	12/16/57-08/28/75	27	11.1	10.5	14.	7.4	4.502	2.122	7.66	8.	12.5	13.02
00310p BOD, 5 DAY, 20 DEG C MG/L	12/23/57-08/28/75	26	1.1	1.258	2.7	0.2	0.4	0.633	0.57	0.8	1.675	2.29
00400p PH (STANDARD UNITS)	12/16/57-08/28/75	22	8.4	8.368	8.5	8.1	0.015	0.121	8.2	8.3	8.5	8.5
00400p CONVERTED PH (STANDARD UNITS)	12/16/57-08/28/75	22	8.4	8.351	8.5	8.1	0.015	0.122	8.2	8.3	8.5	8.5
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/16/57-08/28/75	22	0.004	0.004	0.008	0.003	0.	0.001	0.003	0.003	0.005	0.006
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	27	158.	157.704	168.	146.	24.524	4.952	149.6	156.	162.	162.4
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	27	236.	233.185	256.	208.	81.926	9.051	220.4	228.	238.	240.
00940p CHLORIDE,TOTAL IN WATER MG/L	12/16/57-08/28/75	27	14.	14.556	17.	13.	1.333	1.155	13.	14.	15.	16.2
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/02/69-08/28/75	9	8.	33.444	190.	2.	3773.028	61.425	2.	3.5	39.	190.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/02/69-08/28/75	9	0.903	1.035	2.279	0.301	0.425	0.652	0.301	0.5	1.517	2.279
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		10.841									

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

Annual Analysis for 1974 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/57-08/28/75	43	7.7	9.551	23.9	0.	63.314	7.957	1.04	1.2	17.2	22.
00075 TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	10/07/68-08/28/75	43	20.	17.209	40.	0.	97.979	9.898	10.	10.	20.	30.
00080p COLOR (PLATINUM-COBALT UNITS)	02/24/58-08/28/75	43	50.	51.395	100.	10.	502.769	22.423	20.	30.	60.	86.
00300p OXYGEN, DISSOLVED MG/L	12/16/57-08/28/75	43	11.5	11.426	14.4	7.9	4.851	2.202	8.14	9.6	13.7	14.22
00310p BOD, 5 DAY, 20 DEG C MG/L	12/23/57-08/28/75	43	1.1	1.379	3.7	0.2	0.669	0.818	0.54	0.8	1.8	2.46
00400p PH (STANDARD UNITS)	12/16/57-08/28/75	43	8.4	8.386	8.6	8.2	0.009	0.097	8.24	8.3	8.4	8.5
00400p CONVERTED PH (STANDARD UNITS)	12/16/57-08/28/75	43	8.4	8.376	8.6	8.2	0.009	0.097	8.24	8.3	8.4	8.5
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/16/57-08/28/75	43	0.004	0.004	0.006	0.003	0.	0.001	0.003	0.004	0.005	0.006
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	38	162.	162.158	174.	148.	36.407	6.034	153.8	158.	166.	172.
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	43	234.	233.326	250.	210.	67.082	8.19	222.8	228.	240.	244.
00940p CHLORIDE,TOTAL IN WATER MG/L	12/16/57-08/28/75	43	15.	14.302	16.	11.	2.502	1.582	12.	13.	16.	16.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/02/69-08/28/75	20	12.	24.05	90.	0.5	744.866	27.292	0.55	2.	47.	69.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/02/69-08/28/75	20	1.073	0.971	1.954	-0.301	0.54	0.735	-0.271	0.301	1.669	1.838
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		9.35									

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

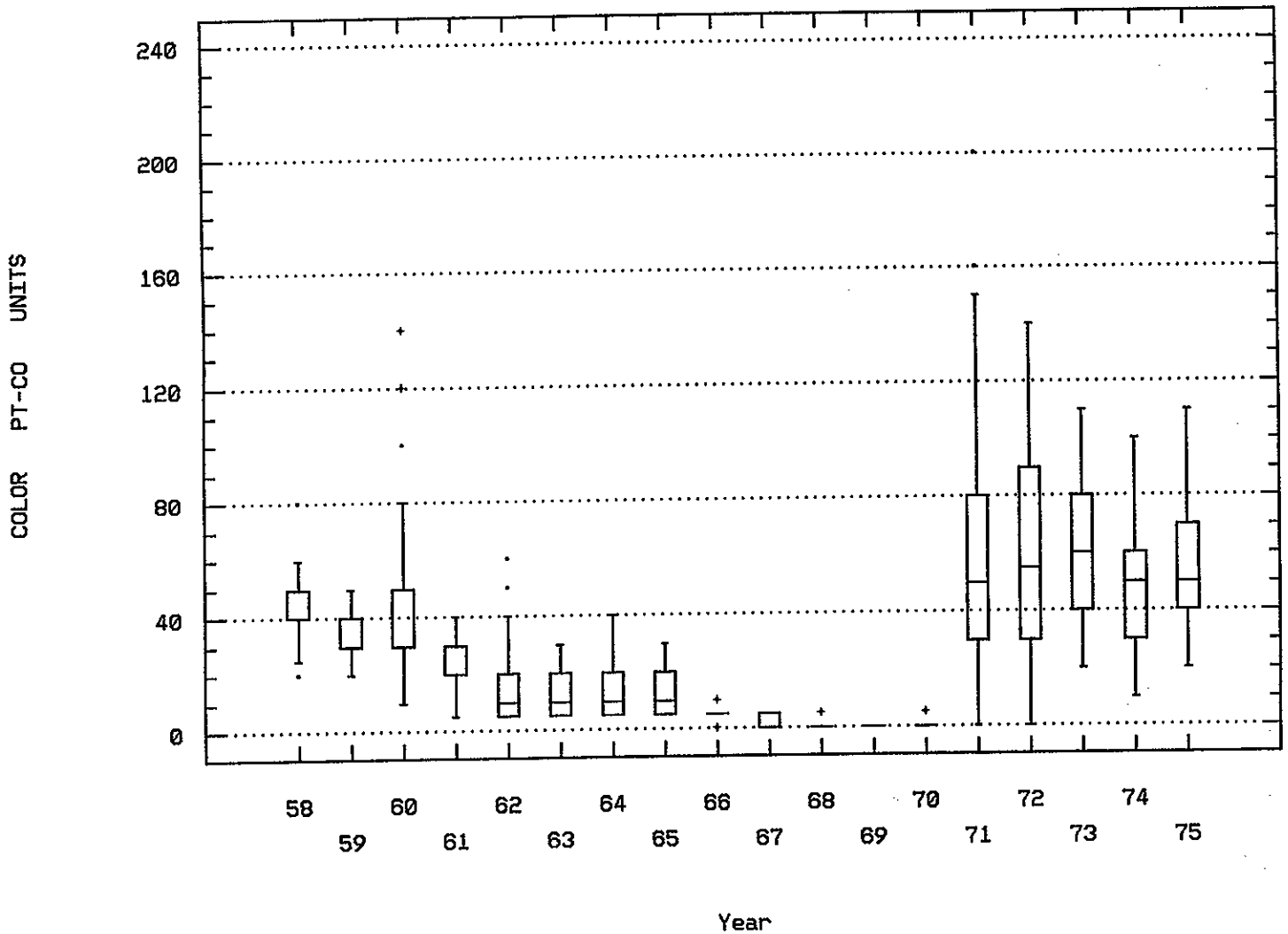
Annual Analysis for 1975 - Station MNRR0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/16/57-08/28/75	35	10.	11.	25.	0.6	99.16	9.958	0.6	0.6	22.8	23.84
00075 TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	10/07/68-08/28/75	35	15.	15.429	35.	2.	71.252	8.441	5.	10.	20.	30.
00080p COLOR (PLATINUM-COBALT UNITS)	02/24/58-08/28/75	35	50.	56.571	110.	20.	464.37	21.549	30.	40.	70.	90.
00300p OXYGEN, DISSOLVED MG/L	12/16/57-08/28/75	35	10.9	11.394	14.5	8.	6.214	2.493	8.46	8.8	14.1	14.4
00310p BOD, 5 DAY, 20 DEG C MG/L	12/23/57-08/28/75	35	1.4	1.454	2.8	0.5	0.449	0.67	0.6	0.9	1.9	2.54
00400p PH (STANDARD UNITS)	12/16/57-08/28/75	35	8.4	8.391	8.5	8.2	0.006	0.074	8.3	8.3	8.4	8.5
00400p CONVERTED PH (STANDARD UNITS)	12/16/57-08/28/75	35	8.4	8.385	8.5	8.2	0.006	0.075	8.3	8.3	8.4	8.5
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/16/57-08/28/75	35	0.004	0.004	0.006	0.003	0.	0.001	0.003	0.004	0.005	0.005
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	35	164.	162.743	172.	152.	24.02	4.901	156.	160.	166.	168.
00900p HARDNESS, TOTAL (MG/L AS CACO3)	12/16/57-08/28/75	35	238.	238.286	260.	220.	47.798	6.914	230.	234.	242.	246.
00940p CHLORIDE,TOTAL IN WATER MG/L	12/16/57-08/28/75	35	17.	17.486	25.	14.	6.728	2.594	15.	15.	19.	21.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/02/69-08/28/75	32	3.5	11.938	115.	0.	497.157	22.297	1.	1.	14.75	26.2
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/02/69-08/28/75	32	0.54	0.662	2.061	0.	0.343	0.586	0.	0.	1.169	1.416
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		4.596									

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

Station: MNRR0029 Parameter Code: 00080

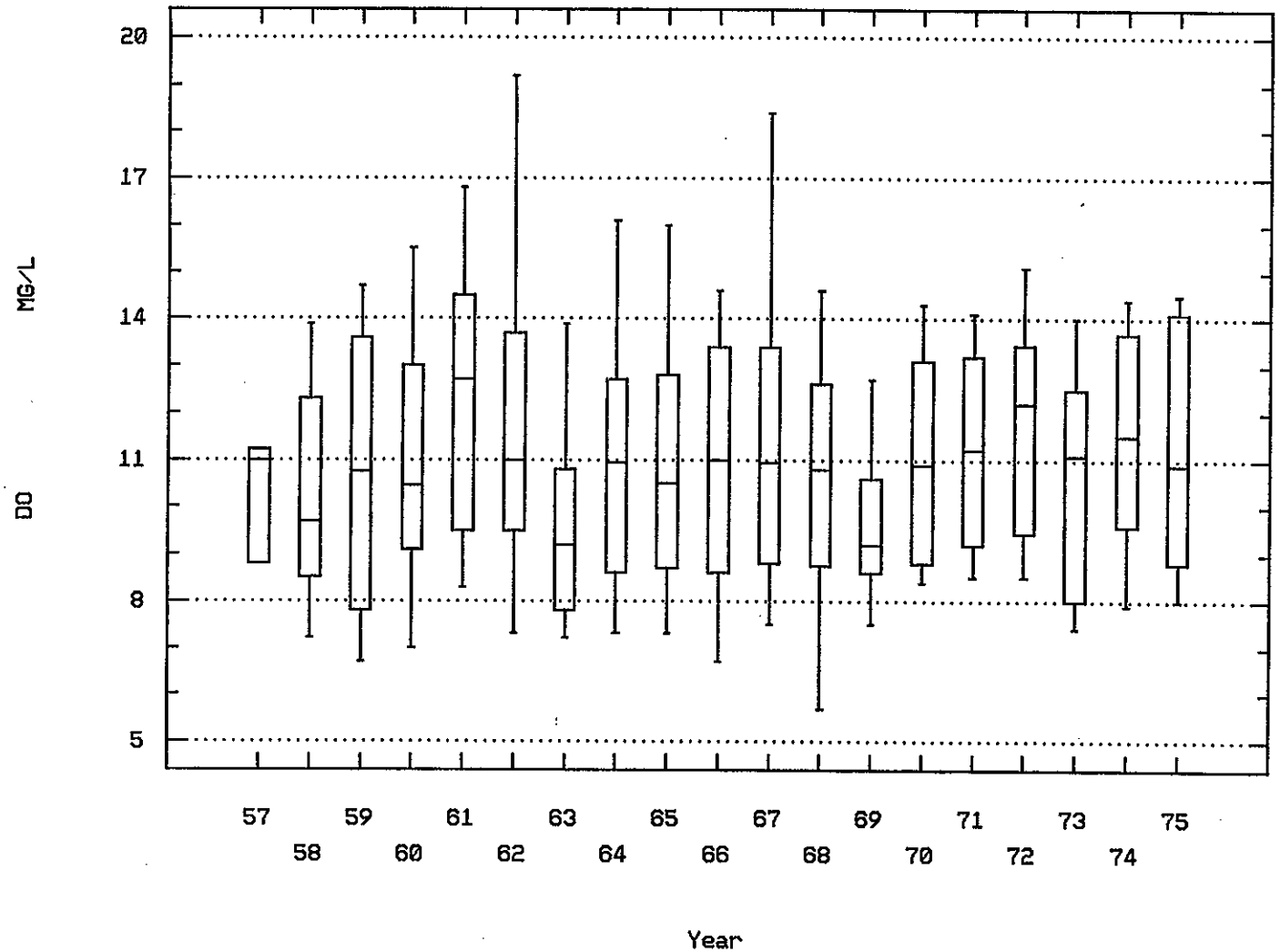
COLOR (PLATINUM-COBALT UNITS)



MISSOURI RIVER AT YANKTON

Station: MNRR0029 Parameter Code: 00300

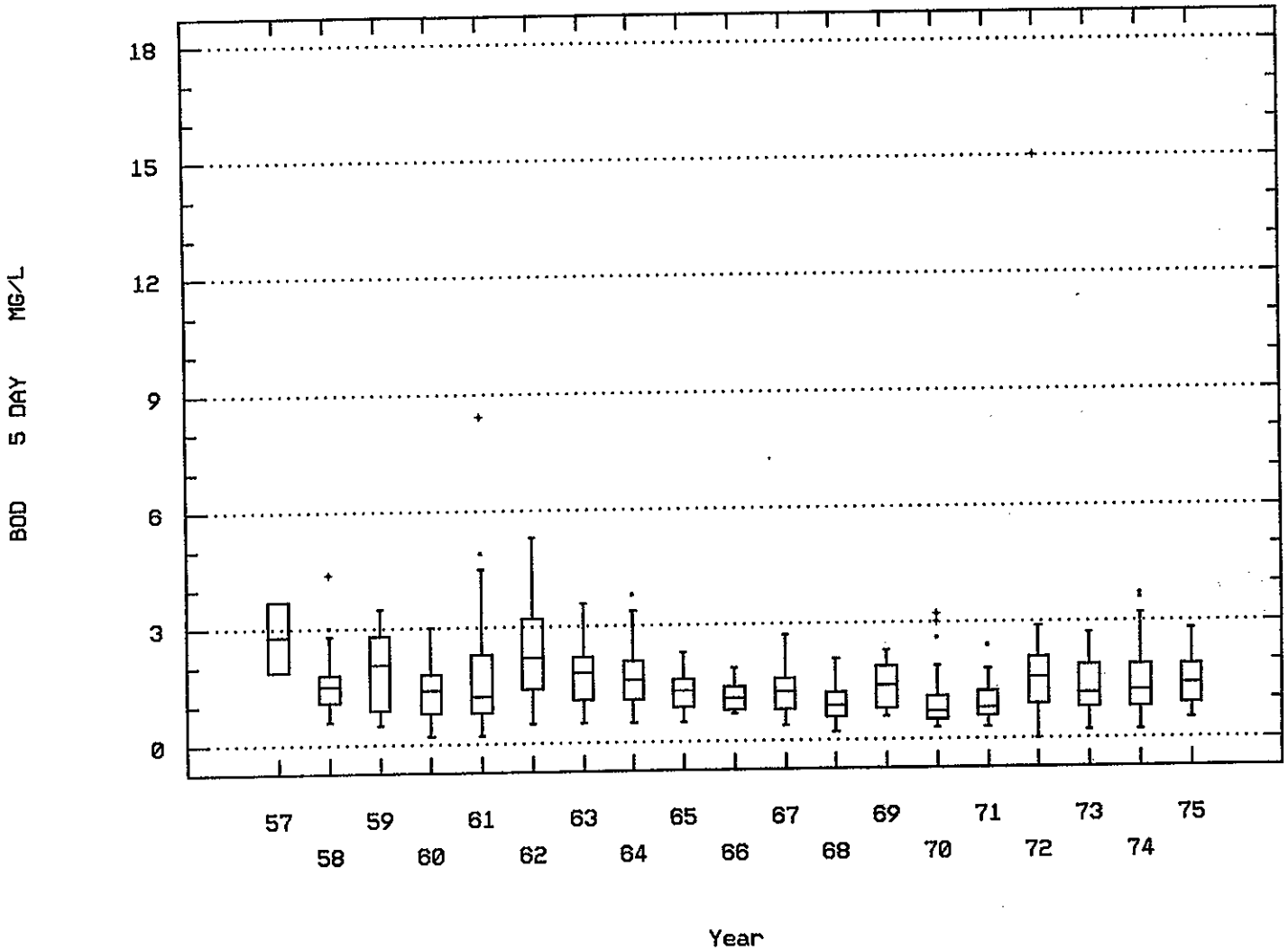
OXYGEN, DISSOLVED



MISSOURI RIVER AT YANKTON

Station: MNRR0029 Parameter Code: 00310

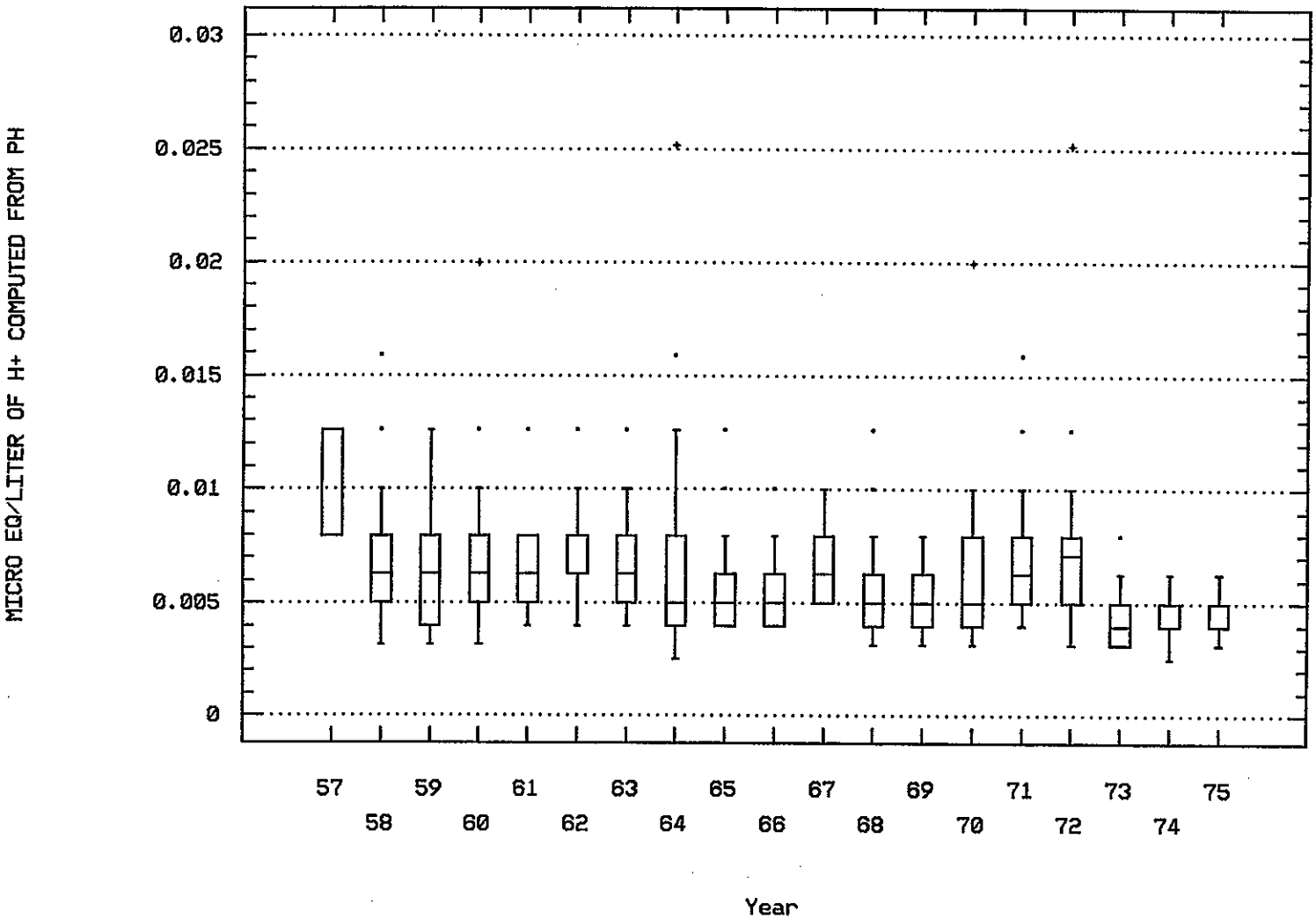
BOD, 5 DAY, 20 DEG C



MISSOURI RIVER AT YANKTON

Station: MNRR0029 Parameter Code: 00400

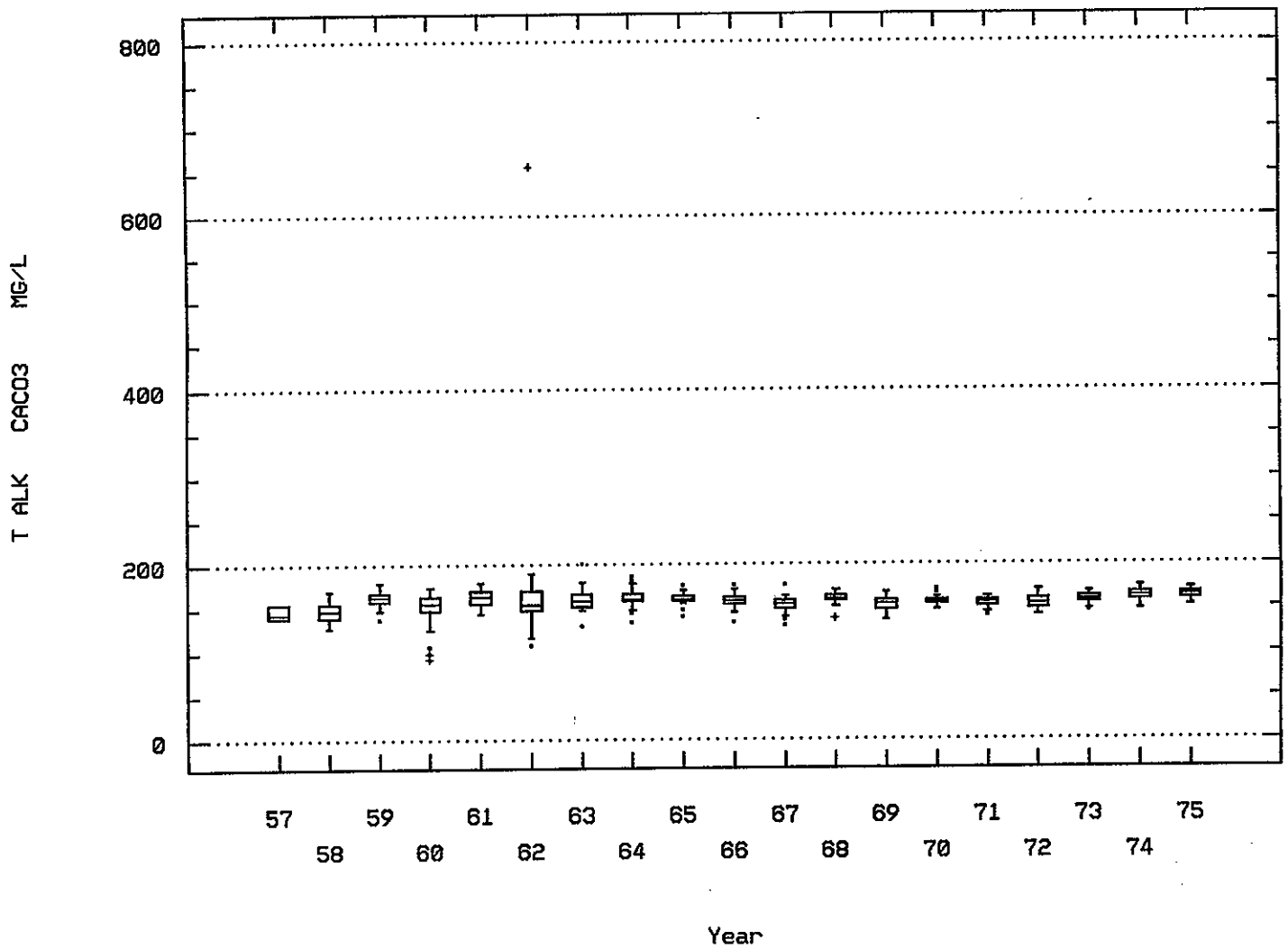
MICRO EQ/LITER OF H+ COMPUTED FROM PH



MISSOURI RIVER AT YANKTON

Station: MNRR0029 Parameter Code: 00410

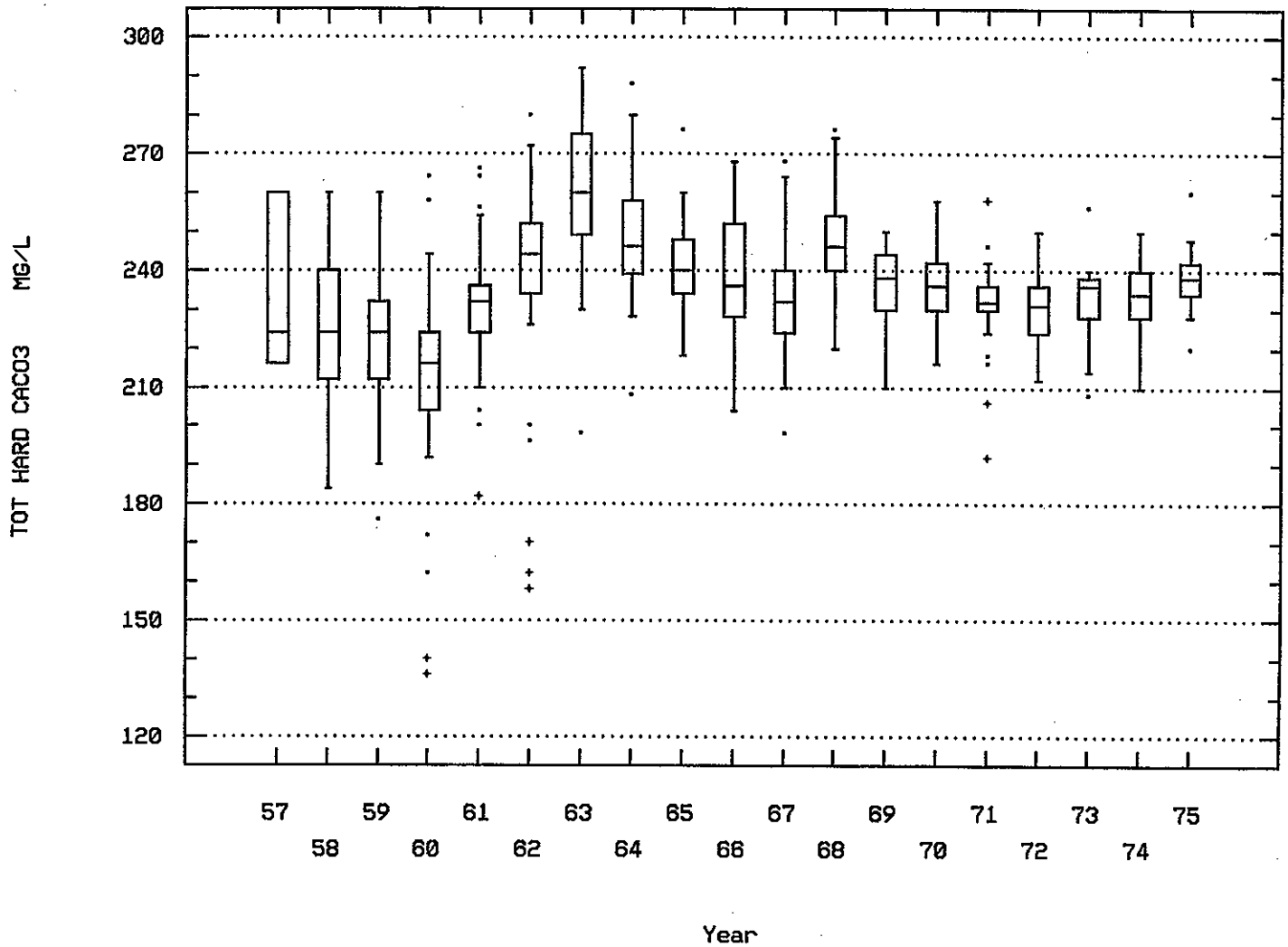
ALKALINITY, TOTAL (MG/L AS CACO3)



MISSOURI RIVER AT YANKTON

Station: MNRR0029 Parameter Code: 00900

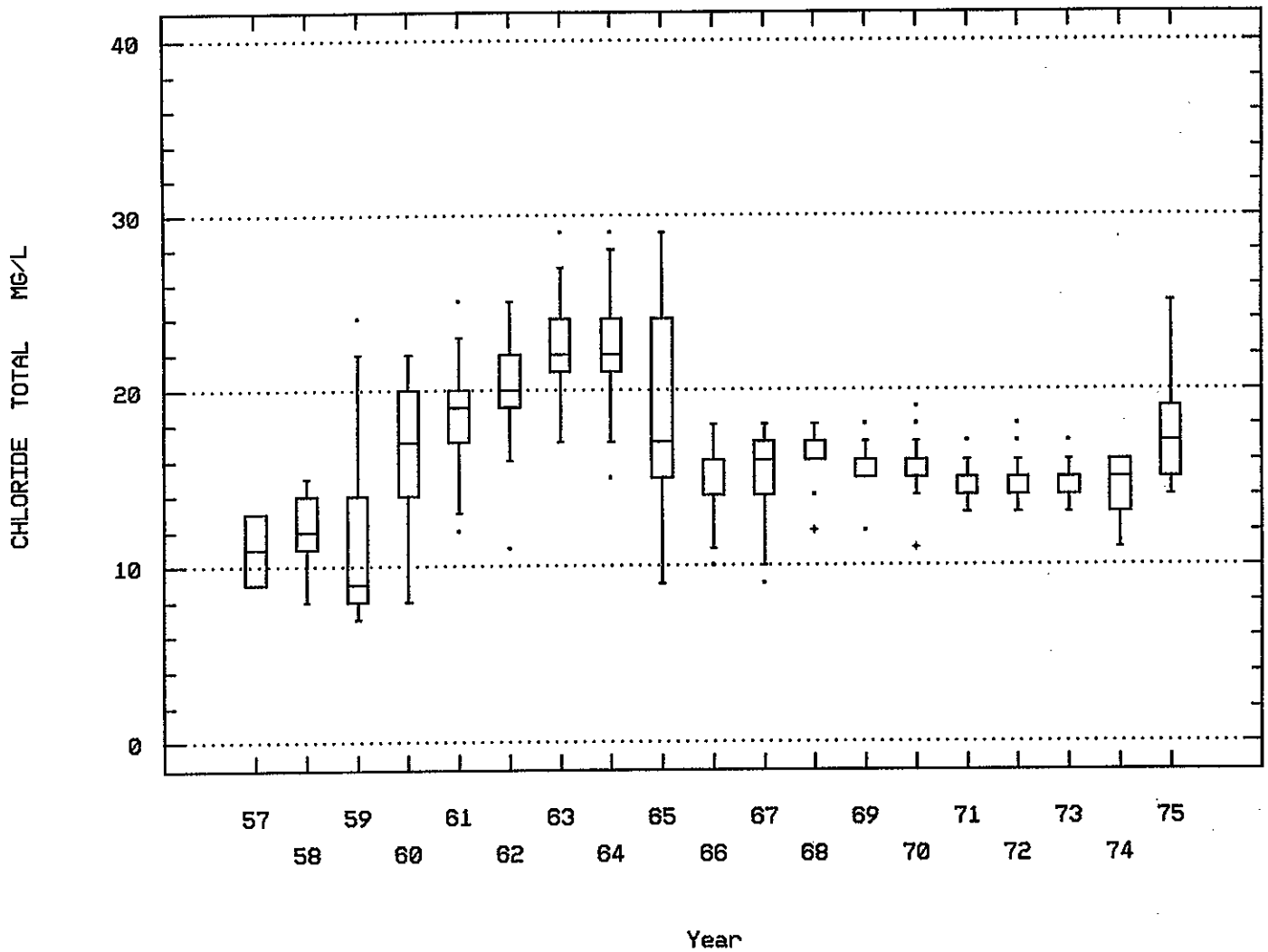
HARDNESS, TOTAL (MG/L AS CACO3)



MISSOURI RIVER AT YANKTON

Station: MNRR0029 Parameter Code: 00940

CHLORIDE,TOTAL IN WATER



MISSOURI RIVER AT YANKTON

Seasonal Analysis for Season #1: 11/20 to 1/14 - Station MNRR0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/16/57-08/28/75	114	2.5	2.807	9.1	0.	4.807	2.192	0.5	1.	4.	6.
00060 FLOW, STREAM, MEAN DAILY	CFS	12/16/57-09/30/68	79	8820.	10707.722	33400.	5780.	24168730.639	4916.17	7010.	8260.	12000.	16300.
00070 TURBIDITY, (JACKSON CANDLE UNITS)		12/16/57-08/17/70	81	20.	19.105	50.	10.	71.923	8.481	12.5	12.5	25.	29.
00075 TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)		10/07/68-08/28/75	27	10.	16.481	40.	0.	116.952	10.814	0.	10.	25.	30.
00080 COLOR (PLATINUM-COBALT UNITS)		02/24/58-08/28/75	101	20.	22.822	110.	0.	483.708	21.993	0.	5.	30.	50.
00300 OXYGEN, DISSOLVED	MG/L	12/16/57-08/28/75	106	13.35	13.19	16.6	8.8	1.616	1.271	11.77	12.5	13.8	14.46
00310 BOD, 5 DAY, 20 DEG C	MG/L	12/23/57-08/28/75	99	1.1	1.401	4.2	0.	0.83	0.911	0.5	0.8	1.9	2.7
00370 CHLORINE DEMAND, 1 HOUR (MG/L)		01/27/58-01/18/65	54	0.9	1.106	3.9	0.2	0.575	0.758	0.45	0.6	1.225	2.05
00380 CHLORINE DEMAND, 24 HOUR (MG/L)		01/27/58-01/18/65	54	2.15	2.367	5.7	0.8	1.141	1.068	1.	1.6	3.	3.95
00400 PH (STANDARD UNITS)		12/16/57-08/28/75	114	8.2	8.218	8.5	7.8	0.022	0.148	8.	8.1	8.3	8.4
00400 CONVERTED PH (STANDARD UNITS)		12/16/57-08/28/75	114	8.2	8.193	8.5	7.8	0.023	0.151	8.	8.1	8.3	8.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/16/57-08/28/75	114	0.006	0.006	0.016	0.003	0.	0.002	0.004	0.005	0.008	0.01
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	114	161.	161.632	200.	140.	93.35	9.662	148.	156.	168.	174.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		01/12/59-06/27/66	17	57.	50.765	99.	5.	1225.066	35.001	5.	16.	86.	91.
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		02/24/58-11/15/65	54	0.15	0.168	1.	0.1	0.016	0.125	0.1	0.1	0.2	0.2
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)		03/27/61-09/30/68	53	0.	0.042	0.1	0.	0.002	0.05	0.	0.	0.1	0.1
00900 HARDNESS, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	114	244.	246.026	288.	190.	328.256	18.118	222.	232.	260.	272.
00940 CHLORIDE,TOTAL IN WATER	MG/L	12/16/57-08/28/75	114	16.	16.737	29.	8.	17.027	4.126	12.5	14.	20.	24.
00945 SULFATE, TOTAL (MG/L AS SO4)		01/08/62-11/12/68	3	230.	235.	270.	205.	1075.	32.787	**	**	**	**
01070 PHOSPHORUS, TOTAL, SPECTROGRAPH METH (UG/L AS P)		10/01/62-07/01/71	5##	60.	87.7	175.	48.	2707.2	52.031	**	**	**	**
01080 STRONTIUM, DISSOLVED (UG/L AS SR)		10/01/62-07/01/71	6	387.5	391.167	536.	271.	7843.767	88.565	**	**	**	**
01501 ALPHA, TOTAL		11/04/57-01/01/71	21	4.	5.762	36.	0.	56.69	7.529	0.2	2.5	6.	12.
01502 ALPHA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	18	0.	1.278	6.	0.	3.624	1.904	0.	0.	2.25	5.1
01503 ALPHA, DISSOLVED		11/04/57-01/01/71	21	4.	5.429	36.	0.	57.557	7.587	0.2	2.	5.	12.
01504 ALPHA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	18	0.	1.167	5.	0.	2.735	1.654	0.	0.	2.25	4.1
01505 ALPHA, SUSPENDED		11/04/57-01/01/71	21	0.	0.333	5.	0.	1.233	1.111	0.	0.	0.	1.
01506 ALPHA, SUSPENDED, COUNTING ERROR		11/04/57-01/01/71	18	0.	0.389	4.	0.	0.958	0.979	0.	0.	0.25	1.3
03501 BETA, TOTAL		11/04/57-01/01/71	34	21.	22.176	58.	0.	209.301	14.467	4.	10.75	30.25	43.
03502 BETA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	25	10.	10.88	22.	3.	21.277	4.613	5.6	10.	10.	19.4
03503 BETA, DISSOLVED		11/04/57-01/01/71	34	19.	18.765	54.	0.	147.337	12.138	1.5	8.5	26.5	34.5
03504 BETA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	25	10.	10.	18.	3.	11.75	3.428	5.	10.	10.	15.4
03505 BETA, SUSPENDED		11/04/57-01/01/71	34	1.	3.412	26.	0.	35.522	5.96	0.	0.	4.	10.
03506 BETA, SUSPENDED, COUNTING ERROR		11/04/57-01/01/71	25	10.	8.28	13.	0.	14.543	3.814	1.	6.5	10.	11.4
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C		01/27/58-06/23/69	51	10.	66.	1800.	0.5	63217.31	251.431	1.	4.	48.	100.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3		01/27/58-06/23/69	51	1.	1.115	3.255	-0.301	0.557	0.746	0.	0.602	1.681	2.
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35				GEOMETRIC MEAN =	13.038								
32001 SAMPLE SIZE (GALLONS)		10/28/57-05/14/70	23	3440.	3826.522	12590.	1180.	4857841.897	2204.051	1934.	2410.	4580.	4948.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL		10/28/57-05/14/70	23	172.	189.565	509.	97.	7150.893	84.563	115.2	144.	221.	272.2
32004 CARBON ALCOHOL EXTRACTABLES		10/28/57-05/14/70	23	133.	152.043	445.	77.	5648.589	75.157	94.	110.	158.	223.4
32005 CARBON CHLOROFORM EXTRACTABLES		10/28/57-05/14/70	23	34.	37.522	72.	20.	226.897	15.063	21.2	26.	46.	64.6
32021 CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF		10/28/57-11/06/67	9	1.	1.111	2.	0.	0.611	0.782	0.	0.5	2.	2.
32022 CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF		10/28/57-11/06/67	9	8.	8.111	11.	5.	4.111	2.028	5.	6.5	10.	11.
32023 ACIDS, STRONG		10/28/57-11/06/67	9	1.	1.222	2.	1.	0.194	0.441	1.	1.	1.5	2.
32024 ACIDS, WEAK		10/28/57-11/06/67	9	2.	2.667	5.	2.	1.	1.	2.	2.	3.	5.
32025 BASES		10/28/57-11/06/67	9	1.	0.889	1.	0.	0.111	0.333	0.	1.	1.	1.
32026 NEUTRALS, TOTAL		10/28/57-11/06/67	9	9.	8.667	10.	7.	1.5	1.225	7.	7.5	10.	10.
32027 ALIPHATICS FRACTION OF NEUTRALS		10/28/57-11/06/67	9	1.	0.778	1.	0.	0.194	0.441	0.	0.5	1.	1.
32028 AROMATICS FRACTION OF NEUTRALS		10/28/57-11/06/67	9	1.	0.778	1.	0.	0.194	0.441	0.	0.5	1.	1.
32029 OXYGENATED COMPOUNDS FRACTION OF NEUTRALS		10/28/57-11/06/67	9	7.	6.778	9.	5.	2.194	1.481	5.	5.	8.	9.
60050 ALGAE, TOTAL (CELLS/ML)		10/02/61-11/01/67	14	2100.	3028.571	8200.	100.	6820659.341	2611.639	300.	1025.	5450.	7800.
60100 ALGAE, COCCOID BLUE-GREEN (CELLS/ML)		10/02/61-11/01/67	14	0.	2.857	20.	0.	52.747	7.263	0.	0.	0.	20.
60150 ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)		10/02/61-11/01/67	14	0.	12.143	70.	0.	433.516	20.821	0.	0.	20.	55.
60200 ALGAE, COCCOID GREEN (CELLS/ML)		10/02/61-11/01/67	14	75.	76.429	200.	0.	4640.11	68.118	0.	0.	122.5	190.
60250 ALGAE, FILAMENTOUS GREEN (CELLS/ML)		10/02/61-11/01/67	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60300 ALGAE, FLAGELLATE GREEN (CELLS/ML)		10/02/61-11/01/67	14	60.	288.571	1510.	0.	223428.571	472.682	0.	0.	355.	1345.
60350 ALGAE, FLAGELLATE OTHER (CELLS/ML)		10/02/61-11/01/67	14	30.	53.571	180.	0.	4286.264	65.47	0.	0.	92.5	170.
60400 DIATOMS, CENTRIC (/ML)		10/02/61-11/01/67	14	835.	1541.429	6720.	80.	3989028.571	1997.255	130.	337.5	1535.	6025.
60600 DIATOMS, PENNATE (/ML)		10/02/61-11/01/67	14	160.	1037.143	7490.	0.	4530360.44	2128.464	10.	50.	772.5	5600.

** - Less than 9 observations ## - Computed 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: 1/15 to 3/14 - Station MNRR0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/16/57-08/28/75	124	1.85	1.864	5.	0.	1.739	1.319	0.2	0.8	3.	4.
00060 FLOW, STREAM, MEAN DAILY	CFS	12/16/57-09/30/68	90	8525.	9592.444	19000.	4700.	13410142.272	3661.986	5904.	7170.	10200.	16490.
00070 TURBIDITY, (JACKSON CANDLE UNITS)		12/16/57-08/17/70	90	17.5	21.722	140.	0.	344.192	18.552	12.5	12.5	25.	39.
00075 TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)		10/07/68-08/28/75	30	17.5	18.167	40.	0.	157.73	12.559	0.5	10.	26.25	40.
00080 COLOR (PLATINUM-COBALT UNITS)		02/24/58-08/28/75	113	20.	22.788	160.	0.	656.669	25.626	0.	5.	30.	50.
00300 OXYGEN, DISSOLVED	MG/L	12/16/57-08/28/75	119	13.8	13.75	18.4	9.5	1.818	1.348	12.3	13.1	14.3	15.1
00310 BOD, 5 DAY, 20 DEG C	MG/L	12/23/57-08/28/75	119	1.2	1.434	4.6	0.3	0.698	0.835	0.6	0.9	1.9	2.7
00370 CHLORINE DEMAND, 1 HOUR (MG/L)		01/27/58-01/18/65	58	1.1	1.166	2.7	0.2	0.386	0.621	0.4	0.775	1.525	2.02
00380 CHLORINE DEMAND, 24 HOUR (MG/L)		01/27/58-01/18/65	58	3.1	3.	5.3	1.	0.916	0.957	1.58	2.2	3.825	4.1
00400 PH (STANDARD UNITS)		12/16/57-08/28/75	125	8.2	8.171	8.5	7.7	0.024	0.154	8.	8.1	8.3	8.4
00400 CONVERTED PH (STANDARD UNITS)		12/16/57-08/28/75	125	8.2	8.144	8.5	7.7	0.024	0.156	8.	8.1	8.3	8.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/16/57-08/28/75	125	0.006	0.007	0.02	0.003	0.	0.003	0.004	0.005	0.008	0.01
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	127	162.	162.142	190.	140.	95.885	9.792	150.	156.	168.	174.4
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		01/12/59-06/27/66	26	76.5	90.192	377.	14.	7321.282	85.564	18.7	28.5	109.75	219.2
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		02/24/58-11/15/65	57	0.2	0.169	0.2	0.02	0.002	0.046	0.1	0.125	0.2	0.2
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)		03/27/61-09/30/68	56	0.	0.032	0.3	0.	0.003	0.058	0.	0.	0.1	0.1
00900 HARDNESS, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	127	238.	239.181	292.	196.	383.705	19.588	215.6	224.	254.	264.
00940 CHLORIDE,TOTAL IN WATER	MG/L	12/16/57-08/28/75	126	16.	16.524	29.	7.	19.067	4.367	12.	14.	19.	23.
00945 SULFATE, TOTAL (MG/L AS SO4)		01/08/62-11/12/68	9	200.	195.	215.	150.	343.75	18.54	150.	192.5	202.5	215.
01501 ALPHA, TOTAL		11/04/57-01/01/71	20	4.	4.85	13.	0.	10.766	3.281	1.1	2.25	6.75	10.8
01502 ALPHA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	16	0.	1.688	6.	0.	5.429	2.33	0.	0.	4.	5.3
01503 ALPHA, DISSOLVED		11/04/57-01/01/71	20	4.	4.1	12.	0.	7.253	2.693	1.1	2.	5.75	7.8
01504 ALPHA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	16	0.	1.438	5.	0.	3.996	1.999	0.	0.	3.	5.
01505 ALPHA, SUSPENDED		11/04/57-01/01/71	20	0.	0.75	5.	0.	1.987	1.41	0.	0.	1.	3.8
01506 ALPHA, SUSPENDED, COUNTING ERROR		11/04/57-01/01/71	16	0.	0.813	5.	0.	2.029	1.424	0.	0.	1.	3.6
03501 BETA, TOTAL		11/04/57-01/01/71	35	22.	24.343	83.	0.	344.585	18.563	1.6	10.	34.	48.6
03502 BETA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	29	14.	14.586	30.	4.	35.894	5.991	10.	10.	20.	22.
03503 BETA, DISSOLVED		11/04/57-01/01/71	35	17.	16.8	43.	0.	120.753	10.989	0.6	9.	24.	29.2
03504 BETA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	29	10.	11.69	20.	3.	14.079	3.752	10.	10.	14.	18.
03505 BETA, SUSPENDED		11/04/57-01/01/71	35	5.	7.543	60.	0.	147.255	12.135	0.	0.	8.	19.6
03506 BETA, SUSPENDED, COUNTING ERROR		11/04/57-01/01/71	29	10.	10.276	20.	0.	15.421	3.927	3.	10.	11.5	14.
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C		01/27/58-06/23/69	71##	10.	92.092	5000.	0.5	350002.438	591.61	1.	3.5	31.5	50.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3		01/27/58-06/23/69	71##	1.	0.994	3.699	-0.301	0.513	0.716	0.	0.544	1.498	1.699
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35				GEOMETRIC MEAN =	9.872								
32001 SAMPLE SIZE (GALLONS)		10/28/57-05/14/70	27	3930.	3704.074	8340.	1280.	1897548.148	1377.515	2056.	2840.	4350.	5000.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL		10/28/57-05/14/70	27	159.	171.	272.	78.	2668.462	51.657	122.6	132.	211.	268.2
32004 CARBON ALCOHOL EXTRACTABLES		10/28/57-05/14/70	27	123.	134.852	218.	52.	1923.9	43.862	90.6	101.	162.	214.
32005 CARBON CHLOROFORM EXTRACTABLES		10/28/57-05/14/70	27	36.	36.852	58.	18.	129.9	11.397	19.8	29.	49.	55.
32021 CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF		10/28/57-11/06/67	10	1.5	1.9	4.	1.	1.211	1.101	1.	1.	3.	3.9
32022 CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF		10/28/57-11/06/67	10	10.5	10.6	17.	7.	9.6	3.098	7.	7.75	12.25	16.6
32023 ACIDS, STRONG		10/28/57-11/06/67	10	2.5	2.5	4.	1.	1.167	1.08	1.	1.75	3.25	4.
32024 ACIDS, WEAK		10/28/57-11/06/67	10	3.5	3.5	5.	2.	1.611	1.269	2.	2.	5.	5.
32025 BASES		10/28/57-11/06/67	10	1.	1.	2.	0.	0.222	0.471	0.1	1.	1.	1.9
32026 NEUTRALS, TOTAL		10/28/57-11/06/67	10	9.5	10.3	16.	6.	12.233	3.498	6.1	7.75	13.	16.
32027 ALIPHATICS FRACTION OF NEUTRALS		10/28/57-11/06/67	10	1.	1.2	2.	1.	0.178	0.422	1.	1.	1.25	2.
32028 AROMATICS FRACTION OF NEUTRALS		10/28/57-11/06/67	10	1.	0.9	1.	0.	0.1	0.316	0.1	1.	1.	1.
32029 OXYGENATED COMPOUNDS FRACTION OF NEUTRALS		10/28/57-11/06/67	10	7.	7.3	12.	2.	10.011	3.164	2.2	5.5	9.75	12.
60050 ALGAE, TOTAL (CELLS/ML)		10/02/61-11/01/67	14	2700.	5557.143	25800.	1100.	45790329.67	6766.855	1600.	2275.	5800.	18950.
60100 ALGAE, COCCOID BLUE-GREEN (CELLS/ML)		10/02/61-11/01/67	14	0.	5.	50.	0.	196.154	14.005	0.	0.	0.	35.
60150 ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)		10/02/61-11/01/67	14	0.	25.	170.	0.	2626.923	51.254	0.	0.	30.	135.
60200 ALGAE, COCCOID GREEN (CELLS/ML)		10/02/61-11/01/67	14	75.	118.571	560.	0.	20936.264	144.694	0.	40.	157.5	395.
60250 ALGAE, FILAMENTOUS GREEN (CELLS/ML)		10/02/61-11/01/67	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60300 ALGAE, FLAGELLATE GREEN (CELLS/ML)		10/02/61-11/01/67	14	240.	314.286	970.	0.	94564.835	307.514	0.	77.5	445.	945.
60350 ALGAE, FLAGELLATE OTHER (CELLS/ML)		10/02/61-11/01/67	14	60.	1222.857	14500.	0.	14822714.286	3850.028	0.	0.	235.	8150.
60400 DIATOMS, CENTRIC (/ML)		10/02/61-11/01/67	14	1725.	3015.714	10910.	220.	9764410.989	3124.806	375.	1315.	4107.5	9235.
60600 DIATOMS, PENNATE (/ML)		10/02/61-11/01/67	14	700.	850.714	3110.	50.	910622.527	954.265	70.	200.	840.	2995.

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

Seasonal Analysis for Season #3: 3/15 to 7/14 - Station MNRR0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/16/57-08/28/75	278	13.9	13.311	25.8	0.1	52.582	7.251	2.99	6.9	19.825	22.91
00060 FLOW, STREAM, MEAN DAILY	CFS	12/16/57-09/30/68	190	25100.	24071.526	36200.	6300.	44542185.489	6673.993	12220.	21475.	28075.	32170.
00070 TURBIDITY, (JACKSON CANDLE UNITS)		12/16/57-08/17/70	211	20.	25.96	200.	5.	575.116	23.982	10.	12.5	30.	40.
00075 TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)		10/07/68-08/28/75	66	20.	22.348	80.	2.	194.077	13.931	10.	10.	30.	40.
00080 COLOR (PLATINUM-COBALT UNITS)		02/24/58-08/28/75	260	30.	32.827	200.	0.	1077.788	32.83	5.	5.	50.	70.
00300 OXYGEN, DISSOLVED	MG/L	12/16/57-08/28/75	263	10.	10.576	19.2	7.2	5.357	2.315	8.	8.8	12.2	13.6
00310 BOD, 5 DAY, 20 DEG C	MG/L	12/23/57-08/28/75	277	1.5	1.748	15.	0.2	1.617	1.272	0.7	1.	2.2	3.
00370 CHLORINE DEMAND, 1 HOUR (MG/L)		01/27/58-01/18/65	120	1.4	1.548	4.7	0.3	0.876	0.936	0.51	0.9	1.8	2.8
00380 CHLORINE DEMAND, 24 HOUR (MG/L)		01/27/58-01/18/65	119	3.9	3.888	7.	1.4	1.36	1.166	2.4	3.	4.8	5.6
00400 PH (STANDARD UNITS)		12/16/57-08/28/75	274	8.3	8.245	8.6	7.7	0.026	0.161	8.	8.1	8.4	8.4
00400 CONVERTED PH (STANDARD UNITS)		12/16/57-08/28/75	274	8.3	8.213	8.6	7.7	0.027	0.164	8.	8.1	8.4	8.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/16/57-08/28/75	274	0.005	0.006	0.02	0.003	0.	0.003	0.004	0.004	0.008	0.01
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	275	158.	156.611	656.	92.	1049.728	32.4	140.	150.	162.	166.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		01/12/59-06/27/66	58	44.	56.069	309.	6.	2280.627	47.756	13.	22.75	80.	88.1
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		02/24/58-11/15/65	137	0.2	0.192	0.4	0.1	0.004	0.063	0.1	0.15	0.2	0.3
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)		03/27/61-09/30/68	134	0.	0.046	0.2	0.	0.003	0.057	0.	0.	0.1	0.1
00900 HARDNESS, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	280	232.	230.646	286.	136.	469.176	21.66	208.	220.5	244.	254.
00940 CHLORIDE,TOTAL IN WATER	MG/L	12/16/57-08/28/75	277	16.	16.57	28.	7.	20.173	4.491	11.	14.	20.	23.
00945 SULFATE, TOTAL (MG/L AS SO4)		01/08/62-11/12/68	17	180.	167.353	210.	36.	2057.368	45.358	95.2	155.	202.	206.
01070 PHOSPHORUS, TOTAL, SPECTROGRAPH METH (UG/L AS P)		10/01/62-07/01/71	9##	59.5	46.889	60.	12.5	390.174	19.753	12.5	30.	60.	60.
01080 STRONTIUM, DISSOLVED (UG/L AS SR)		10/01/62-07/01/71	9	300.	305.889	535.	170.	10022.861	100.114	170.	242.5	327.	535.
01501 ALPHA, TOTAL		11/04/57-01/01/71	38	4.	3.895	7.	0.	2.475	1.573	2.	3.	5.	6.
01502 ALPHA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	29	2.	2.172	7.	0.	2.505	1.583	0.	1.5	3.	4.
01503 ALPHA, DISSOLVED		11/04/57-01/01/71	38	3.5	3.658	7.	0.	2.015	1.419	2.	3.	5.	5.1
01504 ALPHA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	29	2.	2.138	7.	0.	2.409	1.552	0.	1.5	3.	4.
01505 ALPHA, SUSPENDED		11/04/57-01/01/71	38	0.	0.237	2.	0.	0.24	0.49	0.	0.	0.	1.
01506 ALPHA, SUSPENDED, COUNTING ERROR		11/04/57-01/01/71	29	0.	0.379	2.	0.	0.315	0.561	0.	0.	1.	1.
03501 BETA, TOTAL		11/04/57-01/01/71	76	34.	39.316	150.	0.	957.792	30.948	4.7	17.25	53.75	70.6
03502 BETA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	64	10.	12.422	40.	0.	51.137	7.151	3.	10.	19.	20.
03503 BETA, DISSOLVED		11/04/57-01/01/71	76	28.	31.934	110.	0.	567.476	23.822	3.7	16.	43.	66.3
03504 BETA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	64	10.	10.953	30.	0.	33.887	5.821	3.	9.	15.	20.
03505 BETA, SUSPENDED		11/04/57-01/01/71	76	2.	7.382	64.	0.	146.879	12.119	0.	0.	8.	22.6
03506 BETA, SUSPENDED, COUNTING ERROR		11/04/57-01/01/71	64	10.	7.453	20.	0.	20.283	4.504	1.	2.75	10.	11.5
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C		01/27/58-06/23/69	144	31.5	133.313	4200.	0.5	159801.723	399.752	5.	15.	95.	235.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3		01/27/58-06/23/69	144	1.498	1.573	3.623	-0.301	0.443	0.666	0.699	1.176	1.976	2.37
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35			GEOMETRIC MEAN =		37.392								
32001 SAMPLE SIZE (GALLONS)		10/28/57-05/14/70	48	3955.	4009.792	13380.	1000.	4493963.785	2119.897	1760.	2697.5	4852.5	5231.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL		10/28/57-05/14/70	49	157.	176.327	399.	88.	4091.933	63.968	118.	133.5	211.5	268.
32004 CARBON ALCOHOL EXTRACTABLES		10/28/57-05/14/70	49	112.	128.224	287.	60.	2468.178	49.681	81.	93.5	148.	210.
32005 CARBON CHLOROFORM EXTRACTABLES		10/28/57-05/14/70	49	38.	48.102	112.	24.	525.844	22.931	25.	32.	58.	85.
32021 CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF		10/28/57-11/06/67	14	1.5	2.214	9.	0.	5.566	2.359	0.	1.	3.	7.
32022 CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF		10/28/57-11/06/67	14	13.	14.286	31.	3.	55.297	7.436	5.5	8.75	19.25	27.5
32023 ACIDS, STRONG		10/28/57-11/06/67	14	4.	3.857	8.	1.	4.747	2.179	1.	2.	5.25	7.5
32024 ACIDS, WEAK		10/28/57-11/06/67	14	5.5	6.214	14.	3.	9.412	3.068	3.	3.75	8.	11.5
32025 BASES		10/28/57-11/06/67	14	1.	1.071	2.	1.	0.071	0.267	1.	1.	1.	1.5
32026 NEUTRALS, TOTAL		10/28/57-11/06/67	14	12.5	14.	30.	8.	36.308	6.026	8.	9.75	18.	25.
32027 ALIPHATICS FRACTION OF NEUTRALS		10/28/57-11/06/67	14	1.	1.071	2.	0.	0.379	0.616	0.	1.	1.25	2.
32028 AROMATICS FRACTION OF NEUTRALS		10/28/57-11/06/67	14	1.	0.929	2.	0.	0.225	0.475	0.	1.	1.	1.5
32029 OXYGENATED COMPOUNDS FRACTION OF NEUTRALS		10/28/57-11/06/67	14	10.	11.071	25.	6.	24.379	4.938	6.5	7.	13.25	20.
60050 ALGAE, TOTAL (CELLS/ML)		10/02/61-11/01/67	34	3000.	7052.941	43000.	300.	107293475.936	10358.256	600.	975.	8000.	20400.
60100 ALGAE, COCCOID BLUE-GREEN (CELLS/ML)		10/02/61-11/01/67	34	0.	38.235	1280.	0.	48154.367	219.441	0.	0.	0.	0.
60150 ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)		10/02/61-11/01/67	34	0.	18.529	250.	0.	2528.075	50.28	0.	0.	20.	75.
60200 ALGAE, COCCOID GREEN (CELLS/ML)		10/02/61-11/01/67	34	110.	228.529	1300.	0.	82164.439	286.643	10.	40.	330.	670.
60250 ALGAE, FILAMENTOUS GREEN (CELLS/ML)		10/02/61-11/01/67	34	0.	1.765	40.	0.	57.398	7.576	0.	0.	0.	0.
60300 ALGAE, FLAGELLATE GREEN (CELLS/ML)		10/02/61-11/01/67	34	90.	379.706	5360.	0.	931239.305	965.007	0.	40.	222.5	965.
60350 ALGAE, FLAGELLATE OTHER (CELLS/ML)		10/02/61-11/01/67	34	40.	933.235	16630.	0.	10690537.701	3269.639	0.	15.	252.5	1330.
60400 DIATOMS, CENTRIC (/ML)		10/02/61-11/01/67	34	405.	2164.706	22870.	0.	18926795.365	4350.494	90.	130.	2730.	5310.
60600 DIATOMS, PENNATE (/ML)		10/02/61-11/01/67	34	1055.	3290.	13800.	0.	16069345.455	4008.659	155.	357.5	5195.	10985.

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

Seasonal Analysis for Season #4: 7/15 to 11/19 - Station MNRR0029

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/16/57-08/28/75	278	19.95	18.094	26.8	0.4	39.281	6.267	8.78	13.075	23.325	24.51
00060 FLOW, STREAM, MEAN DAILY	CFS	12/16/57-09/30/68	183	29100.	27942.077	38100.	5950.	36991661.599	6082.077	21940.	27100.	30900.	33660.
00070 TURBIDITY, (JACKSON CANDLE UNITS)		12/16/57-08/17/70	195	15.	23.154	400.	5.	1078.211	32.836	12.5	12.5	25.	30.
00075 TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)		10/07/68-08/28/75	81	10.	15.926	40.	0.	90.694	9.523	5.	10.	20.	30.
00080 COLOR (PLATINUM-COBALT UNITS)		02/24/58-08/28/75	250	20.	29.5	140.	0.	713.303	26.708	5.	5.	50.	70.
00300 OXYGEN, DISSOLVED	MG/L	12/16/57-08/28/75	267	9.1	9.388	13.4	5.7	2.329	1.526	7.58	8.3	10.5	11.7
00310 BOD, 5 DAY, 20 DEG C	MG/L	12/23/57-08/28/75	268	1.1	1.224	5.2	0.2	0.495	0.703	0.6	0.8	1.5	2.
00370 CHLORINE DEMAND, 1 HOUR (MG/L)		01/27/58-01/18/65	122	1.2	1.336	3.8	0.3	0.567	0.753	0.6	0.8	1.6	2.3
00380 CHLORINE DEMAND, 24 HOUR (MG/L)		01/27/58-01/18/65	122	3.4	3.529	7.	1.	1.657	1.287	2.	2.7	4.125	5.44
00400 PH (STANDARD UNITS)		12/16/57-08/28/75	276	8.3	8.275	8.6	7.6	0.019	0.138	8.1	8.2	8.4	8.4
00400 CONVERTED PH (STANDARD UNITS)		12/16/57-08/28/75	276	8.3	8.25	8.6	7.6	0.02	0.14	8.1	8.2	8.4	8.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/16/57-08/28/75	276	0.005	0.006	0.025	0.003	0.	0.002	0.004	0.004	0.006	0.008
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	278	158.	157.496	186.	136.	52.684	7.258	148.	154.	160.5	166.2
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		01/12/59-06/27/66	49	67.	73.898	396.	17.	3998.885	63.237	26.	39.5	80.	108.
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		02/24/58-11/15/65	140	0.15	0.15	0.3	0.1	0.002	0.047	0.1	0.1	0.2	0.2
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)		03/27/61-09/30/68	132	0.	0.04	0.1	0.	0.002	0.049	0.	0.	0.1	0.1
00900 HARDNESS, TOTAL (MG/L AS CACO3)		12/16/57-08/28/75	277	236.	234.444	278.	192.	170.53	13.059	217.6	228.	242.	250.
00940 CHLORIDE,TOTAL IN WATER	MG/L	12/16/57-08/28/75	277	16.	16.621	28.	8.	14.207	3.769	12.	14.	19.5	22.
00945 SULFATE, TOTAL (MG/L AS SO4)		01/08/62-11/12/68	9	210.	183.111	220.	0.	4803.361	69.306	0.	192.5	211.5	220.
01070 PHOSPHORUS, TOTAL, SPECTROGRAPH METH (UG/L AS P)		10/01/62-07/01/71	3##	48.	39.167	59.5	10.	671.083	25.905	**	**	**	**
01080 STRONTIUM, DISSOLVED (UG/L AS SR)		10/01/62-07/01/71	3	343.	373.333	465.	312.	6542.333	80.885	**	**	**	**
01501 ALPHA, TOTAL		11/04/57-01/01/71	33	4.	3.939	11.	0.	6.559	2.561	0.4	2.	5.	7.6
01502 ALPHA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	25	3.	2.	6.	0.	3.25	1.803	0.	0.	3.	4.
01503 ALPHA, DISSOLVED		11/04/57-01/01/71	33	3.	3.424	11.	0.	5.189	2.278	0.4	2.	4.	6.
01504 ALPHA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	25	3.	2.	6.	0.	3.25	1.803	0.	0.	3.	4.
01505 ALPHA, SUSPENDED		11/04/57-01/01/71	33	0.	0.515	6.	0.	1.383	1.176	0.	0.	1.	1.
01506 ALPHA, SUSPENDED, COUNTING ERROR		11/04/57-01/01/71	25	0.	0.44	1.	0.	0.257	0.507	0.	0.	1.	1.
03501 BETA, TOTAL		11/04/57-01/01/71	76	31.5	33.197	171.	0.	723.627	26.9	1.	16.	48.	62.2
03502 BETA, TOTAL, COUNTING ERROR		11/04/57-01/01/71	58	10.	10.931	25.	0.	56.03	7.485	0.	6.	18.	22.1
03503 BETA, DISSOLVED		11/04/57-01/01/71	76	27.	27.382	93.	0.	376.452	19.402	0.	12.25	38.75	50.3
03504 BETA, DISSOLVED, COUNTING ERROR		11/04/57-01/01/71	58	10.	9.397	21.	0.	38.77	6.227	0.	5.	15.	17.1
03505 BETA, SUSPENDED		11/04/57-01/01/71	76	2.5	5.816	117.	0.	197.512	14.054	0.	0.	6.	14.
03506 BETA, SUSPENDED, COUNTING ERROR		11/04/57-01/01/71	58	10.	6.828	18.	0.	27.724	5.265	0.	0.	10.	12.
31503 COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C		01/27/58-06/23/69	152	44.5	253.707	14000.	1.	1379537.356	1174.537	4.65	11.	123.75	473.
31503 LOG COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,3		01/27/58-06/23/69	152	1.648	1.66	4.146	0.	0.534	0.731	0.667	1.037	2.092	2.673
31503 GM COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35				GEOMETRIC MEAN =	45.723								
32001 SAMPLE SIZE (GALLONS)		10/28/57-05/14/70	51	4480.	4673.549	13520.	1321.	4398597.173	2097.283	2922.	3530.	5000.	5262.
32003 CARBON CHLOROFORM AND CARBON ALCOHOL EXTRS.,TOTAL		10/28/57-05/14/70	51	130.	133.333	312.	68.	1751.307	41.849	89.4	103.	152.	181.8
32004 CARBON ALCOHOL EXTRACTABLES		10/28/57-05/14/70	51	92.	100.353	226.	51.	1162.113	34.09	66.	77.	120.	149.6
32005 CARBON CHLOROFORM EXTRACTABLES		10/28/57-05/14/70	51	31.	32.98	86.	12.	201.42	14.192	18.	23.	38.	52.
32021 CARBON CHLOROFORM EXTRACTS, ETHER INSOLUBLES OF		10/28/57-11/06/67	19	1.	1.053	3.	0.	0.608	0.78	0.	1.	1.	2.
32022 CARBON CHLOROFORM EXTRACTS, WATER SOLUBLES OF		10/28/57-11/06/67	19	10.	10.158	17.	3.	14.918	3.862	5.	7.	13.	17.
32023 ACIDS, STRONG		10/28/57-11/06/67	19	2.	2.526	5.	1.	1.485	1.219	1.	2.	4.	4.
32024 ACIDS, WEAK		10/28/57-11/06/67	19	3.	3.368	6.	2.	1.468	1.212	2.	2.	4.	5.
32025 BASES		10/28/57-11/06/67	19	1.	1.211	3.	1.	0.287	0.535	1.	1.	1.	2.
32026 NEUTRALS, TOTAL		10/28/57-11/06/67	19	10.	9.895	16.	5.	5.766	2.401	6.	9.	11.	12.
32027 ALIPHATICS FRACTION OF NEUTRALS		10/28/57-11/06/67	19	1.	1.105	3.	0.	0.544	0.737	0.	1.	1.	2.
32028 AROMATICS FRACTION OF NEUTRALS		10/28/57-11/06/67	19	1.	0.947	2.	0.	0.164	0.405	0.	1.	1.	1.
32029 OXYGENATED COMPOUNDS FRACTION OF NEUTRALS		10/28/57-11/06/67	19	8.	7.368	12.	4.	4.135	2.033	4.	6.	9.	9.
60050 ALGAE, TOTAL (CELLS/ML)		10/02/61-11/01/67	39	1200.	2502.564	17600.	0.	11235519.568	3351.943	400.	800.	2300.	6900.
60100 ALGAE, COCCOID BLUE-GREEN (CELLS/ML)		10/02/61-11/01/67	39	0.	10.513	140.	0.	668.151	25.849	0.	0.	20.	40.
60150 ALGAE, FILAMENTOUS BLUE-GREEN (CELLS/ML)		10/02/61-11/01/67	39	0.	12.564	230.	0.	1809.042	42.533	0.	0.	0.	20.
60200 ALGAE, COCCOID GREEN (CELLS/ML)		10/02/61-11/01/67	39	250.	325.897	1120.	0.	91914.305	303.174	20.	110.	390.	940.
60250 ALGAE, FILAMENTOUS GREEN (CELLS/ML)		10/02/61-11/01/67	39	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
60300 ALGAE, FLAGELLATE GREEN (CELLS/ML)		10/02/61-11/01/67	39	220.	622.564	6530.	0.	1614698.516	1270.708	0.	40.	640.	1740.
60350 ALGAE, FLAGELLATE OTHER (CELLS/ML)		10/02/61-11/01/67	39	0.	21.026	210.	0.	1846.289	42.968	0.	0.	20.	60.
60400 DIATOMS, CENTRIC (/ML)		10/02/61-11/01/67	39	400.	945.641	6120.	20.	1861446.289	1364.348	100.	220.	1130.	2860.
60600 DIATOMS, PENNATE (/ML)		10/02/61-11/01/67	39	170.	553.846	10970.	0.	3151487.449	1775.243	20.	50.	330.	730.

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

Station Inventory for Station: MNRR0030

NPS Station ID: MNRR0030 LAT/LON: 42.844865/ -97.405560 Agency: 21NEB001 Date Created: / /
Location: BEAVER CREEK NEAR MENOMINEE (NW) FIPS State/County: 31027 NEBRASKA/CEDAR
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 301198
RMI-Indexes: 4250310 000000 Within Park Boundary: No
RMI-Miles: 0972.42 0030.00
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: LOWER MISSOURI ECO Region:
RF1 Index: 10170101066 RF1 Mile Point: 1.430 Distance from RF1: 1.20 On/Off RF1: ON
RF3 Index: 10150001012600.00 RF3 Mile Point: 0.18 Distance from RF3: 0.02 On/Off RF3:
Description:
SW 1/4 OF SW 1/4, SEC. 11, T33N,R01W, CEDAR COUNTY, 8 M. N. JCT. HWY. 1 & 81 ON HWY. 81, AND 0.25 M. W. ON CO. RD. BR.

Parameter Inventory for Station: MNRR0030

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		11/29/73-11/29/77	26	11.5	12.654	33.5	0.	111.592	10.564	0.28	2.625	21.125	29.15
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		11/29/73-11/29/77	25	12.	12.668	35.	-6.7	133.971	11.575	3.32	7.6	20.5	30.8
00032 CLOUD COVER (PERCENT)		11/29/73-12/14/76	21	10.	33.333	100.	0.	1573.333	39.665	0.	0.	70.	100.
00060 FLOW, STREAM, MEAN DAILY	CFS	01/13/76-09/21/77	6	0.	0.	0.	0.	0.	0.	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	07/19/77-07/19/77	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)		11/29/73-11/29/77	26	11.5	14.908	68.	1.5	216.666	14.72	2.77	5.75	15.25	35.3
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		11/29/73-11/29/77	26	990.	992.923	1260.	440.	32453.754	180.149	731.3	927.5	1110.	1213.
00300 OXYGEN, DISSOLVED	MG/L	11/29/73-11/29/77	26	11.3	11.308	15.6	7.6	4.278	2.068	8.07	9.5	12.9	14.31
00310 BOD, 5 DAY, 20 DEG C	MG/L	02/04/74-11/29/77	23	2.3	2.852	7.2	0.5	3.262	1.806	1.24	1.6	3.6	6.62
00340 COD, .25N K2CR2O7	MG/L	02/04/74-11/29/77	24	15.5	25.125	132.	0.	835.071	28.898	0.	8.	39.75	56.5
00400 PH (STANDARD UNITS)		02/04/74-11/29/77	24	8.05	8.042	9.	6.9	0.147	0.383	7.65	7.9	8.2	8.55
00400 CONVERTED PH (STANDARD UNITS)		02/04/74-11/29/77	24	8.047	7.836	9.	6.9	0.191	0.437	7.65	7.9	8.2	8.55
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		02/04/74-11/29/77	24	0.009	0.015	0.126	0.001	0.001	0.024	0.003	0.006	0.013	0.023
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		11/29/73-07/09/75	13	295.	307.615	392.	255.	1855.09	43.071	257.4	274.5	328.5	389.6
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		11/29/73-11/29/77	26	784.5	774.231	1110.	506.	24601.945	156.85	539.2	678.	850.75	996.4
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		02/23/76-11/29/77	13	33.	44.615	112.	4.	1527.59	39.084	4.4	9.5	75.5	110.8
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		02/23/76-11/29/77	12	0.005	0.119	0.6	0.	0.043	0.208	0.	0.	0.123	0.57
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		11/29/73-11/29/77	25	0.4	0.48	1.6	0.	0.154	0.393	0.1	0.2	0.7	1.06
00660 PHOSPHATE, ORTHO (MG/L AS PO4)		02/23/76-11/29/77	12	0.1	0.103	0.3	0.02	0.006	0.079	0.023	0.035	0.1	0.27
00900 HARDNESS, TOTAL (MG/L AS CACO3)		11/29/73-07/09/75	13	553.	569.462	836.	285.	25494.603	159.67	310.2	473.	697.	810.8
00915 CALCIUM, DISSOLVED (MG/L AS CA)		11/29/73-07/09/75	13	176.	182.231	286.	68.	3969.526	63.004	80.	143.5	231.	277.6
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		11/29/73-07/09/75	13	28.	27.769	30.	25.	2.026	1.423	25.4	27.	28.5	30.
00930 SODIUM, DISSOLVED (MG/L AS NA)		11/29/73-11/29/77	26	24.	24.346	29.	21.	5.195	2.279	21.	22.75	26.25	27.3
00931 SODIUM ADSORPTION RATIO		11/29/73-07/09/75	13	0.4	0.446	0.6	0.3	0.011	0.105	0.3	0.4	0.55	0.6
00935 POTASSIUM, DISSOLVED (MG/L AS K)		11/29/73-07/09/75	13	10.	10.	18.	6.	8.333	2.887	6.4	8.5	11.	15.2
00940 CHLORIDE,TOTAL IN WATER	MG/L	11/29/73-11/29/77	26	9.	9.423	24.	6.	13.934	3.733	6.	7.	10.	13.6
00945 SULFATE, TOTAL (MG/L AS SO4)		11/29/73-07/09/75	13	337.	308.385	398.	147.	4883.923	69.885	173.4	271.5	351.	391.2
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		02/04/74-11/29/77	24	430.	1146.792	7600.	0.	4430486.52	2104.872	22.5	98.5	850.	5462.5
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		02/04/74-11/29/77	24	2.628	2.427	3.881	0.	0.826	0.909	1.151	1.993	2.927	3.708
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C				GEOMETRIC MEAN =	267.234								

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

EPA Water Quality Criteria Analysis for Station: MNRR0030

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	26	1	0.04	4	0	0.00	3	0	0.00	11	1	0.09	8	0	0.00
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	26	0	0.00	4	0	0.00	3	0	0.00	11	0	0.00	8	0	0.00
00400 PH	Fresh Chronic	9.	24	1	0.04	3	0	0.00	3	0	0.00	10	1	0.10	8	0	0.00
	Other-Lo Lim.	6.5	24	0	0.00	3	0	0.00	3	0	0.00	10	0	0.00	8	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	25	0	0.00	4	0	0.00	3	0	0.00	11	0	0.00	7	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	26	0	0.00	4	0	0.00	3	0	0.00	11	0	0.00	8	0	0.00
	Drinking Water	250.	26	0	0.00	4	0	0.00	3	0	0.00	11	0	0.00	8	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	13	11	0.85	2	2	1.00	2	2	1.00	5	3	0.60	4	4	1.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	24	15	0.63	3	1	0.33	3	1	0.33	10	8	0.80	8	5	0.63

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

Station Inventory for Station: MNRR0031

NPS Station ID: MNRR0031
LAT/LON: 42.844448/ -97.405837
Agency: 21NEB001
Date Created: 06/22/96
Location: BEAVER CREEK
FIPS State/County: 31027 NEBRASKA/CEDAR
Station Type: /TYPA/AMBNT/STREAM/BIO
STORET Station ID(s): MT2112
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10170101
Depth of Water: 0
Aquifer:
Major Basin:
Elevation: 0
Water Body Id: NEMT2-11900
Minor Basin:
ECO Region: 46G
RF1 Index: 10170101
RF1 Mile Point: 0.000
Distance from RF1: 0.00
On/Off RF1:
RF3 Index: 10170203001300.00
RF3 Mile Point: 6.56
Distance from RF3: 0.09
On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0031

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: MNRR0032

NPS Station ID: MNRR0032 LAT/LON: 42.883337/ -97.416671 Agency: 1118EPA8 Date Created: 05/20/76
Location: YANKTON STP YANKTON SO DAK FIPS State/County: 46135 SOUTH DAKOTA/YANKTON
Station Type: /TYPA/MUN/TREATD/OUTFL/STREAM STORET Station ID(s): SD-0023396-1
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: JAMES RIVER ECO Region:
RF1 Index: 10170101016 RF1 Mile Point: 2.430 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 10170102003401.54 RF3 Mile Point: 1.83 Distance from RF3: 0.02 On/Off RF3:
Description:
DISCHARGE 001 SAMPLED AT WET WELL

Parameter Inventory for Station: MNRR0032

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/17/77-04/14/87	6	17.5	17.5	22.5	12.	15.	3.873	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C	MG/L	03/24/76-04/14/87	6	18.	23.467	49.	6.3	236.567	15.381	**	**	**	**
00400 PH (STANDARD UNITS)		03/24/76-04/14/87	7	7.4	7.371	7.7	6.7	0.106	0.325	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		03/24/76-04/14/87	7	7.4	7.237	7.7	6.7	0.127	0.356	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		03/24/76-04/14/87	7	0.04	0.058	0.2	0.02	0.004	0.063	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		03/24/76-04/14/87	6	15.5	18.667	42.	8.	142.267	11.928	**	**	**	**
00556 OIL & GREASE (FREON EXTR.-GRAV METH) TOT.REC.MG/L		04/17/79-04/17/79	1	4.3	4.3	4.3	4.3	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)		04/17/79-04/17/79	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01022 BORON, TOTAL (UG/L AS B)		04/17/79-04/17/79	1##	20.	20.	20.	20.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)		04/17/79-04/17/79	1##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)		04/17/79-04/17/79	1##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)		04/17/79-04/17/79	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)		04/17/79-04/17/79	1##	15.	15.	15.	15.	0.	0.	**	**	**	**
01059 THALLIUM, TOTAL (UG/L AS TL)		04/17/79-04/17/79	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)		04/17/79-04/17/79	1##	15.	15.	15.	15.	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)		04/17/79-04/17/79	1##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)		04/17/79-04/17/79	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01097 ANTIMONY, TOTAL (UG/L AS SB)		04/17/79-04/17/79	1##	40.	40.	40.	40.	0.	0.	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)		04/17/79-04/17/79	1##	20.	20.	20.	20.	0.	0.	**	**	**	**
50050 FLOW, IN CONDUIT OR THRU A TREATMENT PLANT	MGD	03/24/76-04/14/87	6	1.8	1.875	2.8	1.25	0.322	0.567	**	**	**	**
50060 CHLORINE, TOTAL RESIDUAL (MG/L)		06/11/80-04/14/87	2	0.08	0.08	0.16	0.	0.013	0.113	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)		04/17/79-04/17/79	1##	5.	5.	5.	5.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: MNRR0032

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00400 PH	Fresh Chronic	9.	7	0	0.00							7	0	0.00			
	Other-Lo Lim.	6.5	7	0	0.00							7	0	0.00			
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	1	0	0.00							1	0	0.00			
	Drinking Water	4.	1	0	0.00							1	0	0.00			

& - 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: MNRR0032

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 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			
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.	0&	0	0.00												
01059 THALLIUM, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
	Drinking Water	2.	0&	0	0.00												
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00							1	0	0.00			
	Drinking Water	100.	1	0	0.00							1	0	0.00			
01077 SILVER, TOTAL	Fresh Acute	4.1	1	0	0.00							1	0	0.00			
	Drinking Water	100.	1	0	0.00							1	0	0.00			
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00							1	0	0.00			
	Drinking Water	5000.	1	0	0.00							1	0	0.00			
01097 ANTIMONY, TOTAL	Fresh Acute	88.	1	0	0.00							1	0	0.00			
	Drinking Water	6.	0&	0	0.00												
01147 SELENIUM, TOTAL	Fresh Acute	20.	0&	0	0.00												
	Drinking Water	50.	1	0	0.00							1	0	0.00			
50060 CHLORINE, TOTAL RESIDUAL	Fresh Acute	0.019	2	1	0.50							2	1	0.50			
71900 MERCURY, TOTAL	Fresh Acute	2.4	0&	0	0.00												
	Drinking Water	2.	0&	0	0.00												

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

Station Inventory for Station: MNRR0033

NPS Station ID: MNRR0033 LAT/LON: 42.853059/ -97.462782 Agency: 21NEB001 Date Created: 05/20/89
Location: COTTONWOOD LAKE FIPS State/County: 31027 NEBRASKA/CEDAR
Station Type: /TYPA/AMBNT/LAKE/BIO STORET Station ID(s): LCEYAN01 /MT2.10000
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id: NEMT2-L0030
Minor Basin: ECO Region: 46G
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 1.60 On/Off RF1:
RF3 Index: 10170101006703.56 RF3 Mile Point: 3.99 Distance from RF3: 0.02 On/Off RF3:
Description:
0833N01W 1 MILE EAST AND 9 MILES NORTH OF CROFTON
DEEP WATER SITE-NORTH OF SOUTH BOAT RAMP

Parameter Inventory for Station: MNRR0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/18/89-02/20/90	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00077 TRANSPARENCY, SECCHI DISC (INCHES)		04/18/89-02/20/90	3	76.	68.	77.	51.	217.	14.731	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		04/18/89-02/20/90	3	911.	983.	1152.	886.	21577.	146.891	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	04/18/89-02/20/90	1	19.4	19.4	19.4	19.4	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		04/18/89-02/20/90	4	186.	167.	201.	95.	2356.667	48.546	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		04/18/89-02/20/90	4##	2.	2.	2.	2.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		04/18/89-02/20/90	4##	0.025	0.038	0.09	0.01	0.001	0.038	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		04/18/89-02/20/90	4	0.585	0.533	0.71	0.25	0.039	0.198	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		04/18/89-02/20/90	4##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		04/18/89-10/30/89	3##	0.01	0.037	0.09	0.01	0.002	0.046	**	**	**	**
00680 CARBON, TOTAL ORGANIC (MG/L AS C)		04/18/89-02/20/90	4	3.9	4.	5.	3.2	0.793	0.891	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)		04/18/89-02/20/90	4	103.75	99.05	119.5	69.2	455.817	21.35	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		04/18/89-02/20/90	4	27.	26.75	27.7	25.3	1.05	1.025	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)		04/18/89-02/20/90	4	69.9	67.4	70.6	59.2	30.	5.477	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)		04/18/89-02/20/90	4	8.65	8.6	9.7	7.4	0.887	0.942	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	04/18/89-02/20/90	4	15.5	15.75	18.	14.	2.917	1.708	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		04/18/89-02/20/90	4	321.5	334.75	393.	303.	1688.25	41.088	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)		04/18/89-02/20/90	4	10.	12.	27.	1.	172.	13.115	**	**	**	**
01018 IRON,TOTAL IN BOTTOM DEPOSITS (MG/KG WT WGT-FE)		07/10/89-07/10/89	1	4936.7	4936.7	4936.7	4936.7	0.	0.	**	**	**	**
01024 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)		07/10/89-07/10/89	1	5.76	5.76	5.76	5.76	0.	0.	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)		04/18/89-02/20/90	4##	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)		04/18/89-02/20/90	4##	5.	5.	5.	5.	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)		04/18/89-02/20/90	4##	5.	5.	5.	5.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)		04/18/89-02/20/90	4##	27.5	32.25	59.	15.	456.917	21.376	**	**	**	**
01049 LEAD, DISSOLVED (UG/L AS PB)		04/18/89-02/20/90	4##	10.	12.5	20.	10.	25.	5.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)		04/18/89-02/20/90	4##	5.	63.75	240.	5.	13806.25	117.5	**	**	**	**
01065 NICKEL, DISSOLVED (UG/L AS NI)		04/18/89-02/20/90	4##	10.	10.	10.	10.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)		04/18/89-02/20/90	4##	15.	15.	15.	15.	0.	0.	**	**	**	**
01145 SELENIUM, DISSOLVED (UG/L AS SE)		04/18/89-02/20/90	4##	9.25	12.75	31.	1.5	201.417	14.192	**	**	**	**
22415 ALACHLOR, SEDIMENT, WET WEIGHT	UG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
22420 PHOSPHORUS, TOTAL, AS P, SEDIMENT, WET WT	MG/KG	07/10/89-07/10/89	1	136.5	136.5	136.5	136.5	0.	0.	**	**	**	**
22457 NITROGEN, TOTAL KJELDAHL, AS N, SED, WET WT	MG/KG	07/10/89-07/10/89	1	162.	162.	162.	162.	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		04/18/89-02/20/90	4	2.5	2.5	4.	1.	3.	1.732	**	**	**	**

** - Less than 9 observations ## - 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: MNRR0033

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/18/89-02/20/90	4	0.301	0.301	0.602	0.	0.121	0.348	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		2.								
32238 CHLOROPHYLL-A,PHYTOPLANKTON,FLUROMETRIC MTH MG/M3	04/18/89-02/20/90	4	4.14	3.85	6.24	0.88	7.488	2.736	**	**	**	**
34671 PCB - 1016 TOTWUG/L	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
38932 CHLORPYRIFOS, TOTAL RECOVERABLE UG/L	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39300 P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39310 P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39320 P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39330 ALDRIN IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39340 GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39390 ENDRIN IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39400 TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39410 HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39488 PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39492 PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39496 PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39500 PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39504 PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39508 PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
39530 MALATHION IN WHOLE WATER SAMPLE (UG/L)	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/18/89-02/20/90	4	702.5	682.75	713.	613.	2206.917	46.978	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/18/89-10/30/89	3##	0.01	0.017	0.03	0.01	0.	0.012	**	**	**	**
71890 MERCURY, DISSOLVED (UG/L AS HG)	04/18/89-02/20/90	4##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
77825 ALACHLOR WHOLE WATER,UG/L	04/18/89-02/20/90	4##	0.	0.	0.	0.	0.	0.	**	**	**	**
78410 ARSENIC SEDWETWTMG/KG	07/10/89-07/10/89	1	3.54	3.54	3.54	3.54	0.	0.	**	**	**	**
78412 CADMIUM SEDWETWTMG/KG	07/10/89-07/10/89	1	0.81	0.81	0.81	0.81	0.	0.	**	**	**	**
78414 COPPER SEDWETWTMG/KG	07/10/89-07/10/89	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
78415 LEAD SEDWETWTMG/KG	07/10/89-07/10/89	1	17.62	17.62	17.62	17.62	0.	0.	**	**	**	**
78416 MERCURY SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78417 NICKEL SEDWETWTMG/KG	07/10/89-07/10/89	1	10.4	10.4	10.4	10.4	0.	0.	**	**	**	**
78418 SELENIUM SEDWETWTMG/KG	07/10/89-07/10/89	1	0.36	0.36	0.36	0.36	0.	0.	**	**	**	**
78421 ZINC SEDWETWTMG/KG	07/10/89-07/10/89	1	20.25	20.25	20.25	20.25	0.	0.	**	**	**	**
78422 ALDRIN SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78423 DIELDRIN SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78424 CHLORDANE SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78426 4,4'-DDE SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78427 4,4'-DDD SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78431 ENDRIN SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78433 HEPTACHLOR SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78434 HEPTACHLOR EPOXIDE SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78438 GAMMA-BHC(LINDANE) SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78439 PCB-1242 SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78440 PCB-1254 SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78441 PCB-1221 SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78442 PCB-1232 SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78443 PCB-1248 SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78444 PCB-1260 SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78446 PCB-1016 SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78447 TOXAPHENE SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
81801 DDT IN SEDIMENT,TOTAL WEIGHT,WET WEIGHT MG/KG	07/10/89-07/10/89	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: MNRR0033

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	1	0	0.00				1	0	0.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
	Drinking Water	250.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	4	1.00				1	1	1.00	2	2	1.00	1	1	1.00
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
	Drinking Water	50.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
01025 CADMIUM, DISSOLVED	Fresh Acute	3.9	0&	0	0.00												
	Drinking Water	5.	0&	0	0.00												
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
01040 COPPER, DISSOLVED	Fresh Acute	18.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
	Drinking Water	1300.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
01049 LEAD, DISSOLVED	Fresh Acute	82.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
	Drinking Water	15.	4	1	0.25				1	0	0.00	2	0	0.00	1	1	1.00
01065 NICKEL, DISSOLVED	Fresh Acute	1400.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
	Drinking Water	100.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
01090 ZINC, DISSOLVED	Fresh Acute	120.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
	Drinking Water	5000.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	4	1	0.25				1	0	0.00	2	1	0.50	1	0	0.00
	Drinking Water	50.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
38932 CHLORPYRIFOS, TOTAL RECOVERABLE	Fresh Acute	0.083	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
39300 P,P' DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
39310 P,P' DDD IN WHOLE WATER SAMPLE	Fresh Acute	0.6	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
39320 P,P' DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
39330 ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
39340 GAMMA-BHC(LINDANE), WHOLE WATER	Fresh Acute	2.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
	Drinking Water	0.2	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
39350 CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
	Drinking Water	2.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
39380 DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
39390 ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
	Drinking Water	2.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
39400 TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
	Drinking Water	3.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
39410 HEPTACHLOR IN WHOLE WATER SAMPLE	Fresh Acute	0.52	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
	Drinking Water	0.4	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
	Drinking Water	0.2	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00
	Drinking Water	2.	4	0	0.00				1	0	0.00	2	0	0.00	1	0	0.00

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

Station Inventory for Station: MNRR0034

NPS Station ID: MNRR0034 LAT/LON: 42.853059/ -97.462782 Agency: 21NEB001 Date Created: 04/07/90
Location: COTTONWOOD LAKE FIPS State/County: 31027 NEBRASKA/CEDAR
Station Type: /TYPA/AMBNT/LAKE/BIO STORET Station ID(s): LCEYAN02
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id: NEMT2-L0030
Minor Basin: ECO Region: 46G
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 0.10 On/Off RF1:
RF3 Index: 10170101007300.00 RF3 Mile Point: 0.12 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0034

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01018	IRON,TOTAL IN BOTTOM DEPOSITS (MG/KG WT WGT-FE)	07/10/89-07/10/89	1	5653.4	5653.4	5653.4	5653.4	0.	0.	**	**	**	**
01024	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,WET WGT)	07/10/89-07/10/89	1	8.13	8.13	8.13	8.13	0.	0.	**	**	**	**
22415	ALACHLOR, SEDIMENT, WET WEIGHT UG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
22420	PHOSPHORUS, TOTAL, AS P, SEDIMENT, WET WT MG/KG	07/10/89-07/10/89	1	146.5	146.5	146.5	146.5	0.	0.	**	**	**	**
22457	NITROGEN, TOTAL KJELDAHL, AS N, SED, WET WT MG/KG	07/10/89-07/10/89	1	271.5	271.5	271.5	271.5	0.	0.	**	**	**	**
78410	ARSENIC SEDWETWTMG/KG	07/10/89-07/10/89	1	3.55	3.55	3.55	3.55	0.	0.	**	**	**	**
78412	CADMIUM SEDWETWTMG/KG	07/10/89-07/10/89	1	0.81	0.81	0.81	0.81	0.	0.	**	**	**	**
78414	COPPER SEDWETWTMG/KG	07/10/89-07/10/89	1	4.26	4.26	4.26	4.26	0.	0.	**	**	**	**
78415	LEAD SEDWETWTMG/KG	07/10/89-07/10/89	1	18.09	18.09	18.09	18.09	0.	0.	**	**	**	**
78416	MERCURY SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78417	NICKEL SEDWETWTMG/KG	07/10/89-07/10/89	1	11.7	11.7	11.7	11.7	0.	0.	**	**	**	**
78418	SELENIUM SEDWETWTMG/KG	07/10/89-07/10/89	1	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
78421	ZINC SEDWETWTMG/KG	07/10/89-07/10/89	1	25.33	25.33	25.33	25.33	0.	0.	**	**	**	**
78422	ALDRIN SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78423	DIELDRIN SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78424	CHLORDANE SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78426	4,4'-DDE SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78427	4,4'-DDD SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78431	ENDRIN SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78433	HEPTACHLOR SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78434	HEPTACHLOR EPOXIDE SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78438	GAMMA-BHC(LINDANE) SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78439	PCB-1242 SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78440	PCB-1254 SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78441	PCB-1221 SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78442	PCB-1232 SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78443	PCB-1248 SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78444	PCB-1260 SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78446	PCB-1016 SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
78447	TOXAPHENE SEDWETWTMG/KG	07/10/89-07/10/89	1##	0.	0.	0.	0.	0.	0.	**	**	**	**
81801	DDT IN SEDIMENT,TOTAL WEIGHT,WET WEIGHT MG/KG	07/10/89-07/10/89	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: MNRR0035

NPS Station ID: MNRR0035 LAT/LON: 42.860003/ -97.478338 Agency: 21SDLASS Date Created: 08/10/91
Location: YANKTON-S YANKTON CO FIPS State/County: 46135 SOUTH DAKOTA/YANKTON
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 46LAS93B
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 8 Aquifer:
Major Basin: MISSOURI RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LOWER MISSOURI RIVER BASIN ECO Region:
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 1.00 On/Off RF1:
RF3 Index: 10170102003508.51 RF3 Mile Point: 8.51 Distance from RF3: 0.03 On/Off RF3:
Description:
COMPOSITE SAMPLE OF 3 INLAKE SITES - SURFACE AND BOTTOM SAMPLES

Parameter Inventory for Station: MNRR0035

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/27/89-08/01/89	2	20.35	20.35	21.5	19.2	2.645	1.626	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		06/27/89-08/01/89	2	26.75	26.75	28.	25.5	3.125	1.768	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/27/89-08/01/89	2	993.5	993.5	1030.	957.	2664.5	51.619	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	06/27/89-08/01/89	2	6.7	6.7	9.5	3.9	15.68	3.96	**	**	**	**
00400 PH (STANDARD UNITS)		06/27/89-08/01/89	2	7.3	7.3	7.6	7.	0.18	0.424	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		06/27/89-08/01/89	2	7.204	7.204	7.6	7.	0.199	0.446	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/27/89-08/01/89	2	0.063	0.063	0.1	0.025	0.003	0.053	**	**	**	**
00403 PH, LAB, STANDARD UNITS	SU	06/27/89-08/01/89	2	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		06/27/89-08/01/89	2	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/27/89-08/01/89	2	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		06/27/89-08/01/89	2	154.	154.	191.	117.	2738.	52.326	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)		06/27/89-08/01/89	2	787.	787.	819.	755.	2048.	45.255	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		06/27/89-08/01/89	2	11.	11.	18.	4.	98.	9.899	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		06/27/89-08/01/89	2	0.175	0.175	0.32	0.03	0.042	0.205	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		06/27/89-08/01/89	2	0.45	0.45	0.58	0.32	0.034	0.184	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		06/27/89-08/01/89	2##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		06/27/89-08/01/89	2	0.075	0.075	0.098	0.051	0.001	0.033	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		06/27/89-08/01/89	2##	0.027	0.027	0.051	0.003	0.001	0.034	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		06/27/89-08/01/89	2	776.	776.	815.	737.	3042.	55.154	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: MNRR0035

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	1	0.50							1	0	0.00	1	1	1.00
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
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: MNRR0036

NPS Station ID: MNRR0036 LAT/LON: 42.860003/ -97.478338 Agency: 21SDLASS Date Created: 08/10/91
Location: YANKTON-S YANKTON CO FIPS State/County: 46135 SOUTH DAKOTA/YANKTON
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 46LAS93S
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 8 Aquifer:
Major Basin: MISSOURI RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LOWER MISSOURI RIVER BASIN ECO Region:
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 0.60 On/Off RF1:
RF3 Index: 10170101158500.12 RF3 Mile Point: 0.11 Distance from RF3: 0.09 On/Off RF3:
Description:
COMPOSITE SAMPLE OF 3 INLAKE SITES - SURFACE AND BOTTOM SAMPLES

Parameter Inventory for Station: MNRR0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/27/89-08/01/89	2	20.35	20.35	21.5	19.2	2.645	1.626	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		06/27/89-08/01/89	2	26.75	26.75	28.	25.5	3.125	1.768	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)		06/27/89-08/01/89	2	1.25	1.25	1.28	1.22	0.002	0.042	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/27/89-08/01/89	2	983.	983.	1009.	957.	1352.	36.77	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	06/27/89-08/01/89	2	6.7	6.7	9.5	3.9	15.68	3.96	**	**	**	**
00400 PH (STANDARD UNITS)		06/27/89-08/01/89	2	8.	8.	8.	8.	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		06/27/89-08/01/89	2	8.	8.	8.	8.	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/27/89-08/01/89	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS	SU	06/27/89-08/01/89	2	8.05	8.05	8.2	7.9	0.045	0.212	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		06/27/89-08/01/89	2	8.025	8.025	8.2	7.9	0.046	0.215	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/27/89-08/01/89	2	0.009	0.009	0.013	0.006	0.	0.004	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		06/27/89-08/01/89	2	154.5	154.5	163.	146.	144.5	12.021	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)		06/27/89-08/01/89	2	770.	770.	809.	731.	3042.	55.154	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		06/27/89-08/01/89	2##	8.	8.	14.	2.	72.	8.485	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		06/27/89-08/01/89	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		06/27/89-08/01/89	2	0.46	0.46	0.51	0.41	0.005	0.071	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		06/27/89-08/01/89	2##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		06/27/89-08/01/89	2	0.039	0.039	0.041	0.037	0.	0.003	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		06/27/89-08/01/89	2	0.011	0.011	0.017	0.005	0.	0.008	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		06/27/89-08/01/89	2	761.	761.	805.	717.	3872.	62.225	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: MNRR0036

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	2	1	0.50							1	0	0.00	1	1	1.00
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
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: MNRR0037

NPS Station ID: MNRR0037 LAT/LON: 42.848615/ -97.481115 Agency: 121MBRCE Date Created: 05/31/80
Location: MONITOR AT GAVINS POINT POWERHOUSE FIPS State/County: 31027 NEBRASKA/CEDAR
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 30GAM1 /GAVINSMON
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 54 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: JAMES RIVER ECO Region:
RF1 Index: 10170101019 RF1 Mile Point: 0.280 Distance from RF1: 8.00 On/Off RF1: ON
RF3 Index: 10170101079100.00 RF3 Mile Point: 0.69 Distance from RF3: 0.13 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	4176	12.2	12.019	29.	0.1	80.763	8.987	0.8	1.9	20.7	24.
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)		11/07/79-04/25/82	788	53.	53.525	84.	31.	260.376	16.136	32.95	38.5	68.875	76.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	3812	741.5	730.548	890.	3.	4321.653	65.739	649.	705.	777.	794.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	4310	9.4	9.789	18.1	1.	6.286	2.507	6.8	7.6	11.9	13.3
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	11/27/91-02/10/97	1332	91.1	90.778	181.3	20.9	86.819	9.318	80.4	86.125	96.1	100.97
00400 PH (STANDARD UNITS)		01/31/89-02/10/97	3030	8.37	8.388	9.12	6.35	0.067	0.259	8.09	8.26	8.53	8.74
00400 CONVERTED PH (STANDARD UNITS)		01/31/89-02/10/97	3030	8.37	8.28	9.12	6.35	0.078	0.28	8.09	8.26	8.53	8.74
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/31/89-02/10/97	3030	0.004	0.005	0.447	0.001	0.	0.013	0.002	0.003	0.005	0.008

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

EPA Water Quality Criteria Analysis for Station: MNRR0037

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	4310	25	0.01	798	0	0.00	562	0	0.00	1488	21	0.01	1462	4	0.00
00400 PH	Fresh Chronic	9.	3030	33	0.01	537	9	0.02	380	0	0.00	1044	0	0.00	1069	24	0.02
	Other-Lo Lim.	6.5	3030	2	0.00	537	0	0.00	380	0	0.00	1044	2	0.00	1069	0	0.00

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

Annual Analysis for 1979 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)		11/07/79-04/25/82	58	38.25	37.198	43.	31.	18.64	4.317	31.	32.875	41.5	42.5
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	107	730.	722.215	750.	7.	4992.868	70.66	715.	720.	735.	745.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	107	9.	8.982	9.5	8.4	0.091	0.301	8.6	8.7	9.2	9.4

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

Annual Analysis for 1980 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)		11/07/79-04/25/82	291	64.5	63.347	84.	36.	180.386	13.431	41.3	55.5	76.	78.4
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	299	750.	746.505	810.	665.	876.419	29.604	710.	720.	770.	775.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	122	6.2	6.168	10.4	1.	5.655	2.378	3.	4.575	8.225	9.6

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

Annual Analysis for 1981 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)		11/07/79-04/25/82	325	53.	53.912	78.	32.	210.55	14.51	37.5	39.	69.5	74.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	311	780.	766.72	850.	590.	2112.434	45.961	715.	735.	800.	815.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	135	8.8	9.336	13.5	4.2	3.006	1.734	7.46	7.8	10.4	11.7

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

Annual Analysis for 1982 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	229	17.2	16.289	27.8	1.1	71.398	8.45	1.7	11.7	23.3	25.6
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)		11/07/79-04/25/82	114	33.5	35.658	52.	32.	29.625	5.443	32.	32.	36.	46.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	298	760.	751.107	890.	430.	3381.261	58.149	700.	740.	780.	780.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	307	9.5	9.985	13.9	6.7	4.518	2.126	7.4	7.8	12.	12.7

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

Annual Analysis for 1983 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	460	10.2	10.83	29.	0.5	82.826	9.101	0.8	2.	18.25	25.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	475	10.8	10.11	13.6	4.6	6.257	2.501	6.56	7.6	12.3	13.1

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

Annual Analysis for 1984 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	314	10.	11.397	27.	0.4	79.922	8.94	0.9	1.5	20.	24.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	285	9.8	9.575	13.4	5.6	4.494	2.12	6.4	7.8	11.5	12.3

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

Annual Analysis for 1985 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	136	15.5	14.277	25.4	1.3	55.019	7.417	1.97	7.	19.95	23.62
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	133	8.2	8.126	11.9	5.1	3.071	1.752	5.9	6.55	9.15	10.76

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

Annual Analysis for 1989 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	858	11.6	11.155	27.3	0.3	77.97	8.83	0.8	1.2	17.9	24.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	619	772.	759.115	812.	671.	1191.616	34.52	715.	730.	787.	798.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	619	9.9	10.733	15.	6.3	7.78	2.789	7.4	8.1	13.7	14.2
00400 PH (STANDARD UNITS)		01/31/89-02/10/97	858	8.36	8.362	8.64	7.75	0.02	0.142	8.23	8.278	8.42	8.58
00400 CONVERTED PH (STANDARD UNITS)		01/31/89-02/10/97	858	8.36	8.337	8.64	7.75	0.021	0.144	8.23	8.278	8.42	8.58
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/31/89-02/10/97	858	0.004	0.005	0.018	0.002	0.	0.002	0.003	0.004	0.005	0.006

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

Annual Analysis for 1990 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	657	17.7	15.641	26.4	0.3	62.839	7.927	2.18	8.05	23.2	24.2
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	657	773.	760.314	801.	140.	3195.761	56.531	714.	748.	789.	795.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	657	8.7	9.065	13.9	5.8	3.747	1.936	6.98	7.4	10.1	11.8
00400 PH (STANDARD UNITS)		01/31/89-02/10/97	657	8.27	8.243	8.54	6.35	0.036	0.189	8.07	8.19	8.33	8.42
00400 CONVERTED PH (STANDARD UNITS)		01/31/89-02/10/97	657	8.27	8.107	8.54	6.35	0.054	0.233	8.07	8.19	8.33	8.42
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/31/89-02/10/97	657	0.005	0.008	0.447	0.003	0.001	0.026	0.004	0.005	0.006	0.009

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	165	20.7	14.235	25.4	0.3	108.591	10.421	0.8	1.45	23.8	24.6
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	165	725.	724.752	791.	657.	800.359	28.291	684.6	702.5	746.	752.4
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	165	7.9	9.443	15.3	6.	8.71	2.951	6.56	7.	12.85	13.94
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	11/27/91-02/10/97	27	98.1	98.467	106.3	92.8	19.128	4.374	93.48	94.1	102.6	104.78
00400 PH (STANDARD UNITS)		01/31/89-02/10/97	158	8.37	8.375	8.71	8.1	0.016	0.127	8.189	8.31	8.442	8.551
00400 CONVERTED PH (STANDARD UNITS)		01/31/89-02/10/97	158	8.37	8.356	8.71	8.1	0.016	0.128	8.189	8.31	8.442	8.551
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/31/89-02/10/97	158	0.004	0.004	0.008	0.002	0.	0.001	0.003	0.004	0.005	0.006

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

Annual Analysis for 1992 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	318	7.6	10.085	22.8	0.8	58.717	7.663	1.3	1.975	17.8	20.61
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	317	714.	705.136	768.	3.	2781.453	52.739	653.8	682.	735.	749.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	303	11.	10.595	18.1	5.7	6.145	2.479	7.3	8.3	13.	13.6
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	11/27/91-02/10/97	303	95.6	93.746	181.3	64.5	96.296	9.813	82.44	88.2	99.3	102.2
00400 PH (STANDARD UNITS)		01/31/89-02/10/97	318	8.545	8.551	9.12	7.97	0.073	0.271	8.139	8.358	8.79	8.9
00400 CONVERTED PH (STANDARD UNITS)		01/31/89-02/10/97	318	8.545	8.465	9.12	7.97	0.081	0.284	8.139	8.357	8.79	8.9

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

Annual Analysis for 1992 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/31/89-02/10/97	318	0.003	0.003	0.011	0.001	0.	0.002	0.001	0.002	0.004	0.007

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

Annual Analysis for 1993 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	266	7.5	10.154	26.4	0.1	83.633	9.145	0.4	0.8	18.3	23.5
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	266	703.	689.658	757.	560.	1889.728	43.471	617.7	664.5	720.25	733.3
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	241	11.	10.571	15.4	6.4	5.151	2.27	7.2	8.6	12.6	13.1
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	11/27/91-02/10/97	241	93.3	93.837	114.9	79.	43.341	6.583	85.94	89.55	96.75	103.76
00400 PH (STANDARD UNITS)		01/31/89-02/10/97	266	8.595	8.509	8.88	7.8	0.077	0.278	8.067	8.323	8.74	8.81
00400 CONVERTED PH (STANDARD UNITS)		01/31/89-02/10/97	266	8.595	8.411	8.88	7.8	0.087	0.295	8.067	8.322	8.74	8.81
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/31/89-02/10/97	266	0.003	0.004	0.016	0.001	0.	0.003	0.002	0.002	0.005	0.009

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

Annual Analysis for 1994 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	216	8.8	9.389	24.	0.2	59.177	7.693	0.57	1.525	15.2	22.16
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	216	697.	678.634	797.	525.	5379.684	73.346	573.7	613.	735.5	772.3
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	204	10.3	10.103	14.1	5.2	5.402	2.324	6.85	7.9	11.875	13.1
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	11/27/91-02/10/97	204	89.65	88.149	109.4	62.7	81.966	9.054	74.8	83.875	93.975	98.
00400 PH (STANDARD UNITS)		01/31/89-02/10/97	216	8.51	8.546	9.07	7.95	0.085	0.291	8.02	8.39	8.805	8.913
00400 CONVERTED PH (STANDARD UNITS)		01/31/89-02/10/97	216	8.51	8.445	9.07	7.95	0.095	0.309	8.02	8.39	8.805	8.913
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/31/89-02/10/97	216	0.003	0.004	0.011	0.001	0.	0.003	0.001	0.002	0.004	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 box-and-whisker plot

Annual Analysis for 1995 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	268	14.	12.297	27.1	0.3	98.193	9.909	0.5	1.2	22.05	25.1
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	268	716.5	689.907	850.	480.	12272.797	110.783	526.8	552.25	785.	817.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	268	9.2	9.448	13.3	5.6	5.339	2.311	6.5	7.2	11.7	12.2
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	11/27/91-02/10/97	268	87.4	87.629	111.2	71.2	41.215	6.42	79.7	83.4	92.175	95.01
00400 PH (STANDARD UNITS)		01/31/89-02/10/97	268	8.28	8.154	8.58	7.48	0.081	0.285	7.759	7.893	8.39	8.47
00400 CONVERTED PH (STANDARD UNITS)		01/31/89-02/10/97	268	8.28	8.056	8.58	7.48	0.091	0.302	7.759	7.892	8.39	8.47
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/31/89-02/10/97	268	0.005	0.009	0.033	0.003	0.	0.006	0.003	0.004	0.013	0.017

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

Annual Analysis for 1996 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	253	9.4	9.979	25.3	0.2	77.26	8.79	0.4	0.6	17.15	23.36
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	253	676.	679.621	834.	524.	3285.205	57.317	619.4	637.5	723.	755.6
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	253	10.4	10.215	15.2	1.7	7.509	2.74	6.8	7.9	12.55	13.46
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	11/27/91-02/10/97	253	90.	89.27	121.8	20.9	143.818	11.992	79.22	85.55	93.75	101.92
00400 PH (STANDARD UNITS)		01/31/89-02/10/97	253	8.61	8.619	9.02	7.44	0.055	0.236	8.42	8.48	8.8	8.91

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

Annual Analysis for 1996 - Station MNRR0037

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400 CONVERTED PH (STANDARD UNITS)	01/31/89-02/10/97	253	8.61	8.523	9.02	7.44	0.065	0.254	8.42	8.48	8.8	8.91
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/31/89-02/10/97	253	0.002	0.003	0.036	0.001	0.	0.004	0.001	0.002	0.003	0.004

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

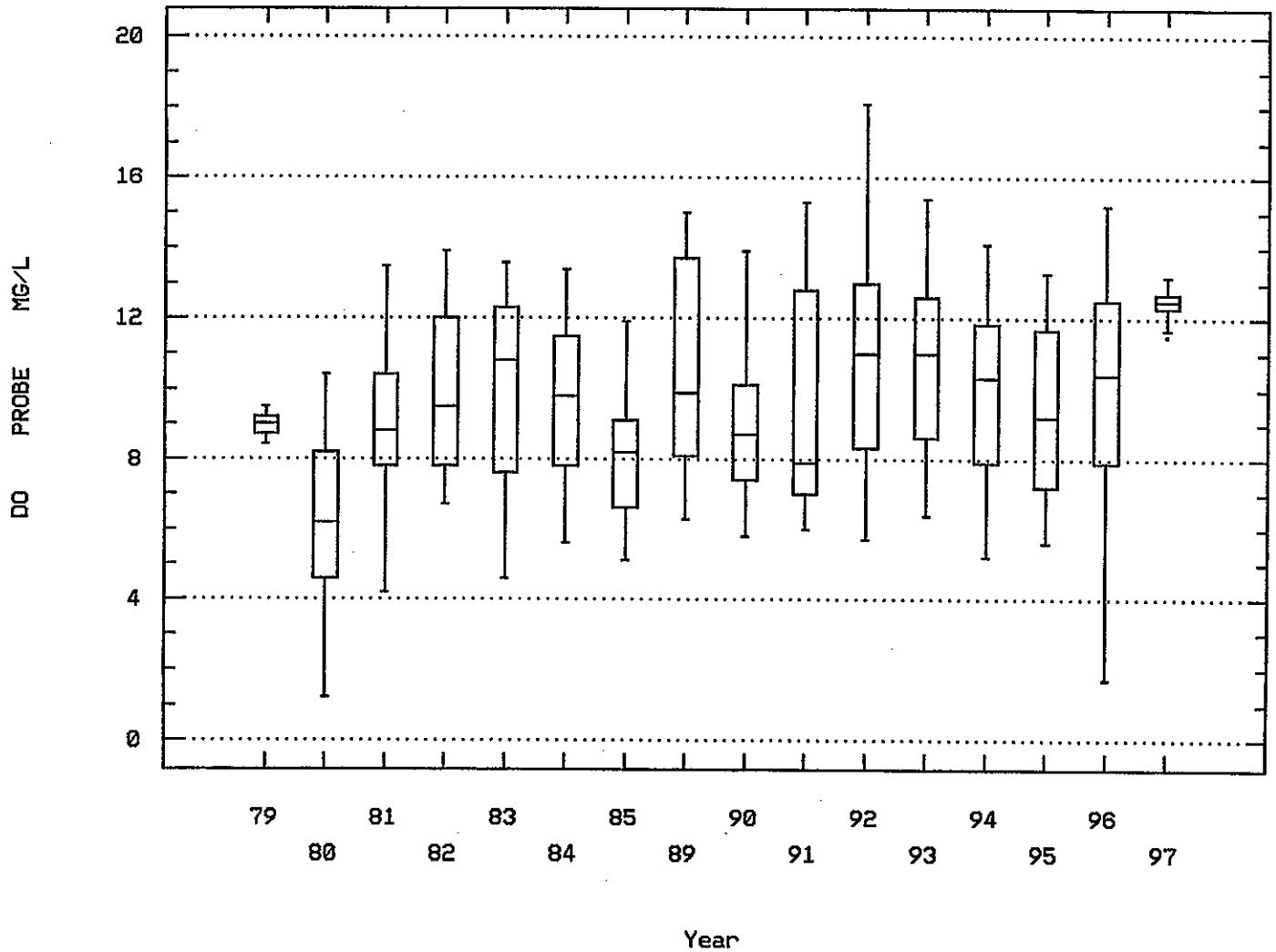
Annual Analysis for 1997 - Station MNRR0037

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/26/82-02/10/97	36	0.2	0.214	0.3	0.2	0.001	0.035	0.2	0.2	0.2	0.3
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/07/79-02/10/97	36	627.5	630.083	677.	589.	346.993	18.628	605.4	620.25	645.25	651.6
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	11/07/79-02/10/97	36	12.5	12.461	13.2	11.5	0.151	0.389	11.77	12.3	12.7	12.93
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	11/27/91-02/10/97	36	88.7	88.5	93.9	80.4	9.726	3.119	83.44	87.575	90.475	92.01
00400 PH (STANDARD UNITS)	01/31/89-02/10/97	36	8.53	8.548	8.64	8.47	0.003	0.051	8.5	8.503	8.605	8.63
00400 CONVERTED PH (STANDARD UNITS)	01/31/89-02/10/97	36	8.53	8.545	8.64	8.47	0.003	0.051	8.5	8.503	8.605	8.63
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/31/89-02/10/97	36	0.003	0.003	0.003	0.002	0.	0.	0.002	0.002	0.003	0.003

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

Station: MNRR0037 Parameter Code: 00299

OXYGEN ,DISSOLVED, ANALYSIS BY PROBE



MONITOR AT GAVINS POINT POWERHOUSE

Seasonal Analysis for Season #1: 11/20 to 1/14 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	678	0.9	1.467	7.2	0.1	1.907	1.381	0.4	0.6	1.7	3.6
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	740	717.	704.228	870.	7.	4130.599	64.27	623.1	682.	740.	766.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	798	12.6	12.17	15.4	8.	2.41	1.553	9.4	11.475	13.3	13.8
00400 PH (STANDARD UNITS)		01/31/89-02/10/97	537	8.5	8.468	9.02	7.48	0.066	0.257	8.12	8.34	8.6	8.802
00400 CONVERTED PH (STANDARD UNITS)		01/31/89-02/10/97	537	8.5	8.374	9.02	7.48	0.075	0.274	8.12	8.34	8.6	8.802
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/31/89-02/10/97	537	0.003	0.004	0.033	0.001	0.	0.004	0.002	0.003	0.005	0.008

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

Seasonal Analysis for Season #2: 1/15 to 3/14 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	518	0.9	1.051	5.2	0.2	0.46	0.678	0.4	0.7	1.3	1.7
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	491	697.	683.086	794.	430.	5651.425	75.176	547.2	648.	740.	760.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	562	12.9	12.919	15.3	10.2	1.041	1.02	11.6	12.2	13.7	14.3
00400 PH (STANDARD UNITS)		01/31/89-02/10/97	380	8.29	8.31	8.74	7.91	0.029	0.17	8.06	8.23	8.43	8.56
00400 CONVERTED PH (STANDARD UNITS)		01/31/89-02/10/97	380	8.29	8.277	8.74	7.91	0.03	0.173	8.06	8.23	8.43	8.56
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/31/89-02/10/97	380	0.005	0.005	0.012	0.002	0.	0.002	0.003	0.004	0.006	0.009

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

Seasonal Analysis for Season #3: 3/15 to 7/14 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	1541	14.4	13.936	26.5	0.5	42.976	6.556	5.3	7.9	19.4	22.8
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	1146	747.5	734.197	850.	140.	3679.975	60.663	676.	712.	770.	788.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	1488	9.	8.996	13.7	1.	4.2	2.049	6.6	7.5	10.4	11.7
00400 PH (STANDARD UNITS)		01/31/89-02/10/97	1044	8.36	8.358	8.99	6.35	0.067	0.259	8.095	8.26	8.49	8.67
00400 CONVERTED PH (STANDARD UNITS)		01/31/89-02/10/97	1044	8.36	8.204	8.99	6.35	0.091	0.301	8.095	8.26	8.49	8.67
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/31/89-02/10/97	1044	0.004	0.006	0.447	0.001	0.	0.021	0.002	0.003	0.005	0.008

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

Seasonal Analysis for Season #4: 7/15 to 11/19 - Station MNRR0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/26/82-02/10/97	1439	21.3	18.887	29.	2.2	40.426	6.358	9.4	13.9	24.	25.3
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/07/79-02/10/97	1435	774.	757.445	890.	3.	2623.724	51.222	690.	735.	791.	800.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	11/07/79-02/10/97	1462	7.8	8.095	18.1	1.7	2.174	1.475	6.5	7.1	9.	10.1
00400 PH (STANDARD UNITS)		01/31/89-02/10/97	1069	8.37	8.404	9.12	7.44	0.074	0.272	8.07	8.26	8.565	8.82
00400 CONVERTED PH (STANDARD UNITS)		01/31/89-02/10/97	1069	8.37	8.321	9.12	7.44	0.081	0.285	8.07	8.26	8.565	8.82
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/31/89-02/10/97	1069	0.004	0.005	0.036	0.001	0.	0.003	0.002	0.003	0.005	0.009

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

Station Inventory for Station: MNRR0038

NPS Station ID: MNRR0038 LAT/LON: 42.848892/ -97.481670 Agency: 21SDAK01 Date Created: / /
Location: MISSOURI R. AT GAVINS POINT DAM FIPS State/County: 46135 SOUTH DAKOTA/YANKTON
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 460674 /S.D. NO. 74
RMI-Indexes: 1021500 009490 Within Park Boundary: No
RMI-Miles: 1149.40 0811.05
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: MISSOURI RIVER BASIN ECO Region:
RF1 Index: 10170101019 RF1 Mile Point: 0.280 Distance from RF1: 0.00 On/Off RF1: ON
RF3 Index: 10160011000227.25 RF3 Mile Point: 28.09 Distance from RF3: 0.25 On/Off RF3:
Description:
MISSOURI RIVER AT GAVINS POINT DAM, SAMPLE OF GENERATOR INTAKE WATER, 4 50 56- 97 28 54, T.33N., R.1W., SW1/4, SECTION 7, CEDAR COUNTY, NEBRASKA.

Parameter Inventory for Station: MNRR0038

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/12/76-09/20/77	21	12.2	11.424	26.7	0.	99.946	9.997	0.	0.55	20.55	23.74
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	09/23/75-09/20/77	25	52.	51.36	80.	32.	287.907	16.968	32.	33.	68.	72.4
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	01/12/76-09/20/77	20	14.45	10.665	26.7	-13.3	138.181	11.755	4.85	-1.65	24.125	-9.3
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)	09/23/75-09/20/77	24	56.	51.167	80.	8.	427.797	20.683	14.	37.	66.	76.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/23/75-09/20/77	25	670.	669.76	765.	610.	1487.19	38.564	623.	637.5	695.	728.
00300 OXYGEN, DISSOLVED MG/L	09/23/75-09/20/77	24	10.	11.038	20.4	7.	15.927	3.991	7.	8.075	12.775	19.5
00400 PH (STANDARD UNITS)	09/23/75-09/20/77	23	8.	7.922	9.	6.2	0.345	0.588	7.5	7.5	8.5	8.5
00400 CONVERTED PH (STANDARD UNITS)	09/23/75-09/20/77	23	8.	7.373	9.	6.2	0.66	0.812	7.5	7.5	8.5	8.5
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/23/75-09/20/77	23	0.01	0.042	0.631	0.001	0.017	0.129	0.003	0.003	0.032	0.032
00403 PH, LAB, STANDARD UNITS SU	09/23/75-09/20/77	25	8.5	8.46	8.7	8.	0.019	0.138	8.3	8.4	8.5	8.6
00403 CONVERTED PH, LAB, STANDARD UNITS	09/23/75-09/20/77	25	8.5	8.435	8.7	8.	0.02	0.141	8.3	8.4	8.5	8.6
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/23/75-09/20/77	25	0.003	0.004	0.01	0.002	0.	0.002	0.003	0.003	0.004	0.005
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	09/23/75-09/20/77	25	150.	150.88	160.	139.	29.277	5.411	142.8	148.	155.5	158.4
00440 BICARBONATE ION (MG/L AS HCO3)	09/23/75-09/20/77	25	183.	184.12	195.	170.	42.943	6.553	174.4	180.5	189.5	193.4
00500 RESIDUE, TOTAL (MG/L)	09/23/75-09/20/77	25	489.	489.48	533.	447.	455.177	21.335	460.6	471.	504.5	520.4
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	09/23/75-09/20/77	25	469.	463.24	494.	412.	429.773	20.731	431.8	448.	476.5	488.8
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/23/75-09/20/77	25	23.	27.84	70.	3.	278.64	16.693	13.	14.5	38.	53.
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/21/75-05/24/77	20	0.03	0.035	0.12	0.01	0.001	0.026	0.01	0.02	0.04	0.077
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/21/77-09/20/77	4	0.045	0.053	0.11	0.01	0.002	0.042	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/18/77-09/20/77	9	0.01	0.017	0.09	0.	0.001	0.028	0.	0.005	0.01	0.09
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/23/75-09/20/77	25##	0.5	0.34	0.5	0.05	0.048	0.218	0.05	0.05	0.5	0.5
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/16/77-08/16/77	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	09/23/75-09/20/77	24	229.5	226.875	243.	198.	134.723	11.607	207.	220.	236.75	238.5
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/21/75-10/21/75	1	59.1	59.1	59.1	59.1	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	09/23/75-09/20/77	25	57.2	56.852	63.5	50.6	11.268	3.357	51.04	54.6	59.35	60.52
00927 MAGNESIUM, TOTAL (MG/L AS MG)	09/23/75-09/20/77	25	20.9	20.64	23.3	17.5	1.335	1.155	18.9	20.2	21.2	21.74
00929 SODIUM, TOTAL (MG/L AS NA)	09/23/75-09/20/77	25	63.9	63.444	67.7	55.7	10.817	3.289	58.2	61.35	66.05	67.34
00937 POTASSIUM, TOTAL MG/L AS K)	09/23/75-09/20/77	25	4.6	4.72	5.4	4.4	0.092	0.304	4.4	4.5	4.9	5.24
00940 CHLORIDE,TOTAL IN WATER MG/L	09/23/75-09/20/77	25	12.	11.48	15.	8.	4.177	2.044	9.	10.	13.	14.4
00945 SULFATE, TOTAL (MG/L AS SO4)	09/23/75-09/20/77	25	194.	194.76	214.	172.	131.773	11.479	179.8	184.	200.5	212.2
01055 MANGANESE, TOTAL (UG/L AS MN)	09/23/75-09/20/77	24	60.	101.25	1000.	30.	37280.978	193.083	35.	40.	87.5	115.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/23/75-09/20/77	25	3.	10.22	50.	1.5	184.043	13.566	1.5	1.5	17.	37.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/23/75-09/20/77	25	0.477	0.675	1.699	0.176	0.285	0.534	0.176	0.176	1.23	1.568

** - Less than 9 observations ## - 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: MNRR0038

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	4.735								
31673 FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/23/75-09/20/77	25	10.	24.5	240.	2.5	2329.688	48.267	2.5	2.5	22.5	55.
31673 LOG FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/23/75-09/20/77	25	1.	0.994	2.38	0.398	0.3	0.548	0.398	0.398	1.327	1.74
31673 GM FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR			GEOMETRIC MEAN =	9.855								
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	09/23/75-09/20/77	24	0.017	0.019	0.038	0.007	0.	0.008	0.012	0.013	0.026	0.034
74010 IRON, TOTAL (MG/L AS FE)	09/23/75-09/20/77	24	0.32	0.397	1.34	0.08	0.09	0.3	0.1	0.21	0.5	0.86

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

EPA Water Quality Criteria Analysis for Station: MNRR0038

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	24	0	0.00	3	0	0.00	4	0	0.00	6	0	0.00	11	0	0.00
00400 PH	Fresh Chronic	9.	23	1	0.04	2	0	0.00	4	0	0.00	6	1	0.17	11	0	0.00
	Other-Lo Lim.	6.5	23	1	0.04	2	0	0.00	4	1	0.25	6	0	0.00	11	0	0.00
00403 PH, LAB	Fresh Chronic	9.	25	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00	11	0	0.00
	Other-Lo Lim.	6.5	25	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00	11	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	9	0	0.00				3	0	0.00	3	0	0.00	3	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	25	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00	11	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	25	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00	11	0	0.00
	Drinking Water	250.	25	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00	11	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	25	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00	11	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	25	0	0.00	3	0	0.00	5	0	0.00	6	0	0.00	11	0	0.00

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

Station Inventory for Station: MNRR0039

NPS Station ID: MNRR0039 LAT/LON: 42.848892/ -97.481670 Agency: 112WRD Date Created: 08/24/85
Location: LEWIS AND CLARK LAKE NEAR YANKTON SD FIPS State/County: 46021 SOUTH DAKOTA/CAMPBELL
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 06467000
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10140101007901.41 RF3 Mile Point: 3.24 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0039

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	11/27/84-11/29/84	2	7.	7.	7.	7.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: MNRR0040

NPS Station ID: MNRR0040 LAT/LON: 42.850004/ -97.483337 Agency: 121MBRCE Date Created: / /
Location: LEWIS AND CLARK LAKE RELEASES FIPS State/County: 31107 NEBRASKA/KNOX
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 300200
RMI-Indexes: 1021500 009490 Within Park Boundary: No
RMI-Miles: 1149.40 0811.00
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: LOWER MISSOURI ECO Region:
RF1 Index: 10170101019 RF1 Mile Point: 0.840 Distance from RF1: 9.40 On/Off RF1: ON
RF3 Index: 10140101083500.00 RF3 Mile Point: 0.00 Distance from RF3: 0.17 On/Off RF3:
Description:
POWERHOUSE OUTFLOW GAVINS PT DAM 3.75 MI SW YANKTON COE S S NO G-1 USGS 6-4670 LAT 4251000 09729000 LONG

Parameter Inventory for Station: MNRR0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/07/70-07/08/97	205	14.5	13.715	30.	0.	81.446	9.025	0.56	4.45	22.5	24.04
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)		05/14/71-11/15/71	7	69.5	65.5	77.	48.	118.25	10.874	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		07/11/71-10/02/97	173	19.	16.569	42.	-25.	131.682	11.475	4.7	0.5	26.	32.
00025 BAROMETRIC PRESSURE (MM OF HG)		10/20/80-09/29/81	9	735.	652.556	737.	7.	58617.028	242.11	7.	727.5	735.5	737.
00032 CLOUD COVER (PERCENT)		02/09/76-08/06/97	144	40.	46.368	100.	0.	1638.318	40.476	0.	2.75	90.	100.
00035 WIND VELOCITY (MILES PER HOUR)		10/27/76-10/02/97	136	10.	10.596	29.	0.	39.22	6.263	3.	5.	15.	20.
00060 FLOW, STREAM, MEAN DAILY	CFS	02/09/76-01/31/79	27	32000.	29970.37	51900.	12000.	113736780.627	10664.745	16560.	22000.	35000.	49920.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	04/22/77-09/29/81	21	500.	9495.952	37300.	0.	204394244.048	14296.651	0.	200.	20500.	34860.
00062 ELEVATION, RESERVOIR SURFACE WATER IN FEET		01/31/80-01/27/82	21	1207.4	1153.829	1208.9	89.	59529.268	243.986	1204.84	1205.6	1208.2	1208.38
00065 STAGE, STREAM (FEET)		04/07/70-01/27/82	86	1161.	1135.055	1207.	14.93	30177.54	173.717	1157.114	1159.443	1163.8	1165.
00068 DEPTH, MAXIMUM, OF SAMPLE (FEET)		07/11/71-12/03/75	36	1.	1.	1.	1.	0.	0.	1.	1.	1.	1.
00075 TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)		05/01/68-11/06/69	15	8.	8.787	21.	1.8	34.368	5.862	1.92	5.	12.	20.4
00076p TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		02/06/73-10/02/97	184	7.	9.82	167.	0.	212.23	14.568	1.8	4.	12.75	17.
00078 TRANSPARENCY, SECCHI DISC (METERS)		08/25/82-08/07/89	19	1.	1.187	3.	0.3	0.618	0.786	0.45	0.5	1.5	2.5
00080 COLOR (PLATINUM-COBALT UNITS)		05/25/76-07/08/97	60	15.	14.317	35.	2.	60.39	7.771	5.	10.	19.25	29.5
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		05/24/88-07/08/97	26	0.2	0.471	7.	0.05	1.779	1.334	0.097	0.2	0.3	0.33
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		07/11/75-07/08/97	141	720.	679.071	920.	7.	22823.538	151.075	422.4	645.	780.	812.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/01/68-12/03/75	69	730.	729.217	843.	600.	2804.937	52.962	660.	698.5	767.	793.
00292 OXYGEN,DISSOLVED,UPTAKE,DARK BOTTLE,IN 24HR	MG/L	12/19/78-12/19/78	1	66.	66.	66.	66.	0.	0.	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	07/11/75-07/08/97	154	9.	9.73	19.	4.9	7.447	2.729	6.55	7.6	12.1	13.55
00300 OXYGEN, DISSOLVED	MG/L	04/07/70-12/03/75	48	10.1	10.431	14.	7.2	4.402	2.098	8.	8.35	12.15	13.7
00335 COD, .025N K2CR2O7	MG/L	04/12/76-12/18/79	41	9.	9.839	55.4	0.	70.453	8.394	2.4	7.	10.5	15.2
00400p PH (STANDARD UNITS)		05/01/68-07/08/97	191	8.1	8.106	9.4	5.4	0.23	0.48	7.6	7.85	8.39	8.7
00400p CONVERTED PH (STANDARD UNITS)		05/01/68-07/08/97	191	8.1	7.465	9.4	5.4	0.644	0.802	7.6	7.85	8.39	8.7
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/01/68-07/08/97	191	0.008	0.034	3.981	0.	0.083	0.288	0.002	0.004	0.014	0.025
00403 PH, LAB, STANDARD UNITS	SU	04/14/71-02/09/76	8	8.	8.025	8.4	7.8	0.031	0.175	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		04/14/71-02/09/76	8	8.	7.998	8.4	7.8	0.032	0.178	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/14/71-02/09/76	8	0.01	0.01	0.016	0.004	0.	0.003	**	**	**	**
00410p ALKALINITY, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	226	161.5	162.58	314.	85.	288.689	16.991	146.7	154.	169.	180.
00440 BICARBONATE ION (MG/L AS HCO3)		10/27/76-03/21/79	31	193.	186.129	207.	8.	1234.049	35.129	169.	183.	200.	205.
00515p RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		05/01/68-10/02/97	157	498.	499.471	766.	242.	4274.571	65.38	433.6	466.	538.	567.2
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		04/28/78-10/02/97	81	11.	15.691	194.	2.	510.966	22.605	4.	8.	17.	25.8
00551 HYDROCARBONS,IN WATER,IR,CC14 EXT.CHROMAT. MG/L		01/31/80-01/27/82	5	1.	1.8	5.	0.	3.7	1.924	**	**	**	**
00610p NITROGEN, AMMONIA, TOTAL (MG/L AS N)		07/11/71-10/02/97	188	0.01	0.036	1.	0.	0.007	0.087	0.	0.01	0.04	0.08
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)		10/27/76-10/02/97	83	0.	0.004	0.1	0.	0.	0.012	0.	0.	0.005	0.008
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)		05/14/79-12/03/79	4	0.01	2.755	11.	0.	30.213	5.497	**	**	**	**

** - Less than 9 observations ## - 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: MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00619 AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	05/23/80-10/02/97	110##	0.005	0.003	0.01	0.	0.	0.003	0.	0.	0.005	0.005
00620p NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	218	0.11	0.24	9.	0.	0.555	0.745	0.01	0.04	0.23	0.421
00623 NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	11/29/77-11/29/77	1	0.21	0.21	0.21	0.21	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	154	0.3	0.346	1.17	0.	0.039	0.197	0.1	0.2	0.4	0.6
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/14/71-01/31/79	9	0.15	0.579	4.	0.07	1.649	1.284	0.07	0.11	0.23	4.
00637 DITHIOCARBAMATE,REPRTD AS DITHIOCARBONATE,WTR,MG/L	01/31/79-01/31/79	1	5.2	5.2	5.2	5.2	0.	0.	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	07/11/71-02/09/76	27	0.02	0.039	0.33	0.	0.004	0.065	0.	0.	0.04	0.094
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	04/25/69-01/09/73	15	0.005	0.011	0.03	0.	0.	0.012	0.	0.	0.02	0.03
00665p PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	172	0.03	0.054	1.2	0.	0.01	0.101	0.01	0.02	0.058	0.107
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	04/25/69-12/18/79	33	0.01	0.073	2.	0.	0.12	0.346	0.	0.005	0.02	0.03
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/72-12/18/79	32	0.	0.003	0.03	0.	0.	0.008	0.	0.	0.	0.017
00678 PHOSPHORUS,HYDROLYZABLE + ORTHO,TOT,AUTOANALYZER	05/20/77-12/18/79	31	0.02	0.022	0.07	0.	0.	0.015	0.01	0.01	0.03	0.04
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	11/17/76-12/18/79	36	4.	4.642	21.	0.9	9.871	3.142	3.	3.825	5.	6.
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	01/31/80-10/02/97	29##	0.005	0.003	0.005	0.	0.	0.002	0.	0.	0.005	0.005
00722 CYANIDE, FREE (AMENABLE TO CHLORINATION) MG/L	07/28/81-07/28/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900p HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	222	241.	245.734	326.	132.	570.314	23.881	221.3	232.	262.	275.7
00901 HARDNESS, CARBONATE (MG/L AS CACO3)	04/25/69-11/06/69	8	155.5	158.25	182.	149.	125.643	11.209	**	**	**	**
00910 CALCIUM (MG/L AS CACO3)	11/13/68-12/03/75	32	58.	60.219	157.	41.	333.209	18.254	50.9	57.	60.	61.7
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	94	59.	60.495	83.	44.	39.032	6.248	54.	57.	63.	68.
00920 MAGNESIUM (MG/L AS CACO3)	02/06/73-12/03/75	26	21.	20.577	25.	7.	10.174	3.19	18.4	20.	22.	23.3
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	87	23.	24.669	191.	11.	335.471	18.316	19.	21.	24.	27.
00929 SODIUM, TOTAL (MG/L AS NA)	02/09/76-08/06/97	79	72.	72.756	146.	40.	281.686	16.783	59.	64.	77.	88.
00930 SODIUM, DISSOLVED (MG/L AS NA)	04/25/69-12/03/75	46	65.	63.283	74.	15.	87.318	9.344	54.1	62.75	68.25	70.
00931 SODIUM ADSORPTION RATIO	05/23/80-08/06/97	38	2.	2.053	4.	1.	0.232	0.482	1.69	2.	2.025	2.46
00935 POTASSIUM, DISSOLVED (MG/L AS K)	02/06/73-12/03/75	26	5.	5.096	8.9	2.1	1.316	1.147	4.14	4.6	5.425	6.3
00937 POTASSIUM, TOTAL MG/L AS K)	02/09/76-08/06/97	71	5.4	5.622	11.	2.	2.318	1.523	4.12	5.	6.	7.
00940p CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	145	10.	9.993	20.	0.	6.354	2.521	7.	9.	11.	12.
00945p SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	174	205.5	207.	366.	33.	1245.318	35.289	170.5	189.75	225.	244.
00951 FLUORIDE, TOTAL (MG/L AS F)	10/27/76-12/03/79	35	0.5	0.72	9.	0.1	2.094	1.447	0.296	0.4	0.56	0.664
01002 ARSENIC, TOTAL (UG/L AS AS)	04/12/76-10/02/97	97	2.	1.897	4.	0.5	0.713	0.845	1.	1.	2.	3.
01005 BARIUM, DISSOLVED (UG/L AS BA)	01/31/80-01/27/82	6	36.	30.333	60.	0.	712.667	26.696	**	**	**	**
01007 BARIUM, TOTAL (UG/L AS BA)	04/12/76-06/10/97	58	50.	50.569	120.	28.	265.337	16.289	30.	40.	57.	72.
01012 BERYLLIUM, TOTAL (UG/L AS BE)	04/12/76-10/02/97	98	0.	0.469	1.	0.	0.252	0.502	0.	0.	1.	1.
01022 BORON, TOTAL (UG/L AS B)	04/12/76-06/10/97	76	151.5	162.133	546.	0.07	6075.253	77.944	99.4	125.	190.	210.
01027 CADMIUM, TOTAL (UG/L AS CD)	10/27/76-10/02/97	97	0.5	1.247	15.	0.	5.022	2.241	0.	0.1	1.	3.
01034 CHROMIUM, TOTAL (UG/L AS CR)	10/27/76-10/02/97	96	2.5	2.354	13.	0.	10.831	3.291	0.	0.	2.5	10.
01037 COBALT, TOTAL (UG/L AS CO)	10/27/76-12/18/79	38	3.	3.395	10.	0.	9.651	3.107	0.	0.	5.	9.
01042 COPPER, TOTAL (UG/L AS CU)	10/27/76-10/02/97	96	2.5	3.411	37.	0.	17.089	4.134	1.	2.5	3.	5.
01045 IRON, TOTAL (UG/L AS FE)	10/27/76-10/02/97	106	307.	349.896	1250.	34.	49338.57	222.123	89.7	199.	469.75	631.3
01051 LEAD, TOTAL (UG/L AS PB)	10/27/76-10/02/97	93	7.	18.194	204.	0.	1035.609	32.181	0.	1.	21.	60.
01055 MANGANESE, TOTAL (UG/L AS MN)	10/27/76-10/02/97	105	33.	41.695	114.	10.	533.906	23.106	17.6	26.	52.	77.4
01060 MOLYBDENUM, DISSOLVED (UG/L AS MO)	12/15/76-03/21/79	8	0.	0.	0.	0.	0.	0.	**	**	**	**
01062 MOLYBDENUM, TOTAL (UG/L AS MO)	04/12/76-12/18/79	24	0.	2.5	40.	0.	80.435	8.969	0.	0.	0.	10.
01067 NICKEL, TOTAL (UG/L AS NI)	10/27/76-10/02/97	82	7.	6.939	21.	0.	18.317	4.28	2.5	2.5	10.	12.7
01077 SILVER, TOTAL (UG/L AS AG)	10/27/76-10/02/97	92	0.1	0.485	5.	0.	0.894	0.945	0.	0.	1.	1.
01087 VANADIUM, TOTAL (UG/L AS V)	04/12/76-12/18/79	37	0.	1.189	20.	0.	20.991	4.582	0.	0.	0.	2.
01092 ZINC, TOTAL (UG/L AS ZN)	10/27/76-10/02/97	97	5.	7.619	95.	0.	124.551	11.16	1.	3.	8.	14.2
01097 ANTIMONY, TOTAL (UG/L AS SB)	06/28/82-06/10/97	26##	1.	6.	71.	0.	226.3	15.043	0.	1.	1.875	17.5
01105 ALUMINUM, TOTAL (UG/L AS AL)	10/27/76-01/27/82	47	331.	401.511	1430.	7.	120669.647	347.375	61.2	150.	520.	1002.
01132 LITHIUM, TOTAL (UG/L AS LI)	04/12/76-01/27/82	50	43.5	42.9	56.	30.	21.847	4.674	38.	39.75	46.	48.
01145 SELENIUM, DISSOLVED (UG/L AS SE)	02/25/77-09/20/77	8	2.	1.75	3.	0.	1.071	1.035	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	10/27/76-07/08/97	71	1.	1.444	4.	0.	0.661	0.813	1.	1.	2.	2.9
30295 PROPACHLOR, WATER, WHOLE, RECOVERABLE, UG/L	06/12/89-06/12/89	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/22/75-09/29/81	42	2.5	3.668	25.	0.	28.172	5.308	0.	1.	4.	9.7
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/22/75-09/29/81	42	0.389	0.354	1.398	-1.398	0.218	0.467	0.	0.	0.602	0.986
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		2.257								
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/28/82-05/12/97	18##	5.	5.111	10.	0.	3.163	1.779	4.5	5.	5.	7.3
34292 N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	8##	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
34336 DIETHYL PHTHALATE TOTWUG/L	06/05/84-08/11/86	8##	0.245	0.245	0.245	0.245	0.	0.	**	**	**	**
34341 DIMETHYL PHTHALATE TOTWUG/L	06/05/84-08/11/86	8##	0.145	0.145	0.145	0.145	0.	0.	**	**	**	**
34361 ENDOSULFAN, ALPHA TOTWUG/L	07/28/81-05/30/95	31##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
34596 DI-N-OCTYL PHTHALATE TOTWUG/L	06/05/84-08/11/86	8##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39026 STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	07/28/81-08/07/91	24##	0.225	0.225	0.4	0.05	0.032	0.179	0.05	0.05	0.4	0.4

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

Parameter Inventory for Station: MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39033 ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/08/87-08/06/97	24##	0.05	0.102	0.4	0.05	0.009	0.093	0.05	0.05	0.1	0.25
39055 SIMAZINE IN WHOLE WATER (UG/L)	06/08/87-08/06/97	24##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39100 BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	8##	1.	1.	1.	1.	0.	0.	**	**	**	**
39110 DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	8##	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
39315 O,P' DDD IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/11/86	14##	0.013	0.013	0.015	0.013	0.	0.001	0.013	0.013	0.013	0.015
39330 ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	38##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39337 ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/12/89-08/07/89	2##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/28/81-08/06/97	39##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39356 METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/08/87-08/06/97	24##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	38##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39370 DDT IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	38##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	38##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39388 ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	08/15/95-08/06/97	7##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39390 ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	38##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39400 TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	38##	0.05	0.161	0.4	0.05	0.027	0.165	0.05	0.05	0.4	0.4
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	38##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	38##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	01/31/80-08/06/97	44##	0.05	0.211	0.5	0.	0.049	0.221	0.05	0.05	0.5	0.5
39570 DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/08/87-08/06/97	24##	0.05	0.047	0.05	0.015	0.	0.01	0.033	0.05	0.05	0.05
39782 LINDANE IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	38##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/11/71-12/03/75	27	494.	484.593	570.	262.	3655.943	60.464	432.	464.	512.	558.
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/07/70-10/02/97	130	0.01	0.014	0.11	0.	0.	0.016	0.	0.005	0.02	0.03
71845 NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	02/09/76-02/09/76	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	101	0.	0.135	3.	0.	0.143	0.378	0.	0.	0.1	0.24
72030 ELEVATION OF RESERVOIR POOL (FT ABOVE MSL)	02/09/76-10/24/78	18	1207.55	1204.178	1208.3	1160.	123.585	11.117	1199.96	1205.075	1208.	1208.21
77729 RAMROD WHOLE WATER,UG/L	06/08/87-08/06/97	23##	0.05	0.046	0.05	0.	0.	0.014	0.02	0.05	0.05	0.05
77825 ALACHLOR WHOLE WATER,UG/L	06/08/87-08/06/97	24##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
81283 BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	07/28/81-08/06/97	36##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
81284 TRIFLURALIN(C13H16F3N304) WHOLE WATER SAMPLE UG/L	06/06/94-08/06/97	10##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
81408 METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/08/87-08/06/97	23##	0.05	0.057	0.1	0.05	0.	0.017	0.05	0.05	0.05	0.1
82052 BANVEL (DICAMBA) WHOLE WATER,UG/L	06/06/94-08/06/97	10##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
82611 METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/12/89-06/12/89	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: MNRR0040

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	184	2	0.01	12	0	0.00	31	1	0.03	80	1	0.01	61	0	0.00
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	154	0	0.00	9	0	0.00	22	0	0.00	63	0	0.00	60	0	0.00
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	48	0	0.00	6	0	0.00	6	0	0.00	19	0	0.00	17	0	0.00
00400 PH	Fresh Chronic	9.	191	5	0.03	14	0	0.00	27	2	0.07	84	3	0.04	66	0	0.00
	Other-Lo Lim.	6.5	191	1	0.01	14	0	0.00	27	0	0.00	84	0	0.00	66	1	0.02
00403 PH, LAB	Fresh Chronic	9.	8	0	0.00				1	0	0.00	4	0	0.00	3	0	0.00
	Other-Lo Lim.	6.5	8	0	0.00				1	0	0.00	4	0	0.00	3	0	0.00
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	83	0	0.00	6	0	0.00	20	0	0.00	30	0	0.00	27	0	0.00
00618 NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	4	1	0.25	1	1	1.00				2	0	0.00	1	0	0.00
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	218	0	0.00	14	0	0.00	32	0	0.00	94	0	0.00	78	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	9	0	0.00				1	0	0.00	4	0	0.00	4	0	0.00
00720 CYANIDE, TOTAL	Fresh Acute	0.022	29	0	0.00				3	0	0.00	13	0	0.00	13	0	0.00
	Drinking Water	0.2	29	0	0.00				3	0	0.00	13	0	0.00	13	0	0.00
00722 CYANIDE, FREE (AMENABLE TO CHLORINATION)	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.	145	0	0.00	13	0	0.00	17	0	0.00	59	0	0.00	56	0	0.00
	Drinking Water	250.	145	0	0.00	13	0	0.00	17	0	0.00	59	0	0.00	56	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	174	12	0.07	14	0	0.00	17	0	0.00	79	9	0.11	64	3	0.05
00951 FLUORIDE, TOTAL AS F	Drinking Water	4.	35	1	0.03	6	0	0.00	6	0	0.00	10	1	0.10	13	0	0.00
01002 ARSENIC, TOTAL	Fresh Acute	360.	97	0	0.00	6	0	0.00	18	0	0.00	38	0	0.00	35	0	0.00
	Drinking Water	50.	97	0	0.00	6	0	0.00	18	0	0.00	38	0	0.00	35	0	0.00

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

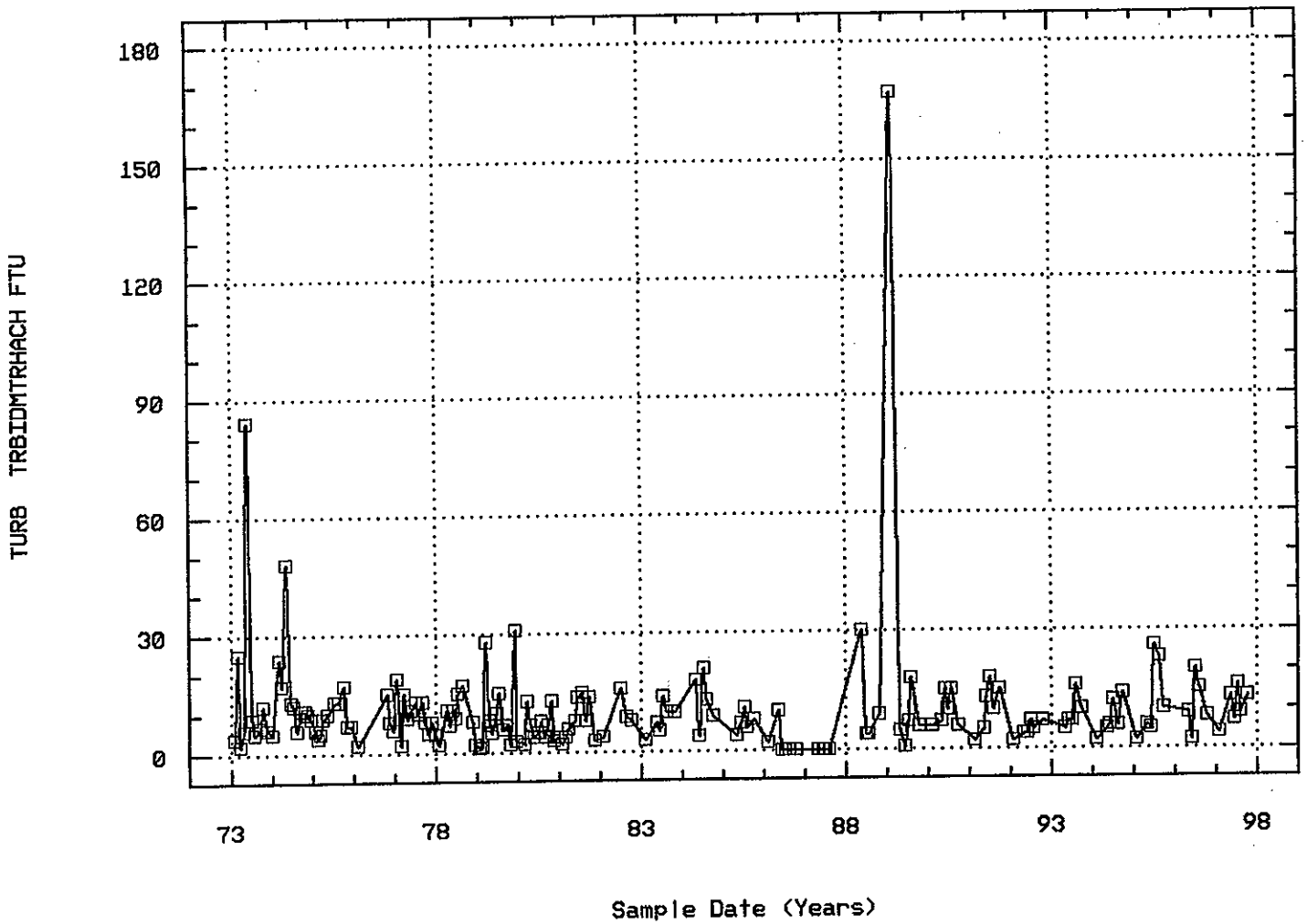
EPA Water Quality Criteria Analysis for Station: MNRR0040

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
01005 BARIUM, DISSOLVED	Drinking Water	2000.	6	0	0.00				3	0	0.00	2	0	0.00	1	0	0.00
01007 BARIUM, TOTAL	Drinking Water	2000.	58	0	0.00	7	0	0.00	6	0	0.00	33	0	0.00	12	0	0.00
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	98	0	0.00	7	0	0.00	18	0	0.00	39	0	0.00	34	0	0.00
	Drinking Water	4.	98	0	0.00	7	0	0.00	18	0	0.00	39	0	0.00	34	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	97	8	0.08	7	1	0.14	19	2	0.11	37	3	0.08	34	2	0.06
	Drinking Water	5.	97	8	0.08	7	1	0.14	19	2	0.11	37	3	0.08	34	2	0.06
01034 CHROMIUM, TOTAL	Drinking Water	100.	96	0	0.00	7	0	0.00	19	0	0.00	37	0	0.00	33	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	96	1	0.01	7	0	0.00	18	0	0.00	36	1	0.03	35	0	0.00
	Drinking Water	1300.	96	0	0.00	7	0	0.00	18	0	0.00	36	0	0.00	35	0	0.00
01051 LEAD, TOTAL	Fresh Acute	82.	93	4	0.04	7	0	0.00	18	0	0.00	37	3	0.08	31	1	0.03
	Drinking Water	15.	93	27	0.29	7	4	0.57	18	5	0.28	37	12	0.32	31	6	0.19
01067 NICKEL, TOTAL	Fresh Acute	1400.	82	0	0.00	7	0	0.00	8	0	0.00	33	0	0.00	34	0	0.00
	Drinking Water	100.	82	0	0.00	7	0	0.00	8	0	0.00	33	0	0.00	34	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	89&	0	0.00	7	0	0.00	17	0	0.00	33	0	0.00	32	0	0.00
	Drinking Water	100.	92	0	0.00	7	0	0.00	17	0	0.00	34	0	0.00	34	0	0.00
01092 ZINC, TOTAL	Fresh Acute	120.	97	0	0.00	7	0	0.00	18	0	0.00	37	0	0.00	35	0	0.00
	Drinking Water	5000.	97	0	0.00	7	0	0.00	18	0	0.00	37	0	0.00	35	0	0.00
01097 ANTIMONY, TOTAL	Fresh Acute	88.	26	0	0.00							18	0	0.00	8	0	0.00
	Drinking Water	6.	24&	3	0.13							17	1	0.06	7	2	0.29
01145 SELENIUM, DISSOLVED	Fresh Acute	20.	8	0	0.00				1	0	0.00	4	0	0.00	3	0	0.00
	Drinking Water	50.	8	0	0.00				1	0	0.00	4	0	0.00	3	0	0.00
01147 SELENIUM, TOTAL	Fresh Acute	20.	71	0	0.00	7	0	0.00	8	0	0.00	39	0	0.00	17	0	0.00
	Drinking Water	50.	71	0	0.00	7	0	0.00	8	0	0.00	39	0	0.00	17	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	42	0	0.00	8	0	0.00	8	0	0.00	13	0	0.00	13	0	0.00
34361 ENDOSULFAN, ALPHA	Fresh Acute	0.22	31	0	0.00							14	0	0.00	17	0	0.00
39033 ATRAZINE IN WHOLE WATER SAMPLE	Drinking Water	3.	24	0	0.00							13	0	0.00	11	0	0.00
39055 SIMAZINE IN WHOLE WATER	Drinking Water	4.	24	0	0.00							13	0	0.00	11	0	0.00
39100 BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	8	0	0.00							4	0	0.00	4	0	0.00
	Drinking Water	6.	8	0	0.00							4	0	0.00	4	0	0.00
39330 ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	38	0	0.00							18	0	0.00	20	0	0.00
39350 CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	39	0	0.00							19	0	0.00	20	0	0.00
	Drinking Water	2.	39	0	0.00							19	0	0.00	20	0	0.00
39365 DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	38	0	0.00							18	0	0.00	20	0	0.00
39370 DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	38	0	0.00							18	0	0.00	20	0	0.00
39380 DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	38	0	0.00							18	0	0.00	20	0	0.00
39388 ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	7	0	0.00							4	0	0.00	3	0	0.00
39390 ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	38	0	0.00							18	0	0.00	20	0	0.00
	Drinking Water	2.	38	0	0.00							18	0	0.00	20	0	0.00
39400 TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	38	0	0.00							18	0	0.00	20	0	0.00
	Drinking Water	3.	38	0	0.00							18	0	0.00	20	0	0.00
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	38	0	0.00							18	0	0.00	20	0	0.00
	Drinking Water	0.2	38	0	0.00							18	0	0.00	20	0	0.00
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	38	0	0.00							18	0	0.00	20	0	0.00
39782 LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	38	0	0.00							18	0	0.00	20	0	0.00
	Drinking Water	0.2	38	0	0.00							18	0	0.00	20	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	101	1	0.01	11	1	0.09	16	0	0.00	33	0	0.00	41	0	0.00
	Drinking Water	2.	101	1	0.01	11	1	0.09	16	0	0.00	33	0	0.00	41	0	0.00
81283 BENZENEHEXACHLORIDE, WHOLE WATER	Fresh Acute	100.	36	0	0.00							17	0	0.00	19	0	0.00

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

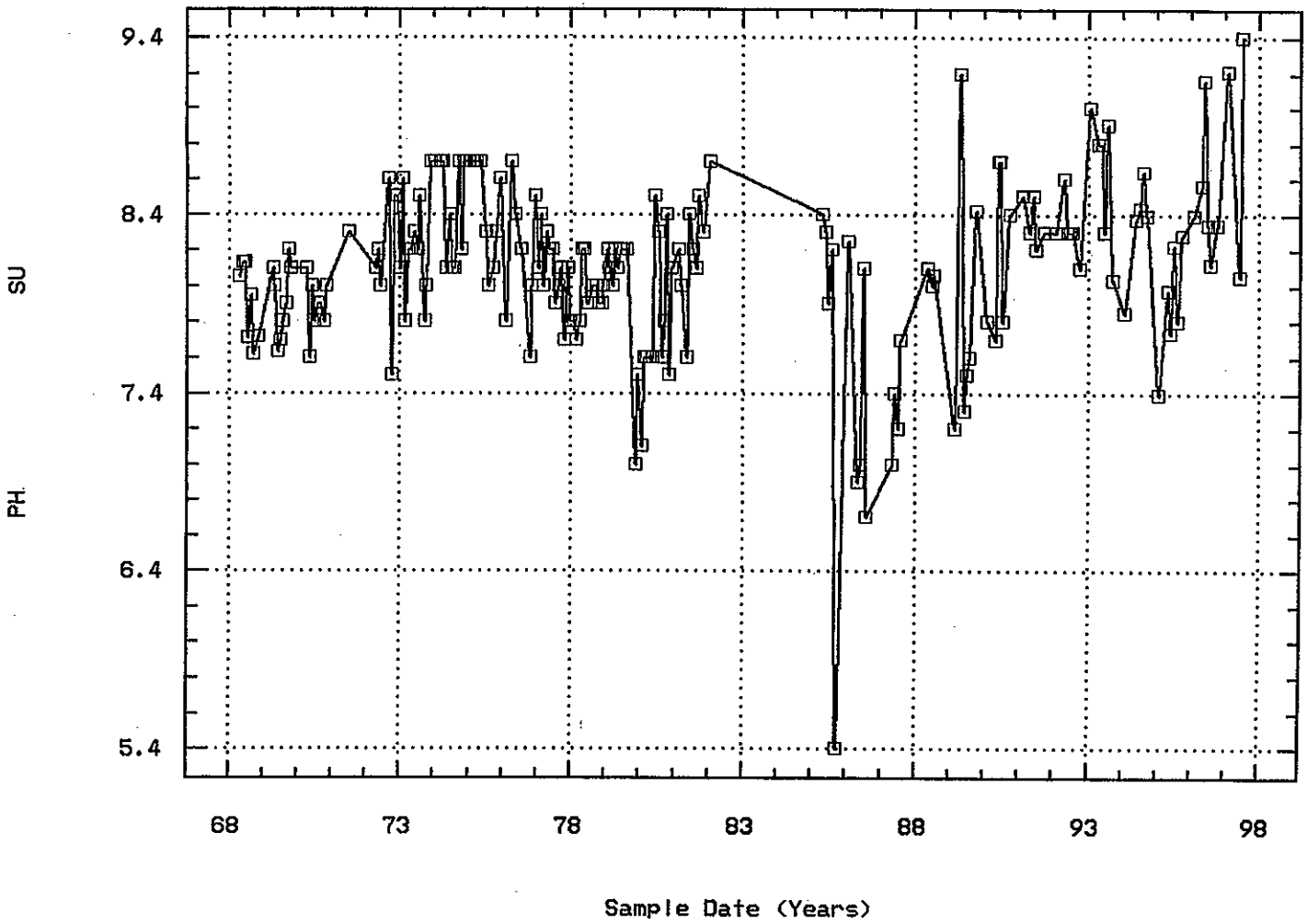
Station: MNRR0040 Parameter Code: 00076

TURBIDITY,HACH TURBIDIMETER (FORMAZIN T



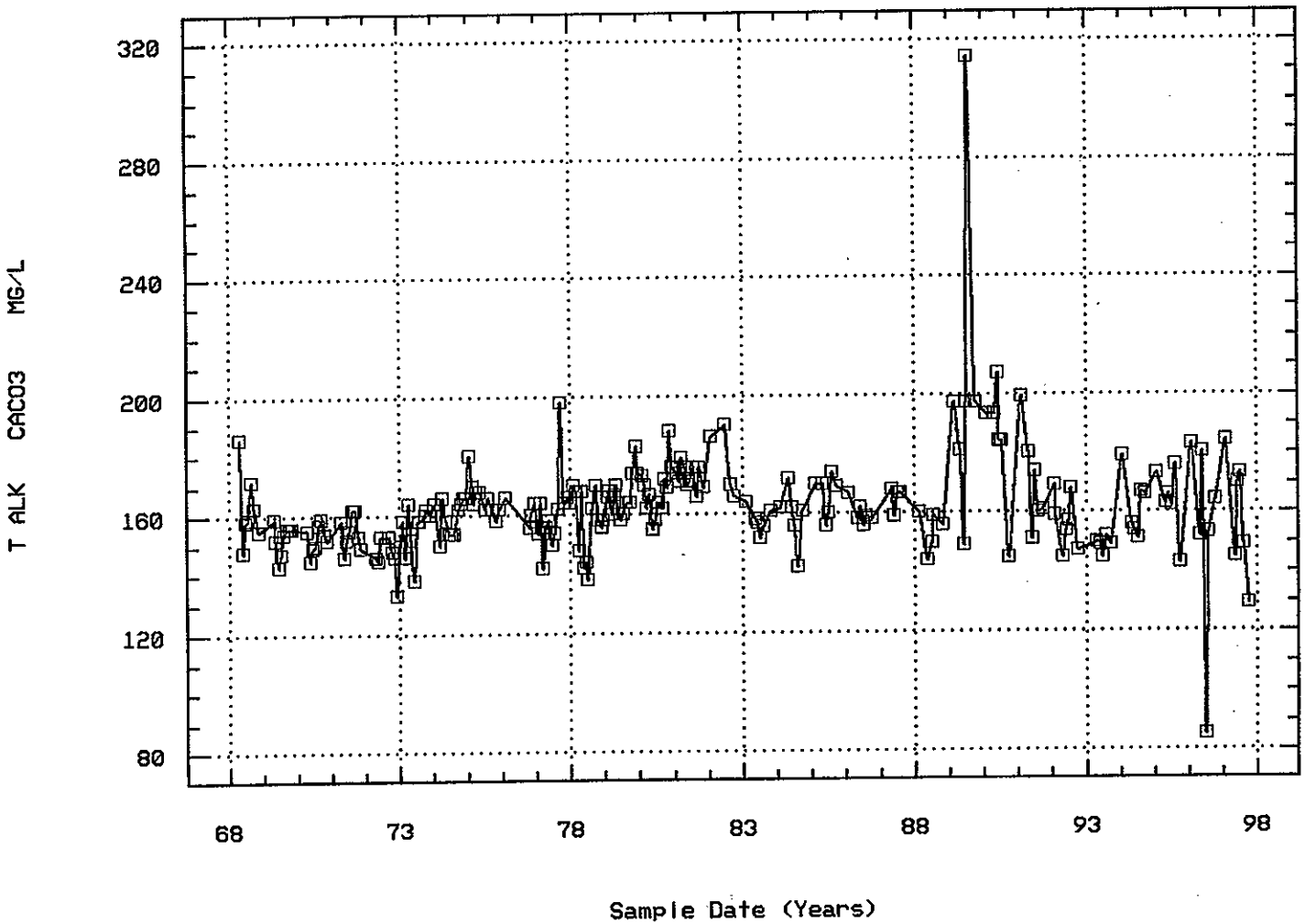
Station: MNRR0040 Parameter Code: 00400

PH (STANDARD UNITS)



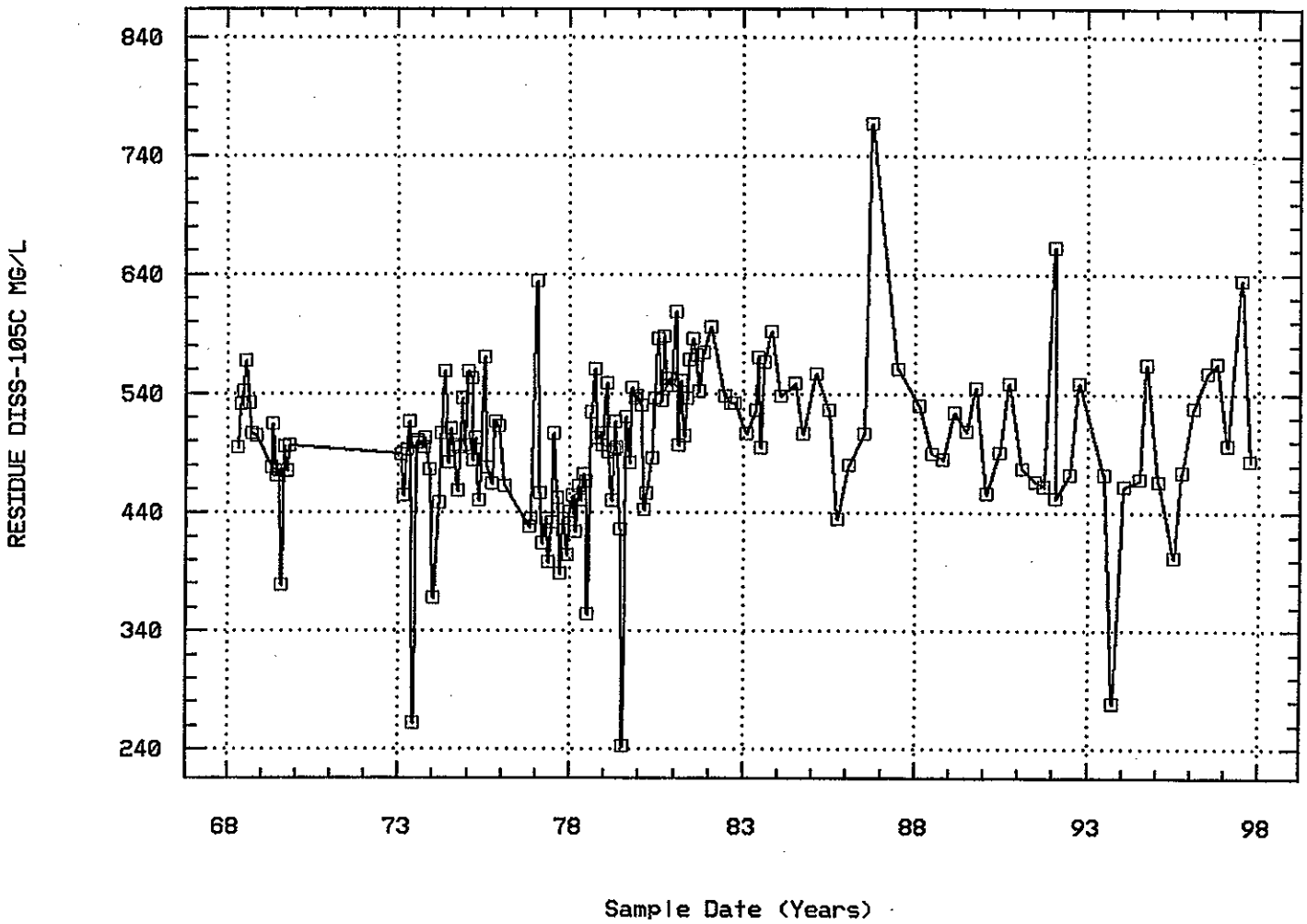
Station: MNRR0040 Parameter Code: 00410

ALKALINITY, TOTAL (MG/L AS CACO3)



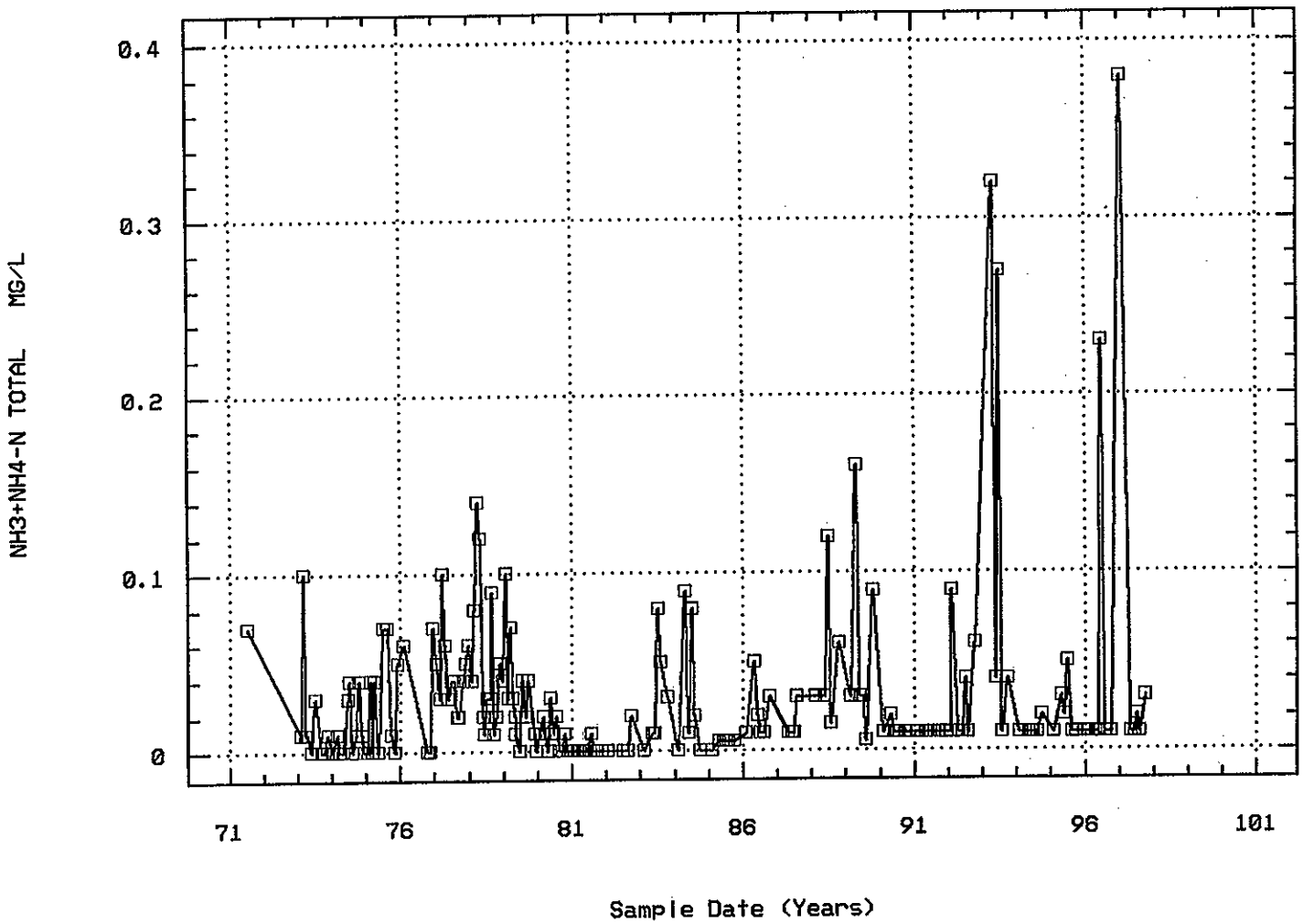
Station: MNRR0040 Parameter Code: 00515

RESIDUE, TOTAL FILTRABLE (DRIED AT 105



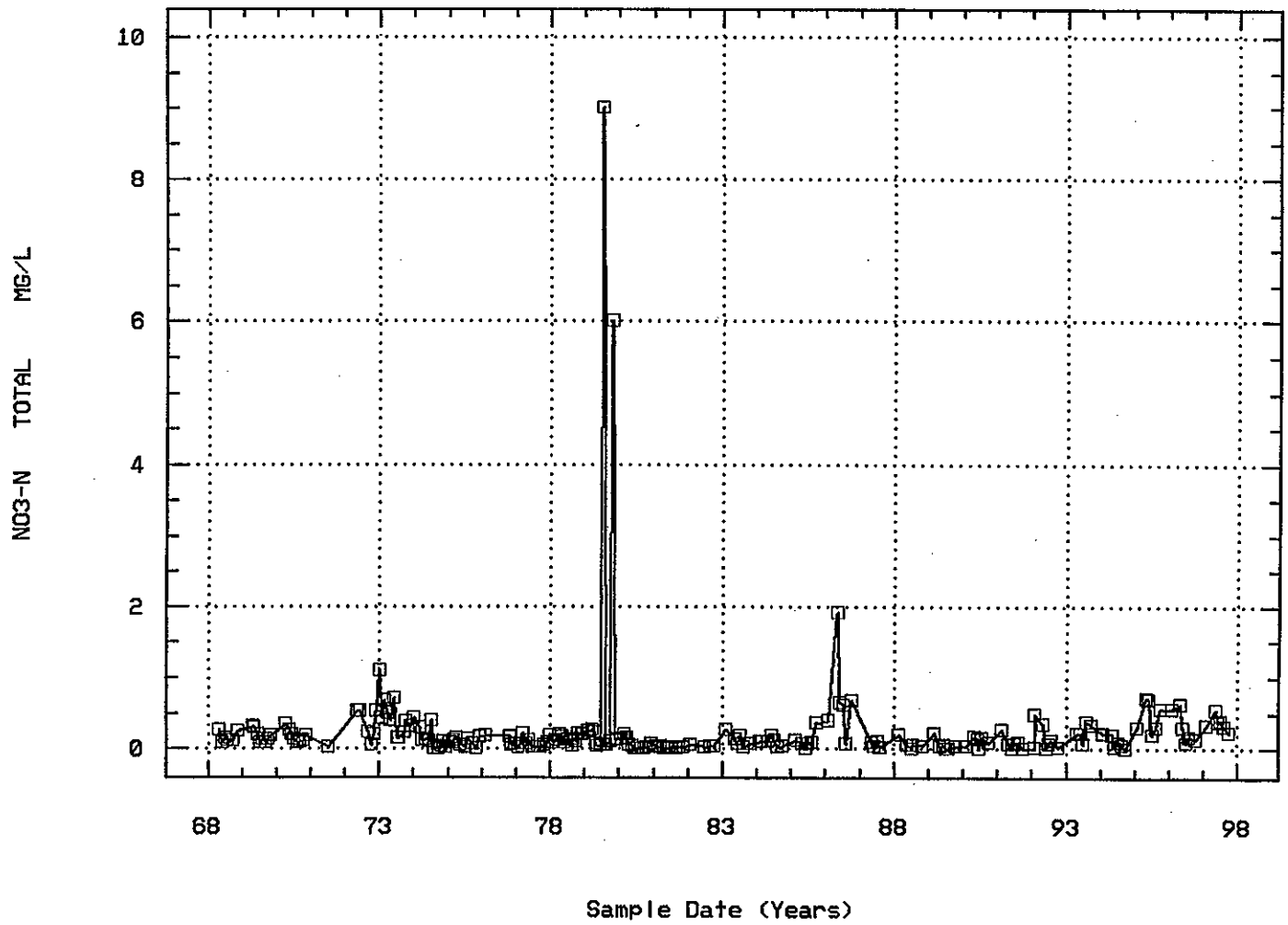
Station: MNRR0040 Parameter Code: 00610

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



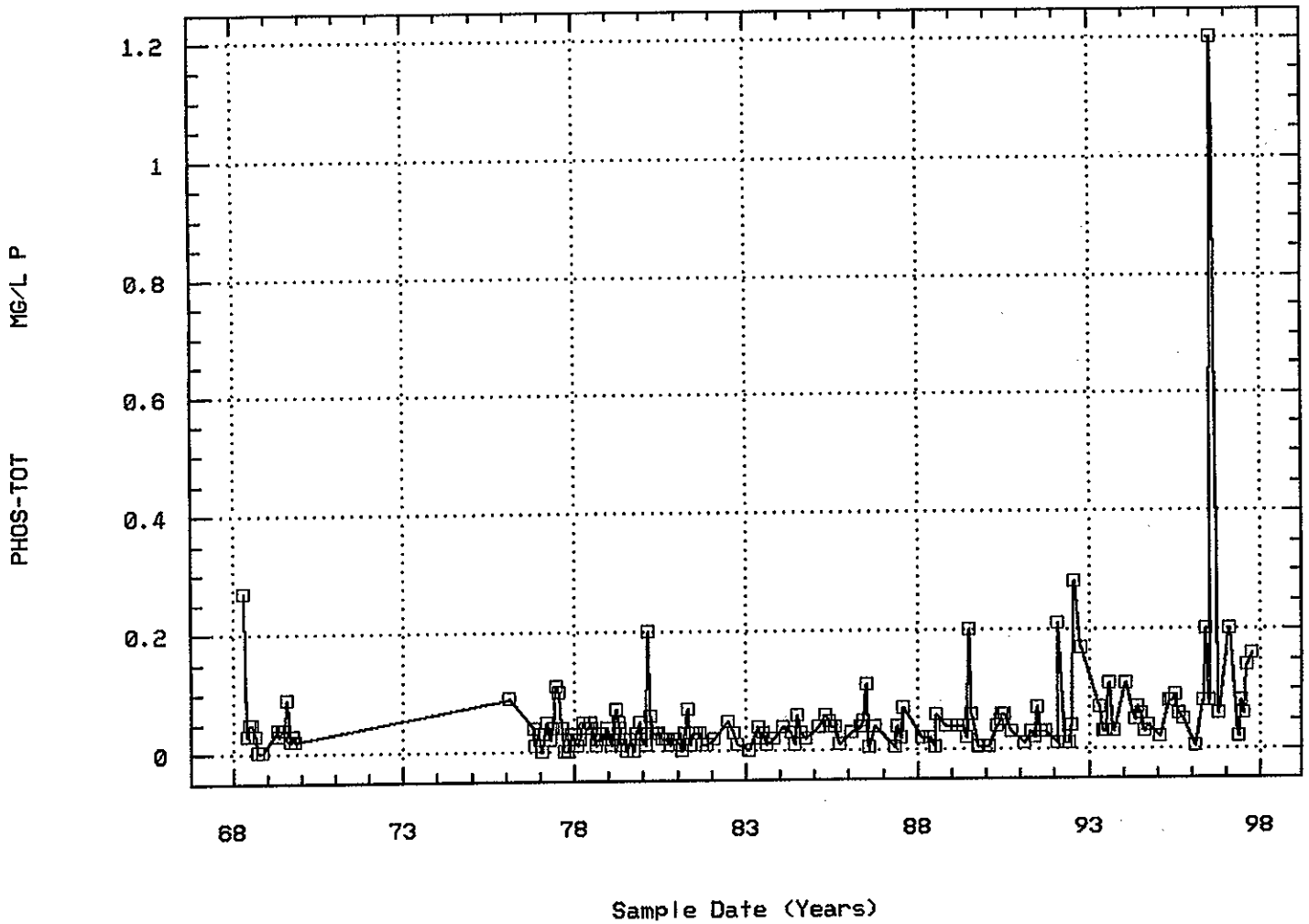
Station: MNRR0040 Parameter Code: 00620

NITRATE NITROGEN, TOTAL (MG/L AS N)



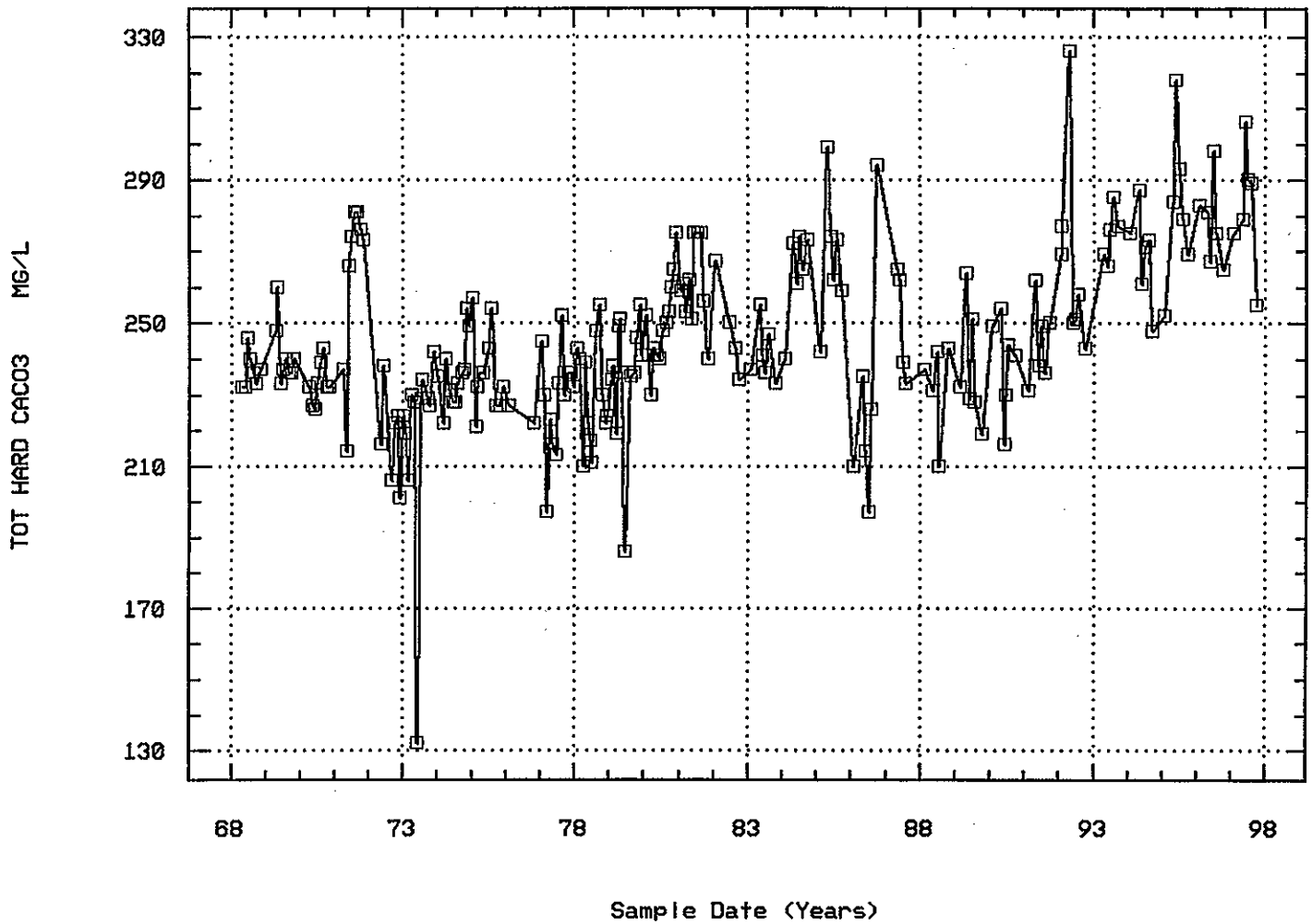
Station: MNRR0040 Parameter Code: 00665

PHOSPHORUS, TOTAL (MG/L AS P)



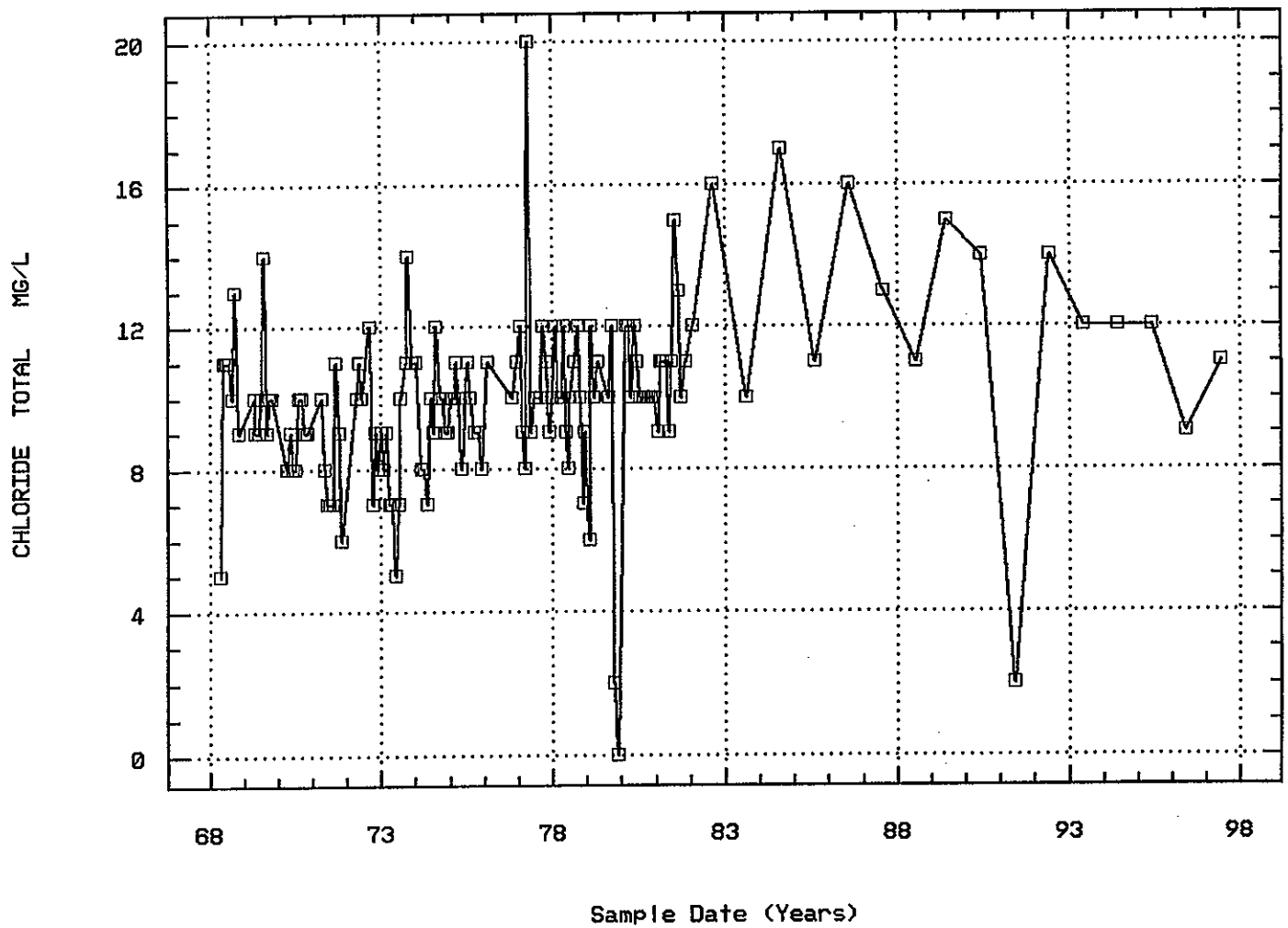
Station: MNRR0040 Parameter Code: 00900

HARDNESS, TOTAL (MG/L AS CACO3)



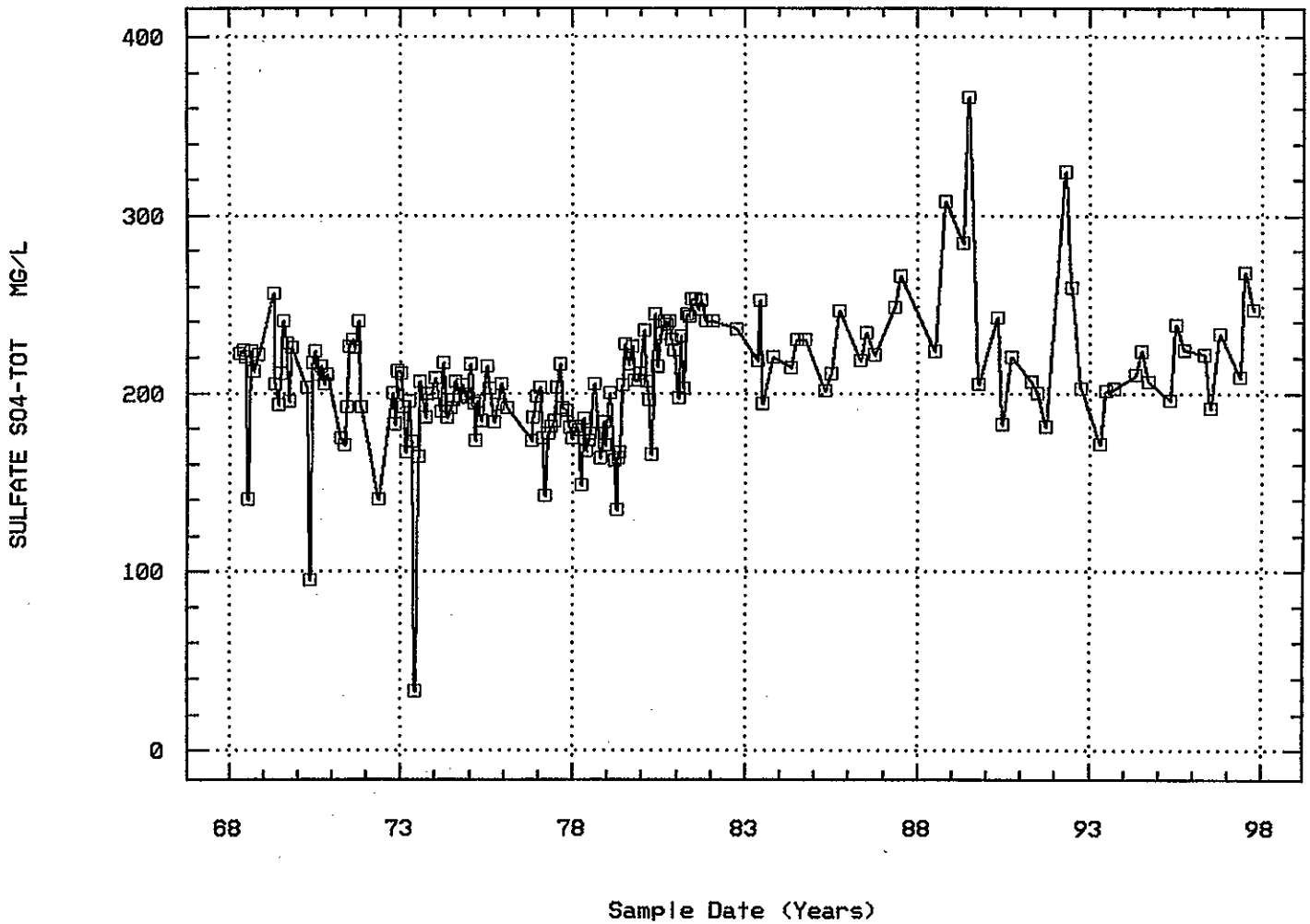
Station: MNRR0040 Parameter Code: 00940

CHLORIDE,TOTAL IN WATER



Station: MNRR0040 Parameter Code: 00945

SULFATE, TOTAL (MG/L AS SO4)



Annual Analysis for 1968 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	7	7.95	7.901	8.13	7.62	0.046	0.215	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	7	7.95	7.856	8.13	7.62	0.049	0.221	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	7	0.011	0.014	0.024	0.007	0.	0.007	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	7	159.	163.	186.	148.	156.667	12.517	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	7	531.	525.143	567.	494.	650.143	25.498	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	6	0.135	0.163	0.26	0.08	0.006	0.074	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	7	0.03	0.062	0.27	0.002	0.009	0.094	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	7	236.	236.571	246.	232.	25.952	5.094	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	7	11.	10.	13.	5.	6.333	2.517	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	7	221.	208.857	224.	140.	937.476	30.618	**	**	**	**

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

Annual Analysis for 1969 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	8	7.95	7.929	8.2	7.63	0.042	0.206	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	8	7.947	7.886	8.2	7.63	0.044	0.211	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	8	0.011	0.013	0.023	0.006	0.	0.006	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	8	155.	152.875	159.	143.	28.696	5.357	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	8	476.5	472.875	514.	379.	1652.411	40.65	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	8	0.16	0.176	0.31	0.08	0.007	0.086	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	8	0.035	0.039	0.09	0.02	0.	0.022	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	8	238.5	241.25	260.	233.	77.357	8.795	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	8	10.	10.125	14.	9.	2.696	1.642	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	8	218.	219.125	256.	193.	491.268	22.165	**	**	**	**

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

Annual Analysis for 1970 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	6	12.5	12.662	25.5	0.07	92.866	9.637	**	**	**	**
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	8	7.9	7.888	8.1	7.6	0.024	0.155	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	8	7.9	7.862	8.1	7.6	0.025	0.158	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	8	0.013	0.014	0.025	0.008	0.	0.005	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	8	153.	152.625	159.	145.	20.839	4.565	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	8	0.16	0.179	0.34	0.09	0.007	0.086	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	8	232.	233.	243.	226.	32.	5.657	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	8	9.	8.875	10.	8.	0.696	0.835	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	8	210.	197.25	223.	95.	1748.786	41.818	**	**	**	**

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

Annual Analysis for 1971 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	1	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	8	154.	154.625	162.	146.	33.696	5.805	**	**	**	**

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

Annual Analysis for 1971 - Station MNRR0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		07/11/71-10/02/97	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)		05/01/68-10/02/97	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	8	273.5	262.75	281.	214.	589.071	24.271	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	05/01/68-06/10/97	8	7.5	8.125	11.	6.	2.982	1.727	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		05/01/68-10/02/97	8	208.5	206.125	240.	170.	743.554	27.268	**	**	**	**

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

Annual Analysis for 1972 - Station MNRR0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/07/70-07/08/97	7	10.5	12.029	20.	1.	44.232	6.651	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		07/11/71-10/02/97	6	13.65	15.333	30.	3.5	115.875	10.765	**	**	**	**
00400 PH (STANDARD UNITS)		05/01/68-07/08/97	7	8.2	8.2	8.6	7.5	0.147	0.383	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		05/01/68-07/08/97	7	8.2	8.034	8.6	7.5	0.179	0.423	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/01/68-07/08/97	7	0.006	0.009	0.032	0.003	0.	0.01	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	7	146.	146.286	153.	133.	45.238	6.726	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)		05/01/68-10/02/97	6	0.375	0.34	0.53	0.05	0.044	0.21	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	6	219.	217.833	238.	201.	177.767	13.333	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	05/01/68-06/10/97	7	10.	9.571	12.	7.	2.952	1.718	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		05/01/68-10/02/97	4	191.	183.5	212.	140.	993.	31.512	**	**	**	**

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

Annual Analysis for 1973 - Station MNRR0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/07/70-07/08/97	11	10.	11.727	25.5	1.	85.618	9.253	1.1	2.	18.	25.4
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		07/11/71-10/02/97	9	13.5	12.111	25.5	0.	76.111	8.724	0.	4.75	19.5	25.5
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		02/06/73-10/02/97	10	6.5	15.99	84.	2.	612.67	24.752	2.2	4.675	15.25	78.1
00400 PH (STANDARD UNITS)		05/01/68-07/08/97	12	8.2	8.217	8.7	7.8	0.08	0.282	7.8	8.025	8.45	8.67
00400 CONVERTED PH (STANDARD UNITS)		05/01/68-07/08/97	12	8.2	8.137	8.7	7.8	0.087	0.294	7.8	8.025	8.45	8.67
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/01/68-07/08/97	12	0.006	0.007	0.016	0.002	0.	0.005	0.002	0.004	0.009	0.016
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	11	158.	155.091	164.	138.	61.091	7.816	139.6	150.	160.	163.6
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		05/01/68-10/02/97	10	493.	468.2	516.	262.	5525.733	74.335	281.2	470.5	500.5	514.6
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		07/11/71-10/02/97	9	0.01	0.019	0.1	0.	0.001	0.032	0.	0.	0.02	0.1
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)		05/01/68-10/02/97	11	0.39	0.457	1.1	0.15	0.079	0.282	0.15	0.23	0.68	1.02
00900 HARDNESS, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	11	228.	218.182	242.	132.	897.564	29.959	146.8	219.	230.	240.4
00940 CHLORIDE,TOTAL IN WATER	MG/L	05/01/68-06/10/97	11	9.	8.909	14.	5.	6.291	2.508	5.4	7.	11.	13.4
00945 SULFATE, TOTAL (MG/L AS SO4)		05/01/68-10/02/97	11	192.	174.909	211.	33.	2464.291	49.642	59.2	166.	200.	210.

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

Annual Analysis for 1974 - Station MNRR0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/07/70-07/08/97	11	13.	10.682	23.5	0.	88.714	9.419	0.1	0.5	21.	23.2
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		07/11/71-10/02/97	8	17.	19.625	35.	9.	100.482	10.024	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		02/06/73-10/02/97	11	11.	15.091	48.	5.	146.091	12.087	5.2	9.	17.	43.2
00400 PH (STANDARD UNITS)		05/01/68-07/08/97	11	8.7	8.464	8.7	8.1	0.081	0.284	8.1	8.1	8.7	8.7
00400 CONVERTED PH (STANDARD UNITS)		05/01/68-07/08/97	11	8.7	8.378	8.7	8.1	0.089	0.298	8.1	8.1	8.7	8.7
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/01/68-07/08/97	11	0.002	0.004	0.008	0.002	0.	0.003	0.002	0.002	0.008	0.008
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	11	162.	159.818	166.	150.	35.564	5.964	150.8	154.	166.	166.

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

Annual Analysis for 1974 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	11	496.	486.545	558.	368.	2508.873	50.089	384.	458.	510.	553.6
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	11	0.01	0.013	0.04	0.	0.	0.016	0.	0.	0.03	0.04
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	11	0.1	0.146	0.42	0.	0.024	0.154	0.	0.02	0.29	0.416
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	11	235.	235.727	254.	222.	86.818	9.318	223.2	228.	240.	253.
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	11	9.	9.364	12.	7.	2.055	1.433	7.2	8.	10.	11.8
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	11	198.	199.182	217.	186.	82.564	9.086	186.6	191.	206.	215.2
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	6	0.5	0.833	3.	0.	1.367	1.169	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	10	6.	9.15	24.	0.	97.003	9.849	0.05	0.5	18.125	23.9
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	6	5.5	7.567	20.	1.4	51.587	7.182	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	10	8.	9.1	17.	4.	17.211	4.149	4.1	5.75	13.	16.6
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	2	756.5	756.5	793.	720.	2664.5	51.619	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	2	7.4	7.4	7.6	7.2	0.08	0.283	**	**	**	**
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	10	8.65	8.48	8.7	8.	0.077	0.278	8.01	8.25	8.7	8.7
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	10	8.647	8.393	8.7	8.	0.086	0.293	8.01	8.25	8.7	8.7
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	10	0.002	0.004	0.01	0.002	0.	0.003	0.002	0.002	0.006	0.01
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	10	165.	166.	180.	158.	37.333	6.11	158.4	162.	168.5	179.
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	10	507.	508.6	570.	450.	1685.378	41.053	451.4	474.5	553.5	568.8
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	10	0.025	0.028	0.07	0.	0.001	0.029	0.	0.	0.055	0.07
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	10	0.09	0.088	0.17	0.	0.003	0.055	0.002	0.043	0.135	0.168
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	10	234.	236.5	257.	221.	136.722	11.693	221.6	227.	245.75	256.7
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	10	10.	9.6	11.	8.	1.156	1.075	8.	8.75	10.25	11.
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	10	194.5	196.	216.	173.	192.667	13.88	174.	183.75	207.5	215.9
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	9	0.	0.222	1.	0.	0.194	0.441	0.	0.	0.5	1.

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

Annual Analysis for 1976 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	19	23.	16.737	25.	0.	92.79	9.633	0.5	7.5	23.5	24.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	6	13.5	14.167	30.	2.	108.567	10.42	**	**	**	**
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	6	5.	18.333	50.	0.	616.667	24.833	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	4	7.	7.75	15.	2.	29.583	5.439	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	7	670.	682.857	740.	650.	1257.143	35.456	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	19	6.9	8.021	14.1	4.9	6.822	2.612	5.8	6.5	8.3	13.
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	7	8.2	8.171	8.7	7.6	0.156	0.395	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	7	8.2	8.023	8.7	7.6	0.181	0.426	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	7	0.006	0.009	0.025	0.002	0.	0.008	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	4	162.	161.5	166.	156.	19.667	4.435	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	3	434.	441.333	462.	428.	329.333	18.148	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	4	0.03	0.033	0.07	0.	0.001	0.038	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	4	0.115	0.115	0.18	0.05	0.005	0.07	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	3	0.17	0.19	0.4	0.	0.04	0.201	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	4	0.035	0.043	0.09	0.01	0.001	0.034	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	2	224.5	224.5	227.	222.	12.5	3.536	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	3	54.	55.333	58.	54.	5.333	2.309	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	3	21.	21.1	21.3	21.	0.03	0.173	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	3	11.	10.667	11.	10.	0.333	0.577	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	4	188.5	187.	198.	173.	111.333	10.551	**	**	**	**

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

Annual Analysis for 1976 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	4	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Annual Analysis for 1977 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	13	11.5	10.715	26.5	0.	105.478	10.27	0.2	0.65	20.75	25.3
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	11	12.	13.136	23.	3.	55.505	7.45	3.1	7.	22.	22.8
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	12	95.	68.5	100.	0.	1608.818	40.11	0.6	35.	100.	100.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	12	9.5	9.8	19.	2.	22.88	4.783	2.78	5.75	13.	17.8
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	13	690.	683.846	780.	550.	3142.308	56.056	578.	665.	720.	760.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	13	11.5	11.038	14.5	7.5	6.448	2.539	7.66	8.4	13.4	14.22
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	12	8.1	8.067	8.4	7.7	0.041	0.202	7.73	7.925	8.2	8.37
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	12	8.1	8.023	8.4	7.7	0.043	0.207	7.73	7.925	8.2	8.37
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	12	0.008	0.009	0.02	0.004	0.	0.005	0.004	0.006	0.012	0.019
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	12	160.	161.	198.	142.	185.091	13.605	144.4	154.	164.	188.4
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	12	434.	449.333	634.	388.	4356.606	66.005	391.	406.5	455.	595.6
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	12	0.04	0.045	0.1	0.02	0.	0.022	0.02	0.03	0.058	0.088
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	12	0.055	0.07	0.21	0.01	0.004	0.067	0.01	0.02	0.105	0.201
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	12	0.375	0.387	0.6	0.11	0.022	0.148	0.137	0.308	0.495	0.6
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	12	0.03	0.037	0.11	0.	0.001	0.036	0.	0.005	0.048	0.107
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	12	231.	228.583	252.	197.	217.538	14.749	201.8	217.75	236.	249.9
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	11	57.	56.455	60.	51.	9.273	3.045	51.2	54.	59.	60.
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	3	21.	20.	22.	17.	7.	2.646	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	12	10.	10.833	20.	8.	9.788	3.129	8.3	9.	11.75	17.6
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	12	182.5	184.583	216.	142.	351.356	18.744	151.6	174.75	200.	212.1
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	12	0.	0.058	0.5	0.	0.023	0.151	0.	0.	0.	0.41

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

Annual Analysis for 1978 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	13	7.7	10.823	24.	0.5	74.665	8.641	0.7	2.75	19.	23.2
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	8	20.75	18.813	27.	0.	86.71	9.312	**	**	**	**
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	8	57.5	49.375	100.	0.	2017.411	44.916	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	9	9.	9.111	17.	2.	26.361	5.134	2.	4.5	13.	17.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	13	690.	695.385	780.	570.	3543.59	59.528	590.	665.	750.	772.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	12	10.35	10.617	13.1	7.6	3.829	1.957	7.69	8.85	12.575	13.07
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	12	7.9	7.942	8.2	7.7	0.023	0.151	7.73	7.825	8.	8.2
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	12	7.9	7.919	8.2	7.7	0.023	0.152	7.73	7.825	8.	8.2
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	12	0.013	0.012	0.02	0.006	0.	0.004	0.006	0.01	0.015	0.019
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	12	158.	156.833	170.	138.	131.242	11.456	139.2	145.	168.	170.
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	12	469.	472.5	560.	354.	2749.909	52.44	375.	451.	505.	549.2
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	13	0.04	0.052	0.14	0.01	0.002	0.042	0.01	0.02	0.085	0.132
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	13	0.13	0.138	0.22	0.04	0.003	0.056	0.06	0.095	0.195	0.22
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	13	0.3	0.362	0.8	0.2	0.026	0.161	0.2	0.25	0.4	0.68
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	13	0.03	0.03	0.05	0.01	0.	0.014	0.01	0.02	0.04	0.05
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	12	227.	230.083	255.	210.	217.538	14.749	210.3	218.25	242.25	252.9
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	11	56.	56.727	61.	51.	11.218	3.349	51.6	54.	60.	61.
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	11	22.	36.364	191.	17.	2634.255	51.325	17.2	20.	22.	157.6
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	12	10.	10.	12.	7.	2.545	1.595	7.3	9.	11.75	12.
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	11	177.	175.545	205.	148.	208.273	14.432	151.	167.	183.	201.
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	11	0.	0.118	1.	0.	0.088	0.296	0.	0.	0.1	0.82

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

Annual Analysis for 1979 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	10	4.75	8.7	23.5	0.	96.122	9.804	0.05	0.875	20.75	23.45
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	10	15.25	8.45	27.	-22.	242.858	15.584	5.1	-7.5	23.625	-17.1
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	10	65.	64.	100.	25.	776.667	27.869	25.	43.75	85.	100.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	13	7.	9.638	31.	1.3	92.426	9.614	1.42	2.5	12.5	29.8
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	10	760.	758.	850.	640.	3662.222	60.516	648.	720.	800.	848.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	9	12.2	11.122	13.6	7.7	5.582	2.363	7.7	8.35	13.15	13.6
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	10	8.15	7.97	8.2	7.	0.162	0.403	7.05	7.875	8.2	8.2
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	10	8.147	7.723	8.2	7.	0.23	0.479	7.05	7.875	8.2	8.2
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	10	0.007	0.019	0.1	0.006	0.001	0.03	0.006	0.006	0.015	0.093
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	13	166.	167.077	183.	158.	47.577	6.898	158.8	162.	172.	179.4
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	13	494.	482.923	548.	242.	6575.744	81.091	315.6	466.	537.	546.4
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	13	0.03	0.105	1.	0.	0.073	0.27	0.	0.01	0.055	0.64
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	13	0.14	1.272	9.	0.03	8.023	2.832	0.038	0.06	0.255	7.8
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	13	0.3	0.335	0.4	0.2	0.005	0.069	0.22	0.3	0.4	0.4
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	13	0.02	0.026	0.07	0.	0.	0.021	0.	0.01	0.045	0.062
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	12	237.	235.5	255.	186.	334.091	18.278	195.9	234.25	248.25	253.8
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	13	59.	59.454	64.	56.	8.748	2.958	56.	57.	62.15	64.
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	13	22.	21.331	25.	11.	12.411	3.523	14.04	20.65	23.05	24.32
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	8	10.	7.875	12.	0.	21.839	4.673	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	12	205.5	193.583	227.	134.	884.265	29.737	142.4	163.75	214.75	226.7
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	13	0.	0.162	1.	0.	0.093	0.304	0.	0.	0.2	0.84

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

Annual Analysis for 1980 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	11	10.5	11.273	25.	0.5	87.568	9.358	0.7	2.	22.	24.5
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	11	19.	10.091	30.	-25.	221.441	14.881	7.1	8.5	20.	-14.
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	12	20.	44.167	100.	0.	2103.788	45.867	0.	1.25	100.	100.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	12	4.5	5.917	13.	1.	15.174	3.895	1.3	3.25	7.75	13.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	11	780.	769.091	920.	450.	13729.091	117.171	506.	770.	810.	908.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	11	11.3	11.018	15.4	7.2	7.154	2.675	7.4	8.2	13.4	15.12
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	11	7.6	7.827	8.5	7.1	0.192	0.438	7.18	7.6	8.3	8.48
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	11	7.6	7.648	8.5	7.1	0.228	0.477	7.18	7.6	8.3	8.48
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	11	0.025	0.022	0.079	0.003	0.	0.022	0.003	0.005	0.025	0.07
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	12	168.	168.	188.	155.	78.909	8.883	155.9	162.	172.75	184.4
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	11	536.	527.455	588.	442.	2263.273	47.574	444.8	486.	552.	587.6
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	12	0.01	0.009	0.03	0.	0.	0.01	0.	0.	0.018	0.027
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	12	0.02	0.054	0.2	0.	0.005	0.069	0.	0.	0.115	0.185
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	12	0.2	0.198	0.4	0.02	0.02	0.143	0.02	0.048	0.3	0.4
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	12	0.02	0.039	0.2	0.01	0.003	0.052	0.01	0.02	0.03	0.158
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	12	249.	249.833	275.	230.	152.515	12.35	233.	241.	258.25	272.
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	11	61.	60.727	65.	57.	7.218	2.687	57.2	58.	63.	64.8
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	12	23.5	22.917	27.	18.	6.992	2.644	18.6	20.25	25.	26.4
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	11	10.	10.636	12.	10.	0.855	0.924	10.	10.	12.	12.
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	12	231.5	222.167	244.	165.	543.242	23.308	174.3	208.25	239.5	242.8
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	12	0.	0.033	0.2	0.	0.006	0.078	0.	0.	0.	0.2

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

Annual Analysis for 1981 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	9	14.	13.9	23.	2.	61.052	7.814	2.	7.25	21.75	23.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	9	20.5	18.944	27.5	2.	63.715	7.982	2.	14.75	25.	27.5
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	9	30.	38.333	100.	0.	1300.	36.056	0.	7.5	70.	100.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	10	7.	7.5	15.	1.	27.611	5.255	1.1	2.75	14.	14.9
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	9	800.	795.444	890.	690.	6801.778	82.473	690.	695.	870.	890.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	9	10.9	11.233	16.	8.1	7.09	2.663	8.1	8.65	13.45	16.
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	8	8.2	8.162	8.5	7.6	0.077	0.277	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	8	8.2	8.072	8.5	7.6	0.086	0.294	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	8	0.006	0.008	0.025	0.003	0.	0.007	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	10	172.5	172.8	179.	166.	16.178	4.022	166.3	169.75	176.	178.7
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	10	559.	553.6	608.	496.	1245.156	35.287	496.8	528.	577.	605.8
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	10	0.	0.001	0.01	0.	0.	0.003	0.	0.	0.	0.009
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	10	0.01	0.012	0.03	0.	0.	0.012	0.	0.	0.023	0.03
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	8	0.25	0.304	0.7	0.03	0.043	0.208	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	10	0.02	0.023	0.07	0.	0.	0.02	0.001	0.01	0.03	0.066
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	10	260.	260.7	275.	240.	135.789	11.653	241.1	252.5	275.	275.
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	10	60.	59.5	63.	51.	11.389	3.375	51.7	58.75	62.	62.9
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	10	27.	27.2	32.	23.	12.844	3.584	23.	23.75	31.	31.9
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	10	11.	11.1	15.	9.	3.211	1.792	9.	9.75	11.5	14.8
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	10	243.5	236.3	253.	197.	419.567	20.483	197.5	224.5	252.25	253.
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	10	0.	0.02	0.2	0.	0.004	0.063	0.	0.	0.	0.18

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

Annual Analysis for 1982 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	4	19.25	15.925	24.	1.2	104.756	10.235	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	4	16.	17.5	34.	4.	155.667	12.477	**	**	**	**
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	4	32.5	35.	75.	0.	1650.	40.62	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	4	8.5	9.25	16.	4.	24.917	4.992	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	1	812.	812.	812.	812.	0.	0.	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	4	8.15	9.125	12.9	7.3	6.536	2.557	**	**	**	**
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	1	8.7	8.7	8.7	8.7	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	4	178.	178.	190.	166.	138.667	11.776	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	4	535.	549.5	596.	532.	969.	31.129	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	4	0.	0.005	0.02	0.	0.	0.01	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	4	0.04	0.038	0.05	0.02	0.	0.013	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	4	0.15	0.2	0.5	0.	0.06	0.245	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	4	0.025	0.028	0.05	0.01	0.	0.017	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	4	246.5	248.5	267.	234.	195.	13.964	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	3	63.	63.2	64.6	62.	1.72	1.311	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	3	23.	23.2	25.6	21.	5.32	2.307	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	2	14.	14.	16.	12.	8.	2.828	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	2	238.	238.	240.	236.	8.	2.828	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	3	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Annual Analysis for 1983 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	4	16.	18.	28.	12.	52.167	7.223	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	6	20.	17.667	29.	-1.	121.467	11.021	**	**	**	**
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	6	2.5	34.167	100.	0.	2604.167	51.031	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	6	8.75	8.317	14.	3.	15.082	3.884	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	6	640.	649.167	790.	510.	9384.167	96.872	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	6	8.75	8.75	12.8	5.6	6.763	2.601	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	6	157.5	158.	164.	152.	17.2	4.147	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	6	546.	542.333	592.	494.	1543.067	39.282	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	6	0.02	0.03	0.08	0.	0.001	0.03	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	6	0.105	0.123	0.27	0.01	0.009	0.093	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	6	0.35	0.367	0.5	0.2	0.015	0.121	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	6	0.02	0.02	0.04	0.	0.	0.014	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	6	239.	241.5	255.	233.	67.1	8.191	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	2	64.	64.	66.	62.	8.	2.828	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	2	20.5	20.5	22.	19.	4.5	2.121	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	4	219.	221.	252.	194.	566.667	23.805	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	2	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Annual Analysis for 1984 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	6	15.75	17.583	30.	10.	66.442	8.151	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	6	15.	15.5	32.	1.	132.7	11.52	**	**	**	**
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	6	35.	41.667	90.	0.	2136.667	46.224	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	6	11.	11.	21.	1.	61.2	7.823	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	4	461.	468.	570.	380.	6642.667	81.503	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	6	8.5	9.517	12.1	8.	3.202	1.789	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	6	161.5	159.167	172.	142.	97.767	9.888	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	3	538.	530.667	548.	506.	481.333	21.939	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	6	0.015	0.033	0.09	0.	0.002	0.041	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	6	0.1	0.093	0.18	0.02	0.003	0.058	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	6	0.45	0.423	0.6	0.2	0.03	0.175	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	6	0.03	0.032	0.06	0.01	0.	0.017	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	6	268.5	264.167	274.	240.	166.167	12.891	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	2	71.	71.	74.	68.	18.	4.243	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	2	20.5	20.5	22.	19.	4.5	2.121	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	3	230.	224.667	230.	214.	85.333	9.238	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	2	0.	0.	0.	0.	0.	0.	**	**	**	**

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

Annual Analysis for 1985 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	6	16.5	15.833	25.	2.	78.167	8.841	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	6	23.5	14.833	29.	-13.	237.767	15.42	**	**	**	**
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	6	85.	62.5	100.	0.	2217.5	47.09	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	6	6.5	6.167	11.	1.	11.767	3.43	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	6	387.5	488.333	910.	340.	49166.667	221.736	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	5	9.8	10.28	13.2	8.4	3.612	1.901	**	**	**	**
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	5	8.2	7.64	8.4	5.4	1.603	1.266	**	**	**	**

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

Annual Analysis for 1985 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	5	8.2	6.096	8.4	5.4	4.583	2.141	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	5	0.006	0.802	3.981	0.004	3.159	1.777	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	6	169.5	166.5	174.	156.	47.9	6.921	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	3	526.	505.333	556.	434.	4041.333	63.571	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	6##	0.005	0.004	0.005	0.	0.	0.002	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	6	0.075	0.114	0.36	0.005	0.016	0.125	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	6	0.15	0.183	0.3	0.1	0.01	0.098	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	6	0.04	0.04	0.06	0.01	0.	0.017	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	6	267.5	268.167	299.	242.	362.967	19.052	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	2	69.	69.	70.	68.	2.	1.414	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	2	24.5	24.5	25.	24.	0.5	0.707	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	3	211.	219.333	246.	201.	558.333	23.629	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	2##	0.15	0.15	0.2	0.1	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 box-and-whisker plot

Annual Analysis for 1986 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	5	22.	16.7	24.	0.5	102.7	10.134	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	5	22.	20.2	35.	7.	106.7	10.33	**	**	**	**
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	5	50.	54.	100.	0.	1730.	41.593	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	6	0.	2.	10.	0.	16.	4.	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	4	282.5	361.75	640.	242.	35478.917	188.358	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	4	7.25	9.825	19.	5.8	37.923	6.158	**	**	**	**
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	5	7.	7.39	8.25	6.7	0.528	0.727	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	5	7.	7.057	8.25	6.7	0.667	0.817	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	5	0.1	0.088	0.2	0.006	0.007	0.082	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	6	158.5	160.	167.	156.	15.6	3.95	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	3	506.	584.	766.	480.	25012.	158.152	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	6##	0.015	0.022	0.05	0.01	0.	0.016	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	6	0.625	0.718	1.91	0.07	0.392	0.626	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	6	0.2	0.2	0.3	0.1	0.004	0.063	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	6	0.04	0.046	0.11	0.005	0.001	0.035	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	6	220.	229.333	294.	197.	1175.867	34.291	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	2	55.	55.	59.	51.	32.	5.657	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	2	20.	20.	21.	19.	2.	1.414	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	1	16.	16.	16.	16.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	3	221.	224.333	234.	218.	72.333	8.505	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	2##	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 box-and-whisker plot

Annual Analysis for 1987 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	4	21.5	21.25	27.	15.	28.25	5.315	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	4	22.5	22.5	27.	18.	15.	3.873	**	**	**	**
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	4	77.5	66.25	100.	10.	1522.917	39.025	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	4	411.5	404.5	420.	375.	451.	21.237	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	4	7.9	8.525	11.7	6.6	5.662	2.38	**	**	**	**
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	4	7.3	7.325	7.7	7.	0.089	0.299	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	4	7.289	7.254	7.7	7.	0.096	0.31	**	**	**	**

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

Annual Analysis for 1987 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	4	0.051	0.056	0.1	0.02	0.001	0.034	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	4	167.	165.25	168.	159.	17.583	4.193	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	1	560.	560.	560.	560.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	4##	0.01	0.015	0.03	0.01	0.	0.01	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	4	0.055	0.058	0.1	0.02	0.001	0.039	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	4	0.25	0.3	0.5	0.2	0.02	0.141	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	4	0.03	0.034	0.07	0.005	0.001	0.028	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	4	250.5	249.75	265.	233.	259.583	16.112	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	2	62.	62.	67.	57.	50.	7.071	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	2	24.	24.	26.	22.	8.	2.828	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	2	257.	257.	266.	248.	162.	12.728	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	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 box-and-whisker plot

Annual Analysis for 1988 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	5	19.8	16.72	26.6	2.	101.812	10.09	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	5	27.	23.1	42.	2.	286.05	16.913	**	**	**	**
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	5	25.	18.	40.	0.	307.5	17.536	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	5	4.	9.6	30.	1.	138.3	11.76	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	4	755.5	763.5	800.	743.	635.	25.199	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	5	9.3	9.92	14.9	7.2	8.607	2.934	**	**	**	**
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	3	8.06	8.053	8.1	8.	0.003	0.05	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	3	8.06	8.051	8.1	8.	0.003	0.05	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	3	0.009	0.009	0.01	0.008	0.	0.001	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	5	156.	153.8	160.	144.	45.2	6.723	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	3	489.	501.333	530.	485.	620.333	24.906	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	5	0.03	0.051	0.12	0.015	0.002	0.042	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	5##	0.05	0.067	0.19	0.005	0.005	0.071	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	5	0.4	0.314	0.5	0.05	0.032	0.179	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	5	0.02	0.029	0.06	0.005	0.	0.021	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	5	237.	232.6	243.	210.	182.3	13.502	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	2	57.5	57.5	59.	56.	4.5	2.121	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	2	18.5	18.5	20.	17.	4.5	2.121	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	2	265.5	265.5	308.	223.	3612.5	60.104	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	2##	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 box-and-whisker plot

Annual Analysis for 1989 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	6	16.25	16.25	26.	2.	81.575	9.032	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	5	20.	16.8	32.	0.	149.2	12.215	**	**	**	**
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	6	22.5	32.5	100.	0.	1297.5	36.021	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	6	6.4	33.85	167.	0.5	4288.799	65.489	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	5	796.	789.8	812.	752.	529.2	23.004	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	6	9.05	8.917	12.9	6.5	5.518	2.349	**	**	**	**
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	6	7.55	7.87	9.2	7.2	0.611	0.782	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	6	7.547	7.537	9.2	7.2	0.744	0.863	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	6	0.028	0.029	0.063	0.001	0.001	0.025	**	**	**	**

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

Annual Analysis for 1989 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	6	197.	205.833	314.	149.	3156.167	56.18	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	3	524.	525.333	544.	508.	325.333	18.037	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	6	0.03	0.058	0.16	0.005	0.003	0.058	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	6	0.035	0.058	0.22	0.005	0.007	0.081	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	6	0.35	0.557	1.17	0.24	0.146	0.382	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	6	0.04	0.061	0.2	0.005	0.005	0.071	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	6	230.5	237.167	264.	219.	283.767	16.845	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	2	55.	55.	55.	55.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	2	22.5	22.5	23.	22.	0.5	0.707	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	3	284.	285.	366.	205.	6481.	80.505	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	2##	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 box-and-whisker plot

Annual Analysis for 1990 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	5	19.	17.4	27.	0.5	102.925	10.145	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	6	24.75	20.417	33.	1.	138.042	11.749	**	**	**	**
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	6	5.	5.	10.	0.	30.	5.477	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	6	8.5	9.833	15.	6.	18.167	4.262	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	4	761.	728.5	803.	589.	10055.	100.275	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	4	10.5	9.975	11.5	7.4	3.336	1.826	**	**	**	**
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	6	8.1	8.183	8.7	7.7	0.222	0.471	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	6	8.004	8.003	8.7	7.7	0.261	0.511	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	6	0.01	0.01	0.02	0.002	0.	0.008	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	6	188.5	184.333	207.	145.	442.267	21.03	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	3	490.	498.	548.	456.	2164.	46.519	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	6##	0.01	0.012	0.02	0.01	0.	0.004	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	6	0.115	0.096	0.16	0.005	0.004	0.066	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	6	0.3	0.283	0.5	0.05	0.027	0.163	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	6	0.045	0.041	0.06	0.005	0.	0.021	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	6	242.5	239.	254.	216.	192.8	13.885	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	2	55.5	55.5	59.	52.	24.5	4.95	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	2	22.5	22.5	24.	21.	4.5	2.121	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	3	220.	214.667	242.	182.	921.333	30.353	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	1##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

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

Annual Analysis for 1991 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	5	14.	14.5	22.	5.	54.	7.348	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	5	23.	21.2	34.	12.	76.7	8.758	**	**	**	**
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	5	40.	49.	100.	0.	2405.	49.041	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	6	11.5	10.5	18.	2.	37.1	6.091	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	4	657.5	665.75	732.	616.	2370.917	48.692	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	3	8.5	9.867	13.6	7.5	10.703	3.272	**	**	**	**
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	5	8.3	8.36	8.5	8.2	0.018	0.134	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	5	8.3	8.344	8.5	8.2	0.018	0.135	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	5	0.005	0.005	0.006	0.003	0.	0.001	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	6	167.5	170.833	199.	151.	298.967	17.291	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	3	466.	468.333	477.	462.	60.333	7.767	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	6##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	6	0.065	0.08	0.26	0.005	0.009	0.094	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	6	0.3	0.3	0.4	0.2	0.004	0.063	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	6	0.03	0.032	0.07	0.01	0.	0.02	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	6	243.5	244.333	262.	231.	130.667	11.431	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	2	58.5	58.5	59.	58.	0.5	0.707	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	2	22.	22.	22.	22.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	3	200.	195.667	206.	181.	170.333	13.051	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	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 box-and-whisker plot

Annual Analysis for 1992 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	6	12.	12.25	20.	4.	56.775	7.535	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	6	18.5	20.	29.	12.	50.8	7.127	**	**	**	**
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	6	47.5	49.167	100.	0.	2304.167	48.002	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	7	4.	4.286	7.	1.	5.238	2.289	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	6	664.5	613.333	684.	483.	8500.667	92.199	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	4	8.7	9.3	12.2	7.6	4.173	2.043	**	**	**	**
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	6	8.3	8.317	8.6	8.1	0.026	0.16	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	6	8.3	8.294	8.6	8.1	0.026	0.162	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	6	0.005	0.005	0.008	0.003	0.	0.002	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	7	157.	157.	169.	145.	87.	9.327	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	4	510.	533.5	662.	452.	9049.	95.126	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	7##	0.01	0.033	0.09	0.01	0.001	0.032	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	7	0.07	0.148	0.47	0.005	0.035	0.186	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	7	0.3	0.35	1.	0.05	0.094	0.307	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	7	0.04	0.104	0.28	0.01	0.013	0.113	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	7	258.	267.714	326.	243.	797.238	28.235	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	2	62.5	62.5	63.	62.	0.5	0.707	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	2	23.5	23.5	24.	23.	0.5	0.707	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	3	259.	261.667	324.	202.	3726.333	61.044	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	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 box-and-whisker plot

Annual Analysis for 1993 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	6	15.65	15.8	25.5	2.	65.3	8.081	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	6	18.5	18.333	30.	7.	63.067	7.941	**	**	**	**
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	6	87.5	66.667	100.	10.	1816.667	42.622	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	5	7.	9.	16.	5.	18.5	4.301	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	6	657.5	659.667	750.	570.	4846.667	69.618	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	6	8.95	9.083	12.	7.2	2.998	1.731	**	**	**	**
00400 PH (STANDARD UNITS)	05/01/68-07/08/97	6	8.8	8.638	9.	8.03	0.147	0.384	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	6	8.8	8.482	9.	8.03	0.177	0.42	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	6	0.002	0.003	0.009	0.001	0.	0.003	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	5	149.	149.	152.	145.	6.5	2.55	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	2	375.	375.	472.	278.	18818.	137.179	**	**	**	**

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

Annual Analysis for 1993 - Station MNRR0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		07/11/71-10/02/97	5	0.04	0.136	0.32	0.01	0.022	0.147	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)		05/01/68-10/02/97	5	0.22	0.238	0.37	0.06	0.015	0.121	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		10/27/76-10/02/97	5	0.5	0.48	0.6	0.3	0.012	0.11	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		05/01/68-10/02/97	5	0.03	0.054	0.11	0.03	0.001	0.036	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	5	276.	274.6	285.	266.	55.3	7.436	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)		10/27/76-08/06/97	2	72.5	72.5	78.	67.	60.5	7.778	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)		02/09/76-08/06/97	2	23.	23.	24.	22.	2.	1.414	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	05/01/68-06/10/97	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		05/01/68-10/02/97	3	201.	191.333	202.	171.	310.333	17.616	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)		01/09/74-10/02/97	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 box-and-whisker plot

Annual Analysis for 1994 - Station MNRR0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/07/70-07/08/97	6	19.85	16.567	24.1	0.1	84.503	9.193	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		07/11/71-10/02/97	6	24.	20.833	32.	-6.	198.967	14.106	**	**	**	**
00032 CLOUD COVER (PERCENT)		02/09/76-08/06/97	6	20.	40.	100.	0.	2400.	48.99	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		02/06/73-10/02/97	6	6.	7.5	14.	2.	20.7	4.55	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		07/11/75-07/08/97	6	730.5	727.667	763.	674.	1059.067	32.543	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	07/11/75-07/08/97	6	7.85	9.033	13.5	5.7	10.183	3.191	**	**	**	**
00400 PH (STANDARD UNITS)		05/01/68-07/08/97	5	8.39	8.336	8.64	7.85	0.085	0.292	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		05/01/68-07/08/97	5	8.39	8.245	8.64	7.85	0.096	0.31	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/01/68-07/08/97	5	0.004	0.006	0.014	0.002	0.	0.005	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	6	161.	162.167	179.	151.	110.167	10.496	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		05/01/68-10/02/97	3	468.	498.	564.	462.	3276.	57.236	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		07/11/71-10/02/97	6##	0.01	0.012	0.02	0.01	0.	0.004	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)		05/01/68-10/02/97	6	0.07	0.096	0.22	0.005	0.009	0.094	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		10/27/76-10/02/97	6	0.3	0.3	0.4	0.1	0.012	0.11	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		05/01/68-10/02/97	6	0.055	0.06	0.11	0.03	0.001	0.028	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	6	272.	269.167	287.	248.	176.967	13.303	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)		10/27/76-08/06/97	2	68.	68.	69.	67.	2.	1.414	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)		02/09/76-08/06/97	2	23.5	23.5	24.	23.	0.5	0.707	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	05/01/68-06/10/97	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		05/01/68-10/02/97	3	210.	213.	223.	206.	79.	8.888	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)		01/09/74-10/02/97	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 box-and-whisker plot

Annual Analysis for 1995 - Station MNRR0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/07/70-07/08/97	6	17.55	15.633	25.9	0.6	76.059	8.721	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		07/11/71-10/02/97	6	25.	21.	29.	-2.	132.4	11.507	**	**	**	**
00032 CLOUD COVER (PERCENT)		02/09/76-08/06/97	6	50.	43.333	100.	0.	1466.667	38.297	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		02/06/73-10/02/97	6	8.	12.	26.	2.	101.2	10.06	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		07/11/75-07/08/97	6	780.5	765.333	837.	668.	3772.667	61.422	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	07/11/75-07/08/97	6	7.9	8.933	15.1	5.3	11.915	3.452	**	**	**	**
00400 PH (STANDARD UNITS)		05/01/68-07/08/97	6	7.885	7.9	8.28	7.39	0.109	0.331	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		05/01/68-07/08/97	6	7.877	7.792	8.28	7.39	0.123	0.351	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/01/68-07/08/97	6	0.013	0.016	0.041	0.005	0.	0.013	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	6	164.5	163.833	176.	143.	134.967	11.618	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		05/01/68-10/02/97	3	466.	447.333	474.	402.	1557.333	39.463	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		07/11/71-10/02/97	6	0.015	0.022	0.05	0.01	0.	0.016	**	**	**	**

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

Annual Analysis for 1995 - Station MNRR0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)		05/01/68-10/02/97	6	0.425	0.457	0.71	0.2	0.049	0.222	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		10/27/76-10/02/97	6	0.45	0.467	0.7	0.3	0.019	0.137	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		05/01/68-10/02/97	6	0.07	0.063	0.09	0.02	0.001	0.026	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	6	281.5	282.5	318.	252.	499.5	22.349	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)		10/27/76-08/06/97	2	63.5	63.5	83.	44.	760.5	27.577	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)		02/09/76-08/06/97	2	25.	25.	27.	23.	8.	2.828	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	05/01/68-06/10/97	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		05/01/68-10/02/97	3	224.	219.333	238.	196.	457.333	21.385	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)		01/09/74-10/02/97	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 box-and-whisker plot

Annual Analysis for 1996 - Station MNRR0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/07/70-07/08/97	6	14.4	15.067	25.8	1.9	84.155	9.174	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		07/11/71-10/02/97	6	22.	22.5	33.	13.	66.3	8.142	**	**	**	**
00032 CLOUD COVER (PERCENT)		02/09/76-08/06/97	5	50.	49.	100.	10.	1205.	34.713	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		02/06/73-10/02/97	8	5.	7.375	20.	1.	49.696	7.05	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		07/11/75-07/08/97	6	781.	791.	842.	756.	1076.4	32.809	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	07/11/75-07/08/97	6	8.15	9.667	15.6	6.1	16.995	4.122	**	**	**	**
00400 PH (STANDARD UNITS)		05/01/68-07/08/97	6	8.365	8.485	9.16	8.12	0.129	0.359	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		05/01/68-07/08/97	6	8.364	8.393	9.16	8.12	0.139	0.373	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/01/68-07/08/97	6	0.004	0.004	0.008	0.001	0.	0.002	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	8	172.	159.625	183.	85.	1068.839	32.693	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		05/01/68-10/02/97	3	557.	550.	565.	528.	379.	19.468	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		07/11/71-10/02/97	8##	0.01	0.038	0.23	0.01	0.006	0.078	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)		05/01/68-10/02/97	8	0.3	0.308	0.63	0.08	0.038	0.194	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		10/27/76-10/02/97	8	0.4	0.395	0.7	0.16	0.028	0.168	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		05/01/68-10/02/97	8	0.14	0.253	1.2	0.005	0.152	0.39	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	8	271.	275.375	298.	265.	131.411	11.463	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)		10/27/76-08/06/97	4	67.	67.5	69.	67.	1.	1.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)		02/09/76-08/06/97	4	24.	24.25	25.	24.	0.25	0.5	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	05/01/68-06/10/97	3	9.	9.	9.	9.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		05/01/68-10/02/97	3	221.	215.	233.	191.	468.	21.633	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)		01/09/74-10/02/97	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 box-and-whisker plot

Annual Analysis for 1997 - Station MNRR0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/07/70-07/08/97	4	15.8	14.8	25.4	2.2	99.207	9.96	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		07/11/71-10/02/97	6	31.	20.5	35.	-11.	310.3	17.615	**	**	**	**
00032 CLOUD COVER (PERCENT)		02/09/76-08/06/97	5	70.	66.	100.	10.	1430.	37.815	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		02/06/73-10/02/97	6	11.	10.333	16.	4.	19.867	4.457	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		07/11/75-07/08/97	4	485.	457.75	854.	7.	150238.917	387.607	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	07/11/75-07/08/97	4	8.85	9.225	11.5	7.7	2.876	1.696	**	**	**	**
00400 PH (STANDARD UNITS)		05/01/68-07/08/97	3	9.21	8.887	9.4	8.05	0.534	0.731	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		05/01/68-07/08/97	3	9.21	8.48	9.4	8.05	0.782	0.884	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/01/68-07/08/97	3	0.001	0.003	0.009	0.	0.	0.005	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	6	159.5	158.333	184.	129.	427.067	20.666	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		05/01/68-10/02/97	3	496.	538.333	635.	484.	7044.333	83.931	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		07/11/71-10/02/97	6	0.015	0.077	0.38	0.01	0.022	0.149	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)		05/01/68-10/02/97	6	0.355	0.365	0.54	0.23	0.011	0.104	**	**	**	**

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

Annual Analysis for 1997 - Station MNRR0040

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		10/27/76-10/02/97	6	0.65	0.683	1.	0.4	0.042	0.204	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		05/01/68-10/02/97	6	0.11	0.11	0.2	0.02	0.005	0.068	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		05/01/68-10/02/97	6	284.	282.333	306.	255.	295.067	17.178	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)		10/27/76-08/06/97	2	76.	76.	78.	74.	8.	2.828	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)		02/09/76-08/06/97	2	26.	26.	27.	25.	2.	1.414	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	05/01/68-06/10/97	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		05/01/68-10/02/97	3	247.	241.333	268.	209.	894.333	29.905	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)		01/09/74-10/02/97	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 box-and-whisker plot

Seasonal Analysis for Season #1: 11/20 to 1/14 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	14	0.65	1.057	3.5	0.	0.923	0.961	0.	0.5	1.625	2.75
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	5	9.5	4.9	11.	-9.	65.3	8.081	**	**	**	**
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	6	40.	38.333	80.	0.	776.667	27.869	**	**	**	**
00035 WIND VELOCITY (MILES PER HOUR)	10/27/76-10/02/97	6	11.	12.667	25.	5.	59.867	7.737	**	**	**	**
00065 STAGE, STREAM (FEET)	04/07/70-01/27/82	7	1160.	1159.914	1164.	1156.8	6.158	2.482	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	12	6.05	7.808	31.	2.	57.794	7.602	2.3	4.15	8.	24.4
00080 COLOR (PLATINUM-COBALT UNITS)	05/25/76-07/08/97	7	10.	10.714	15.	5.	20.238	4.499	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	9	760.	757.778	850.	690.	2094.444	45.765	690.	725.	780.	850.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	9	13.1	13.089	14.1	12.2	0.384	0.619	12.2	12.5	13.6	14.1
00400p PH (STANDARD UNITS)	05/01/68-07/08/97	14	8.1	8.157	8.7	7.	0.255	0.505	7.25	7.875	8.625	8.7
00400p CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	14	8.1	7.827	8.7	7.	0.373	0.61	7.25	7.875	8.625	8.7
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	14	0.008	0.015	0.1	0.002	0.001	0.026	0.002	0.002	0.013	0.066
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	14	164.	162.571	183.	133.	143.187	11.966	141.5	157.5	168.	179.5
00515p RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	11	496.	483.455	546.	368.	3287.273	57.335	375.2	440.	536.	544.4
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/28/78-10/02/97	5	4.	18.8	74.	2.	964.7	31.06	**	**	**	**
00610p NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	12	0.025	0.028	0.07	0.	0.001	0.027	0.	0.	0.05	0.067
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	10/27/76-10/02/97	6	0.	0.	0.	0.	0.	0.	**	**	**	**
00619 AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	05/23/80-10/02/97	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00620p NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	14	0.175	0.259	1.1	0.02	0.079	0.281	0.04	0.085	0.345	0.815
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	8	0.315	0.31	0.4	0.1	0.009	0.095	**	**	**	**
00665p PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	8	0.025	0.029	0.05	0.02	0.	0.011	**	**	**	**
00900p HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	13	235.	236.	275.	201.	321.167	17.921	209.4	224.	245.5	267.
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	8	58.5	58.5	65.	51.	21.429	4.629	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	8	22.5	43.788	191.	21.	3541.704	59.512	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)	02/09/76-08/06/97	6	74.4	82.8	120.	60.	582.08	24.126	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	02/09/76-08/06/97	7	4.	3.957	5.6	2.	2.193	1.481	**	**	**	**
00940p CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	13	9.	8.615	11.	0.	8.256	2.873	2.8	8.	10.5	11.
00945p SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	14	202.5	198.571	224.	170.	257.648	16.051	172.	182.25	211.	218.
01002 ARSENIC, TOTAL (UG/L AS AS)	04/12/76-10/02/97	6	2.	2.167	3.	1.	0.567	0.753	**	**	**	**
01007 BARIUM, TOTAL (UG/L AS BA)	04/12/76-06/10/97	7	51.	60.429	90.	40.	355.952	18.867	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	04/12/76-10/02/97	7	0.	0.	0.	0.	0.	0.	**	**	**	**
01022 BORON, TOTAL (UG/L AS B)	04/12/76-06/10/97	7	166.	175.429	210.	140.	708.952	26.626	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	10/27/76-10/02/97	7	3.	3.286	10.	1.	9.571	3.094	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	10/27/76-10/02/97	7	0.	4.286	10.	0.	28.571	5.345	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	10/27/76-10/02/97	7	3.	4.857	14.	3.	16.476	4.059	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	10/27/76-10/02/97	7	230.	303.571	600.	121.	36007.952	189.758	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	10/27/76-10/02/97	7	20.	25.143	60.	9.	303.476	17.421	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	10/27/76-10/02/97	7	28.	28.571	42.	22.	47.952	6.925	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	10/27/76-10/02/97	7	12.	12.	19.	7.	15.333	3.916	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	10/27/76-10/02/97	7	0.	0.286	1.	0.	0.238	0.488	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	10/27/76-10/02/97	7	8.	7.429	11.	1.	9.619	3.101	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	10/27/76-07/08/97	7	2.	1.857	2.	1.	0.143	0.378	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/22/75-09/29/81	8	2.5	2.13	4.	0.	2.672	1.635	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/22/75-09/29/81	8	0.389	0.133	0.602	-1.398	0.441	0.664	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		1.357								
70507p PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/07/70-10/02/97	1	0.	0.	0.	0.	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	11	0.	0.455	3.	0.	0.873	0.934	0.	0.	1.	2.6

** - 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: 1/15 to 3/14 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	31	1.	1.903	10.	0.	5.382	2.32	0.18	0.5	2.	5.4
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	30	7.	0.9	15.	-25.	86.093	9.279	1.	2.	11.625	-12.8
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	26	70.	58.269	100.	0.	1745.885	41.784	0.	8.75	100.	100.
00035 WIND VELOCITY (MILES PER HOUR)	10/27/76-10/02/97	23	10.	10.913	22.	0.	46.083	6.788	1.2	5.	15.	20.

** - Less than 9 observations ## - Computed 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: 1/15 to 3/14 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00065 STAGE, STREAM (FEET)	04/07/70-01/27/82	13	1158.	1070.356	1160.	14.93	100563.874	317.118	471.718	1157.02	1159.15	1160.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	31	2.	9.803	167.	1.	890.268	29.837	1.	1.6	4.	23.
00078 TRANSPARENCY, SECCHI DISC (METERS)	08/25/82-08/07/89	2	2.75	2.75	3.	2.5	0.125	0.354	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	05/25/76-07/08/97	6	12.5	12.5	15.	10.	7.5	2.739	**	**	**	**
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	05/24/88-07/08/97	4	0.25	0.275	0.4	0.2	0.009	0.096	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	24	709.	726.125	920.	570.	10424.288	102.099	594.5	643.25	789.5	900.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	22	13.1	13.409	19.	10.6	3.275	1.81	11.29	12.1	14.125	15.73
00400p PH (STANDARD UNITS)	05/01/68-07/08/97	27	8.2	8.177	9.21	7.1	0.288	0.537	7.352	7.8	8.7	8.76
00400p CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	27	8.2	7.863	9.21	7.1	0.391	0.625	7.352	7.8	8.7	8.76
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	27	0.006	0.014	0.079	0.001	0.	0.019	0.002	0.002	0.016	0.045
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	32	169.5	170.531	199.	146.	153.096	12.373	155.2	164.	177.75	190.9
00515p RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	32	493.	508.031	662.	424.	3449.064	58.729	449.2	457.5	545.5	604.4
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/28/78-10/02/97	6	6.5	37.667	194.	2.	5879.467	76.678	**	**	**	**
00610p NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	32	0.01	0.037	0.38	0.	0.005	0.069	0.	0.003	0.04	0.097
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	10/27/76-10/02/97	20	0.005	0.009	0.1	0.	0.001	0.023	0.	0.	0.005	0.037
00619 AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	05/23/80-10/02/97	17##	0.005	0.003	0.005	0.	0.	0.002	0.	0.	0.005	0.005
00620p NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	32	0.185	0.204	0.68	0.01	0.027	0.165	0.023	0.09	0.285	0.458
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	24	0.2	0.273	0.9	0.	0.042	0.205	0.06	0.2	0.3	0.6
00665p PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	26	0.02	0.045	0.21	0.	0.004	0.064	0.	0.01	0.04	0.2
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	01/31/80-10/02/97	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00900p HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	32	240.5	243.844	283.	206.	386.523	19.66	219.6	231.25	258.5	275.
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	11	60.	59.509	64.6	51.	14.651	3.828	52.	57.	62.	64.48
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	10	22.	23.39	32.	19.3	14.659	3.829	19.37	20.75	25.95	31.5
00929 SODIUM, TOTAL (MG/L AS NA)	02/09/76-08/06/97	9	68.8	73.811	114.	64.	236.536	15.38	64.	66.2	72.5	114.
00931 SODIUM ADSORPTION RATIO	05/23/80-08/06/97	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	02/09/76-08/06/97	6	5.	5.105	5.7	4.9	0.092	0.304	**	**	**	**
00940p CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	17	10.	10.118	12.	6.	3.11	1.764	7.6	9.	12.	12.
00945p SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	17	194.	198.118	240.	166.	485.235	22.028	171.6	180.	211.	236.
01002 ARSENIC, TOTAL (UG/L AS AS)	04/12/76-10/02/97	18	1.	1.611	3.	1.	0.605	0.778	1.	1.	2.	3.
01007 BARIUM, TOTAL (UG/L AS BA)	04/12/76-06/10/97	6	45.5	43.5	50.	30.	59.9	7.74	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	04/12/76-10/02/97	18##	0.5	0.5	1.	0.	0.265	0.514	0.	0.	1.	1.
01022 BORON, TOTAL (UG/L AS B)	04/12/76-06/10/97	8	190.	209.5	390.	150.	5641.143	75.108	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	10/27/76-10/02/97	19	0.5	1.658	15.	0.	11.986	3.462	0.	0.1	1.	5.
01034 CHROMIUM, TOTAL (UG/L AS CR)	10/27/76-10/02/97	19	2.5	2.289	11.	0.	9.87	3.142	0.	0.	2.5	10.
01042 COPPER, TOTAL (UG/L AS CU)	10/27/76-10/02/97	18##	2.5	2.861	8.	0.	3.288	1.813	0.	2.5	4.	5.3
01045 IRON, TOTAL (UG/L AS FE)	10/27/76-10/02/97	20	96.5	161.8	807.	34.	32703.747	180.842	52.8	70.	163.5	378.
01051 LEAD, TOTAL (UG/L AS PB)	10/27/76-10/02/97	18	6.	18.167	80.	0.	668.265	25.851	0.	1.	35.	62.
01055 MANGANESE, TOTAL (UG/L AS MN)	10/27/76-10/02/97	19	28.	30.368	101.	15.	373.135	19.317	16.	18.	32.	47.
01067 NICKEL, TOTAL (UG/L AS NI)	10/27/76-10/02/97	8	10.	10.5	21.	7.	20.286	4.504	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	10/27/76-10/02/97	17##	0.1	0.288	1.	0.	0.167	0.409	0.	0.05	0.55	1.
01092 ZINC, TOTAL (UG/L AS ZN)	10/27/76-10/02/97	18	5.	8.167	31.	1.	84.618	9.199	1.	2.	8.5	30.1
01147 SELENIUM, TOTAL (UG/L AS SE)	10/27/76-07/08/97	8	1.	0.75	1.	0.	0.214	0.463	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH.44.5 C	01/22/75-09/29/81	8	1.	2.	8.	0.	7.429	2.726	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH.44.5 C	01/22/75-09/29/81	8	0.	0.232	0.903	0.	0.12	0.346	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH.44.5 C		GEOMETRIC MEAN =		1.707								
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	01/31/80-08/06/97	4##	0.5	0.375	0.5	0.	0.063	0.25	**	**	**	**
70507p PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/07/70-10/02/97	19	0.005	0.007	0.02	0.	0.	0.007	0.	0.	0.01	0.02
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	16	0.	0.094	1.	0.	0.063	0.252	0.	0.	0.075	0.44

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

Seasonal Analysis for Season #3: 3/15 to 7/14 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	84	17.25	15.89	27.	0.5	49.261	7.019	5.75	10.125	22.	24.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	78	21.5	20.932	42.	0.	77.961	8.83	7.17	16.	27.	33.
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	65	50.	50.954	100.	0.	1613.982	40.174	0.	10.	100.	100.

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

Seasonal Analysis for Season #3: 3/15 to 7/14 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00035 WIND VELOCITY (MILES PER HOUR)	10/27/76-10/02/97	62	10.	10.71	25.	0.	38.996	6.245	2.9	5.	15.	20.
00065 STAGE, STREAM (FEET)	04/07/70-01/27/82	34	1161.2	1129.18	1207.	18.	38614.247	196.505	1158.75	1160.	1163.	1165.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	80	7.75	10.47	84.	0.	127.071	11.273	2.	5.	13.	18.
00078 TRANSPARENCY, SECCHI DISC (METERS)	08/25/82-08/07/89	8	1.	0.85	1.5	0.3	0.151	0.389	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	05/25/76-07/08/97	27	15.	18.148	35.	2.	77.9	8.826	7.4	10.	25.	30.
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	05/24/88-07/08/97	12	0.2	0.745	7.	0.05	3.883	1.97	0.062	0.2	0.2	4.96
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	63	690.	641.397	870.	7.	30593.469	174.91	377.	620.	759.	800.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	63	9.	9.51	15.6	5.7	4.939	2.222	7.08	7.9	11.4	12.86
00400p PH (STANDARD UNITS)	05/01/68-07/08/97	84	8.2	8.139	9.4	6.9	0.206	0.454	7.6	7.978	8.362	8.7
00400p CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	84	8.2	7.874	9.4	6.9	0.278	0.527	7.6	7.977	8.362	8.7
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	84	0.006	0.013	0.126	0.	0.	0.021	0.002	0.004	0.011	0.025
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	98	158.	159.408	207.	85.	233.749	15.289	145.	150.	168.	180.
00515p RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	57	494.	490.772	635.	262.	3414.429	58.433	423.6	466.	528.5	558.4
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/28/78-10/02/97	40	12.	14.275	50.	4.	83.179	9.12	5.1	8.	19.	25.9
00610p NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	81	0.01	0.037	0.32	0.	0.003	0.058	0.	0.01	0.04	0.098
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	10/27/76-10/02/97	30	0.	0.003	0.01	0.	0.	0.003	0.	0.	0.005	0.01
00619 AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	05/23/80-10/02/97	53##	0.005	0.004	0.01	0.	0.	0.003	0.	0.	0.005	0.005
00620p NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	94	0.125	0.199	1.91	0.	0.065	0.255	0.005	0.05	0.263	0.52
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	68	0.4	0.381	1.17	0.	0.038	0.195	0.154	0.3	0.495	0.6
00665p PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	76	0.04	0.055	0.27	0.005	0.002	0.049	0.017	0.03	0.06	0.096
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	01/31/80-10/02/97	13##	0.005	0.003	0.005	0.	0.	0.002	0.	0.	0.005	0.005
00900p HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	97	242.	246.443	326.	132.	822.52	28.68	215.6	230.	265.5	281.6
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	39	59.	60.844	83.	51.	49.134	7.01	52.	56.	67.	68.
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	37	23.	22.081	31.	11.	12.45	3.529	17.8	20.	24.	27.
00929 SODIUM, TOTAL (MG/L AS NA)	02/09/76-08/06/97	34	64.5	66.591	88.	42.	131.564	11.47	49.6	60.	75.25	85.
00931 SODIUM ADSORPTION RATIO	05/23/80-08/06/97	19	2.	1.958	3.	1.	0.127	0.356	1.6	1.9	2.	2.1
00937 POTASSIUM, TOTAL MG/L AS K)	02/09/76-08/06/97	31	6.	5.842	9.	3.	1.571	1.253	4.9	5.	6.	8.
00940p CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	59	10.	9.712	20.	2.	6.829	2.613	7.	8.	11.	12.
00945p SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	79	203.	204.354	366.	33.	2012.463	44.86	163.	181.	223.	253.
01002 ARSENIC, TOTAL (UG/L AS AS)	04/12/76-10/02/97	38	2.	1.671	4.	0.5	0.571	0.756	1.	1.	2.	3.
01007 BARIUM, TOTAL (UG/L AS BA)	04/12/76-06/10/97	33	49.	49.667	120.	28.	276.167	16.618	32.	40.	53.5	70.
01012 BERYLLIUM, TOTAL (UG/L AS BE)	04/12/76-10/02/97	39	0.	0.487	1.	0.	0.256	0.506	0.	0.	1.	1.
01022 BORON, TOTAL (UG/L AS B)	04/12/76-06/10/97	36	136.5	153.083	546.	19.	9074.764	95.262	61.7	117.	174.25	227.4
01027 CADMIUM, TOTAL (UG/L AS CD)	10/27/76-10/02/97	37	0.4	0.968	7.	0.	2.381	1.543	0.	0.1	1.	2.6
01034 CHROMIUM, TOTAL (UG/L AS CR)	10/27/76-10/02/97	37	1.5	1.973	13.	0.	8.333	2.887	0.	0.	2.5	6.2
01042 COPPER, TOTAL (UG/L AS CU)	10/27/76-10/02/97	36	2.5	4.208	37.	0.	35.934	5.994	2.	2.5	3.75	6.
01045 IRON, TOTAL (UG/L AS FE)	10/27/76-10/02/97	39	389.	421.923	1250.	110.	59563.336	244.056	166.	265.	521.	780.
01051 LEAD, TOTAL (UG/L AS PB)	10/27/76-10/02/97	37	5.	22.203	204.	0.	1861.604	43.146	0.	1.	25.5	82.
01055 MANGANESE, TOTAL (UG/L AS MN)	10/27/76-10/02/97	39	35.	41.615	108.	14.	490.348	22.144	21.	26.	49.	78.
01067 NICKEL, TOTAL (UG/L AS NI)	10/27/76-10/02/97	33	6.	5.652	10.	0.	10.633	3.261	1.	2.5	9.	10.
01077 SILVER, TOTAL (UG/L AS AG)	10/27/76-10/02/97	34	0.1	0.512	5.	0.	0.825	0.908	0.	0.075	1.	1.
01092 ZINC, TOTAL (UG/L AS ZN)	10/27/76-10/02/97	37	6.	10.514	95.	0.	261.923	16.184	1.	4.	10.5	22.4
01097 ANTIMONY, TOTAL (UG/L AS SB)	06/28/82-06/10/97	18##	1.	1.861	10.	0.	8.935	2.989	0.	1.	1.	10.
01147 SELENIUM, TOTAL (UG/L AS SE)	10/27/76-07/08/97	39	1.	1.538	4.	0.	0.781	0.884	1.	1.	2.	3.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/22/75-09/29/81	13	1.	4.	25.	0.	48.833	6.988	0.	0.	4.	19.4
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/22/75-09/29/81	13	0.	0.34	1.398	0.	0.215	0.464	0.	0.	0.602	1.255
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	2.188								
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/28/82-05/12/97	16##	5.	5.125	10.	0.	3.583	1.893	3.5	5.	5.	7.9
34361 ENDOSULFAN, ALPHA TOTWUG/L	07/28/81-05/30/95	14##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39026 STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	07/28/81-08/07/91	10##	0.05	0.19	0.4	0.05	0.033	0.181	0.05	0.05	0.4	0.4
39033 ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/08/87-08/06/97	13##	0.05	0.092	0.2	0.05	0.004	0.064	0.05	0.05	0.15	0.2
39055 SIMAZINE IN WHOLE WATER (UG/L)	06/08/87-08/06/97	13##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39330 ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	18##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/28/81-08/06/97	19##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39356 METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/08/87-08/06/97	13##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	18##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.014	0.015	0.015
39370 DDT IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	18##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.014	0.015	0.015
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	18##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39390 ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	18##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.014	0.015	0.015

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

Seasonal Analysis for Season #3: 3/15 to 7/14 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39400 TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	18##	0.05	0.128	0.4	0.05	0.022	0.15	0.05	0.05	0.138	0.4
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	18##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	18##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	01/31/80-08/06/97	19##	0.05	0.142	0.5	0.	0.036	0.19	0.05	0.05	0.05	0.5
39570 DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/08/87-08/06/97	13##	0.05	0.047	0.05	0.015	0.	0.01	0.029	0.05	0.05	0.05
39782 LINDANE IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	18##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
70507p PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/07/70-10/02/97	62	0.01	0.016	0.11	0.	0.	0.018	0.	0.005	0.02	0.04
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	33	0.	0.07	0.6	0.	0.019	0.138	0.	0.	0.1	0.2
77729 RAMROD WHOLE WATER,UG/L	06/08/87-08/06/97	12##	0.05	0.046	0.05	0.	0.	0.014	0.015	0.05	0.05	0.05
77825 ALACHLOR WHOLE WATER,UG/L	06/08/87-08/06/97	13##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
81283 BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	07/28/81-08/06/97	17##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
81408 METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/08/87-08/06/97	12##	0.05	0.062	0.1	0.05	0.001	0.023	0.05	0.05	0.088	0.1

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

Seasonal Analysis for Season #4: 7/15 to 11/19 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/07/70-07/08/97	76	20.25	18.461	30.	0.	48.999	7.	8.62	13.125	23.9	25.5
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	07/11/71-10/02/97	60	20.25	19.703	35.	1.4	63.86	7.991	9.05	13.125	25.75	30.
00032 CLOUD COVER (PERCENT)	02/09/76-08/06/97	47	10.	34.468	100.	0.	1551.341	39.387	0.	0.	75.	100.
00035 WIND VELOCITY (MILES PER HOUR)	10/27/76-10/02/97	45	10.	10.	29.	0.	35.409	5.951	3.	5.	15.	15.8
00065 STAGE, STREAM (FEET)	04/07/70-01/27/82	32	1162.	1162.143	1166.	1140.	20.026	4.475	1160.438	1160.935	1165.	1165.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	02/06/73-10/02/97	61	9.	9.37	23.	0.	22.685	4.763	3.2	6.	13.	15.
00078 TRANSPARENCY, SECCHI DISC (METERS)	08/25/82-08/07/89	9	1.	1.139	2.5	0.45	0.516	0.718	0.45	0.55	1.75	2.5
00080 COLOR (PLATINUM-COBALT UNITS)	05/25/76-07/08/97	20	10.	10.95	25.	2.	33.945	5.826	5.	5.	15.	19.7
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	05/24/88-07/08/97	10	0.2	0.22	0.3	0.1	0.006	0.079	0.1	0.175	0.3	0.3
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/11/75-07/08/97	45	720.	690.978	870.	315.	19029.477	137.947	442.8	645.	795.5	839.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/11/75-07/08/97	60	7.8	8.108	13.2	4.9	3.408	1.846	6.11	6.8	8.7	10.99
00400p PH (STANDARD UNITS)	05/01/68-07/08/97	66	8.08	8.024	8.9	5.4	0.233	0.483	7.6	7.8	8.3	8.5
00400p CONVERTED PH (STANDARD UNITS)	05/01/68-07/08/97	66	8.08	7.134	8.9	5.4	1.037	1.018	7.6	7.8	8.3	8.5
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/01/68-07/08/97	66	0.008	0.073	3.981	0.001	0.239	0.489	0.003	0.005	0.016	0.025
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	82	161.	163.268	314.	129.	402.791	20.07	149.	155.75	166.25	175.4
00515p RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	05/01/68-10/02/97	57	506.	506.456	766.	242.	5778.038	76.013	432.8	476.5	548.	576.4
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/28/78-10/02/97	30	12.	12.667	30.	2.	37.126	6.093	5.1	8.75	16.	19.7
00610p NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/11/71-10/02/97	63	0.01	0.035	1.	0.	0.016	0.125	0.	0.005	0.03	0.056
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	10/27/76-10/02/97	27	0.	0.003	0.01	0.	0.	0.003	0.	0.	0.005	0.01
00619 AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	05/23/80-10/02/97	39##	0.005	0.003	0.005	0.	0.	0.002	0.	0.	0.005	0.005
00620p NITRATE NITROGEN, TOTAL (MG/L AS N)	05/01/68-10/02/97	78	0.08	0.302	9.	0.	1.456	1.207	0.005	0.02	0.163	0.333
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/27/76-10/02/97	54	0.3	0.338	1.	0.	0.04	0.201	0.075	0.2	0.5	0.6
00665p PHOSPHORUS, TOTAL (MG/L AS P)	05/01/68-10/02/97	62	0.03	0.059	1.2	0.	0.024	0.155	0.004	0.01	0.05	0.107
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	01/31/80-10/02/97	13##	0.005	0.003	0.005	0.	0.	0.002	0.	0.	0.005	0.005
00900p HARDNESS, TOTAL (MG/L AS CACO3)	05/01/68-10/02/97	80	243.	247.213	294.	206.	375.587	19.38	227.	233.	259.75	275.9
00916 CALCIUM, TOTAL (MG/L AS CA)	10/27/76-08/06/97	36	59.5	60.861	78.	44.	40.409	6.357	54.7	57.	63.	70.5
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/09/76-08/06/97	32	23.	23.281	31.	17.	7.37	2.715	19.6	22.	25.	25.
00929 SODIUM, TOTAL (MG/L AS NA)	02/09/76-08/06/97	30	73.5	77.417	146.	40.	354.07	18.817	64.	69.5	80.625	89.9
00931 SODIUM ADSORPTION RATIO	05/23/80-08/06/97	18	2.	2.167	4.	1.	0.344	0.586	1.81	2.	2.225	3.1
00937 POTASSIUM, TOTAL MG/L AS K)	02/09/76-08/06/97	27	5.3	5.915	11.	3.	2.951	1.718	4.6	5.	6.	7.8
00940p CHLORIDE,TOTAL IN WATER MG/L	05/01/68-06/10/97	56	10.	10.571	17.	2.	5.849	2.419	9.	10.	11.75	14.
00945p SULFATE, TOTAL (MG/L AS SO4)	05/01/68-10/02/97	64	213.5	214.469	308.	140.	649.142	25.478	184.5	199.25	230.	243.
01002 *ARSENIC, TOTAL (UG/L AS AS)*	04/12/76-10/02/97	35	2.	2.243	4.	0.5	0.77	0.878	1.	2.	3.	3.4
01007 BARIUM, TOTAL (UG/L AS BA)	04/12/76-06/10/97	12	50.5	50.833	80.	29.	258.515	16.078	29.3	37.	60.	77.6
01012 BERYLLIUM, TOTAL (UG/L AS BE)	04/12/76-10/02/97	34##	1.	0.529	1.	0.	0.257	0.507	0.	0.	1.	1.
01022 BORON, TOTAL (UG/L AS B)	04/12/76-06/10/97	25	150.	156.283	290.	0.07	2970.632	54.504	97.2	130.5	196.5	213.6
01027 CADMIUM, TOTAL (UG/L AS CD)	10/27/76-10/02/97	34	0.2	0.903	8.	0.	2.545	1.595	0.	0.1	1.	2.
01034 CHROMIUM, TOTAL (UG/L AS CR)	10/27/76-10/02/97	33##	2.5	2.409	12.	0.	10.882	3.299	0.	0.	2.5	10.
01042 COPPER, TOTAL (UG/L AS CU)	10/27/76-10/02/97	35	2.5	2.586	12.	0.	4.242	2.06	0.	2.	2.5	5.

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

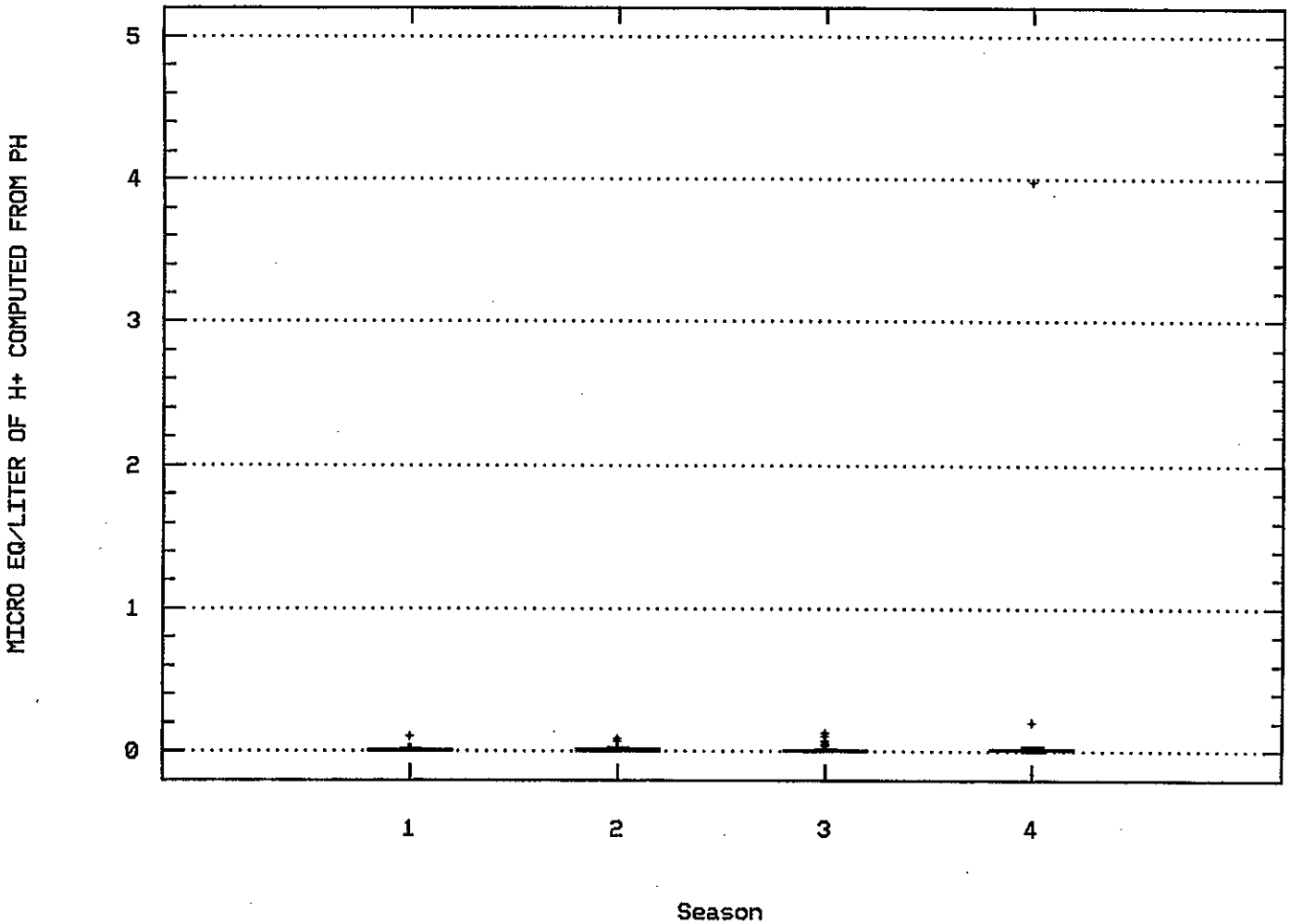
Seasonal Analysis for Season #4: 7/15 to 11/19 - Station MNRR0040

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01045 IRON, TOTAL (UG/L AS FE)	10/27/76-10/02/97	40	354.	381.825	800.	62.	28563.943	169.009	202.	242.5	496.	643.9
01051 LEAD, TOTAL (UG/L AS PB)	10/27/76-10/02/97	31	4.	11.855	100.	0.	429.953	20.735	0.	1.	13.	30.
01055 MANGANESE, TOTAL (UG/L AS MN)	10/27/76-10/02/97	40	43.	49.45	114.	10.	611.279	24.724	21.2	30.	72.	83.5
01067 NICKEL, TOTAL (UG/L AS NI)	10/27/76-10/02/97	34	6.	6.309	15.	0.	16.985	4.121	2.5	2.5	10.	13.
01077 SILVER, TOTAL (UG/L AS AG)	10/27/76-10/02/97	34	0.1	0.597	5.	0.	1.473	1.214	0.	0.	1.	1.5
01092 ZINC, TOTAL (UG/L AS ZN)	10/27/76-10/02/97	35	4.	4.314	15.	0.	9.81	3.132	1.	1.	6.	8.4
01097 ANTIMONY, TOTAL (UG/L AS SB)	06/28/82-06/10/97	8##	2.25	15.313	71.	0.	643.353	25.364	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	10/27/76-07/08/97	17	1.	1.382	3.	0.	0.548	0.74	0.8	1.	2.	2.6
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/22/75-09/29/81	13	3.	5.308	23.	2.	35.064	5.921	2.	2.	6.5	17.8
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/22/75-09/29/81	13	0.477	0.578	1.362	0.301	0.108	0.328	0.301	0.301	0.778	1.217
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		3.78								
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/28/82-05/12/97	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
34361 ENDOSULFAN, ALPHA TOTWUG/L	07/28/81-05/30/95	17##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39026 STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	07/28/81-08/07/91	14##	0.4	0.25	0.4	0.05	0.032	0.18	0.05	0.05	0.4	0.4
39033 ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/08/87-08/06/97	11##	0.05	0.114	0.4	0.05	0.015	0.121	0.05	0.05	0.1	0.38
39055 SIMAZINE IN WHOLE WATER (UG/L)	06/08/87-08/06/97	11##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39330 ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	20##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/28/81-08/06/97	20##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39356 METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/08/87-08/06/97	11##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	20##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39370 DDT IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	20##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	20##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39390 ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	20##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39400 TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	20##	0.05	0.19	0.4	0.05	0.031	0.176	0.05	0.05	0.4	0.4
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	20##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	20##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	01/31/80-08/06/97	21##	0.05	0.243	0.5	0.05	0.052	0.228	0.05	0.05	0.5	0.5
39570 DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/08/87-08/06/97	11##	0.05	0.047	0.05	0.015	0.	0.011	0.022	0.05	0.05	0.05
39782 LINDANE IN WHOLE WATER SAMPLE (UG/L)	07/28/81-08/06/97	20##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
70507p PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/07/70-10/02/97	48	0.01	0.014	0.07	0.	0.	0.017	0.	0.	0.02	0.03
71900 MERCURY, TOTAL (UG/L AS HG)	01/09/74-10/02/97	41	0.	0.118	1.	0.	0.068	0.26	0.	0.	0.1	0.24
77729 RAMROD WHOLE WATER,UG/L	06/08/87-08/06/97	11##	0.05	0.045	0.05	0.	0.	0.015	0.01	0.05	0.05	0.05
77825 ALACHLOR WHOLE WATER,UG/L	06/08/87-08/06/97	11##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
81283 BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	07/28/81-08/06/97	19##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
81408 METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/08/87-08/06/97	11##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05

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

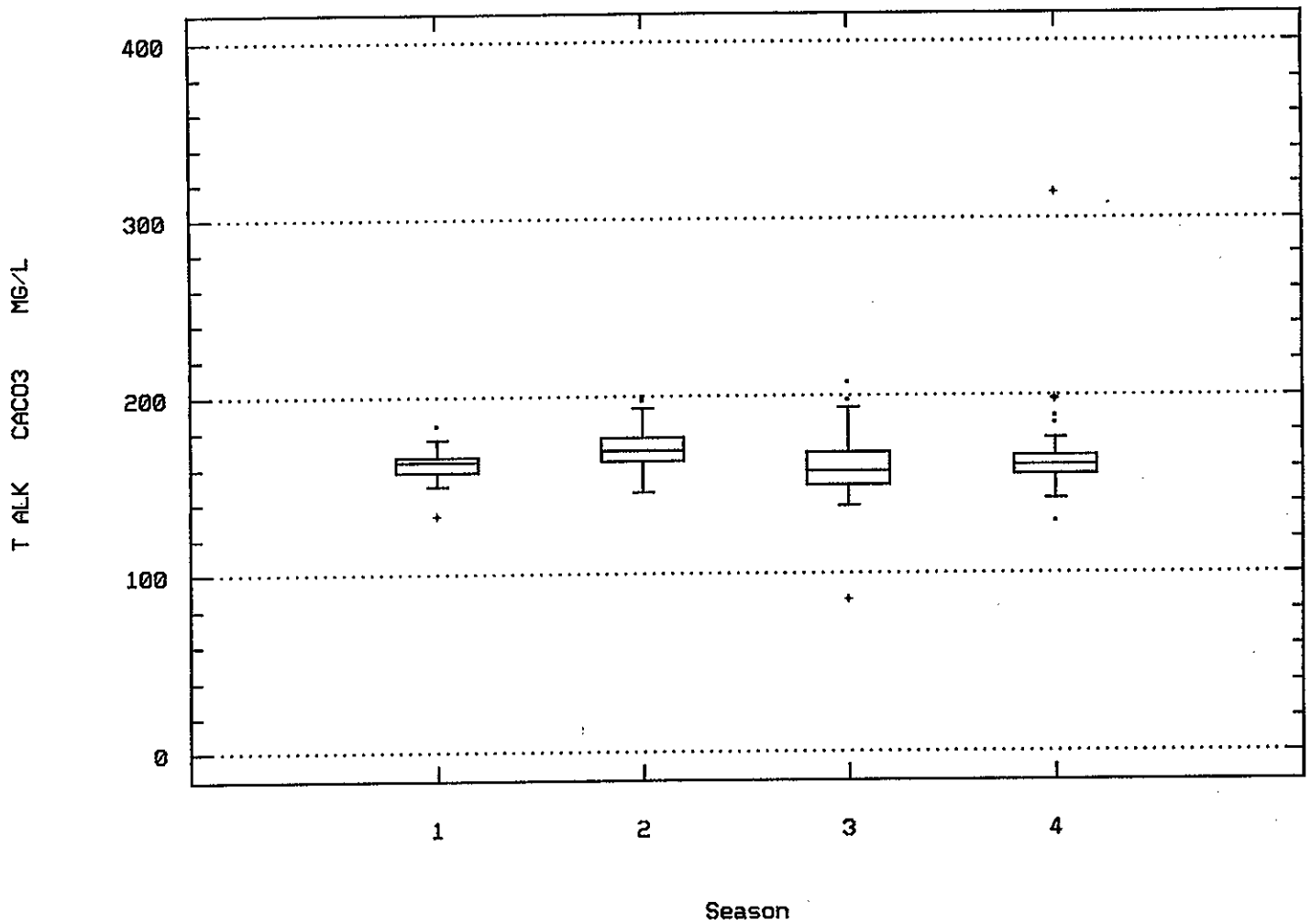
Station: MNRR0040 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH



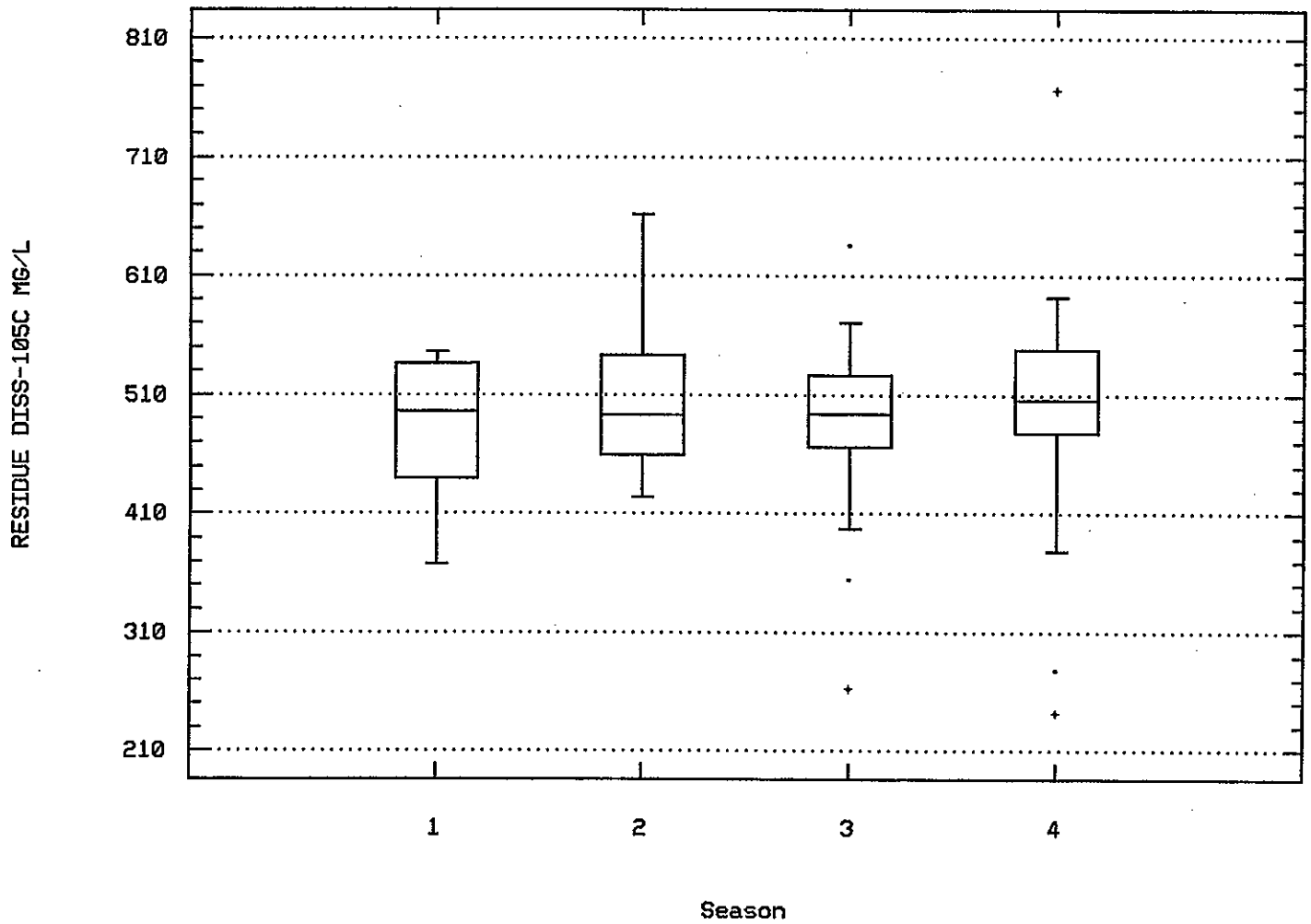
Station: MNRR0040 Parameter Code: 00410

ALKALINITY, TOTAL (MG/L AS CACO3)



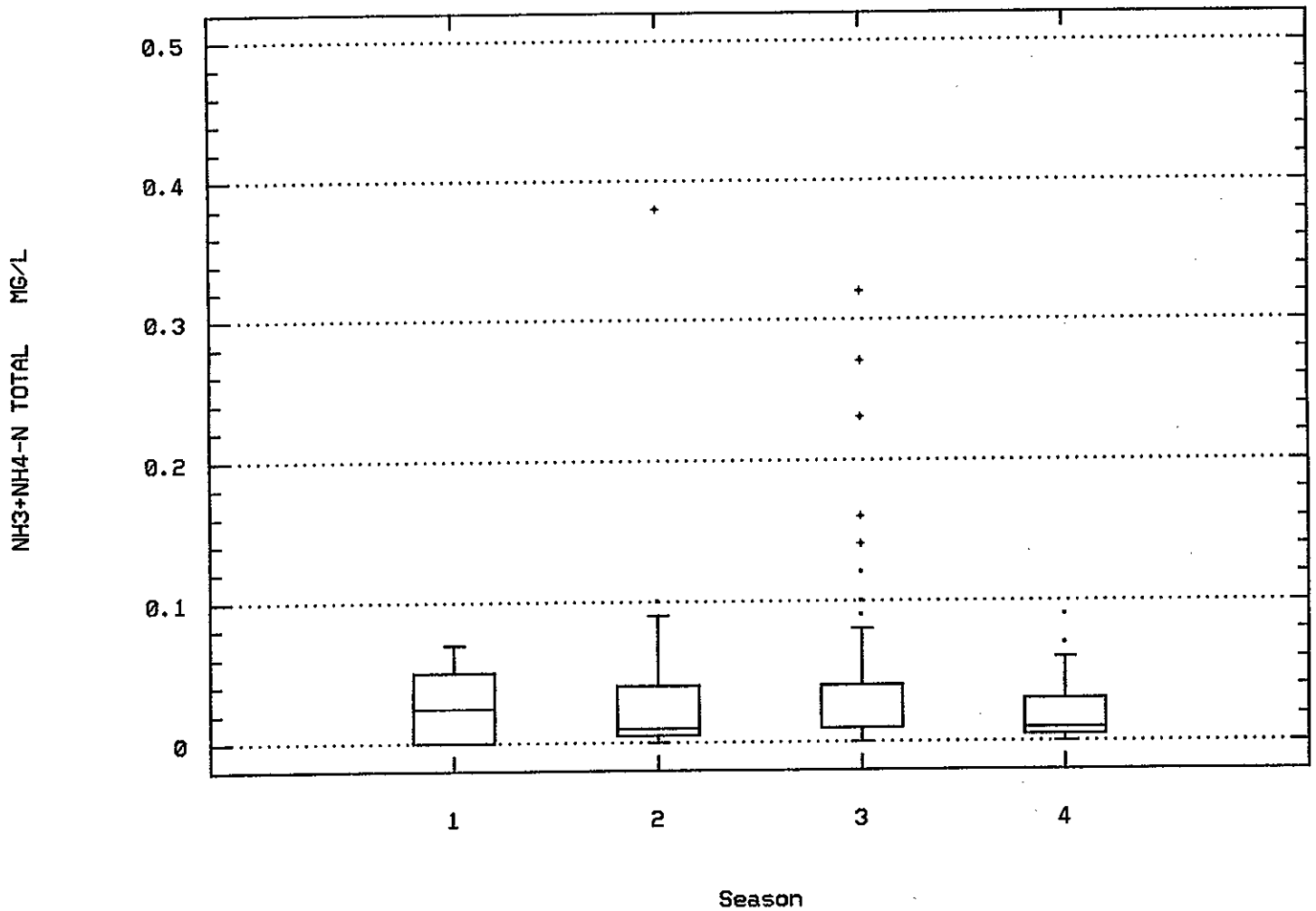
Station: MNRR0040 Parameter Code: 00515

RESIDUE, TOTAL FILTRABLE (DRIED AT 105



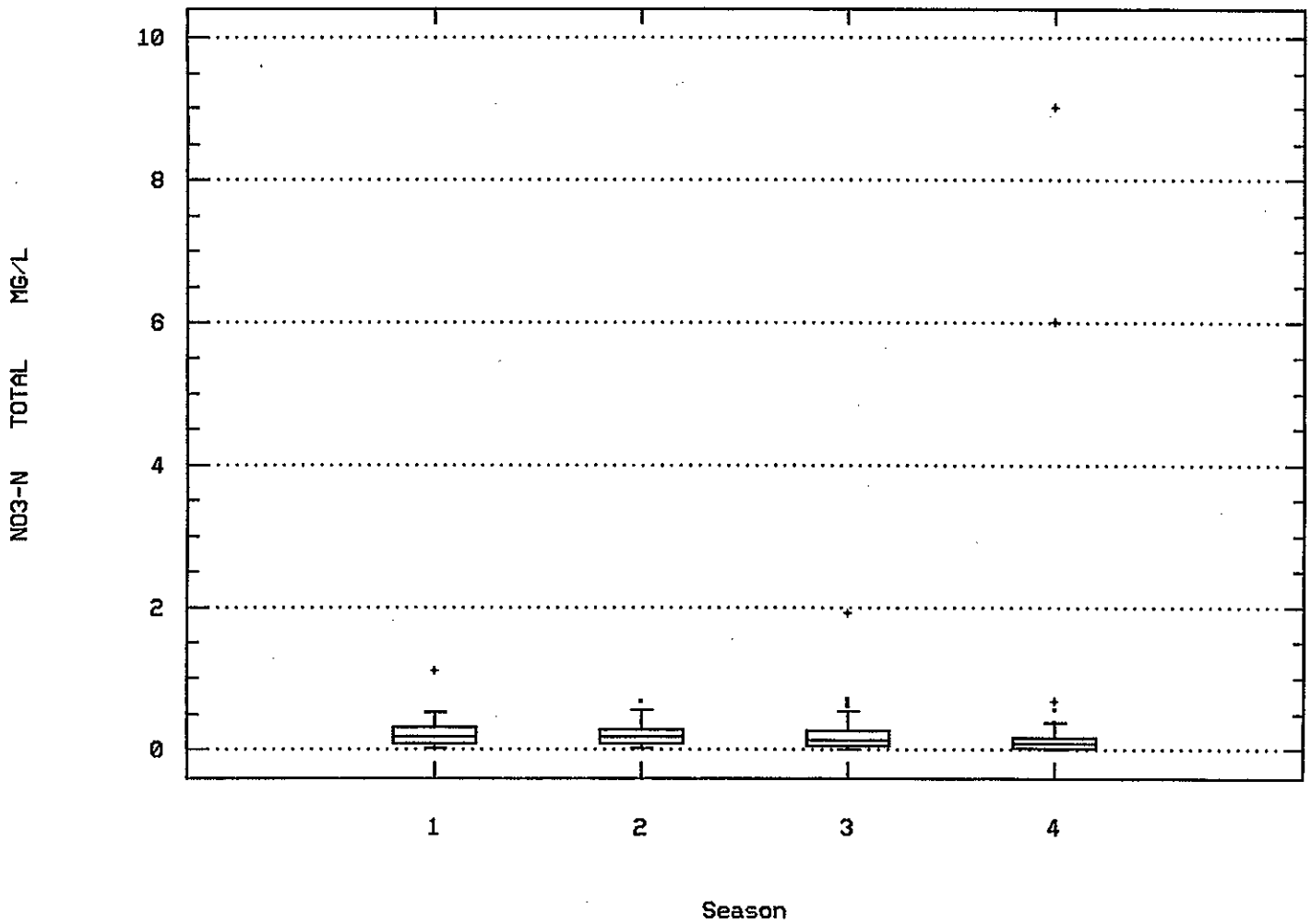
Station: MNRR0040 Parameter Code: 00610

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



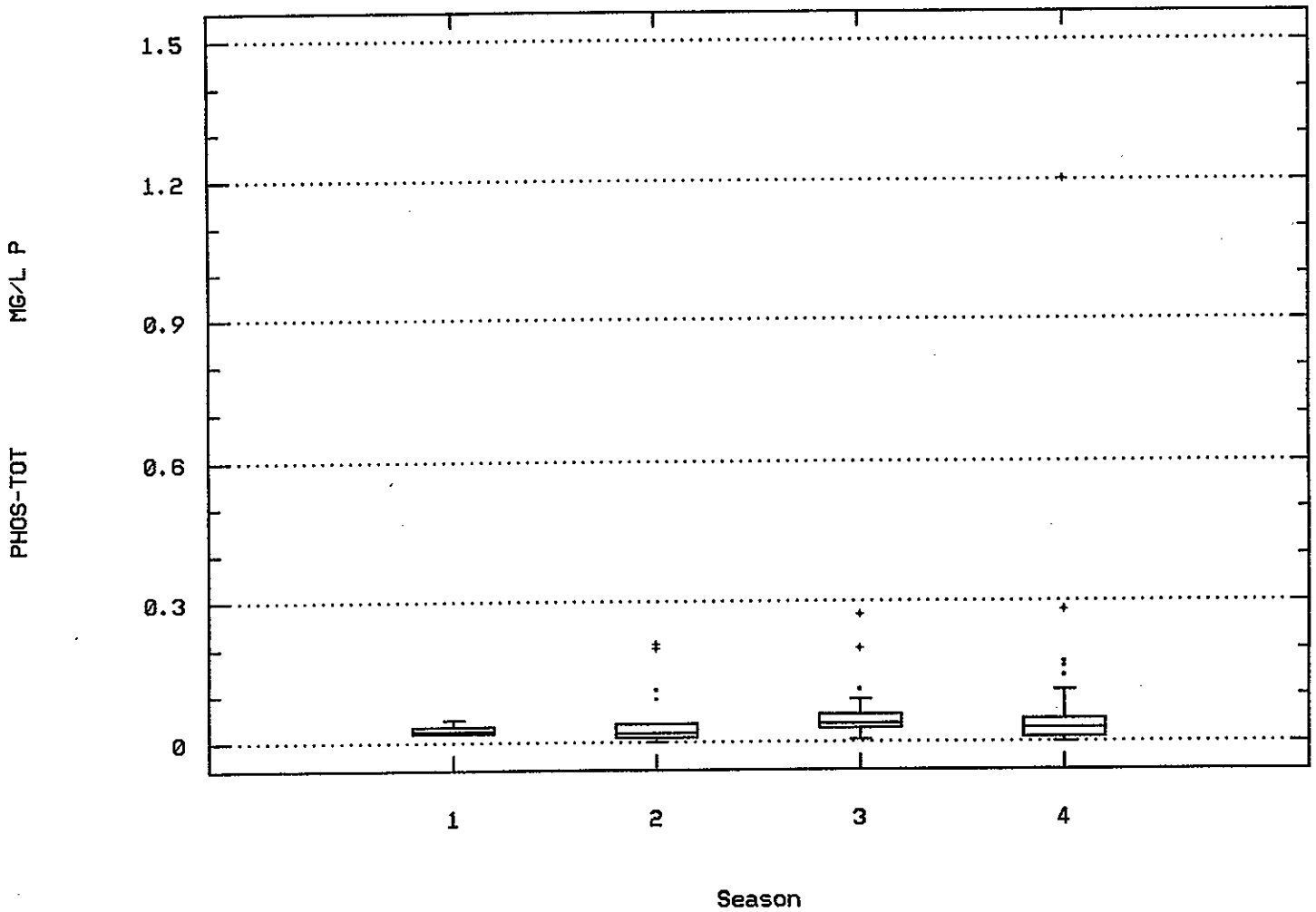
Station: MNRR0040 Parameter Code: 00620

NITRATE NITROGEN, TOTAL (MG/L AS N)



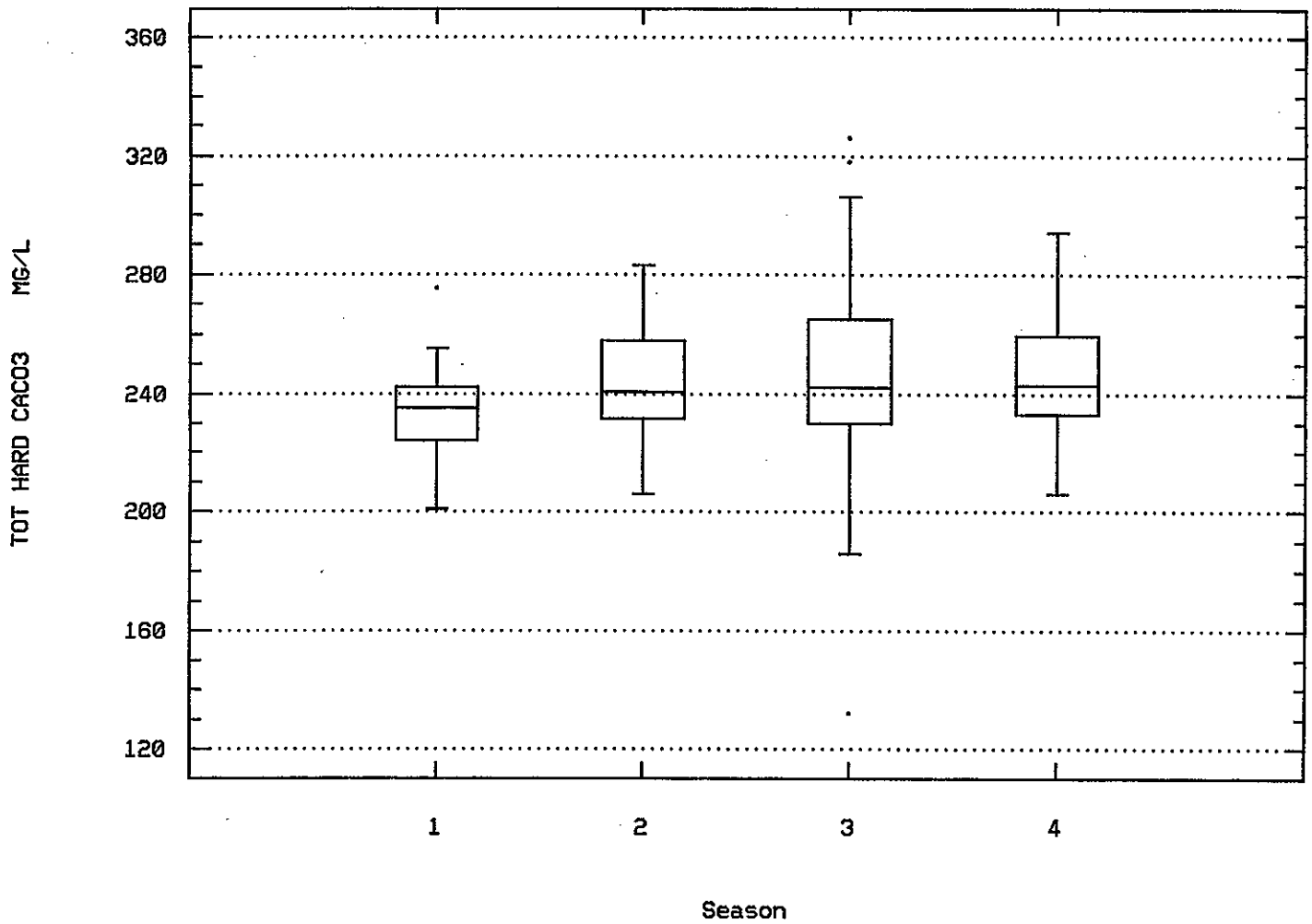
Station: MNRR0040 Parameter Code: 00665

PHOSPHORUS, TOTAL (MG/L AS P)



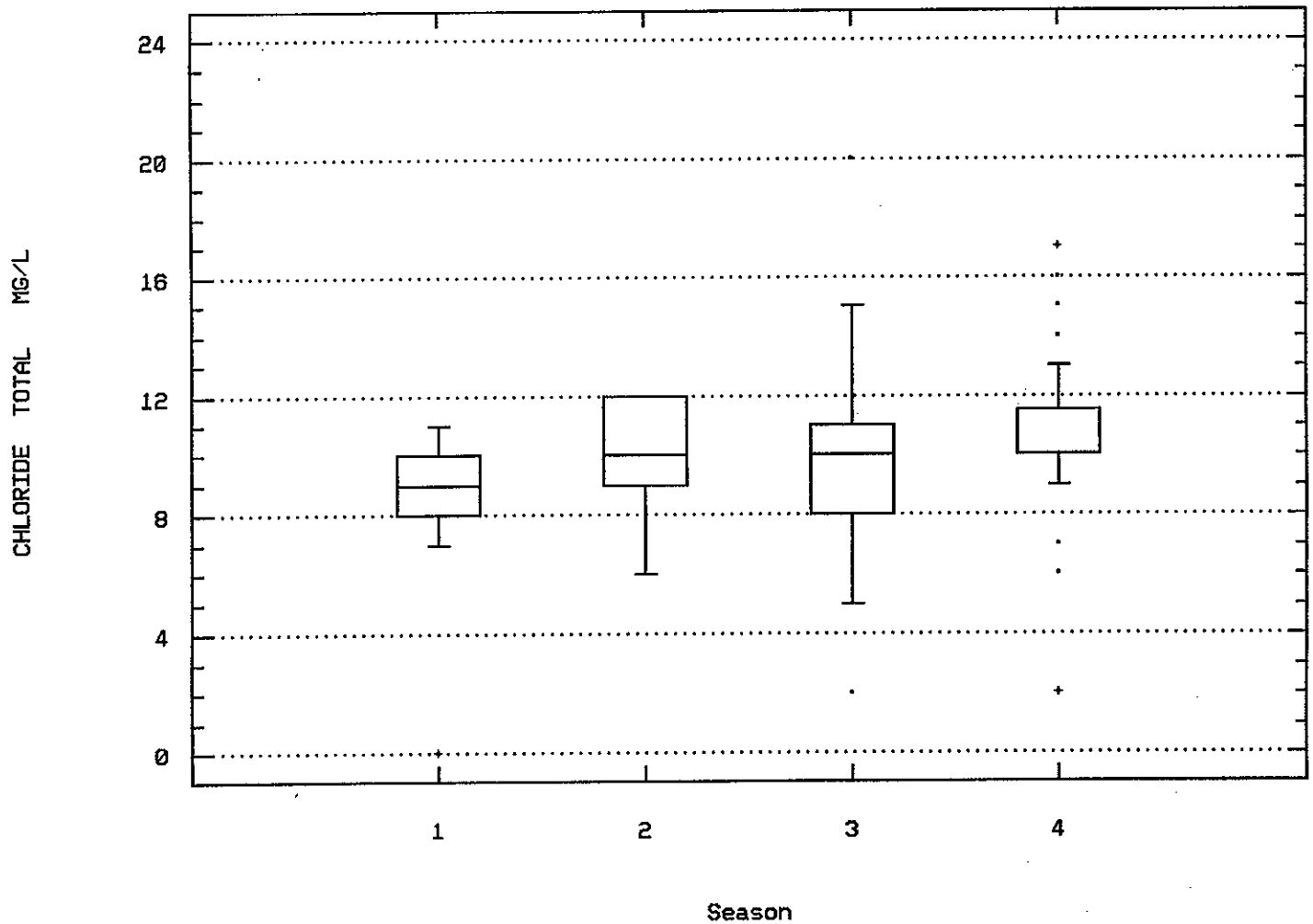
Station: MNRR0040 Parameter Code: 00900

HARDNESS, TOTAL (MG/L AS CACO3)



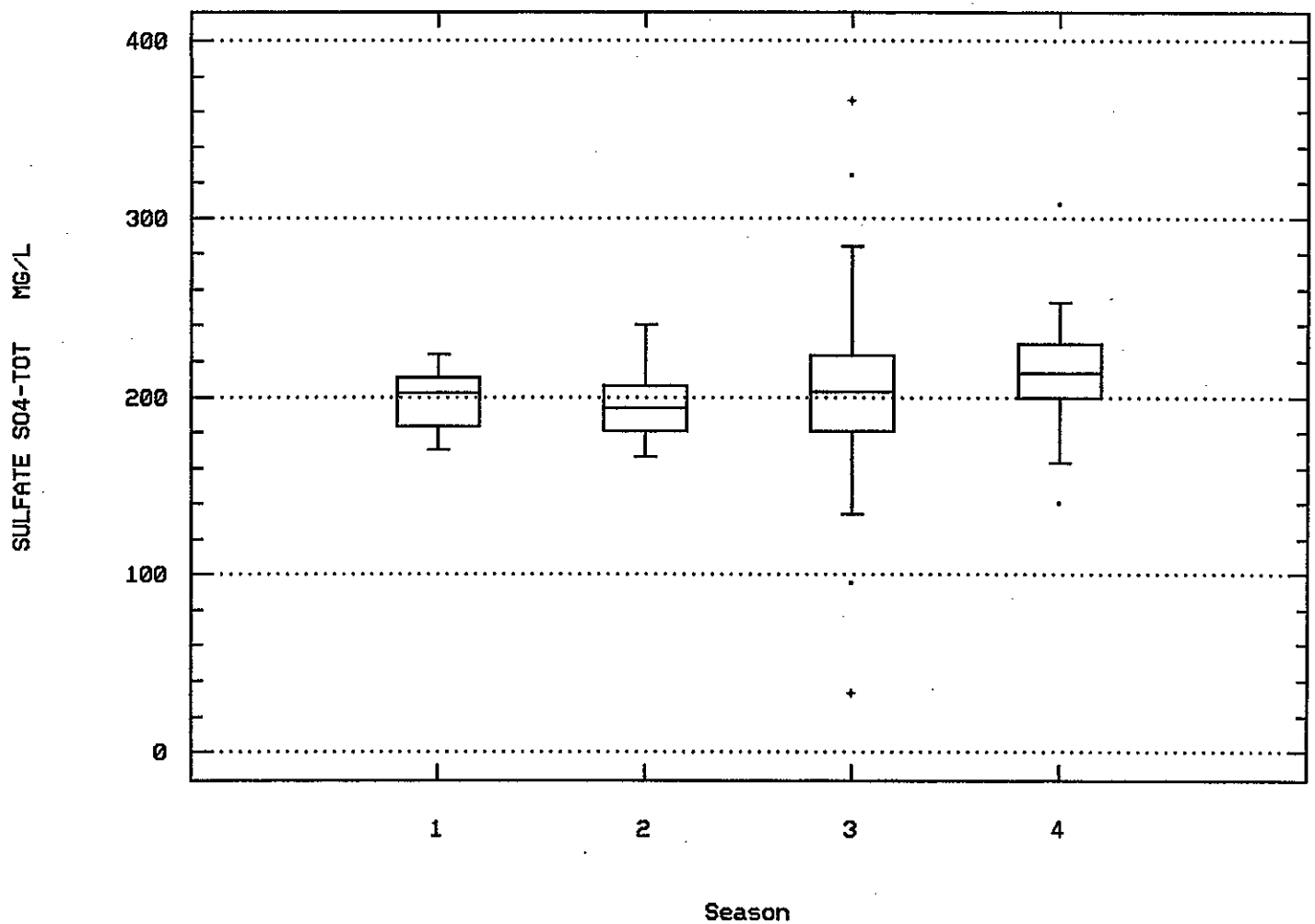
Station: MNRR0040 Parameter Code: 00940

CHLORIDE,TOTAL IN WATER



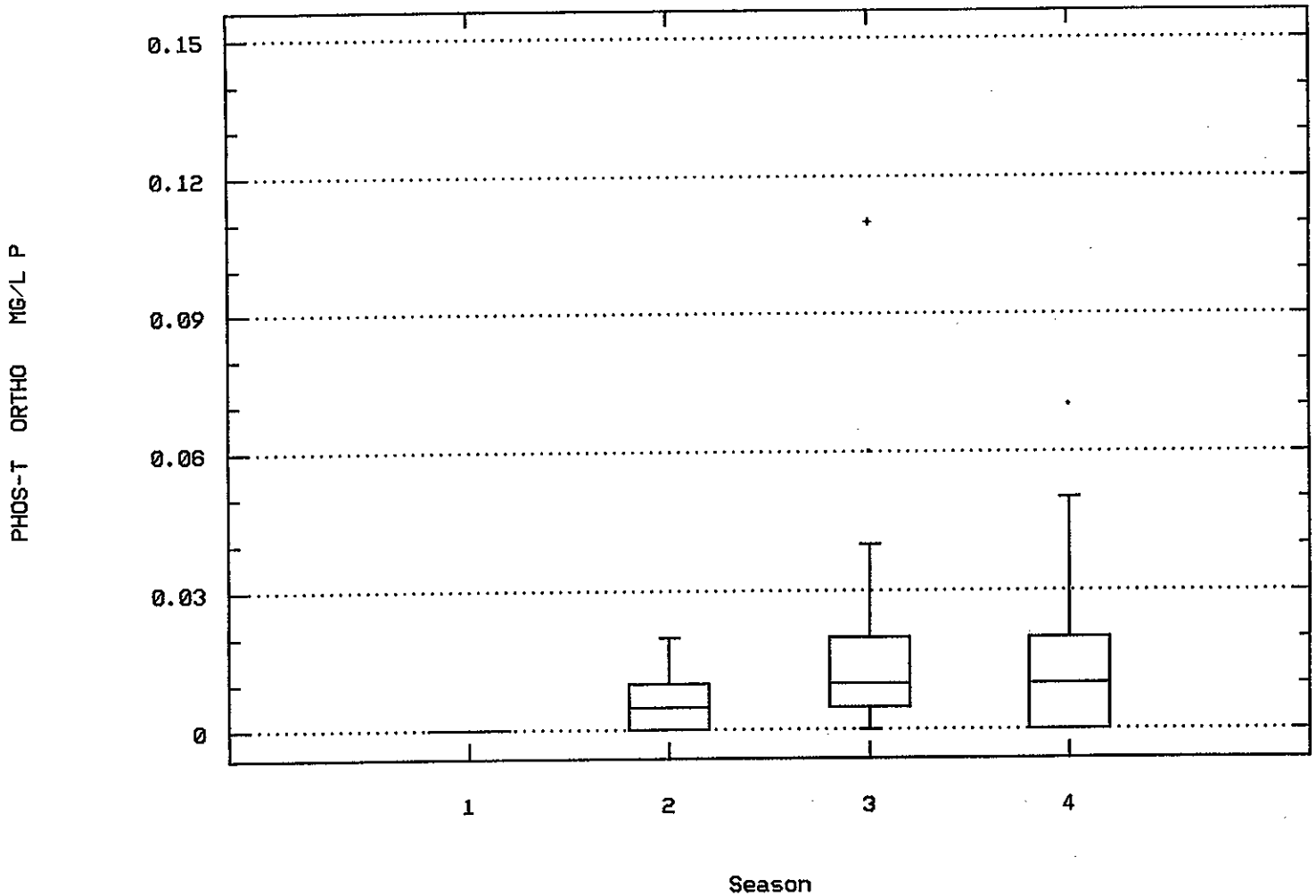
Station: MNRR0040 Parameter Code: 00945

SULFATE, TOTAL (MG/L AS SO4)



Station: MNRR0040 Parameter Code: 70507

PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/



Station Inventory for Station: MNRR0041

NPS Station ID: MNRR0041
LAT/LON: 42.833338/ -97.483337
Agency: 1117MBR
Date Created: 12/15/77
Location: MISSOURI RIVER NEAR YANKTON
FIPS State/County: 31107 NEBRASKA/KNOX
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 002203
RMI-Indexes:
Within Park Boundary: No
RMI-Miles:
HUC: 10170101
Depth of Water: 0
Aquifer:
Major Basin: MISSOURI
Elevation: 0
Water Body Id:
Minor Basin:
ECO Region:
RF1 Index: 10170101019
RF1 Mile Point: 0.140
Distance from RF1: 0.00
On/Off RF1: ON
RF3 Index: 10170101102000.00
RF3 Mile Point: 0.40
Distance from RF3: 0.04
On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0041

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: MNRR0042

NPS Station ID: MNRR0042 LAT/LON: 42.868059/ -97.483337 Agency: 121MBRCE Date Created: 01/28/84
Location: LAKE YANKTON SHALLOW FIPS State/County: 31027 NEBRASKA/CEDAR
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 46CESY
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 9 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: LOWER MISSOURI R FROM NIOBRARA R ECO Region:
RF1 Index: 10170101020 RF1 Mile Point: 1.430 Distance from RF1: 0.00 On/Off RF1: ON
RF3 Index: 10170101160201.05 RF3 Mile Point: 4.73 Distance from RF3: 0.23 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/18/83-10/02/97	338	17.35	17.19	29.	3.	35.27	5.939	10.	13.075	21.85	25.
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/18/83-10/02/97	75	22.	21.76	40.	-5.	77.752	8.818	10.6	17.	29.	33.
00032	CLOUD COVER (PERCENT)	05/18/83-08/06/97	73	25.	40.219	100.	0.	1587.396	39.842	0.	0.	80.	100.
00035	WIND VELOCITY (MILES PER HOUR)	05/18/83-10/02/97	73	10.	8.644	20.	0.	30.371	5.511	0.8	4.5	12.5	15.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/18/82-10/02/97	78	3.	3.549	12.	0.9	5.366	2.316	1.	2.	4.775	6.
00078	TRANSPARENCY, SECCHI DISC (METERS)	05/18/83-10/02/97	74	1.4	1.597	5.	0.11	0.63	0.794	0.85	1.1	2.	2.6
00080	COLOR (PLATINUM-COBALT UNITS)	10/18/82-07/08/97	18	13.5	16.111	70.	2.	242.575	15.575	2.9	5.	20.	34.
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	95	0.2	22.043	289.	0.06	5268.906	72.587	0.1	0.2	0.3	0.3
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/18/83-10/02/97	334	1037.	924.323	1640.	13.	95247.018	308.621	420.	645.75	1128.25	1214.5
00200	LIGHT,INCIDENT,400-700NM,INTENSITY,UEINSTEINS/M2/S	10/10/96-10/10/96	5	8.03	8.19	8.55	7.83	0.114	0.337	**	**	**	**
00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	05/18/83-10/02/97	330	8.8	8.36	16.5	0.02	11.333	3.366	2.55	7.2	10.125	12.2
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	10/02/97-10/02/97	5	96.4	92.08	121.6	52.9	938.817	30.64	**	**	**	**
00400	PH (STANDARD UNITS)	04/29/85-10/02/97	222	7.84	7.782	9.	5.3	0.341	0.584	7.2	7.515	8.1	8.4
00400	CONVERTED PH (STANDARD UNITS)	04/29/85-10/02/97	222	7.84	7.01	9.	5.3	0.94	0.97	7.2	7.515	8.1	8.4
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/29/85-10/02/97	222	0.014	0.098	5.012	0.001	0.274	0.523	0.004	0.008	0.031	0.063
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/18/82-10/02/97	78	199.5	192.718	263.	1.	1581.919	39.773	157.7	182.	213.	227.1
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/18/82-10/02/97	37	908.	890.919	1237.	620.	12597.021	112.236	724.4	839.	934.	996.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/18/82-10/02/97	41	6.	6.756	18.	2.	16.739	4.091	2.	4.	9.	12.6
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/18/82-10/02/97	78	0.05	0.07	0.3	0.	0.006	0.076	0.01	0.01	0.1	0.188
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/18/82-10/02/97	37##	0.005	0.004	0.01	0.	0.	0.003	0.	0.	0.005	0.01
00619	AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	10/18/82-10/02/97	78##	0.005	0.005	0.02	0.	0.	0.003	0.	0.005	0.005	0.01
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/18/82-10/02/97	78	0.06	0.201	3.	0.	0.184	0.429	0.005	0.025	0.193	0.448
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/18/82-10/02/97	78	0.485	0.45	1.1	0.05	0.057	0.239	0.136	0.285	0.6	0.81
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/18/82-10/02/97	78	0.04	0.055	0.46	0.	0.004	0.066	0.01	0.02	0.06	0.113
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	10/18/82-10/02/97	23##	0.005	0.004	0.005	0.	0.	0.002	0.	0.003	0.005	0.005
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/82-10/02/97	78	502.5	513.641	725.	289.	8414.545	91.731	406.	452.75	586.25	639.7
00916	CALCIUM, TOTAL (MG/L AS CA)	10/18/82-08/06/97	30	143.	146.967	208.	85.	969.757	31.141	105.5	127.75	175.25	191.9
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/18/82-08/06/97	30	35.5	36.633	66.	25.	61.826	7.863	27.2	31.75	40.25	42.9
00929	SODIUM, TOTAL (MG/L AS NA)	10/18/82-08/06/97	30	67.	64.76	77.	40.	62.845	7.927	56.2	62.	69.925	72.8
00931	SODIUM ADSORPTION RATIO	10/18/82-08/06/97	30	1.	1.247	2.	1.	0.126	0.355	1.	1.	1.425	2.
00937	POTASSIUM, TOTAL MG/L AS K)	10/18/82-08/06/97	30	10.65	10.977	21.	7.	8.43	2.903	9.	9.	11.25	16.6
00940	CHLORIDE,TOTAL IN WATER MG/L	10/18/82-06/10/97	16	16.	17.	34.	3.	34.933	5.91	11.4	15.25	18.	24.9
00945	SULFATE, TOTAL (MG/L AS SO4)	10/18/82-10/02/97	45	414.	438.133	902.	216.	12822.8	113.238	330.4	380.	484.	542.8
01002	ARSENIC, TOTAL (UG/L AS AS)	10/18/82-10/02/97	38##	1.	1.658	4.	1.	1.042	1.021	1.	1.	2.	4.
01007	BARIUM, TOTAL (UG/L AS BA)	10/18/82-06/10/97	16	32.	31.063	50.	0.	192.063	13.859	9.8	19.25	40.	49.3
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/18/82-10/02/97	38##	1.	0.895	1.	0.	0.097	0.311	0.	1.	1.	1.
01022	BORON, TOTAL (UG/L AS B)	10/18/82-06/10/97	23	167.	171.522	269.	87.	1369.17	37.002	132.	152.	189.	226.8
01027	CADMIUM, TOTAL (UG/L AS CD)	10/18/82-10/02/97	39##	0.2	0.538	2.	0.	0.425	0.652	0.1	0.1	0.8	2.

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

Parameter Inventory for Station: MNRR0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034 CHROMIUM, TOTAL (UG/L AS CR)	10/18/82-10/02/97	38##	2.5	2.947	10.	0.	5.903	2.43	0.45	2.5	2.5	8.1
01042 COPPER, TOTAL (UG/L AS CU)	10/18/82-10/02/97	39##	2.5	3.09	22.	0.	10.327	3.214	2.5	2.5	2.5	3.
01045 IRON, TOTAL (UG/L AS FE)	10/18/82-10/02/97	44	151.	218.295	1085.	19.	39973.376	199.933	88.	121.75	238.25	406.5
01051 LEAD, TOTAL (UG/L AS PB)	10/18/82-10/02/97	35	4.	6.4	40.	0.	79.482	8.915	1.	1.	7.	15.2
01055 MANGANESE, TOTAL (UG/L AS MN)	10/18/82-10/02/97	44	968.	1082.977	3270.	75.	452701.186	672.831	420.5	662.25	1243.25	2160.
01067 NICKEL, TOTAL (UG/L AS NI)	10/18/82-10/02/97	36##	2.5	5.375	21.	0.	24.334	4.933	2.5	2.5	9.	11.9
01077 SILVER, TOTAL (UG/L AS AG)	10/18/82-10/02/97	36##	0.1	0.581	5.	0.	1.892	1.375	0.07	0.1	0.1	2.2
01092 ZINC, TOTAL (UG/L AS ZN)	10/18/82-10/02/97	39	3.	5.051	23.	0.	18.103	4.255	1.	2.	7.	9.
01097 ANTIMONY, TOTAL (UG/L AS SB)	10/18/82-06/10/97	23##	1.	8.391	81.	0.	464.772	21.559	0.	1.	1.5	46.6
01147 SELENIUM, TOTAL (UG/L AS SE)	10/18/82-07/08/97	26##	1.	1.	3.	0.	0.38	0.616	0.	1.	1.	1.45
30295 PROPACHLOR, WATER, WHOLE, RECOVERABLE, UG/L	06/12/89-06/12/89	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/12/83-10/02/97	42	1.5	13.262	228.	0.	1312.489	36.228	0.5	0.5	14.	20.52
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/06/87-10/02/97	31	5.	13.758	98.	0.5	459.548	21.437	0.5	0.5	20.	30.4
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	08/24/83-05/12/97	15##	5.	6.	10.	5.	4.286	2.07	5.	5.	5.	10.
34292 N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	8##	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
34336 DIETHYL PHTHALATE TOTWUG/L	06/05/84-08/11/86	8##	0.245	0.245	0.245	0.245	0.	0.	**	**	**	**
34341 DIMETHYL PHTHALATE TOTWUG/L	06/05/84-08/11/86	8##	0.145	0.145	0.145	0.145	0.	0.	**	**	**	**
34361 ENDOSULFAN, ALPHA TOTWUG/L	10/18/82-05/30/95	26##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
34596 DI-N-OCTYL PHTHALATE TOTWUG/L	06/05/84-08/11/86	8##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39026 STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	10/18/82-08/06/91	20##	0.05	0.19	0.4	0.05	0.031	0.176	0.05	0.05	0.4	0.4
39033 ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/08/87-08/06/97	21##	0.05	0.052	0.1	0.05	0.	0.011	0.05	0.05	0.05	0.05
39055 SIMAZINE IN WHOLE WATER (UG/L)	06/08/87-08/06/97	21##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39100 BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	8##	1.	1.	1.	1.	0.	0.	**	**	**	**
39110 DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	8##	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
39315 O,P' DDD IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/11/86	10##	0.013	0.013	0.015	0.013	0.	0.001	0.013	0.013	0.013	0.015
39330 ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39337 ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/12/89-08/07/89	2##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/18/82-08/06/97	32##	0.02	0.02	0.02	0.015	0.	0.001	0.02	0.02	0.02	0.02
39356 METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/08/87-08/06/97	21##	0.05	0.076	0.6	0.05	0.014	0.12	0.05	0.05	0.05	0.05
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39370 DDT IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39388 ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	08/15/95-08/06/97	5##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39390 ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39400 TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.05	0.14	0.4	0.05	0.024	0.156	0.05	0.05	0.4	0.4
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	32##	0.05	0.161	0.5	0.	0.04	0.199	0.05	0.05	0.388	0.5
39570 DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/08/87-08/06/97	21##	0.05	0.075	0.6	0.015	0.015	0.121	0.022	0.05	0.05	0.09
39782 LINDANE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	31##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/18/82-10/02/97	78	0.01	0.015	0.09	0.	0.	0.017	0.	0.005	0.02	0.041
71900 MERCURY, TOTAL (UG/L AS HG)	10/18/82-10/02/97	22##	0.1	0.157	0.5	0.	0.015	0.124	0.03	0.1	0.213	0.37
77729 RAMROD WHOLE WATER,UG/L	06/08/87-08/06/97	20##	0.05	0.058	0.3	0.	0.003	0.059	0.005	0.05	0.05	0.05
77825 ALACHLOR WHOLE WATER,UG/L	06/08/87-08/06/97	21##	0.05	0.088	0.5	0.05	0.015	0.121	0.05	0.05	0.05	0.33
81283 BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	10/18/82-08/06/97	29##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
81284 TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	06/06/94-08/06/97	8##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81408 METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/08/87-08/06/97	20##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
82052 BANVEL (DICAMBA) WHOLE WATER,UG/L	06/06/94-08/06/97	8##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
82131 ICE, THICKNESS IN METERS	02/12/91-04/27/92	2	0.125	0.125	0.25	0.	0.031	0.177	**	**	**	**
82611 METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/12/89-06/12/89	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: MNRR0042

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	78	0	0.00				4	0	0.00	45	0	0.00	29	0	0.00
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	330	40	0.12				12	0	0.00	196	22	0.11	122	18	0.15
00400 PH	Fresh Chronic	9.	222	2	0.01				5	0	0.00	138	2	0.01	79	0	0.00
	Other-Lo Lim.	6.5	222	11	0.05				5	2	0.40	138	3	0.02	79	6	0.08

& - 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: MNRR0042

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	37	0	0.00				4	0	0.00	17	0	0.00	16	0	0.00
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	78	0	0.00				4	0	0.00	45	0	0.00	29	0	0.00
00720 CYANIDE, TOTAL	Fresh Acute	0.022	23	0	0.00							12	0	0.00	11	0	0.00
	Drinking Water	0.2	23	0	0.00							12	0	0.00	11	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	16	0	0.00							9	0	0.00	7	0	0.00
	Drinking Water	250.	16	0	0.00							9	0	0.00	7	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	45	43	0.96							30	28	0.93	15	15	1.00
01002 ARSENIC, TOTAL	Fresh Acute	360.	38	0	0.00				1	0	0.00	17	0	0.00	20	0	0.00
	Drinking Water	50.	38	0	0.00				1	0	0.00	17	0	0.00	20	0	0.00
01007 BARIUM, TOTAL	Drinking Water	2000.	16	0	0.00							15	0	0.00	1	0	0.00
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	38	0	0.00				1	0	0.00	17	0	0.00	20	0	0.00
	Drinking Water	4.	38	0	0.00				1	0	0.00	17	0	0.00	20	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	39	0	0.00				1	0	0.00	17	0	0.00	21	0	0.00
	Drinking Water	5.	39	0	0.00				1	0	0.00	17	0	0.00	21	0	0.00
01034 CHROMIUM, TOTAL	Drinking Water	100.	38	0	0.00				1	0	0.00	17	0	0.00	20	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	39	1	0.03				1	0	0.00	17	1	0.06	21	0	0.00
	Drinking Water	1300.	39	0	0.00				1	0	0.00	17	0	0.00	21	0	0.00
01051 LEAD, TOTAL	Fresh Acute	82.	35	0	0.00				1	0	0.00	17	0	0.00	17	0	0.00
	Drinking Water	15.	35	3	0.09				1	0	0.00	17	1	0.06	17	2	0.12
01067 NICKEL, TOTAL	Fresh Acute	1400.	36	0	0.00							15	0	0.00	21	0	0.00
	Drinking Water	100.	36	0	0.00							15	0	0.00	21	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	33&	0	0.00				1	0	0.00	14	0	0.00	18	0	0.00
	Drinking Water	100.	36	0	0.00				1	0	0.00	15	0	0.00	20	0	0.00
01092 ZINC, TOTAL	Fresh Acute	120.	39	0	0.00				1	0	0.00	17	0	0.00	21	0	0.00
	Drinking Water	5000.	39	0	0.00				1	0	0.00	17	0	0.00	21	0	0.00
01097 ANTIMONY, TOTAL	Fresh Acute	88.	23	0	0.00							15	0	0.00	8	0	0.00
	Drinking Water	6.	21&	2	0.10							14	0	0.00	7	2	0.29
01147 SELENIUM, TOTAL	Fresh Acute	20.	26	0	0.00							21	0	0.00	5	0	0.00
	Drinking Water	50.	26	0	0.00							21	0	0.00	5	0	0.00
34361 ENDOSULFAN, ALPHA	Fresh Acute	0.22	26	0	0.00							13	0	0.00	13	0	0.00
39033 ATRAZINE IN WHOLE WATER SAMPLE	Drinking Water	3.	21	0	0.00							11	0	0.00	10	0	0.00
39055 SIMAZINE IN WHOLE WATER	Drinking Water	4.	21	0	0.00							11	0	0.00	10	0	0.00
39100 BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	8	0	0.00							4	0	0.00	4	0	0.00
	Drinking Water	6.	8	0	0.00							4	0	0.00	4	0	0.00
39330 ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	31	0	0.00							15	0	0.00	16	0	0.00
39350 CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	32	0	0.00							16	0	0.00	16	0	0.00
	Drinking Water	2.	32	0	0.00							16	0	0.00	16	0	0.00
39365 DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	31	0	0.00							15	0	0.00	16	0	0.00
39370 DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	31	0	0.00							15	0	0.00	16	0	0.00
39380 DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	31	0	0.00							15	0	0.00	16	0	0.00
39388 ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	5	0	0.00							2	0	0.00	3	0	0.00
39390 ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	31	0	0.00							15	0	0.00	16	0	0.00
	Drinking Water	2.	31	0	0.00							15	0	0.00	16	0	0.00
39400 TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	31	0	0.00							15	0	0.00	16	0	0.00
	Drinking Water	3.	31	0	0.00							15	0	0.00	16	0	0.00
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	31	0	0.00							15	0	0.00	16	0	0.00
	Drinking Water	0.2	31	0	0.00							15	0	0.00	16	0	0.00
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	31	0	0.00							15	0	0.00	16	0	0.00
39782 LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	31	0	0.00							15	0	0.00	16	0	0.00
	Drinking Water	0.2	31	0	0.00							15	0	0.00	16	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	22	0	0.00							7	0	0.00	15	0	0.00
	Drinking Water	2.	22	0	0.00							7	0	0.00	15	0	0.00
81283 BENZENEHEXACHLORIDE, WHOLE WATER	Fresh Acute	100.	29	0	0.00							14	0	0.00	15	0	0.00

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

Annual Analysis for 1983 - Station MNRR0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/18/83-10/02/97	21	18.9	18.	26.	11.	32.565	5.707	11.	12.45	24.5	25.
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/18/83-10/02/97	21	1000.	797.143	1080.	395.	90066.829	300.111	395.	457.5	1059.5	1080.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	05/18/83-10/02/97	21	8.8	8.462	12.8	3.9	2.837	1.684	6.96	7.4	9.4	9.66

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

Annual Analysis for 1984 - Station MNRR0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/18/83-10/02/97	26	18.	16.269	29.	6.	52.925	7.275	6.	10.	21.5	26.6
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/18/83-10/02/97	26	710.	672.731	909.	460.	21205.085	145.62	468.5	480.	760.75	836.2
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	05/18/83-10/02/97	26	8.8	7.977	13.	1.7	10.576	3.252	2.	5.15	10.2	12.15

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

Annual Analysis for 1985 - Station MNRR0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/18/83-10/02/97	30	17.	16.267	26.	3.	45.72	6.762	3.7	10.	22.	25.
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/18/83-10/02/97	30	630.	673.467	1092.	377.	68688.189	262.084	408.	423.75	1016.	1092.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	05/18/83-10/02/97	27	8.1	7.981	13.8	0.04	22.129	4.704	0.812	3.2	12.8	13.22
00400 PH (STANDARD UNITS)		04/29/85-10/02/97	11	7.7	7.073	8.	5.3	1.418	1.191	5.3	5.5	8.	8.
00400 CONVERTED PH (STANDARD UNITS)		04/29/85-10/02/97	11	7.7	5.905	8.	5.3	2.917	1.708	5.3	5.5	8.	8.
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/29/85-10/02/97	11	0.02	1.244	5.012	0.01	4.339	2.083	0.01	0.01	3.162	5.012

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

Annual Analysis for 1986 - Station MNRR0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/18/83-10/02/97	23	17.5	17.37	25.	4.	46.232	6.799	4.	17.	22.	25.
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/18/83-10/02/97	23	350.	373.043	528.	284.	5567.68	74.617	291.	340.	378.	525.6
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	05/18/83-10/02/97	23	8.2	9.261	14.1	3.5	7.122	2.669	7.08	7.8	10.5	13.96
00400 PH (STANDARD UNITS)		04/29/85-10/02/97	13	6.8	7.008	7.7	6.	0.376	0.613	6.2	6.5	7.6	7.7
00400 CONVERTED PH (STANDARD UNITS)		04/29/85-10/02/97	13	6.8	6.663	7.7	6.	0.504	0.71	6.2	6.5	7.6	7.7
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/29/85-10/02/97	13	0.158	0.217	1.	0.02	0.073	0.271	0.02	0.025	0.316	0.726

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/18/83-10/02/97	19	19.	20.763	27.	15.	18.51	4.302	16.	16.	24.	27.
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/18/83-10/02/97	19	563.	544.895	660.	444.	4962.211	70.443	444.	490.	610.	650.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	05/18/83-10/02/97	19	7.4	6.647	9.	1.1	6.33	2.516	2.	4.1	8.4	9.
00400 PH (STANDARD UNITS)		04/29/85-10/02/97	15	7.2	7.06	7.6	6.3	0.177	0.421	6.3	6.6	7.3	7.54
00400 CONVERTED PH (STANDARD UNITS)		04/29/85-10/02/97	15	7.2	6.848	7.6	6.3	0.225	0.474	6.3	6.6	7.3	7.54
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/29/85-10/02/97	15	0.063	0.142	0.501	0.025	0.026	0.162	0.029	0.05	0.251	0.501

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/18/83-10/02/97	16	20.	18.881	26.5	9.	50.346	7.095	9.	10.125	26.	26.5
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		07/27/88-07/08/97	8	0.25	0.25	0.3	0.2	0.003	0.053	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/18/83-10/02/97	16	1194.	1191.375	1428.	1095.	8057.45	89.763	1113.9	1122.5	1215.75	1375.5
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	05/18/83-10/02/97	16	8.8	8.081	9.9	1.4	6.731	2.594	2.17	8.425	9.775	9.9
00400 PH (STANDARD UNITS)		04/29/85-10/02/97	9	7.8	7.681	7.93	7.2	0.074	0.273	7.2	7.42	7.93	7.93
00400 CONVERTED PH (STANDARD UNITS)		04/29/85-10/02/97	9	7.8	7.598	7.93	7.2	0.082	0.287	7.2	7.42	7.93	7.93
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/29/85-10/02/97	9	0.016	0.025	0.063	0.012	0.	0.018	0.012	0.012	0.039	0.063

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

Annual Analysis for 1989 - Station MNRR0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/18/83-10/02/97	23	19.	17.491	26.	9.5	34.368	5.862	9.82	13.	22.	26.
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		07/27/88-07/08/97	5	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/18/83-10/02/97	23	1100.	1023.217	1173.	606.	40627.451	201.563	606.	1034.	1154.	1163.8
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	05/18/83-10/02/97	23	9.	8.387	10.1	6.4	1.869	1.367	6.5	6.9	9.8	10.
00400 PH (STANDARD UNITS)		04/29/85-10/02/97	15	8.1	8.321	8.9	7.92	0.136	0.368	7.944	7.97	8.7	8.9
00400 CONVERTED PH (STANDARD UNITS)		04/29/85-10/02/97	15	8.1	8.2	8.9	7.92	0.152	0.389	7.944	7.97	8.7	8.9
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/29/85-10/02/97	15	0.008	0.006	0.012	0.001	0.	0.004	0.001	0.002	0.011	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 box-and-whisker plot

Annual Analysis for 1990 - Station MNRR0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/18/83-10/02/97	23	20.	18.717	26.	10.	27.996	5.291	10.	17.	21.	25.6
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/18/83-10/02/97	23	1037.	1030.435	1140.	927.	3324.348	57.657	946.8	980.	1064.	1116.8
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	05/18/83-10/02/97	23	12.	10.187	12.8	0.3	12.979	3.603	2.78	8.3	12.2	12.4
00400 PH (STANDARD UNITS)		04/29/85-10/02/97	13	8.	8.008	8.9	7.2	0.302	0.55	7.28	7.5	8.45	8.86
00400 CONVERTED PH (STANDARD UNITS)		04/29/85-10/02/97	13	8.	7.745	8.9	7.2	0.377	0.614	7.28	7.5	8.45	8.86
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/29/85-10/02/97	13	0.01	0.018	0.063	0.001	0.	0.019	0.001	0.004	0.032	0.054

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

Annual Analysis for 1991 - Station MNRR0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/18/83-10/02/97	29	14.	16.086	27.	3.	48.787	6.985	7.	10.5	21.75	27.
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/18/83-10/02/97	29	1023.	1009.828	1312.	518.	22257.076	149.188	863.	956.5	1093.	1144.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	05/18/83-10/02/97	24	9.8	7.742	13.8	0.1	18.097	4.254	0.15	7.025	10.8	11.2
00400 PH (STANDARD UNITS)		04/29/85-10/02/97	18	8.	7.967	8.3	7.5	0.046	0.214	7.68	7.8	8.1	8.3
00400 CONVERTED PH (STANDARD UNITS)		04/29/85-10/02/97	18	8.	7.916	8.3	7.5	0.049	0.22	7.68	7.8	8.1	8.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/29/85-10/02/97	18	0.01	0.012	0.032	0.005	0.	0.006	0.005	0.008	0.016	0.021

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

Annual Analysis for 1992 - Station MNRR0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/18/83-10/02/97	19	15.5	12.553	21.	3.	51.275	7.161	3.	7.	19.5	21.
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/18/83-10/02/97	19	1030.	1014.632	1090.	962.	1358.69	36.86	962.	966.	1035.	1053.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	05/18/83-10/02/97	19	9.7	9.616	12.6	0.4	11.985	3.462	3.6	9.2	12.2	12.6
00400 PH (STANDARD UNITS)	04/29/85-10/02/97	19	8.1	7.953	8.3	7.1	0.102	0.319	7.5	7.8	8.2	8.3
00400 CONVERTED PH (STANDARD UNITS)	04/29/85-10/02/97	19	8.1	7.815	8.3	7.1	0.122	0.349	7.5	7.8	8.2	8.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/29/85-10/02/97	19	0.008	0.015	0.079	0.005	0.	0.017	0.005	0.006	0.016	0.032

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

Annual Analysis for 1993 - Station MNRR0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/18/83-10/02/97	23	15.	16.648	22.5	12.5	11.981	3.461	12.82	14.1	21.5	22.
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	4	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/18/83-10/02/97	23	1071.	1095.217	1197.	976.	4084.087	63.907	985.6	1071.	1160.	1168.4
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	05/18/83-10/02/97	23	8.6	8.187	12.2	0.02	8.861	2.977	2.242	7.9	9.2	12.2
00400 PH (STANDARD UNITS)	04/29/85-10/02/97	23	8.4	8.326	9.	7.67	0.173	0.417	7.674	8.	8.5	8.92
00400 CONVERTED PH (STANDARD UNITS)	04/29/85-10/02/97	23	8.4	8.139	9.	7.67	0.21	0.458	7.674	8.	8.5	8.92
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/29/85-10/02/97	23	0.004	0.007	0.021	0.001	0.	0.007	0.001	0.003	0.01	0.021

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

Annual Analysis for 1994 - Station MNRR0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/18/83-10/02/97	21	16.3	17.481	25.2	11.2	23.021	4.798	11.52	12.95	21.5	24.66
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	21	0.2	0.192	0.3	0.06	0.006	0.078	0.09	0.1	0.25	0.3
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/18/83-10/02/97	21	1114.	1132.238	1323.	1046.	4272.79	65.367	1059.	1091.5	1166.	1226.4
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	05/18/83-10/02/97	21	9.	7.362	11.1	0.4	11.617	3.408	0.52	5.85	9.25	10.46
00400 PH (STANDARD UNITS)	04/29/85-10/02/97	21	7.9	7.891	8.08	7.71	0.011	0.105	7.726	7.81	8.	8.
00400 CONVERTED PH (STANDARD UNITS)	04/29/85-10/02/97	21	7.9	7.879	8.08	7.71	0.011	0.106	7.726	7.81	8.	8.
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/29/85-10/02/97	21	0.013	0.013	0.019	0.008	0.	0.003	0.01	0.01	0.015	0.019

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

Annual Analysis for 1995 - Station MNRR0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/18/83-10/02/97	22	17.1	16.995	23.8	10.7	15.337	3.916	11.63	14.05	19.6	23.74
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	22	0.2	94.414	289.	0.06	16444.133	128.235	0.069	0.1	241.5	277.9
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/18/83-10/02/97	22	1217.5	1211.955	1446.	1113.	7864.331	88.681	1117.	1119.75	1288.25	1306.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	05/18/83-10/02/97	22	7.4	7.5	11.8	0.2	13.091	3.618	0.53	5.825	10.775	11.71
00400 PH (STANDARD UNITS)	04/29/85-10/02/97	22	7.83	7.663	7.96	7.27	0.064	0.253	7.319	7.418	7.9	7.917
00400 CONVERTED PH (STANDARD UNITS)	04/29/85-10/02/97	22	7.83	7.592	7.96	7.27	0.069	0.263	7.319	7.417	7.9	7.917
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/29/85-10/02/97	22	0.015	0.026	0.054	0.011	0.	0.015	0.012	0.013	0.038	0.048

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

Annual Analysis for 1996 - Station MNRR0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/18/83-10/02/97	22	14.6	16.909	26.4	11.7	27.828	5.275	11.7	13.25	22.275	26.34
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		07/27/88-07/08/97	22	0.3	0.244	0.3	0.06	0.006	0.078	0.1	0.2	0.3	0.3
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/18/83-10/02/97	18	1169.	1187.778	1383.	1103.	6686.183	81.769	1103.	1128.	1219.25	1356.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	05/18/83-10/02/97	22	8.65	9.295	16.5	0.1	21.625	4.65	0.88	7.725	11.8	16.47
00400 PH (STANDARD UNITS)		04/29/85-10/02/97	22	7.81	7.89	8.33	7.37	0.116	0.34	7.39	7.6	8.25	8.324
00400 CONVERTED PH (STANDARD UNITS)		04/29/85-10/02/97	22	7.81	7.77	8.33	7.37	0.131	0.362	7.39	7.6	8.25	8.324
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/29/85-10/02/97	22	0.015	0.017	0.043	0.005	0.	0.013	0.005	0.006	0.025	0.041

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

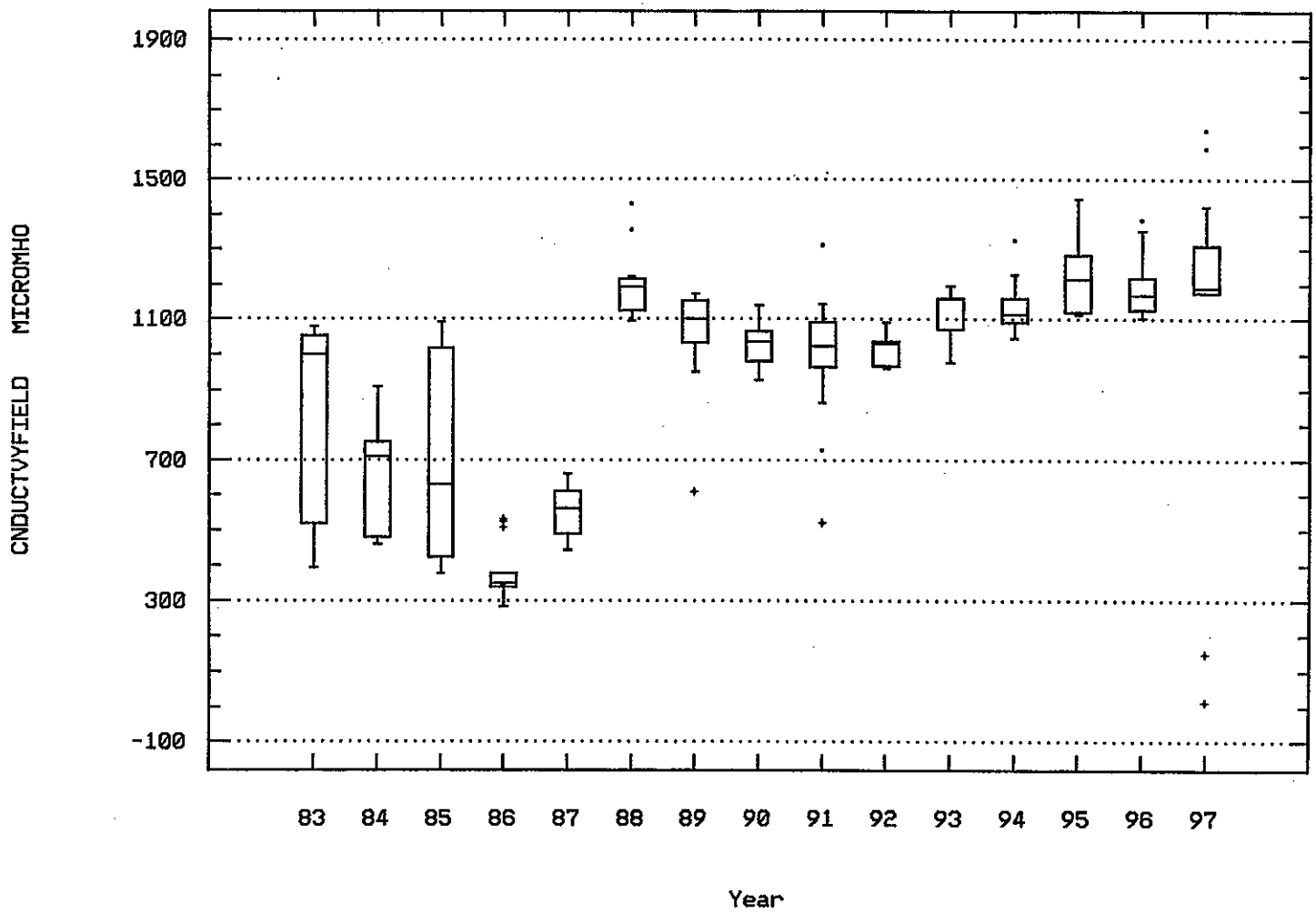
Annual Analysis for 1997 - Station MNRR0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/18/83-10/02/97	21	19.1	18.633	24.1	13.4	14.192	3.767	13.8	14.7	22.2	23.7
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		07/27/88-07/08/97	13	0.3	0.254	0.3	0.2	0.003	0.052	0.2	0.2	0.3	0.3
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/18/83-10/02/97	21	1190.	1118.429	1640.	13.	198087.057	445.07	148.4	1178.	1311.	1556.2
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	05/18/83-10/02/97	21	9.2	8.638	12.7	3.6	4.365	2.089	5.2	7.25	9.9	10.78
00400 PH (STANDARD UNITS)		04/29/85-10/02/97	21	7.63	7.662	8.12	6.96	0.115	0.339	7.092	7.4	7.98	8.07
00400 CONVERTED PH (STANDARD UNITS)		04/29/85-10/02/97	21	7.63	7.527	8.12	6.96	0.134	0.367	7.092	7.4	7.98	8.07
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/29/85-10/02/97	21	0.023	0.03	0.11	0.008	0.001	0.027	0.009	0.01	0.04	0.082

** - Less than 9 observations ## - Computed 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: MNRR0042 Parameter Code: 00094

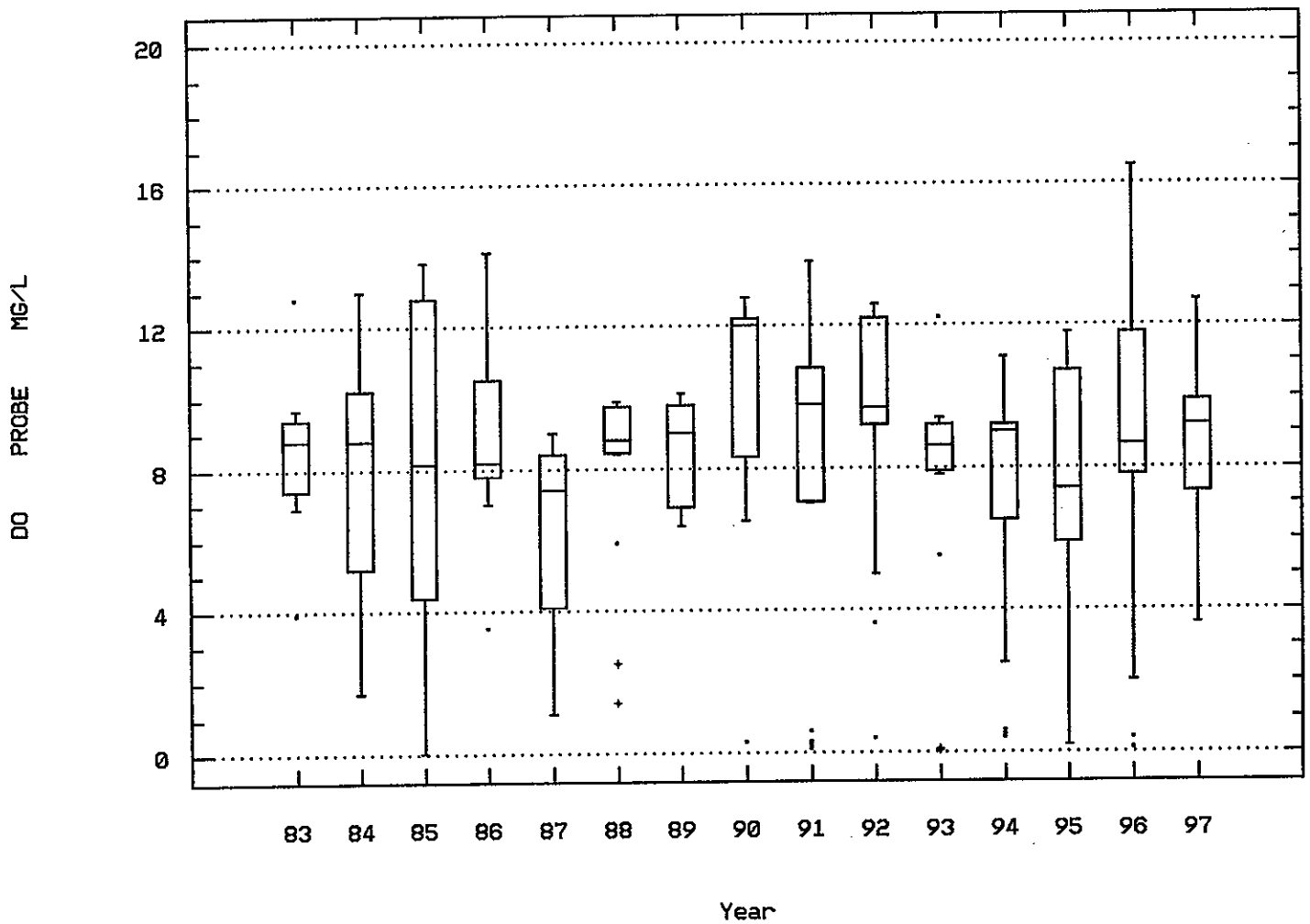
SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @



LAKE YANKTON SHALLOW

Station: MNRR0042 Parameter Code: 00299

OXYGEN ,DISSOLVED, ANALYSIS BY PROBE



LAKE YANKTON SHALLOW

Seasonal Analysis for Season #2: 1/15 to 3/14 - Station MNRR0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/18/83-10/02/97	15	5.	4.867	8.	3.	2.552	1.598	3.	3.	6.	7.4
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/18/83-10/02/97	4	-2.	2.	12.	-5.	51.333	7.165	**	**	**	**
00032 CLOUD COVER (PERCENT)	05/18/83-08/06/97	4	12.5	18.75	50.	0.	572.917	23.936	**	**	**	**
00035 WIND VELOCITY (MILES PER HOUR)	05/18/83-10/02/97	4	5.	4.25	5.	2.	2.25	1.5	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/18/82-10/02/97	4	3.	2.75	4.	1.	1.583	1.258	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	05/18/83-10/02/97	4	1.6	1.55	2.5	0.5	0.777	0.881	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/18/83-10/02/97	15	480.	629.8	1016.	340.	78281.029	279.787	340.	340.	1013.	1016.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	05/18/83-10/02/97	12	11.2	10.25	14.1	5.	16.012	4.001	5.	5.2	13.9	14.07
00400 PH (STANDARD UNITS)	04/29/85-10/02/97	5	7.7	7.32	8.	6.5	0.572	0.756	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	04/29/85-10/02/97	5	7.7	6.87	8.	6.5	0.825	0.909	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/29/85-10/02/97	5	0.02	0.135	0.316	0.01	0.027	0.165	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	10/18/82-10/02/97	4	233.5	236.25	258.	220.	252.25	15.882	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/18/82-10/02/97	4	791.	766.5	864.	620.	12323.667	111.012	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/18/82-10/02/97	4	0.19	0.173	0.3	0.01	0.019	0.137	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	10/18/82-10/02/97	4##	0.003	0.003	0.005	0.	0.	0.003	**	**	**	**
00619 AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	10/18/82-10/02/97	4##	0.008	0.008	0.01	0.005	0.	0.003	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	10/18/82-10/02/97	4	0.095	0.185	0.52	0.03	0.052	0.228	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/18/82-10/02/97	4	0.5	0.6	0.9	0.5	0.04	0.2	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	10/18/82-10/02/97	4	0.04	0.048	0.08	0.03	0.	0.022	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/18/82-10/02/97	4	413.	415.75	479.	358.	2620.917	51.195	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	10/18/82-10/02/97	1##	1.	1.	1.	1.	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	10/18/82-10/02/97	1##	1.	1.	1.	1.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	10/18/82-10/02/97	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	10/18/82-10/02/97	1##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	10/18/82-10/02/97	1##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	10/18/82-10/02/97	1	266.	266.	266.	266.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	10/18/82-10/02/97	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	10/18/82-10/02/97	1	512.	512.	512.	512.	0.	0.	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	10/18/82-10/02/97	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	10/18/82-10/02/97	1##	1.	1.	1.	1.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/18/82-10/02/97	4	0.01	0.01	0.02	0.	0.	0.008	**	**	**	**

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

Seasonal Analysis for Season #3: 3/15 to 7/14 - Station MNRR0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/18/83-10/02/97	201	18.	18.029	27.	7.	26.211	5.12	11.04	13.95	22.	25.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/18/83-10/02/97	44	22.	22.273	40.	10.	54.947	7.413	12.	16.25	27.5	33.
00032 CLOUD COVER (PERCENT)	05/18/83-08/06/97	44	45.	45.568	100.	0.	1624.67	40.307	0.	5.	88.75	100.
00035 WIND VELOCITY (MILES PER HOUR)	05/18/83-10/02/97	43	10.	9.116	20.	0.	37.248	6.103	0.	3.	15.	16.8
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/18/82-10/02/97	45	3.	3.584	12.	0.9	5.866	2.422	1.12	2.	4.85	6.
00078 TRANSPARENCY, SECCHI DISC (METERS)	05/18/83-10/02/97	43	1.4	1.619	5.	0.5	0.755	0.869	0.8	1.	1.9	2.96
00080 COLOR (PLATINUM-COBALT UNITS)	10/18/82-07/08/97	11	12.	18.364	70.	5.	353.455	18.8	5.	5.	20.	62.
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	50	0.2	41.687	289.	0.06	9276.445	96.314	0.11	0.2	0.3	245.4
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/18/83-10/02/97	197	1035.	908.437	1428.	148.	90762.655	301.268	402.2	680.	1115.5	1188.4
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	05/18/83-10/02/97	196	9.	8.594	16.5	0.02	10.909	3.303	3.48	7.725	10.775	12.2
00400 PH (STANDARD UNITS)	04/29/85-10/02/97	138	7.96	7.869	9.	6.3	0.271	0.521	7.2	7.6	8.14	8.5
00400 CONVERTED PH (STANDARD UNITS)	04/29/85-10/02/97	138	7.96	7.489	9.	6.3	0.417	0.646	7.2	7.6	8.14	8.5
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/29/85-10/02/97	138	0.011	0.032	0.501	0.001	0.005	0.072	0.003	0.007	0.025	0.063
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	10/18/82-10/02/97	45	186.	184.089	263.	1.	2153.128	46.402	151.	173.	208.	220.
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/18/82-10/02/97	17	908.	903.471	1237.	728.	12104.89	110.022	764.8	843.	933.	1041.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/18/82-10/02/97	26	6.	6.885	18.	2.	19.226	4.385	2.	3.	9.25	13.1
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/18/82-10/02/97	45	0.03	0.059	0.27	0.	0.004	0.064	0.01	0.01	0.095	0.134
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	10/18/82-10/02/97	17##	0.005	0.004	0.01	0.	0.	0.003	0.	0.	0.005	0.006
00619 AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	10/18/82-10/02/97	45##	0.005	0.005	0.02	0.	0.	0.003	0.	0.005	0.005	0.01
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	10/18/82-10/02/97	45	0.06	0.198	2.07	0.	0.128	0.358	0.005	0.02	0.25	0.65

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

Seasonal Analysis for Season #3: 3/15 to 7/14 - Station MNRR0042

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/18/82-10/02/97	45	0.4	0.418	1.07	0.05	0.053	0.23	0.16	0.22	0.5	0.74
00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/18/82-10/02/97	45	0.03	0.044	0.19	0.	0.002	0.039	0.01	0.02	0.055	0.094
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	10/18/82-10/02/97	12##	0.005	0.003	0.005	0.	0.	0.002	0.	0.001	0.005	0.005
00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/82-10/02/97	45	498.	509.756	725.	289.	7856.189	88.635	416.8	445.5	570.5	637.
00916	CALCIUM, TOTAL (MG/L AS CA)	10/18/82-08/06/97	15	134.	143.6	208.	104.	756.686	27.508	113.	127.	156.	197.8
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/18/82-08/06/97	15	35.	35.533	50.	27.	37.41	6.116	28.2	31.	41.	45.2
00929	SODIUM, TOTAL (MG/L AS NA)	10/18/82-08/06/97	15	64.	63.193	77.	40.	112.304	10.597	42.34	58.	71.	75.8
00931	SODIUM ADSORPTION RATIO	10/18/82-08/06/97	15	1.	1.273	.2.	1.	0.166	0.408	1.	1.	1.5	2.
00937	POTASSIUM, TOTAL MG/L AS K)	10/18/82-08/06/97	15	10.	10.533	17.	7.	5.41	2.326	8.2	9.	11.	14.6
00940	CHLORIDE,TOTAL IN WATER MG/L	10/18/82-06/10/97	9	16.	16.778	34.	3.	62.444	7.902	3.	15.	18.	34.
00945	SULFATE, TOTAL (MG/L AS SO4)	10/18/82-10/02/97	30	391.5	408.933	660.	216.	7917.926	88.983	300.4	377.75	457.5	535.2
01002	ARSENIC, TOTAL (UG/L AS AS)	10/18/82-10/02/97	17##	1.	1.706	4.	1.	1.221	1.105	1.	1.	2.5	4.
01007	BARIUM, TOTAL (UG/L AS BA)	10/18/82-06/10/97	15	33.	32.067	50.	0.	188.495	13.729	8.4	29.	40.	49.4
01012	BERYLLIUM, TOTAL (UG/L AS BE)	10/18/82-10/02/97	17##	1.	0.882	1.	0.	0.11	0.332	0.	1.	1.	1.
01022	BORON, TOTAL (UG/L AS B)	10/18/82-06/10/97	15	166.	167.667	269.	87.	1433.238	37.858	119.4	147.	176.	225.8
01027	CADMIUM, TOTAL (UG/L AS CD)	10/18/82-10/02/97	17	0.2	0.512	2.	0.1	0.316	0.562	0.1	0.1	0.8	1.6
01034	CHROMIUM, TOTAL (UG/L AS CR)	10/18/82-10/02/97	17##	2.5	2.824	9.	0.	3.936	1.984	0.4	2.5	2.5	6.6
01042	COPPER, TOTAL (UG/L AS CU)	10/18/82-10/02/97	17##	2.5	3.765	22.	2.	22.472	4.741	2.4	2.5	2.5	8.4
01045	IRON, TOTAL (UG/L AS FE)	10/18/82-10/02/97	19	185.	223.789	669.	57.	21780.62	147.583	73.	124.	294.	425.
01051	LEAD, TOTAL (UG/L AS PB)	10/18/82-10/02/97	17	4.	4.412	17.	0.	17.507	4.184	0.8	1.	6.5	10.6
01055	MANGANESE, TOTAL (UG/L AS MN)	10/18/82-10/02/97	19	979.	953.895	1910.	273.	158099.877	397.618	511.	659.	1100.	1822.
01067	NICKEL, TOTAL (UG/L AS NI)	10/18/82-10/02/97	15##	2.5	4.433	17.	2.5	17.21	4.148	2.5	2.5	4.	12.2
01077	SILVER, TOTAL (UG/L AS AG)	10/18/82-10/02/97	15##	0.1	0.413	5.	0.	1.611	1.269	0.	0.1	0.1	2.06
01092	ZINC, TOTAL (UG/L AS ZN)	10/18/82-10/02/97	17	3.	5.588	23.	1.	29.007	5.386	1.	2.	7.	14.2
01097	ANTIMONY, TOTAL (UG/L AS SB)	10/18/82-06/10/97	15##	1.	1.767	10.	0.	6.46	2.542	0.	1.	1.	7.
01147	SELENIUM, TOTAL (UG/L AS SE)	10/18/82-07/08/97	21##	1.	1.024	3.	0.	0.262	0.512	0.6	1.	1.	1.
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/12/83-10/02/97	15	1.	11.173	66.6	0.	350.744	18.728	0.3	0.5	14.	51.24
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/06/87-10/02/97	11	5.	8.	28.	0.5	97.9	9.894	0.5	0.5	14.	27.2
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	08/24/83-05/12/97	14##	5.	6.071	10.	5.	4.533	2.129	5.	5.	6.25	10.
34361	ENDOSULFAN, ALPHA TOTWUG/L	10/18/82-05/30/95	13##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39026	STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	10/18/82-08/06/91	9##	0.05	0.167	0.4	0.05	0.031	0.175	0.05	0.05	0.4	0.4
39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/08/87-08/06/97	11##	0.05	0.055	0.1	0.05	0.	0.015	0.05	0.05	0.05	0.09
39055	SIMAZINE IN WHOLE WATER (UG/L)	06/08/87-08/06/97	11##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	15##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/18/82-08/06/97	16##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39356	METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/08/87-08/06/97	11##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	15##	0.015	0.015	0.015	0.013	0.	0.001	0.013	0.015	0.015	0.015
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	15##	0.015	0.015	0.015	0.013	0.	0.001	0.013	0.015	0.015	0.015
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	15##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	15##	0.015	0.015	0.015	0.013	0.	0.001	0.013	0.015	0.015	0.015
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	15##	0.05	0.12	0.4	0.05	0.021	0.145	0.05	0.05	0.05	0.4
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	15##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	15##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	16##	0.05	0.131	0.5	0.	0.034	0.183	0.035	0.05	0.05	0.5
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/08/87-08/06/97	11##	0.05	0.047	0.05	0.015	0.	0.011	0.022	0.05	0.05	0.05
39782	LINDANE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	15##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/18/82-10/02/97	45	0.01	0.012	0.05	0.	0.	0.012	0.	0.005	0.02	0.02
71900	MERCURY, TOTAL (UG/L AS HG)	10/18/82-10/02/97	7	0.2	0.243	0.5	0.1	0.026	0.162	**	**	**	**
77729	RAMROD WHOLE WATER,UG/L	06/08/87-08/06/97	10##	0.05	0.07	0.3	0.	0.007	0.082	0.005	0.05	0.05	0.275
77825	ALACHLOR WHOLE WATER,UG/L	06/08/87-08/06/97	11##	0.05	0.123	0.5	0.05	0.027	0.163	0.05	0.05	0.05	0.48
81283	BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	10/18/82-08/06/97	14##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
81408	METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/08/87-08/06/97	10##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05

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

Seasonal Analysis for Season #4: 7/15 to 11/19 - Station MNRR0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/18/83-10/02/97	122	17.25	17.322	29.	3.	34.599	5.882	10.	13.	22.	25.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	05/18/83-10/02/97	27	24.	23.852	35.	8.	59.439	7.71	9.8	19.	30.	34.
00032 CLOUD COVER (PERCENT)	05/18/83-08/06/97	25	10.	34.24	100.	0.	1613.19	40.165	0.	0.	77.5	100.
00035 WIND VELOCITY (MILES PER HOUR)	05/18/83-10/02/97	26	9.5	8.538	15.	0.	21.138	4.598	2.7	4.75	12.25	15.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/18/82-10/02/97	29	3.	3.603	11.	1.	5.272	2.296	1.	2.	5.	7.
00078 TRANSPARENCY, SECCHI DISC (METERS)	05/18/83-10/02/97	27	1.4	1.571	3.5	0.11	0.457	0.676	0.9	1.1	2.	2.52
00080 COLOR (PLATINUM-COBALT UNITS)	10/18/82-07/08/97	7	15.	12.571	25.	2.	74.286	8.619	**	**	**	**
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	45	0.2	0.217	0.3	0.06	0.007	0.084	0.09	0.2	0.3	0.3
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/18/83-10/02/97	122	1093.	986.189	1640.	13.	91025.047	301.704	538.5	710.	1190.25	1272.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	05/18/83-10/02/97	122	8.6	7.797	13.8	0.1	11.016	3.319	1.65	6.8	9.8	12.
00400 PH (STANDARD UNITS)	04/29/85-10/02/97	79	7.8	7.66	8.7	5.3	0.418	0.647	7.1	7.5	7.93	8.3
00400 CONVERTED PH (STANDARD UNITS)	04/29/85-10/02/97	79	7.8	6.679	8.7	5.3	1.393	1.18	7.1	7.5	7.93	8.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/29/85-10/02/97	79	0.016	0.209	5.012	0.002	0.745	0.863	0.005	0.012	0.032	0.079
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	10/18/82-10/02/97	29	206.	200.103	245.	142.	492.882	22.201	158.	194.	212.5	222.
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/18/82-10/02/97	16	916.	908.688	1092.	696.	10212.896	101.059	705.8	885.75	980.5	1026.2
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/18/82-10/02/97	15	5.	6.533	15.	2.	13.41	3.662	3.2	4.	7.	13.8
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/18/82-10/02/97	29	0.05	0.073	0.27	0.	0.006	0.078	0.005	0.01	0.1	0.26
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	10/18/82-10/02/97	16##	0.005	0.005	0.01	0.	0.	0.003	0.	0.001	0.005	0.01
00619 AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	10/18/82-10/02/97	29##	0.005	0.005	0.01	0.	0.	0.003	0.	0.005	0.005	0.01
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	10/18/82-10/02/97	29	0.06	0.208	3.	0.	0.3	0.548	0.005	0.024	0.19	0.4
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/18/82-10/02/97	29	0.5	0.48	1.1	0.05	0.064	0.254	0.1	0.3	0.63	0.9
00665 PHOSPHORUS, TOTAL (MG/L AS P)	10/18/82-10/02/97	29	0.04	0.073	0.46	0.005	0.009	0.095	0.01	0.02	0.08	0.16
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	10/18/82-10/02/97	11##	0.005	0.004	0.005	0.	0.	0.002	0.	0.005	0.005	0.005
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/18/82-10/02/97	29	543.	533.172	660.	315.	8725.433	93.41	407.	463.	601.5	652.
00916 CALCIUM, TOTAL (MG/L AS CA)	10/18/82-08/06/97	15	152.	150.333	195.	85.	1227.81	35.04	88.	129.	177.	193.2
00927 MAGNESIUM, TOTAL (MG/L AS MG)	10/18/82-08/06/97	15	38.	37.733	66.	25.	88.067	9.384	26.2	32.	40.	52.2
00929 SODIUM, TOTAL (MG/L AS NA)	10/18/82-08/06/97	15	67.	66.327	71.	59.	12.615	3.552	60.8	63.	69.	71.
00931 SODIUM ADSORPTION RATIO	10/18/82-08/06/97	15	1.	1.22	2.	1.	0.093	0.305	1.	1.	1.4	1.76
00937 POTASSIUM, TOTAL MG/L AS K)	10/18/82-08/06/97	15	11.	11.42	21.	7.	11.632	3.411	8.2	10.	12.	18.6
00940 CHLORIDE,TOTAL IN WATER MG/L	10/18/82-06/10/97	7	17.	17.286	21.	15.	3.905	1.976	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/18/82-10/02/97	15	481.	496.533	902.	336.	18417.552	135.711	355.8	396.	529.	731.6
01002 ARSENIC, TOTAL (UG/L AS AS)	10/18/82-10/02/97	20##	1.	1.65	4.	1.	0.976	0.988	1.	1.	2.	3.9
01007 BARIUM, TOTAL (UG/L AS BA)	10/18/82-06/10/97	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	10/18/82-10/02/97	20##	1.	0.9	1.	0.	0.095	0.308	0.1	1.	1.	1.
01022 BORON, TOTAL (UG/L AS B)	10/18/82-06/10/97	8	177.	178.75	242.	126.	1345.071	36.675	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	10/18/82-10/02/97	21##	0.1	0.571	2.	0.	0.55	0.742	0.1	0.1	1.2	2.
01034 CHROMIUM, TOTAL (UG/L AS CR)	10/18/82-10/02/97	20##	2.5	3.075	10.	0.	8.139	2.853	0.05	1.75	2.5	9.8
01042 COPPER, TOTAL (UG/L AS CU)	10/18/82-10/02/97	21##	2.5	2.571	6.	0.	0.957	0.978	2.1	2.5	2.5	3.
01045 IRON, TOTAL (UG/L AS FE)	10/18/82-10/02/97	24	144.5	211.958	1085.	19.	57521.346	239.836	88.	118.5	168.5	580.5
01051 LEAD, TOTAL (UG/L AS PB)	10/18/82-10/02/97	17	4.	8.176	40.	0.	143.029	11.959	0.8	1.	10.5	36.8
01055 MANGANESE, TOTAL (UG/L AS MN)	10/18/82-10/02/97	24	948.5	1208.958	3270.	75.	678123.694	823.483	278.5	674.	1816.25	2516.
01067 NICKEL, TOTAL (UG/L AS NI)	10/18/82-10/02/97	21##	2.5	6.048	21.	0.	29.398	5.422	2.5	2.5	10.5	13.4
01077 SILVER, TOTAL (UG/L AS AG)	10/18/82-10/02/97	20##	0.1	0.73	5.	0.	2.24	1.497	0.1	0.1	0.825	4.6
01092 ZINC, TOTAL (UG/L AS ZN)	10/18/82-10/02/97	21	4.	4.81	12.	0.	10.062	3.172	1.	2.5	7.	8.8
01097 ANTIMONY, TOTAL (UG/L AS SB)	10/18/82-06/10/97	8##	1.25	20.813	81.	0.	1177.424	34.314	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	10/18/82-07/08/97	5##	1.	0.9	2.5	0.	1.05	1.025	**	**	**	**
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/12/83-10/02/97	27	2.	14.422	228.	0.	1876.917	43.323	0.4	0.5	14.	19.72
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/06/87-10/02/97	20	5.5	16.925	98.	0.5	644.323	25.384	0.5	0.625	21.5	66.1
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	08/24/83-05/12/97	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
34361 ENDOSULFAN, ALPHA TOTWUG/L	10/18/82-05/30/95	13##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39026 STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	10/18/82-08/06/91	11##	0.05	0.209	0.4	0.05	0.033	0.183	0.05	0.05	0.4	0.4
39033 ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/08/87-08/06/97	10##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39055 SIMAZINE IN WHOLE WATER (UG/L)	06/08/87-08/06/97	10##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39330 ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	16##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/18/82-08/06/97	16##	0.02	0.02	0.02	0.015	0.	0.001	0.019	0.02	0.02	0.02
39356 METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/08/87-08/06/97	10##	0.05	0.105	0.6	0.05	0.03	0.174	0.05	0.05	0.05	0.545
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	16##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39370 DDT IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	16##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	16##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01

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

Seasonal Analysis for Season #4: 7/15 to 11/19 - Station MNRR0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39390 ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	16##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39400 TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	16##	0.05	0.159	0.4	0.05	0.028	0.168	0.05	0.05	0.4	0.4
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	16##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	16##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	16##	0.05	0.191	0.5	0.05	0.046	0.215	0.05	0.05	0.5	0.5
39570 DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/08/87-08/06/97	10##	0.05	0.107	0.6	0.015	0.03	0.175	0.019	0.05	0.063	0.55
39782 LINDANE IN WHOLE WATER SAMPLE (UG/L)	10/18/82-08/06/97	16##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/18/82-10/02/97	29	0.01	0.021	0.09	0.	0.001	0.024	0.	0.005	0.03	0.06
71900 MERCURY, TOTAL (UG/L AS HG)	10/18/82-10/02/97	15##	0.1	0.117	0.3	0.	0.006	0.079	0.	0.1	0.1	0.27
77729 RAMROD WHOLE WATER,UG/L	06/08/87-08/06/97	10##	0.05	0.045	0.05	0.	0.	0.016	0.005	0.05	0.05	0.05
77825 ALACHLOR WHOLE WATER,UG/L	06/08/87-08/06/97	10##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
81283 BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	10/18/82-08/06/97	15##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
81408 METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/08/87-08/06/97	10##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05

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

Station Inventory for Station: MNRR0043

NPS Station ID: MNRR0043 LAT/LON: 42.859726/ -97.486115 Agency: 1117MBR Date Created: 01/28/89
Location: LEWIS AND CLARK LAKE AT THE GAVINS POINT DAM. FIPS State/County: 31107 NEBRASKA/KNOX
Station Type: /TYPA/AMBNT/FISH/LAKE STORET Station ID(s): 007605
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 4.10 On/Off RF1:
RF3 Index: 10150007000209.40 RF3 Mile Point: 16.22 Distance from RF3: 0.08 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0043

	Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00023	SAMPLE WEIGHT IN POUNDS	10/06/88-10/06/88	3	3.53	3.05	3.74	1.88	1.038	1.019	**	**	**	**
00024	SAMPLE LENGTH IN INCHES	10/06/88-10/06/88	3	18.3	18.267	20.5	16.	5.063	2.25	**	**	**	**
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/06/88-10/06/88	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34258	B-BHC-BETA WET WGTTISMG/KG	10/06/88-10/06/88	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	10/06/88-10/06/88	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	10/06/88-10/06/88	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34360	ENDOSULFAN, BETA WET WGTTISMG/KG	10/06/88-10/06/88	1##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	10/06/88-10/06/88	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	10/06/88-10/06/88	1##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
34669	PCB - 1248 WET WGTTISMG/KG	10/06/88-10/06/88	1##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
34670	PCB - 1260 WET WGTTISMG/KG	10/06/88-10/06/88	1##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
34680	ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	10/06/88-10/06/88	1##	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT,MG/KG	10/06/88-10/06/88	1##	0.015	0.015	0.015	0.015	0.	0.	**	**	**	**
34685	ENDRIN WET WGTTISMG/KG	10/06/88-10/06/88	1##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
34686	HEPTACHLOR EPOXIDE WET WGTTISMG/KG	10/06/88-10/06/88	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34687	HEPTACHLOR WET WGTTISMG/KG	10/06/88-10/06/88	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
34689	PCB - 1242 WET WGTTISMG/KG	10/06/88-10/06/88	1##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
34690	PCB - 1254 WET WGTTISMG/KG	10/06/88-10/06/88	1##	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
34691	TOXAPHENE WET WGTTISMG/KG	10/06/88-10/06/88	1##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	10/06/88-10/06/88	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/06/88-10/06/88	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	10/06/88-10/06/88	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	10/06/88-10/06/88	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/06/88-10/06/88	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
39105	PERCENT FAT HEXANE EXTRACTION	10/06/88-10/06/88	1	3.1	3.1	3.1	3.1	0.	0.	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	10/06/88-10/06/88	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39307	O P DDT IN TISSUE WET WGT (UG/G)	10/06/88-10/06/88	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	10/06/88-10/06/88	1##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/06/88-10/06/88	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**
39325	O,P DDD IN TISSUE WET WGT (UG/G)	10/06/88-10/06/88	1##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	10/06/88-10/06/88	1##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
39346	METOLACHLOR IN TISSUES WETWTMG/KG	10/06/88-10/06/88	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/06/88-10/06/88	1##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/06/88-10/06/88	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/06/88-09/09/96	4	0.07	0.07	0.09	0.05	0.	0.016	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/06/88-10/06/88	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/06/88-10/06/88	1	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
78211	ENDRIN KETONE IN FISH TISSUE WETWTMG/KG	10/06/88-10/06/88	1##	0.004	0.004	0.004	0.004	0.	0.	**	**	**	**

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

Parameter Inventory for Station: MNRR0043

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
80886	CYANAZINE (BLADEX), TISSUE, WET WEIGHT	MG/KG	10/06/88-10/06/88	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81614	NUMBER OF INDIVIDUALS IN THE SAMPLE		10/06/88-09/09/96	4	3.	3.	3.	3.	0.	0.	**	**	**	**
81615	NUMBER OF DIFFERENT SPECIES IN THE SAMPLE		10/06/88-10/06/88	1	1.	1.	1.	1.	0.	0.	**	**	**	**
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT		10/06/88-10/06/88	1##	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG		10/06/88-10/06/88	1##	0.003	0.003	0.003	0.003	0.	0.	**	**	**	**
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT	MG/KG	10/06/88-10/06/88	1##	0.001	0.001	0.001	0.001	0.	0.	**	**	**	**
82404	ATRAZINE IN FISH TISSUE WET WEIGHT	MG/KG	10/06/88-10/06/88	1##	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
82571	ALACHLOR(LASSO) IN TISSUE	MG/KG	10/06/88-10/06/88	1##	0.007	0.007	0.007	0.007	0.	0.	**	**	**	**
82655	FISH LENGTH, TOTAL	CM	08/29/95-09/09/96	17	38.3	38.371	52.2	27.3	35.971	5.998	27.94	36.	41.1	47.
82656	FISH, WHOLE, WET WEIGHT	GRAM	08/29/95-09/09/96	17	446.	485.294	1290.	143.	68248.221	261.244	168.6	335.5	562.5	870.

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

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

Station Inventory for Station: MNRR0044

NPS Station ID: MNRR0044 LAT/LON: 42.859726/ -97.486115 Agency: 21NEB001 Date Created: 08/03/96
Location: LEWIS AND CLARK LAKE FIPS State/County: 31107 NEBRASKA/KNOX
Station Type: /TYPA/AMBNT/LAKE/BIO STORET Station ID(s): LKNLEW01
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id: NEMT2-L0040
Minor Basin: ECO Region: 46G
RF1 Index: 10170101 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 10170203001300.00 RF3 Mile Point: 6.56 Distance from RF3: 0.09 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0044

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: MNRR0045

NPS Station ID: MNRR0045 LAT/LON: 42.850254/ -97.486392
Location: GAVINS POINT POWERHOUSE MONITOR
Station Type: /TYPA/AMBNT/LAKE
RMI-Indexes:
RMI-Miles:
HUC: 10170101 Depth of Water: 999
Major Basin: MISSOURI RIVER Elevation: 0
Minor Basin: LOWER MISSOURI
RF1 Index: 10170101019 RF1 Mile Point: 1.040
RF3 Index: 10170101035000.00 RF3 Mile Point: 0.00
Description:

Agency: 121MBRCE Date Created: 06/30/79
FIPS State/County: 31107 NEBRASKA/KNOX
STORET Station ID(s): 30GPM1
Within Park Boundary: No

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 0.90 On/Off RF1: ON
Distance from RF3: 0.00 On/Off RF3:

Parameter Inventory for Station: MNRR0045

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: MNRR0046

NPS Station ID: MNRR0046 LAT/LON: 42.872226/ -97.487504 Agency: 21SDAK01 Date Created: 02/14/79
Location: YANKTON LAKE T93N R56W SECTION 17 FIPS State/County: 46135 SOUTH DAKOTA/YANKTON
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 46YA04
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI Elevation: 0 Water Body Id:
Minor Basin: LOWER MISSOURI ECO Region:
RF1 Index: 10170101020 RF1 Mile Point: 1.670 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 10170102126800.00 RF3 Mile Point: 0.01 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/28/79-07/28/79	3	20.	15.8	25.7	1.7	157.23	12.539	**	**	**	**
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)		11/21/78-07/28/79	4	52.5	54.5	78.	35.	473.667	21.764	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		02/28/79-07/28/79	3	26.1	17.233	27.8	-2.2	283.963	16.851	**	**	**	**
00021 TEMPERATURE, AIR (DEGREES FAHRENHEIT)		11/21/78-07/28/79	4	53.5	50.25	82.	12.	1264.25	35.556	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		11/21/78-06/02/79	3	890.	890.	900.	880.	100.	10.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	11/21/78-07/28/79	4	8.15	8.	9.9	5.8	3.873	1.968	**	**	**	**
00400 PH (STANDARD UNITS)		11/21/78-07/28/79	4	7.7	7.525	8.3	6.4	0.749	0.866	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		11/21/78-07/28/79	4	7.537	6.938	8.3	6.4	1.208	1.099	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/21/78-07/28/79	4	0.029	0.115	0.398	0.005	0.036	0.19	**	**	**	**
00403 PH, LAB, STANDARD UNITS	SU	11/21/78-07/28/79	4	8.05	8.	8.2	7.7	0.06	0.245	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		11/21/78-07/28/79	4	8.025	7.947	8.2	7.7	0.064	0.252	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/21/78-07/28/79	4	0.009	0.011	0.02	0.006	0.	0.006	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		11/21/78-07/28/79	4	192.	194.	223.	169.	545.333	23.352	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)		11/21/78-07/28/79	4	668.5	864.75	1463.	659.	159088.25	398.859	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		11/21/78-07/28/79	4	641.5	844.	1462.	631.	169788.667	412.054	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		11/21/78-07/28/79	4	24.5	20.75	33.	1.	197.583	14.056	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		11/21/78-07/28/79	4	0.14	0.17	0.38	0.02	0.029	0.172	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)		11/21/78-07/28/79	4##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		11/21/78-07/28/79	4	0.375	0.415	0.81	0.1	0.086	0.294	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		11/21/78-07/28/79	4##	0.05	0.138	0.4	0.05	0.031	0.175	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	11/21/78-07/28/79	4	11.5	11.	13.	8.	6.	2.449	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		11/21/78-07/28/79	4	290.	402.5	760.	270.	56958.333	238.659	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		11/21/78-02/28/79	2##	205.75	205.75	410.	1.5	83436.125	288.853	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		11/21/78-02/28/79	2##	1.394	1.394	2.613	0.176	2.969	1.723	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =		24.799								
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)		11/21/78-07/28/79	4##	0.004	0.005	0.009	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: MNRR0046

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00300 OXYGEN, DISSOLVED	Other-Lo Lim.	4.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
00400 PH	Fresh Chronic	9.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
	Other-Lo Lim.	6.5	4	1	0.25	1	0	0.00	1	1	1.00	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: MNRR0046

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00403 PH, LAB	Fresh Chronic	9.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
	Other-Lo Lim.	6.5	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
	Drinking Water	250.	4	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00	1	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	4	1.00	1	1	1.00	1	1	1.00	1	1	1.00	1	1	1.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	1	0.50	1	0	0.00	1	1	1.00						

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

Station Inventory for Station: MNRR0047

NPS Station ID: MNRR0047 LAT/LON: 42.850004/ -97.491671 Agency: 1117MBR Date Created: / /
Location: MO R @ DAM ABOVE YANKTON, SD FIPS State/County: 46000 SOUTH DAKOTA/
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 460029
RMI-Indexes: 1021500 009490 Within Park Boundary: No
RMI-Miles: 1149.40 0811.10
HUC: 10170101 Depth of Water: 0 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: MIDDLE MISSOURI ECO Region:
RF1 Index: 10170101019 RF1 Mile Point: 1.570 Distance from RF1: 0.00 On/Off RF1: ON
RF3 Index: 10170101000100.00 RF3 Mile Point: 0.00 Distance from RF3: 0.07 On/Off RF3:
Description:
MO R @ GAVINS POINT DAM 3.75 MI SW OF YANKTON, SD FWPCA GAVINS POINT COE 6-4670 4251000 09729300

Parameter Inventory for Station: MNRR0047

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00075 TURBIDITY, HELLIGE (PPM AS SILICON DIOXIDE)	10/07/68-01/27/69	4	6.5	7.75	17.	1.	58.25	7.632	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/07/68-01/27/69	4	764.5	752.5	820.	661.	4565.667	67.57	**	**	**	**
00400 PH (STANDARD UNITS)	10/07/68-10/14/68	2	8.3	8.3	8.3	8.3	0.	0.-	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/07/68-10/14/68	2	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/07/68-10/14/68	2	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	10/07/68-10/14/68	2	169.	169.	169.	169.	0.	0.	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/11/68-01/27/69	4	518.	495.75	543.	404.	3934.25	62.724	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/11/68-01/27/69	4	9.5	23.25	73.	1.	1153.583	33.964	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/07/68-10/14/68	2	0.3	0.3	0.4	0.2	0.02	0.141	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/07/68-10/14/68	2	0.07	0.07	0.08	0.06	0.	0.014	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/07/68-10/14/68	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	10/07/68-10/14/68	2	0.035	0.035	0.04	0.03	0.	0.007	**	**	**	**
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	10/07/68-10/14/68	2	5.5	5.5	6.	5.	0.5	0.707	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/07/68-10/14/68	2	237.5	237.5	250.	225.	312.5	17.678	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/07/68-01/27/69	3	41.	49.	66.	40.	217.	14.731	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/07/68-01/27/69	3	21.	21.	21.	21.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/07/68-01/27/69	4	12.	11.75	12.	11.	0.25	0.5	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/07/68-01/27/69	4	206.	207.25	245.	172.	892.917	29.882	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	10/07/68-10/14/68	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01005 BARIUM, DISSOLVED (UG/L AS BA)	10/07/68-10/07/68	1##	500.	500.	500.	500.	0.	0.	**	**	**	**
01020 BORON, DISSOLVED (UG/L AS B)	10/07/68-10/14/68	2	118.	118.	150.	86.	2048.	45.255	**	**	**	**
01025 CADMIUM, DISSOLVED (UG/L AS CD)	10/07/68-10/07/68	1##	10.	10.	10.	10.	0.	0.	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	10/07/68-10/07/68	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	10/07/68-10/07/68	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	10/07/68-10/07/68	1##	150.	150.	150.	150.	0.	0.	**	**	**	**
01049 LEAD, DISSOLVED (UG/L AS PB)	10/07/68-10/07/68	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	10/07/68-10/07/68	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01065 NICKEL, DISSOLVED (UG/L AS NI)	10/07/68-10/07/68	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	10/07/68-10/07/68	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	10/11/68-10/18/68	2	250.	250.	330.	170.	12800.	113.137	**	**	**	**
31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	10/11/68-10/18/68	2	2.374	2.374	2.519	2.23	0.041	0.204	**	**	**	**
31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506		GEOMETRIC MEAN =		236.854								
31615 FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	10/11/68-10/18/68	2##	120.	120.	230.	10.	24200.	155.563	**	**	**	**
31615 LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	10/11/68-10/18/68	2##	1.681	1.681	2.362	1.	0.927	0.963	**	**	**	**
31615 GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)		GEOMETRIC MEAN =		47.958								

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

EPA Water Quality Criteria Analysis for Station: MNRR0047

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 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
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00										2	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	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
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	4	0	0.00				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.	1	0	0.00										1	0	0.00
01025 CADMIUM, DISSOLVED	Fresh Acute	3.9	0&	0	0.00												
	Drinking Water	5.	0&	0	0.00												
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	1	0	0.00										1	0	0.00
01040 COPPER, DISSOLVED	Fresh Acute	18.	0&	0	0.00												
	Drinking Water	1300.	1	0	0.00										1	0	0.00
01049 LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00										1	0	0.00
	Drinking Water	15.	0&	0	0.00												
01065 NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00										1	0	0.00
	Drinking Water	100.	1	0	0.00										1	0	0.00
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
31505 COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	2	0	0.00										2	0	0.00
31615 FECAL COLIFORM, MPN	Other-Hi Lim.	200.	2	1	0.50										2	1	0.50

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

Station Inventory for Station: MNRR0048

NPS Station ID: MNRR0048 LAT/LON: 42.866670/ -97.491671 Agency: 121MBRCE Date Created: 02/11/77
Location: LEWIS AND CLARK LAKE NR DAM FIPS State/County: 46135 SOUTH DAKOTA/YANKTON
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 30CEG1
RMI-Indexes: Within Park Boundary: No
RMI-Miles:
HUC: 10170101 Depth of Water: 35 Aquifer:
Major Basin: MISSOURI RIVER Elevation: 0 Water Body Id:
Minor Basin: LOWER MISSOURI ECO Region:
RF1 Index: 10170101019 RF1 Mile Point: 1.280 Distance from RF1: 0.00 On/Off RF1: ON
RF3 Index: 10170101160000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.45 On/Off RF3:
Description:

Parameter Inventory for Station: MNRR0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/12/76-10/02/97	1049	18.	16.386	29.	-1.	61.332	7.831	2.	11.6	23.	25.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)		04/12/76-10/02/97	135	20.	18.078	36.	-27.	101.112	10.055	9.	14.	25.	29.4
00025 BAROMETRIC PRESSURE (MM OF HG)		04/23/80-10/07/81	13	729.	624.462	755.	7.	70327.436	265.193	23.4	725.	735.	749.4
00032 CLOUD COVER (PERCENT)		04/12/76-08/06/97	132	40.	44.318	100.	0.	1683.562	41.031	0.	0.	90.	100.
00035 WIND VELOCITY (MILES PER HOUR)		09/20/76-08/06/97	127	8.	9.362	47.	0.	49.185	7.013	2.	5.	15.	15.2
00060 FLOW, STREAM, MEAN DAILY	CFS	06/06/78-09/01/78	2	42300.	42300.	50000.	34600.	118580000.	10889.444	**	**	**	**
00062 ELEVATION, RESERVOIR SURFACE WATER IN FEET		06/17/80-07/09/81	5	1206.9	1331.48	1830.6	1205.2	77851.477	279.019	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		04/12/76-10/02/97	123	6.	7.664	25.	0.	32.207	5.675	1.	3.7	11.	16.
00077 TRANSPARENCY, SECCHI DISC (INCHES)		04/12/76-10/07/81	33	36.	40.818	131.	12.	446.778	21.137	24.	25.5	48.	60.
00078 TRANSPARENCY, SECCHI DISC (METERS)		08/25/82-10/02/97	77	0.9	1.106	7.1	0.4	0.69	0.831	0.6	0.75	1.05	1.84
00080 COLOR (PLATINUM-COBALT UNITS)		04/12/76-07/08/97	35	15.	14.943	35.	5.	72.35	8.506	5.	6.	20.	30.
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		07/27/88-07/08/97	211	0.3	64.978	759.	0.04	36536.447	191.145	0.12	0.2	0.3	316.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		04/12/76-10/02/97	893	728.	678.284	1978.	252.	28562.715	169.005	390.	645.	787.	816.2
00210 INVALID PARAMETER		08/01/78-08/01/78	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	04/12/76-10/02/97	937	8.8	9.27	18.	0.3	6.436	2.537	6.7	7.6	11.	12.6
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	10/02/97-10/02/97	8	101.1	103.063	110.2	97.9	23.877	4.886	**	**	**	**
00335 COD, .025N K2CR2O7	MG/L	04/12/76-10/04/79	23	10.	10.409	20.	3.	19.184	4.38	4.	7.	13.	16.8
00400 PH (STANDARD UNITS)		04/12/76-10/02/97	621	8.2	8.179	10.	5.3	0.258	0.508	7.67	8.	8.4	8.608
00400 CONVERTED PH (STANDARD UNITS)		04/12/76-10/02/97	621	8.2	7.438	10.	5.3	0.808	0.899	7.67	8.	8.4	8.608
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/12/76-10/02/97	621	0.006	0.037	5.012	0.	0.094	0.307	0.002	0.004	0.01	0.021
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		04/12/76-10/02/97	126	162.	165.492	330.	123.	401.068	20.027	149.4	156.75	173.	178.9
00440 BICARBONATE ION (MG/L AS HCO3)		04/12/76-02/23/79	18	196.5	195.056	217.	151.	190.526	13.803	181.6	189.5	203.5	210.7
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		04/12/76-10/02/97	84	515.	518.452	977.	356.	5810.974	76.23	451.	474.	543.5	588.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		02/01/77-10/02/97	64	10.5	12.344	44.	2.	64.896	8.056	5.	7.	14.	24.
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/25/76-10/02/97	133	0.02	0.047	0.72	0.	0.007	0.081	0.007	0.01	0.06	0.102
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)		06/30/82-10/02/97	48##	0.005	0.007	0.11	0.	0.	0.016	0.	0.	0.005	0.01
00619 AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4)	(MG/L)	06/17/80-10/02/97	101##	0.005	0.004	0.02	0.	0.	0.004	0.	0.	0.005	0.01
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)		04/12/76-10/02/97	133	0.09	0.219	2.14	0.	0.15	0.387	0.005	0.02	0.215	0.532
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		04/12/76-10/02/97	119	0.4	0.446	0.9	0.	0.042	0.204	0.2	0.3	0.6	0.7
00650 PHOSPHATE, TOTAL (MG/L AS PO4)		04/12/76-09/20/76	4	0.03	0.03	0.04	0.02	0.	0.008	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)		05/25/76-05/25/76	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		05/25/76-10/02/97	133	0.04	0.054	0.33	0.	0.003	0.054	0.02	0.03	0.06	0.1
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)		02/21/78-10/04/79	14	0.01	0.025	0.13	0.	0.002	0.043	0.	0.	0.02	0.125
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		10/26/77-10/04/79	15	0.	0.015	0.12	0.	0.002	0.041	0.	0.	0.	0.114
00678 PHOSPHORUS,HYDROLYZABLE + ORTHO,TOT,AUTOANALYZER		05/20/77-10/04/79	23	0.02	0.023	0.05	0.	0.	0.013	0.004	0.02	0.03	0.04
00680 CARBON, TOTAL ORGANIC (MG/L AS C)		04/19/77-10/04/79	25	4.	4.224	6.	1.	1.15	1.072	2.64	4.	5.	5.4
00720 CYANIDE, TOTAL (MG/L AS CN)	MG/L	08/13/80-10/02/97	28##	0.005	0.003	0.005	0.	0.	0.002	0.	0.	0.005	0.005
00900 HARDNESS, TOTAL (MG/L AS CACO3)		04/21/78-10/02/97	114	255.	256.491	368.	165.	667.261	25.831	228.	240.	272.	283.5

** - 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: MNRR0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00916	CALCIUM, TOTAL (MG/L AS CA)	05/30/79-08/06/97	49	62.	62.959	82.	48.	45.04	6.711	54.	60.	67.	74.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/30/79-08/06/97	49	24.	23.673	31.	17.	6.891	2.625	21.	22.	25.	27.
00929	SODIUM, TOTAL (MG/L AS NA)	02/21/78-08/06/97	44	71.4	71.282	89.	44.	112.491	10.606	59.	65.	78.75	85.
00931	SODIUM ADSORPTION RATIO	07/09/80-08/06/97	36	2.	2.058	3.	1.	0.116	0.341	1.77	2.	2.1	2.4
00937	POTASSIUM, TOTAL MG/L AS K)	06/30/82-08/06/97	31	6.	8.352	73.	4.	146.793	12.116	4.92	5.	7.	9.8
00940	CHLORIDE,TOTAL IN WATER MG/L	02/21/78-06/10/97	41	11.	10.817	19.	0.5	8.297	2.88	9.	10.	12.	14.6
00945	SULFATE, TOTAL (MG/L AS SO4)	04/12/76-10/02/97	80	211.5	216.775	360.	38.	1818.303	42.642	183.2	196.	238.25	261.8
00951	FLUORIDE, TOTAL (MG/L AS F)	04/12/76-10/04/79	19	0.5	0.5	0.97	0.	0.039	0.197	0.29	0.4	0.58	0.8
01002	ARSENIC, TOTAL (UG/L AS AS)	04/12/76-10/02/97	71	2.	1.972	4.	1.	0.713	0.845	1.	1.	2.	3.
01005	BARIUM, DISSOLVED (UG/L AS BA)	02/21/78-02/19/79	7	40.	40.	50.	30.	33.333	5.774	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	04/12/76-06/10/97	34	49.	49.324	100.	28.	203.498	14.265	29.5	42.75	55.5	67.
01012	BERYLLIUM, TOTAL (UG/L AS BE)	04/12/76-10/02/97	69##	1.	0.58	1.	0.	0.247	0.497	0.	0.	1.	1.
01022	BORON, TOTAL (UG/L AS B)	04/12/76-06/10/97	49	144.	154.837	298.	42.	2561.014	50.606	105.	115.5	190.	230.
01023	BORON IN BOTTOM DEPOSITS (MG/KG AS B DRY WGT)	10/26/77-10/26/77	1	1.	1.	1.	1.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	04/12/76-10/02/97	71	0.3	1.354	15.	0.	6.476	2.545	0.1	0.1	1.	4.8
01034	CHROMIUM, TOTAL (UG/L AS CR)	04/12/76-10/02/97	69##	2.5	2.21	10.	0.	5.834	2.415	0.	0.	2.5	5.
01037	COBALT, TOTAL (UG/L AS CO)	04/12/76-10/04/79	20	1.5	2.25	10.	0.	7.776	2.789	0.	0.	4.	6.8
01042	COPPER, TOTAL (UG/L AS CU)	04/12/76-10/02/97	72	2.5	3.653	12.	0.	5.885	2.426	1.3	2.5	5.	7.7
01045	IRON, TOTAL (UG/L AS FE)	04/12/76-10/02/97	80	281.	336.4	1130.	34.	60096.041	245.145	82.	160.	420.	780.9
01049	LEAD, DISSOLVED (UG/L AS PB)	07/15/81-07/15/81	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01051	LEAD, TOTAL (UG/L AS PB)	04/12/76-10/02/97	68	7.	8.	70.	0.	103.575	10.177	0.	1.	10.	20.
01055	MANGANESE, TOTAL (UG/L AS MN)	04/12/76-10/02/97	80	39.5	56.45	285.	5.	2521.846	50.218	18.	27.	71.25	100.9
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	02/01/77-02/19/79	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	04/12/76-10/04/79	18	0.	2.222	20.	0.	41.83	6.468	0.	0.	0.	20.
01067	NICKEL, TOTAL (UG/L AS NI)	04/12/76-10/02/97	61	6.	5.902	18.	0.	17.107	4.136	2.5	2.5	9.	11.
01077	SILVER, TOTAL (UG/L AS AG)	04/12/76-10/02/97	67	0.1	0.407	5.	0.	0.828	0.91	0.	0.	0.3	1.
01087	VANADIUM, TOTAL (UG/L AS V)	04/12/76-10/04/79	18	0.	2.222	20.	0.	41.83	6.468	0.	0.	0.	20.
01092	ZINC, TOTAL (UG/L AS ZN)	04/12/76-10/02/97	71	8.	13.085	62.	0.	209.793	14.484	1.2	4.	14.	36.
01097	ANTIMONY, TOTAL (UG/L AS SB)	06/30/82-06/10/97	24##	1.	9.375	100.	0.	538.179	23.199	0.	1.	2.25	43.5
01105	ALUMINUM, TOTAL (UG/L AS AL)	04/12/76-07/15/81	25	260.	304.08	930.	21.	62509.577	250.019	50.4	96.5	442.	734.
01132	LITHIUM, TOTAL (UG/L AS LI)	04/12/76-07/15/81	25	45.	45.32	67.	36.	32.227	5.677	40.	42.	47.	50.4
01145	SELENIUM, DISSOLVED (UG/L AS SE)	05/20/77-10/26/77	4	2.	1.75	2.	1.	0.25	0.5	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)	04/12/76-07/08/97	52	1.	1.51	3.	0.	0.544	0.738	1.	1.	2.	2.35
30295	PROPACHLOR, WATER, WHOLE, RECOVERABLE, UG/L	06/13/89-06/13/89	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/78-07/18/78	1	36.	36.	36.	36.	0.	0.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/18/78-07/18/78	1	1.556	1.556	1.556	1.556	0.	0.	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		36.								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	08/25/82-10/02/97	43	1.	9.088	123.	0.	605.54	24.608	0.	0.5	9.	12.
32216	CHLOROPHYLL,TOTAL UG/L TRICHROMATIC UNCORRECTED	04/23/80-10/07/81	15	7.	18.667	63.	2.	407.952	20.198	2.	4.	30.	53.4
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/07/87-10/02/97	30	3.5	11.183	93.	0.5	426.922	20.662	0.5	0.5	10.25	30.4
32230	CHLOROPHYLL A (MG/L)	04/22/81-06/30/82	2	0.003	0.003	0.006	0.	0.	0.004	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/30/82-05/12/97	17##	5.	5.176	10.	0.	3.654	1.912	4.	5.	5.	8.4
34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	8##	0.17	0.17	0.17	0.17	0.	0.	**	**	**	**
34336	DIETHYL PHTHALATE TOTWUG/L	06/05/84-08/11/86	8##	0.245	0.245	0.245	0.245	0.	0.	**	**	**	**
34341	DIMETHYL PHTHALATE TOTWUG/L	06/05/84-08/11/86	8##	0.145	0.145	0.145	0.145	0.	0.	**	**	**	**
34361	ENDOSULFAN, ALPHA TOTWUG/L	07/15/81-05/30/95	29##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
34596	DI-N-OCTYL PHTHALATE TOTWUG/L	06/05/84-08/11/86	8##	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
39026	STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	07/15/81-08/07/91	22##	0.05	0.209	0.4	0.05	0.032	0.178	0.05	0.05	0.4	0.4
39033	ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/08/87-08/06/97	22##	0.05	0.091	0.4	0.05	0.008	0.088	0.05	0.05	0.1	0.24
39055	SIMAZINE IN WHOLE WATER (UG/L)	06/08/87-08/06/97	22##	0.05	0.066	0.4	0.05	0.006	0.075	0.05	0.05	0.05	0.05
39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	8##	1.	1.	1.	1.	0.	0.	**	**	**	**
39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	06/05/84-08/11/86	8##	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
39315	O,P' DDD IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/11/86	12##	0.013	0.013	0.015	0.013	0.	0.001	0.013	0.013	0.013	0.015
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	34##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/13/89-08/07/89	2##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/15/81-08/06/97	35##	0.02	0.021	0.04	0.02	0.	0.003	0.02	0.02	0.02	0.02
39356	METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/08/87-08/06/97	22##	0.05	0.066	0.4	0.05	0.006	0.075	0.05	0.05	0.05	0.05
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	34##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	34##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	34##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	08/15/95-08/06/97	5##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	34##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	34##	0.05	0.153	0.4	0.05	0.026	0.162	0.05	0.05	0.4	0.4

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

Parameter Inventory for Station: MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	34##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	34##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	08/13/80-08/06/97	37##	0.05	0.208	0.5	0.05	0.047	0.218	0.05	0.05	0.5	0.5
39570 DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/08/87-08/06/97	22##	0.05	0.065	0.4	0.015	0.006	0.076	0.026	0.05	0.05	0.085
39782 LINDANE IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	34##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
60050 ALGAE, TOTAL (CELLS/ML)	04/19/77-10/08/80	3	250.	4320.333	12500.	211.	50180590.333	7083.826	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/23/80-10/02/97	104	0.01	0.013	0.09	0.	0.	0.014	0.	0.005	0.02	0.03
71000 COUNT LEVEL OF MOST ABNDNT ALGAE1ST DOMINANT /ML	10/08/80-10/08/80	1	9300.	9300.	9300.	9300.	0.	0.	**	**	**	**
71001 COUNT LEVEL OF MOST ABNDNT ALGAE2ND DOMINANT /ML	10/08/80-10/08/80	1	1430.	1430.	1430.	1430.	0.	0.	**	**	**	**
71002 COUNT LEVEL OF MOST ABNDNT ALGAE3RD DOMINANT /ML	10/08/80-10/08/80	1	720.	720.	720.	720.	0.	0.	**	**	**	**
71003 COUNT LEVEL OF MOST ABNDNT ALGAE4TH DOMINANT /ML	10/08/80-10/08/80	1	720.	720.	720.	720.	0.	0.	**	**	**	**
71004 COUNT LEVEL OF MOST ABNDNT ALGAE5TH DOMINANT /ML	10/08/80-10/08/80	1	360.	360.	360.	360.	0.	0.	**	**	**	**
71010 GENUS OF MOST ABUNDANT ALGAE 1ST DOMINANT /ML	10/08/80-10/08/80	1	69.	69.	69.	69.	0.	0.	**	**	**	**
71011 GENUS OF MOST ABUNDANT ALGAE 2ND DOMINANT /ML	10/08/80-10/08/80	1	33.	33.	33.	33.	0.	0.	**	**	**	**
71012 GENUS OF MOST ABUNDANT ALGAE 3RD DOMINANT /ML	10/08/80-10/08/80	1	74.	74.	74.	74.	0.	0.	**	**	**	**
71013 GENUS OF MOST ABUNDANT ALGAE 4TH DOMINANT /ML	10/08/80-10/08/80	1	71.	71.	71.	71.	0.	0.	**	**	**	**
71014 GENUS OF MOST ABUNDANT ALGAE 5TH DOMINANT /ML	10/08/80-10/08/80	1	88.	88.	88.	88.	0.	0.	**	**	**	**
71845 NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/12/76-09/20/76	4	0.05	0.048	0.08	0.01	0.001	0.03	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	04/12/76-10/02/97	54	0.275	0.312	0.9	0.	0.06	0.245	0.05	0.1	0.5	0.75
72030 ELEVATION OF RESERVOIR POOL (FT ABOVE MSL)	04/12/76-11/29/78	26	1206.75	1206.719	1208.3	1205.	1.422	1.192	1205.	1205.925	1208.	1208.13
77729 RAMROD WHOLE WATER,UG/L	06/08/87-08/06/97	21##	0.05	0.045	0.05	0.	0.	0.015	0.01	0.05	0.05	0.05
77825 ALACHLOR WHOLE WATER,UG/L	06/08/87-08/06/97	22##	0.05	0.068	0.4	0.05	0.006	0.075	0.05	0.05	0.05	0.085
81283 BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	07/15/81-08/06/97	32##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
81284 TRIFLURALIN(C13H16F3N3O4) WHOLE WATER SAMPLE UG/L	06/06/94-08/06/97	8##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
81408 METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/08/87-08/06/97	21##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
82052 BANVEL (DICAMBA) WHOLE WATER,UG/L	06/06/94-08/06/97	8##	0.05	0.081	0.3	0.05	0.008	0.088	**	**	**	**
82131 ICE, THICKNESS IN METERS	02/17/88-02/06/96	8	0.5	0.521	0.75	0.3	0.016	0.125	**	**	**	**
82611 METRIBUZIN, WHOLE WATER, TOTAL RECOVERABLE UG/L	06/13/89-06/13/89	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: MNRR0048

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	123	0	0.00	1	0	0.00	16	0	0.00	59	0	0.00	47	0	0.00
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Other-Lo Lim.	4.	937	12	0.01	4	0	0.00	107	0	0.00	467	3	0.01	359	9	0.03
00400 PH	Fresh Chronic	9.	621	37	0.06	4	0	0.00	70	23	0.33	309	13	0.04	238	1	0.00
	Other-Lo Lim.	6.5	621	8	0.01	4	0	0.00	70	3	0.04	309	1	0.00	238	4	0.02
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	48	0	0.00				13	0	0.00	18	0	0.00	17	0	0.00
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	133	0	0.00	1	0	0.00	15	0	0.00	62	0	0.00	55	0	0.00
00720 CYANIDE, TOTAL	Fresh Acute	0.022	28	0	0.00							14	0	0.00	14	0	0.00
	Drinking Water	0.2	28	0	0.00							14	0	0.00	14	0	0.00
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	41	0	0.00	1	0	0.00	2	0	0.00	19	0	0.00	19	0	0.00
	Drinking Water	250.	41	0	0.00	1	0	0.00	2	0	0.00	19	0	0.00	19	0	0.00
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	250.	80	14	0.18	1	0	0.00	3	0	0.00	44	9	0.20	32	5	0.16
00951 FLUORIDE, TOTAL AS F	Drinking Water	4.	19	0	0.00	1	0	0.00	3	0	0.00	7	0	0.00	8	0	0.00
01002 ARSENIC, TOTAL	Fresh Acute	360.	71	0	0.00				11	0	0.00	27	0	0.00	33	0	0.00
	Drinking Water	50.	71	0	0.00				11	0	0.00	27	0	0.00	33	0	0.00
01005 BARIUM, DISSOLVED	Drinking Water	2000.	7	0	0.00				2	0	0.00	2	0	0.00	3	0	0.00
01007 BARIUM, TOTAL	Drinking Water	2000.	34	0	0.00				2	0	0.00	24	0	0.00	8	0	0.00
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	69	0	0.00				11	0	0.00	27	0	0.00	31	0	0.00
	Drinking Water	4.	69	0	0.00				11	0	0.00	27	0	0.00	31	0	0.00
01027 CADMIUM, TOTAL	Fresh Acute	3.9	71	8	0.11				11	2	0.18	27	3	0.11	33	3	0.09
	Drinking Water	5.	71	7	0.10				11	1	0.09	27	3	0.11	33	3	0.09
01034 CHROMIUM, TOTAL	Drinking Water	100.	69	0	0.00				11	0	0.00	27	0	0.00	31	0	0.00
01042 COPPER, TOTAL	Fresh Acute	18.	72	0	0.00				11	0	0.00	27	0	0.00	34	0	0.00
	Drinking Water	1300.	72	0	0.00				11	0	0.00	27	0	0.00	34	0	0.00
01049 LEAD, DISSOLVED	Fresh Acute	82.	1	0	0.00										1	0	0.00
	Drinking Water	15.	1	0	0.00										1	0	0.00

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

EPA Water Quality Criteria Analysis for Station: MNRR0048

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	11/20- 1/14 Obs	11/20- 1/14 Exceed	11/20- 1/14 Prop.	1/15- 3/14 Obs	1/15- 3/14 Exceed	1/15- 3/14 Prop.	3/15- 7/14 Obs	3/15- 7/14 Exceed	3/15- 7/14 Prop.	7/15-11/19 Obs	7/15-11/19 Exceed	7/15-11/19 Prop.
01051 LEAD, TOTAL	Fresh Acute	82.	68	0	0.00				11	0	0.00	27	0	0.00	30	0	0.00
	Drinking Water	15.	68	9	0.13				11	3	0.27	27	4	0.15	30	2	0.07
01067 NICKEL, TOTAL	Fresh Acute	1400.	61	0	0.00				3	0	0.00	25	0	0.00	33	0	0.00
	Drinking Water	100.	61	0	0.00				3	0	0.00	25	0	0.00	33	0	0.00
01077 SILVER, TOTAL	Fresh Acute	4.1	65&	0	0.00				11	0	0.00	24	0	0.00	30	0	0.00
	Drinking Water	100.	67	0	0.00				11	0	0.00	24	0	0.00	32	0	0.00
01092 ZINC, TOTAL	Fresh Acute	120.	71	0	0.00				11	0	0.00	27	0	0.00	33	0	0.00
	Drinking Water	5000.	71	0	0.00				11	0	0.00	27	0	0.00	33	0	0.00
01097 ANTIMONY, TOTAL	Fresh Acute	88.	24	1	0.04							16	0	0.00	8	1	0.13
	Drinking Water	6.	22&	3	0.14							15	0	0.00	7	3	0.43
01145 SELENIUM, DISSOLVED	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
01147 SELENIUM, TOTAL	Fresh Acute	20.	52	0	0.00				3	0	0.00	31	0	0.00	18	0	0.00
	Drinking Water	50.	52	0	0.00				3	0	0.00	31	0	0.00	18	0	0.00
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	1	0	0.00										1	0	0.00
34361 ENDOSULFAN, ALPHA	Fresh Acute	0.22	29	0	0.00							14	0	0.00	15	0	0.00
39033 ATRAZINE IN WHOLE WATER SAMPLE	Drinking Water	3.	22	0	0.00							11	0	0.00	11	0	0.00
39055 SIMAZINE IN WHOLE WATER	Drinking Water	4.	22	0	0.00							11	0	0.00	11	0	0.00
39100 BIS(2-ETHYLHEXYL) PHTHALATE, WHOLE WATER	Fresh Acute	2000.	8	0	0.00							4	0	0.00	4	0	0.00
	Drinking Water	6.	8	0	0.00							4	0	0.00	4	0	0.00
39330 ALDRIN IN WHOLE WATER SAMPLE	Fresh Acute	3.	34	0	0.00							16	0	0.00	18	0	0.00
39350 CHLORDANE(TECH MIX & METABS), WHOLE WATE	Fresh Acute	2.4	35	0	0.00							17	0	0.00	18	0	0.00
	Drinking Water	2.	35	0	0.00							17	0	0.00	18	0	0.00
39365 DDE IN WHOLE WATER SAMPLE	Fresh Acute	1050.	34	0	0.00							16	0	0.00	18	0	0.00
39370 DDT IN WHOLE WATER SAMPLE	Fresh Acute	1.1	34	0	0.00							16	0	0.00	18	0	0.00
39380 DIELDRIN IN WHOLE WATER SAMPLE	Fresh Acute	2.5	34	0	0.00							16	0	0.00	18	0	0.00
39388 ENDOSULFAN IN WHOLE WATER SAMPLE	Fresh Acute	0.22	5	0	0.00							2	0	0.00	3	0	0.00
39390 ENDRIN IN WHOLE WATER SAMPLE	Fresh Acute	0.18	34	0	0.00							16	0	0.00	18	0	0.00
	Drinking Water	2.	34	0	0.00							16	0	0.00	18	0	0.00
39400 TOXAPHENE IN WHOLE WATER SAMPLE	Fresh Acute	0.73	34	0	0.00							16	0	0.00	18	0	0.00
	Drinking Water	3.	34	0	0.00							16	0	0.00	18	0	0.00
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE	Fresh Acute	0.52	34	0	0.00							16	0	0.00	18	0	0.00
	Drinking Water	0.2	34	0	0.00							16	0	0.00	18	0	0.00
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE	Drinking Water	40.	34	0	0.00							16	0	0.00	18	0	0.00
39782 LINDANE IN WHOLE WATER SAMPLE	Fresh Acute	2.	34	0	0.00							16	0	0.00	18	0	0.00
	Drinking Water	0.2	34	0	0.00							16	0	0.00	18	0	0.00
71900 MERCURY, TOTAL	Fresh Acute	2.4	54	0	0.00				3	0	0.00	21	0	0.00	30	0	0.00
	Drinking Water	2.	54	0	0.00				3	0	0.00	21	0	0.00	30	0	0.00
81283 BENZENEHEXACHLORIDE, WHOLE WATER	Fresh Acute	100.	32	0	0.00							15	0	0.00	17	0	0.00

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

Annual Analysis for 1976 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	13	19.1	18.831	23.	9.8	10.034	3.168	12.68	19.05	19.2	23.
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	12	790.	768.333	790.	675.	1933.333	43.97	675.	775.	790.	790.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	12	9.1	9.125	11.4	7.8	0.668	0.817	8.04	8.85	9.175	10.74
00400p PH (STANDARD UNITS)	04/12/76-10/02/97	6	8.	8.067	8.7	7.6	0.207	0.455	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	6	8.	7.901	8.7	7.6	0.24	0.49	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	6	0.01	0.013	0.025	0.002	0.	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 box-and-whisker plot

Annual Analysis for 1977 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	42	19.	15.917	22.5	0.	56.353	7.507	0.5	11.	22.	22.5
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	7	5.	4.714	5.	3.	0.571	0.756	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	42	700.	692.143	790.	560.	1627.003	40.336	640.	677.5	702.5	750.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	42	8.6	9.114	12.8	6.	3.686	1.92	6.23	8.2	10.15	12.14
00400p PH (STANDARD UNITS)	04/12/76-10/02/97	41	8.2	8.229	8.5	8.	0.024	0.155	8.	8.1	8.4	8.4
00400p CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	41	8.2	8.203	8.5	8.	0.025	0.158	8.	8.1	8.4	8.4
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	41	0.006	0.006	0.01	0.003	0.	0.002	0.004	0.004	0.008	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 box-and-whisker plot

Annual Analysis for 1978 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	62	22.75	16.498	27.	0.	91.286	9.554	1.51	6.75	24.775	25.5
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	10	5.	9.	20.	0.	43.333	6.583	0.5	5.	15.	19.5
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	31	710.	714.677	940.	595.	3748.226	61.223	640.	680.	750.	758.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	38	11.6	10.384	13.2	5.2	5.166	2.273	6.67	9.275	12.25	12.6
00400p PH (STANDARD UNITS)	04/12/76-10/02/97	31	8.2	8.2	8.6	8.	0.023	0.151	8.	8.1	8.3	8.38
00400p CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	31	8.2	8.176	8.6	8.	0.023	0.153	8.	8.1	8.3	8.38
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	31	0.006	0.007	0.01	0.003	0.	0.002	0.004	0.005	0.008	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 box-and-whisker plot

Annual Analysis for 1979 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	63	22.	18.198	27.	0.	68.44	8.273	0.	16.5	24.	26.
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	10	12.5	16.	47.	0.	187.556	13.695	0.5	7.25	22.5	45.3
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	31	740.	727.419	770.	660.	1073.118	32.758	680.	720.	740.	770.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	37	10.8	10.576	14.1	0.6	5.208	2.282	8.44	9.45	11.75	13.
00400p PH (STANDARD UNITS)	04/12/76-10/02/97	37	8.	7.973	8.2	7.8	0.023	0.152	7.8	7.8	8.1	8.2
00400p CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	37	8.	7.948	8.2	7.8	0.024	0.154	7.8	7.8	8.1	8.2
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	37	0.01	0.011	0.016	0.006	0.	0.004	0.006	0.008	0.016	0.016

** - Less than 9 observations ## - Computed with 50% or 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 MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	77	22.5	20.803	28.	10.5	21.259	4.611	12.4	16.85	24.25	24.72
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	9	10.	11.889	30.	1.	83.111	9.117	1.	4.	17.5	30.
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	51	798.	780.765	819.	630.	1473.464	38.386	725.	774.	802.	817.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	50	7.7	8.162	11.	3.9	2.725	1.651	6.74	7.3	9.125	10.78
00400p PH (STANDARD UNITS)	04/12/76-10/02/97	51	8.2	8.19	8.6	7.7	0.045	0.212	8.	8.	8.3	8.5
00400p CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	51	8.2	8.141	8.6	7.7	0.047	0.218	8.	8.	8.3	8.5
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	51	0.006	0.007	0.02	0.003	0.	0.003	0.003	0.005	0.01	0.01

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

Annual Analysis for 1981 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	83	15.	17.193	26.2	3.8	36.185	6.015	8.94	11.6	23.	24.7
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	9	8.	10.556	27.	2.	83.278	9.126	2.	4.5	17.5	27.
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	75	806.	787.467	830.	577.	2358.523	48.565	713.6	787.	815.	821.4
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	75	8.1	8.42	11.6	1.6	4.66	2.159	6.12	7.6	10.5	10.98
00400p PH (STANDARD UNITS)	04/12/76-10/02/97	75	8.3	8.247	8.5	7.4	0.052	0.228	8.	8.2	8.4	8.5
00400p CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	75	8.3	8.162	8.5	7.4	0.059	0.244	8.	8.2	8.4	8.5
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	75	0.005	0.007	0.04	0.003	0.	0.007	0.003	0.004	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 box-and-whisker plot

Annual Analysis for 1982 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	26	21.05	20.45	24.	17.	9.249	3.041	17.	17.	24.	24.
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	2	12.5	12.5	15.	10.	12.5	3.536	**	**	**	**
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	26	8.	7.804	8.6	4.8	0.696	0.834	6.55	7.675	8.5	8.5

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

Annual Analysis for 1983 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	54	13.45	15.08	28.	0.1	76.754	8.761	0.5	12.	24.	26.75
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	6	6.5	6.833	10.	5.	4.567	2.137	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	46	750.	682.348	900.	338.	30559.21	174.812	338.	700.	780.	823.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	54	8.85	9.193	13.6	5.1	4.208	2.051	6.4	7.725	10.025	12.45
00400p PH (STANDARD UNITS)	04/12/76-10/02/97	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**

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

Annual Analysis for 1984 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	47	18.	15.383	29.	1.	67.328	8.205	2.	9.	23.	25.2
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	6	5.	6.333	15.	0.	28.667	5.354	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	47	436.	439.085	575.	350.	5001.949	70.724	365.	375.	460.	575.

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

Annual Analysis for 1984 - Station MNRR0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	04/12/76-10/02/97	47	8.9	9.062	13.2	3.5	6.504	2.55	5.86	6.2	11.2	12.9

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

Annual Analysis for 1985 - Station MNRR0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/12/76-10/02/97	51	15.	14.843	25.	0.	63.335	7.958	1.	12.	23.	24.
00035 WIND VELOCITY (MILES PER HOUR)		09/20/76-08/06/97	6	6.5	8.	15.	3.	21.6	4.648	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		04/12/76-10/02/97	51	396.	503.784	1020.	313.	50146.933	223.935	325.	340.	554.	931.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	04/12/76-10/02/97	43	9.5	9.942	13.9	7.6	3.383	1.839	7.74	8.4	11.2	13.12
00400p PH (STANDARD UNITS)		04/12/76-10/02/97	15	8.	7.5	8.3	5.3	1.229	1.108	5.36	7.9	8.	8.24
00400p CONVERTED PH (STANDARD UNITS)		04/12/76-10/02/97	15	8.	6.059	8.3	5.3	3.453	1.858	5.36	7.9	8.	8.24
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/12/76-10/02/97	15	0.01	0.873	5.012	0.005	3.243	1.801	0.006	0.01	0.013	4.393

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

Annual Analysis for 1986 - Station MNRR0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/12/76-10/02/97	44	20.	16.466	25.	1.	70.97	8.424	1.5	14.	23.	24.
00035 WIND VELOCITY (MILES PER HOUR)		09/20/76-08/06/97	5	15.	11.6	18.	0.	50.3	7.092	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		04/12/76-10/02/97	44	322.	331.727	410.	252.	3567.319	59.727	253.	271.25	390.	406.5
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	04/12/76-10/02/97	44	8.45	9.761	18.	4.	17.288	4.158	6.4	6.7	11.	17.65
00400p PH (STANDARD UNITS)		04/12/76-10/02/97	15	6.8	6.88	8.1	6.	0.329	0.573	6.12	6.5	7.5	7.74
00400p CONVERTED PH (STANDARD UNITS)		04/12/76-10/02/97	15	6.8	6.597	8.1	6.	0.415	0.644	6.12	6.5	7.5	7.74
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/12/76-10/02/97	15	0.158	0.253	1.	0.008	0.081	0.284	0.022	0.032	0.316	0.779

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

Annual Analysis for 1987 - Station MNRR0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/12/76-10/02/97	37	22.	21.135	26.	14.	17.62	4.198	15.	17.	25.	26.
00035 WIND VELOCITY (MILES PER HOUR)		09/20/76-08/06/97	4	9.	10.	15.	7.	12.667	3.559	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		04/12/76-10/02/97	37	408.	388.459	430.	288.	1902.811	43.621	317.8	355.	420.	430.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	04/12/76-10/02/97	37	8.3	8.051	9.5	6.4	0.72	0.849	6.8	7.4	8.6	9.1
00400p PH (STANDARD UNITS)		04/12/76-10/02/97	12	7.35	7.192	7.5	6.5	0.157	0.396	6.53	6.725	7.5	7.5
00400p CONVERTED PH (STANDARD UNITS)		04/12/76-10/02/97	12	7.347	7.001	7.5	6.5	0.197	0.444	6.53	6.725	7.5	7.5
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/12/76-10/02/97	12	0.045	0.1	0.316	0.032	0.011	0.107	0.032	0.032	0.208	0.297

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

Annual Analysis for 1988 - Station MNRR0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/12/76-10/02/97	37	17.5	15.638	26.9	0.	99.552	9.978	0.	11.15	24.5	26.82
00035 WIND VELOCITY (MILES PER HOUR)		09/20/76-08/06/97	5	10.	9.2	16.	2.	32.7	5.718	**	**	**	**
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		07/27/88-07/08/97	15	0.2	0.24	0.3	0.1	0.004	0.063	0.16	0.2	0.3	0.3
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		04/12/76-10/02/97	37	750.	755.324	825.	704.	830.947	28.826	716.6	735.	778.	800.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	04/12/76-10/02/97	37	8.9	9.281	15.2	6.1	5.663	2.38	7.22	7.7	9.25	13.48

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

Annual Analysis for 1988 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p PH (STANDARD UNITS)	04/12/76-10/02/97	15	8.14	8.207	8.7	7.75	0.069	0.262	7.9	8.09	8.2	8.7
00400p CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	15	8.14	8.143	8.7	7.75	0.073	0.27	7.9	8.09	8.2	8.7
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	15	0.007	0.007	0.018	0.002	0.	0.004	0.002	0.006	0.008	0.013

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

Annual Analysis for 1989 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	39	13.6	13.969	26.	0.	67.314	8.204	0.5	12.	19.	26.
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	5	10.	10.	15.	0.	37.5	6.124	**	**	**	**
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	8	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	31	788.	786.645	928.	705.	4756.637	68.968	705.	738.	799.	900.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	39	8.8	9.495	15.8	6.8	6.5	2.55	7.	7.9	10.	14.3
00400p PH (STANDARD UNITS)	04/12/76-10/02/97	20	8.075	8.316	10.	7.6	0.597	0.773	7.609	7.9	8.368	10.
00400p CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	20	8.069	8.003	10.	7.6	0.7	0.837	7.609	7.9	8.368	10.
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	20	0.009	0.01	0.025	0.	0.	0.008	0.	0.004	0.013	0.025

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

Annual Analysis for 1990 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	51	20.	16.716	25.	1.	56.963	7.547	2.	12.	22.	23.
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	6	9.	7.833	12.	0.	17.767	4.215	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	51	773.	741.412	865.	559.	6085.687	78.011	581.	700.	800.	808.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	42	11.	9.986	12.6	4.3	5.501	2.345	6.39	7.65	12.025	12.31
00400p PH (STANDARD UNITS)	04/12/76-10/02/97	22	8.4	8.568	9.2	8.1	0.117	0.341	8.23	8.3	9.	9.
00400p CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	22	8.4	8.46	9.2	8.1	0.129	0.359	8.23	8.3	9.	9.
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	22	0.004	0.003	0.008	0.001	0.	0.002	0.001	0.001	0.005	0.006

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

Annual Analysis for 1991 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	53	20.	16.128	25.	1.5	61.076	7.815	3.	10.	23.	25.
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	6	12.5	10.333	15.	2.	32.667	5.715	**	**	**	**
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	53	700.	682.962	750.	450.	3344.229	57.829	592.8	665.	721.	750.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	45	8.9	9.298	17.	2.6	10.61	3.257	5.84	7.3	11.	14.52
00400p PH (STANDARD UNITS)	04/12/76-10/02/97	20	8.4	8.45	8.7	8.3	0.027	0.164	8.3	8.3	8.6	8.7
00400p CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	20	8.4	8.423	8.7	8.3	0.028	0.166	8.3	8.3	8.6	8.7
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	20	0.004	0.004	0.005	0.002	0.	0.001	0.002	0.003	0.005	0.005

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

Annual Analysis for 1992 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	38	17.	13.197	21.	4.	47.372	6.883	5.	5.	19.125	21.
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	5	5.	6.4	12.	2.	19.3	4.393	**	**	**	**

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

Annual Analysis for 1992 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	38	724.5	719.395	798.	508.	3524.462	59.367	699.	700.	749.	798.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	38	9.15	9.718	14.2	6.5	4.853	2.203	6.89	7.975	10.675	13.
00400p PH (STANDARD UNITS)	04/12/76-10/02/97	37	8.4	8.311	8.6	7.9	0.048	0.22	7.9	8.15	8.4	8.6
00400p CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	37	8.4	8.252	8.6	7.9	0.052	0.228	7.9	8.15	8.4	8.6
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	37	0.004	0.006	0.013	0.003	0.	0.003	0.003	0.004	0.007	0.013

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

Annual Analysis for 1993 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	52	15.3	14.725	25.	-1.	62.609	7.913	1.8	11.625	21.875	24.85
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	6	11.	10.833	15.	5.	15.767	3.971	**	**	**	**
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	17	0.2	320.576	728.	0.2	123174.294	350.962	0.2	0.2	657.	722.4
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	44	650.	664.591	748.	594.	2645.922	51.439	604.	618.	712.	735.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	52	8.6	9.342	14.8	6.4	4.717	2.172	7.43	7.8	9.875	14.24
00400p PH (STANDARD UNITS)	04/12/76-10/02/97	51	8.5	8.623	9.5	7.92	0.177	0.42	7.982	8.4	9.	9.18
00400p CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	51	8.5	8.438	9.5	7.92	0.212	0.46	7.982	8.4	9.	9.18
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	51	0.003	0.004	0.012	0.	0.	0.003	0.001	0.001	0.004	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 box-and-whisker plot

Annual Analysis for 1994 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	44	16.8	14.999	24.2	0.01	73.054	8.547	0.345	9.	22.	24.1
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	6	5.	7.5	17.	2.	33.1	5.753	**	**	**	**
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	44	0.2	129.26	759.	-0.04	76941.087	277.383	0.08	0.1	0.3	705.
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	36	728.	732.722	818.	703.	795.063	28.197	705.	711.25	739.	770.5
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	43	8.1	8.326	12.1	6.5	2.687	1.639	6.8	7.1	8.9	11.64
00400p PH (STANDARD UNITS)	04/12/76-10/02/97	36	8.22	8.064	8.38	7.12	0.115	0.339	7.481	7.983	8.25	8.309
00400p CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	36	8.22	7.89	8.38	7.12	0.146	0.382	7.481	7.982	8.25	8.309
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	36	0.006	0.013	0.076	0.004	0.	0.016	0.005	0.006	0.011	0.033

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

Annual Analysis for 1995 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	48	17.15	15.529	25.5	0.5	56.545	7.52	1.05	9.725	20.075	25.3
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	5	4.	6.2	15.	0.	48.2	6.943	**	**	**	**
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	48	0.2	52.967	318.	0.1	14199.087	119.16	0.1	0.2	0.4	316.
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	48	771.5	756.604	826.	663.	3359.521	57.961	666.	709.25	809.	826.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	48	8.	8.665	14.9	0.3	9.487	3.08	5.	7.2	11.075	13.72
00400p PH (STANDARD UNITS)	04/12/76-10/02/97	48	7.82	7.83	8.14	7.34	0.04	0.201	7.547	7.67	7.988	8.101
00400p CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	48	7.82	7.783	8.14	7.34	0.042	0.206	7.547	7.67	7.988	8.101
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	48	0.015	0.016	0.046	0.007	0.	0.008	0.008	0.01	0.021	0.028

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

Annual Analysis for 1996 - Station MNRR0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/12/76-10/02/97	47	12.1	13.872	25.6	0.7	69.417	8.332	1.18	8.4	23.7	24.2
00035 WIND VELOCITY (MILES PER HOUR)		09/20/76-08/06/97	3	5.	5.667	10.	2.	16.333	4.041	**	**	**	**
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		07/27/88-07/08/97	47	0.3	0.304	0.4	0.3	0.	0.02	0.3	0.3	0.3	0.3
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		04/12/76-10/02/97	47	762.	785.149	853.	748.	1246.347	35.304	753.8	756.	809.	845.
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	04/12/76-10/02/97	47	10.5	10.702	17.	1.8	15.294	3.911	6.36	7.7	14.	17.
00400p PH (STANDARD UNITS)		04/12/76-10/02/97	47	8.5	8.473	9.38	7.74	0.191	0.437	8.034	8.15	8.74	9.22
00400p CONVERTED PH (STANDARD UNITS)		04/12/76-10/02/97	47	8.5	8.302	9.38	7.74	0.221	0.47	8.034	8.15	8.74	9.22
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/12/76-10/02/97	47	0.003	0.005	0.018	0.	0.	0.004	0.001	0.002	0.007	0.009

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

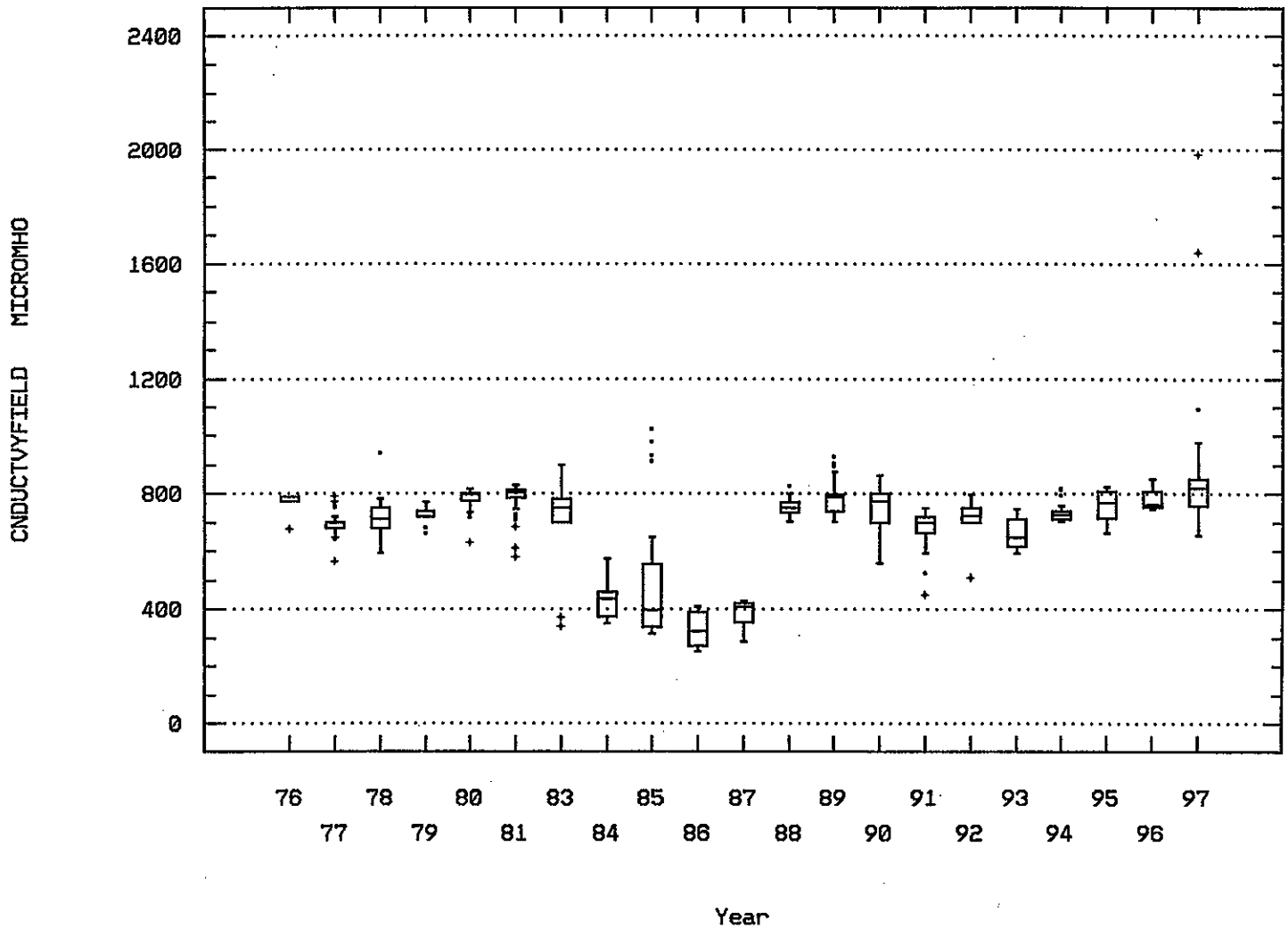
Annual Analysis for 1997 - Station MNRR0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/12/76-10/02/97	41	18.4	14.388	26.2	0.01	58.848	7.671	0.104	10.45	19.7	21.66
00035 WIND VELOCITY (MILES PER HOUR)		09/20/76-08/06/97	5	7.	8.8	15.	2.	35.2	5.933	**	**	**	**
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		07/27/88-07/08/97	32	0.3	0.325	0.4	0.3	0.002	0.044	0.3	0.3	0.375	0.4
00094p SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		04/12/76-10/02/97	41	820.	844.61	1978.	655.	57644.344	240.092	660.4	759.	851.	956.4
00299p OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	04/12/76-10/02/97	41	9.6	9.876	13.8	5.5	4.065	2.016	7.12	8.35	11.15	12.54
00400p PH (STANDARD UNITS)		04/12/76-10/02/97	41	8.22	8.269	9.6	7.55	0.335	0.579	7.584	7.805	8.55	9.232
00400p CONVERTED PH (STANDARD UNITS)		04/12/76-10/02/97	41	8.22	8.002	9.6	7.55	0.408	0.639	7.584	7.805	8.55	9.232
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/12/76-10/02/97	41	0.006	0.01	0.028	0.	0.	0.009	0.001	0.003	0.016	0.026

** - Less than 9 observations ## - Computed 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: MNRR0048 Parameter Code: 00094

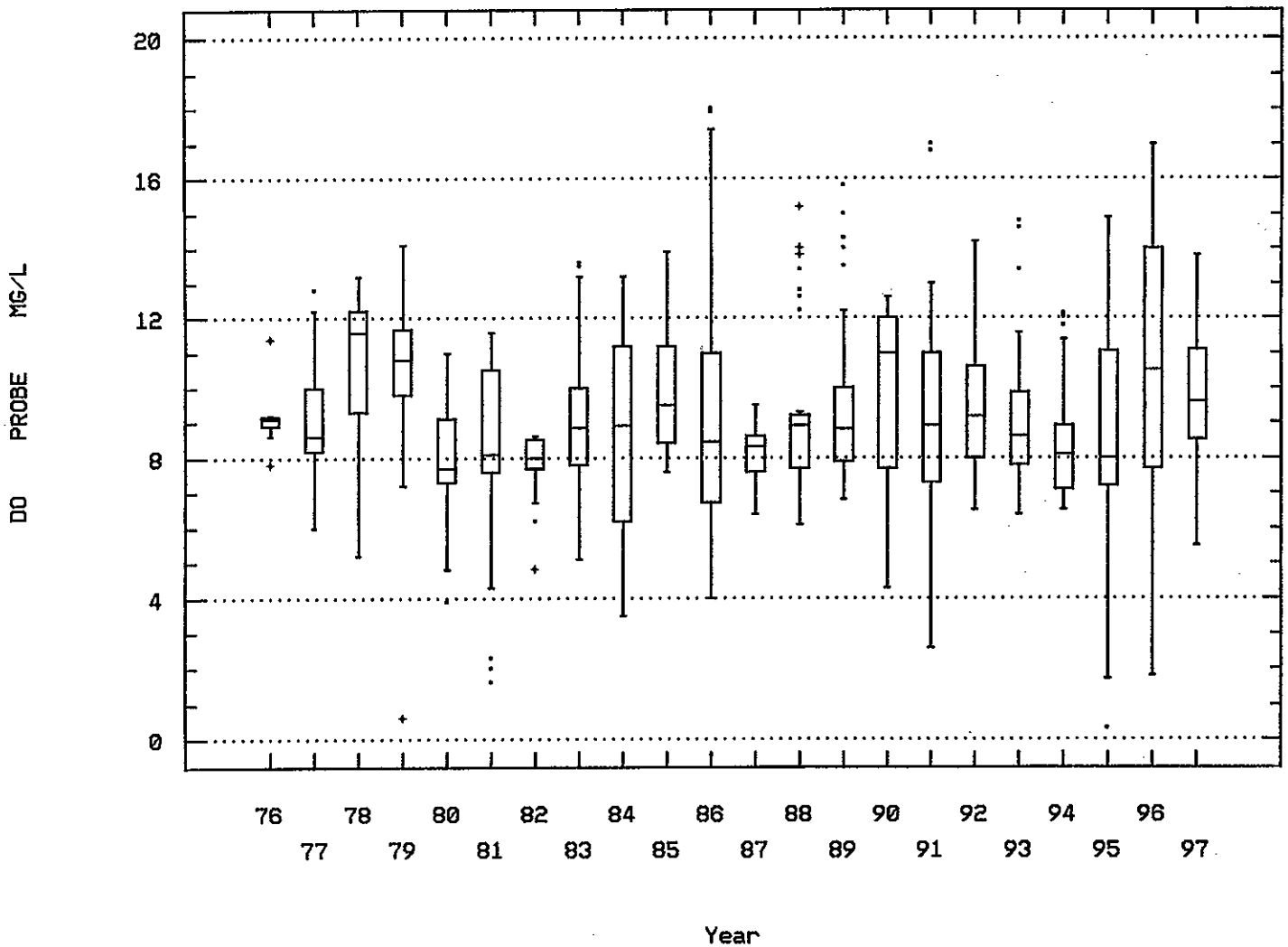
SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @



LEWIS AND CLARK LAKE NR DAM

Station: MNRR0048 Parameter Code: 00299

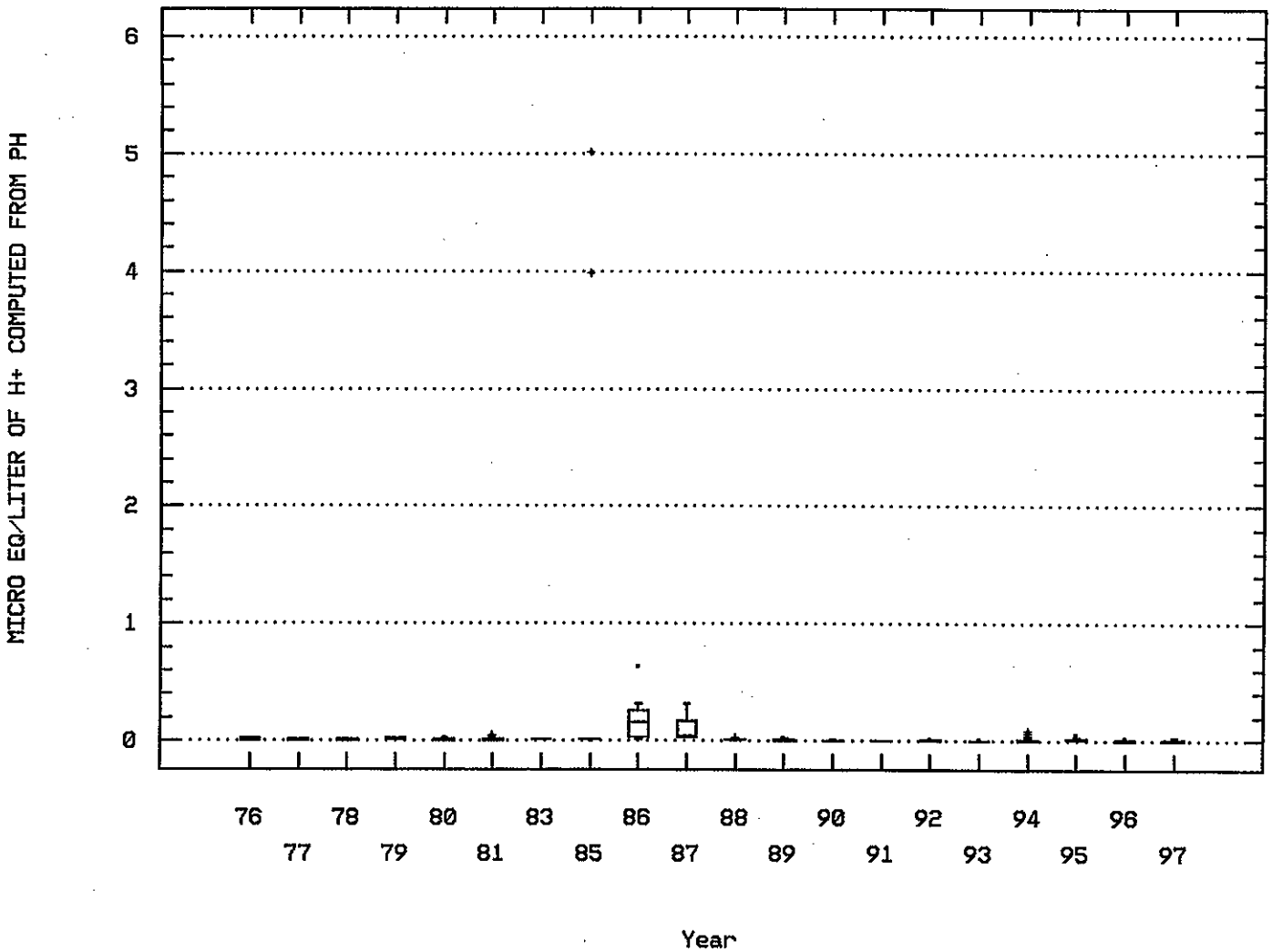
OXYGEN ,DISSOLVED, ANALYSIS BY PROBE



LEWIS AND CLARK LAKE NR DAM

Station: MNRR0048 Parameter Code: 00400

MICRO EQ/LITER OF H+ COMPUTED FROM PH



LEWIS AND CLARK LAKE NR DAM

Seasonal Analysis for Season #1: 11/20 to 1/14 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	4	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/12/76-10/02/97	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00032 CLOUD COVER (PERCENT)	04/12/76-08/06/97	1	100.	100.	100.	100.	0.	0.	**	**	**	**
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/12/76-10/02/97	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	4	672.5	676.25	700.	660.	322.917	17.97	**	**	**	**
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	4	12.45	12.525	12.8	12.4	0.036	0.189	**	**	**	**
00400 PH (STANDARD UNITS)	04/12/76-10/02/97	4	8.15	8.15	8.2	8.1	0.003	0.058	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	4	8.147	8.147	8.2	8.1	0.003	0.058	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	4	0.007	0.007	0.008	0.006	0.	0.001	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	04/12/76-10/02/97	1	154.	154.	154.	154.	0.	0.	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/12/76-10/02/97	1	498.	498.	498.	498.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/25/76-10/02/97	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	04/12/76-10/02/97	1	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/12/76-10/02/97	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/25/76-10/02/97	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	04/21/78-10/02/97	1	235.	235.	235.	235.	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	02/21/78-06/10/97	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	04/12/76-10/02/97	1	196.	196.	196.	196.	0.	0.	**	**	**	**
01022 BORON, TOTAL (UG/L AS B)	04/12/76-06/10/97	1	205.	205.	205.	205.	0.	0.	**	**	**	**

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

Seasonal Analysis for Season #2: 1/15 to 3/14 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	122	0.9	0.874	3.8	-1.	1.034	1.017	0.	0.008	2.	3.
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/12/76-10/02/97	15	9.	-0.867	9.	-27.	84.267	9.18	0.	4.	-6.	-16.2
00032 CLOUD COVER (PERCENT)	04/12/76-08/06/97	14	17.5	41.929	100.	0.	2014.379	44.882	0.	0.	100.	100.
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	14	5.	8.786	30.	0.	67.566	8.22	0.	3.5	15.	23.5
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/12/76-10/02/97	16	2.5	2.813	6.	1.	1.896	1.377	1.	2.	3.75	5.3
00078 TRANSPARENCY, SECCHI DISC (METERS)	08/25/82-10/02/97	8	1.9	1.813	2.6	0.5	0.585	0.765	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	04/12/76-07/08/97	3	10.	10.	15.	5.	25.	5.	**	**	**	**
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	29	0.3	0.293	0.4	0.2	0.005	0.07	0.2	0.2	0.3	0.4
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	107	680.	659.757	1020.	300.	27668.016	166.337	370.	592.	758.	815.6
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	107	13.	13.26	18.	6.4	4.07	2.017	11.28	12.	14.1	16.82
00400 PH (STANDARD UNITS)	04/12/76-10/02/97	70	8.2	8.299	9.6	6.	0.707	0.841	7.398	7.77	9.14	9.359
00400 CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	70	8.2	7.365	9.6	6.	1.592	1.262	7.398	7.77	9.14	9.359
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	70	0.006	0.043	1.	0.	0.024	0.156	0.	0.001	0.017	0.04
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	04/12/76-10/02/97	16	174.	175.625	199.	159.	138.517	11.769	159.7	166.	185.5	194.1
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/12/76-10/02/97	16	505.	524.313	977.	434.	15636.229	125.045	439.6	469.	525.5	672.5
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/01/77-10/02/97	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/25/76-10/02/97	16	0.015	0.04	0.33	0.	0.006	0.08	0.	0.003	0.038	0.141
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	06/30/82-10/02/97	13##	0.005	0.015	0.11	0.	0.001	0.03	0.	0.003	0.005	0.082
00619 AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	06/17/80-10/02/97	13##	0.005	0.004	0.005	0.	0.	0.002	0.	0.003	0.005	0.005
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	04/12/76-10/02/97	15	0.22	0.36	2.14	0.005	0.27	0.519	0.008	0.14	0.45	1.198
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/12/76-10/02/97	15	0.3	0.396	0.7	0.2	0.027	0.164	0.2	0.3	0.6	0.64
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/25/76-10/02/97	16	0.04	0.076	0.33	0.005	0.008	0.089	0.005	0.03	0.078	0.239
00900 HARDNESS, TOTAL (MG/L AS CACO3)	04/21/78-10/02/97	14	251.	261.357	368.	213.	1421.786	37.707	221.5	239.25	281.	329.
00929 SODIUM, TOTAL (MG/L AS NA)	02/21/78-08/06/97	2	67.	67.	70.	64.	18.	4.243	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	02/21/78-06/10/97	2	11.	11.	12.	10.	2.	1.414	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	04/12/76-10/02/97	3	199.	193.333	203.	178.	180.333	13.429	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	04/12/76-10/02/97	11	1.	1.818	4.	1.	1.164	1.079	1.	1.	3.	3.8
01007 BARIUM, TOTAL (UG/L AS BA)	04/12/76-06/10/97	2	36.5	36.5	43.	30.	84.5	9.192	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	04/12/76-10/02/97	11##	1.	0.727	1.	0.	0.218	0.467	0.	0.	1.	1.
01022 BORON, TOTAL (UG/L AS B)	04/12/76-06/10/97	3	177.	189.	240.	150.	2133.	46.184	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	04/12/76-10/02/97	11##	0.1	1.473	10.	0.1	9.34	3.056	0.1	0.1	1.	8.8

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

Seasonal Analysis for Season #2: 1/15 to 3/14 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01034 CHROMIUM, TOTAL (UG/L AS CR)	04/12/76-10/02/97	11##	2.5	1.818	2.5	0.	1.364	1.168	0.	0.	2.5	2.5
01042 COPPER, TOTAL (UG/L AS CU)	04/12/76-10/02/97	11##	2.5	3.455	7.	2.5	3.273	1.809	2.5	2.5	4.	7.
01045 IRON, TOTAL (UG/L AS FE)	04/12/76-10/02/97	12	86.	188.5	1130.	34.	95884.455	309.652	34.	38.75	147.25	899.
01051 LEAD, TOTAL (UG/L AS PB)	04/12/76-10/02/97	11	8.	13.636	70.	1.	399.655	19.991	1.	1.	20.	60.2
01055 MANGANESE, TOTAL (UG/L AS MN)	04/12/76-10/02/97	12	31.5	35.333	64.	14.	256.242	16.008	15.8	21.75	50.5	61.9
01067 NICKEL, TOTAL (UG/L AS NI)	04/12/76-10/02/97	3	7.	7.667	10.	6.	4.333	2.082	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	04/12/76-10/02/97	11##	0.1	0.164	1.	0.	0.079	0.28	0.	0.1	0.1	0.82
01092 ZINC, TOTAL (UG/L AS ZN)	04/12/76-10/02/97	11	4.	12.909	61.	1.	352.291	18.769	1.	2.	11.	56.
01147 SELENIUM, TOTAL (UG/L AS SE)	04/12/76-07/08/97	3	2.	2.	2.	2.	0.	0.	**	**	**	**
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	08/25/82-10/02/97	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/23/80-10/02/97	13	0.02	0.013	0.02	0.	0.	0.008	0.002	0.005	0.02	0.02
71900 MERCURY, TOTAL (UG/L AS HG)	04/12/76-10/02/97	3	0.3	0.2	0.3	0.	0.03	0.173	**	**	**	**

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

Seasonal Analysis for Season #3: 3/15 to 7/14 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	512	18.	17.074	28.	3.8	33.374	5.777	9.	12.	22.	24.17
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/12/76-10/02/97	66	20.	20.08	36.	0.	50.272	7.09	11.7	15.	25.25	29.3
00032 CLOUD COVER (PERCENT)	04/12/76-08/06/97	65	50.	48.508	100.	0.	1662.723	40.776	0.	1.5	90.	100.
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	61	8.	9.393	47.	0.	59.843	7.736	2.	5.	15.	15.8
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/12/76-10/02/97	59	7.	8.149	25.	0.	35.975	5.998	1.	4.	12.	16.
00078 TRANSPARENCY, SECCHI DISC (METERS)	08/25/82-10/02/97	41	1.	0.983	2.	0.4	0.104	0.323	0.62	0.7	1.1	1.5
00080 COLOR (PLATINUM-COBALT UNITS)	04/12/76-07/08/97	19	17.	17.	30.	5.	57.444	7.579	5.	10.	20.	30.
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	102	0.3	134.136	759.	0.04	66616.727	258.102	0.1	0.2	0.4	674.1
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	455	718.	660.846	928.	252.	28146.597	167.769	376.2	640.	775.	808.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	467	8.8	9.196	17.	3.5	4.522	2.127	6.8	7.7	10.8	11.6
00400 PH (STANDARD UNITS)	04/12/76-10/02/97	309	8.3	8.232	10.	6.5	0.208	0.456	7.75	8.	8.5	8.7
00400 CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	309	8.3	7.894	10.	6.5	0.323	0.568	7.75	8.	8.5	8.7
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	309	0.005	0.013	0.316	0.	0.001	0.034	0.002	0.003	0.01	0.018
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	04/12/76-10/02/97	61	161.	162.016	227.	124.	207.283	14.397	146.4	154.	169.5	176.8
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/12/76-10/02/97	33	512.	510.879	720.	386.	4050.172	63.641	452.	466.	533.	597.6
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/01/77-10/02/97	36	11.	13.083	32.	2.	70.193	8.378	4.4	7.25	17.75	27.8
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/25/76-10/02/97	61	0.02	0.056	0.72	0.	0.012	0.107	0.006	0.01	0.06	0.118
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	06/30/82-10/02/97	18##	0.005	0.004	0.01	0.	0.	0.003	0.	0.	0.005	0.01
00619 AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	06/17/80-10/02/97	51##	0.005	0.005	0.02	0.	0.	0.004	0.	0.005	0.005	0.01
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	04/12/76-10/02/97	62	0.1	0.26	2.02	0.	0.189	0.435	0.002	0.028	0.285	0.701
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/12/76-10/02/97	56	0.49	0.462	0.9	0.05	0.047	0.216	0.2	0.3	0.6	0.8
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/25/76-10/02/97	61	0.04	0.048	0.19	0.005	0.001	0.029	0.02	0.03	0.06	0.078
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	08/13/80-10/02/97	14##	0.004	0.003	0.005	0.	0.	0.002	0.	0.	0.005	0.005
00900 HARDNESS, TOTAL (MG/L AS CACO3)	04/21/78-10/02/97	55	259.	257.309	330.	165.	798.736	28.262	218.4	242.	273.	292.8
00916 CALCIUM, TOTAL (MG/L AS CA)	05/30/79-08/06/97	23	62.	62.739	82.	48.	63.656	7.978	50.8	58.	67.	74.2
00927 MAGNESIUM, TOTAL (MG/L AS MG)	05/30/79-08/06/97	23	24.	23.696	31.	20.	6.04	2.458	21.	22.	24.	27.
00929 SODIUM, TOTAL (MG/L AS NA)	02/21/78-08/06/97	21	70.	68.252	84.	49.	101.814	10.09	51.12	60.5	77.	81.4
00931 SODIUM ADSORPTION RATIO	07/09/80-08/06/97	19	2.	2.068	3.	1.4	0.138	0.371	1.7	2.	2.1	3.
00937 POTASSIUM, TOTAL MG/L AS K)	06/30/82-08/06/97	16	5.5	10.181	73.	4.	282.899	16.82	4.63	5.	7.75	28.2
00940 CHLORIDE,TOTAL IN WATER MG/L	02/21/78-06/10/97	19	11.	10.816	16.	0.5	10.034	3.168	9.	10.	12.	15.
00945 SULFATE, TOTAL (MG/L AS SO4)	04/12/76-10/02/97	44	210.5	216.545	316.	102.	1656.486	40.7	173.5	194.5	239.	265.
01002 ARSENIC, TOTAL (UG/L AS AS)	04/12/76-10/02/97	27	2.	1.778	4.	1.	0.641	0.801	1.	1.	2.	3.
01007 BARIUM, TOTAL (UG/L AS BA)	04/12/76-06/10/97	24	48.5	48.417	72.	28.	101.558	10.078	32.	44.	54.	62.
01012 BERYLLIUM, TOTAL (UG/L AS BE)	04/12/76-10/02/97	27##	1.	0.556	1.	0.	0.256	0.506	0.	0.	1.	1.
01022 BORON, TOTAL (UG/L AS B)	04/12/76-06/10/97	26	130.	130.423	213.	42.	1305.214	36.128	92.2	109.75	155.	180.8
01027 CADMIUM, TOTAL (UG/L AS CD)	04/12/76-10/02/97	27	0.4	1.578	15.	0.	9.923	3.15	0.08	0.1	1.	5.4
01034 CHROMIUM, TOTAL (UG/L AS CR)	04/12/76-10/02/97	27##	2.5	1.722	7.	0.	2.987	1.728	0.	0.	2.5	3.
01042 COPPER, TOTAL (UG/L AS CU)	04/12/76-10/02/97	27	4.	4.407	12.	0.	7.539	2.746	1.8	2.5	6.	8.2
01045 IRON, TOTAL (UG/L AS FE)	04/12/76-10/02/97	29	270.	332.966	1010.	68.	48332.606	219.847	120.	180.5	438.5	699.

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

Seasonal Analysis for Season #3: 3/15 to 7/14 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01051 LEAD, TOTAL (UG/L AS PB)	04/12/76-10/02/97	27	6.	7.389	27.	0.	57.429	7.578	0.	1.	10.	20.2
01055 MANGANESE, TOTAL (UG/L AS MN)	04/12/76-10/02/97	29	29.	42.448	130.	12.	992.756	31.508	15.	20.	61.5	95.
01067 NICKEL, TOTAL (UG/L AS NI)	04/12/76-10/02/97	25	5.	5.26	11.	0.	13.982	3.739	0.	2.5	9.	11.
01077 SILVER, TOTAL (UG/L AS AG)	04/12/76-10/02/97	24	0.1	0.317	2.	0.	0.255	0.505	0.	0.	0.3	1.
01092 ZINC, TOTAL (UG/L AS ZN)	04/12/76-10/02/97	27	11.	14.148	62.	0.	259.285	16.102	1.8	4.	13.	46.4
01097 ANTIMONY, TOTAL (UG/L AS SB)	06/30/82-06/10/97	16##	1.	1.406	10.	0.	5.441	2.333	0.	1.	1.	4.05
01147 SELENIUM, TOTAL (UG/L AS SE)	04/12/76-07/08/97	31	1.	1.548	3.	0.	0.589	0.768	1.	1.	2.	3.
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	08/25/82-10/02/97	15	5.	11.593	110.9	0.	774.195	27.824	0.	0.5	11.	50.96
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/07/87-10/02/97	10##	1.75	4.75	25.	0.5	57.403	7.576	0.5	0.5	7.	23.2
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/30/82-05/12/97	15##	5.	5.2	10.	0.	4.171	2.042	3.	5.	5.	8.8
34361 ENDOSULFAN, ALPHA TOTWUG/L	07/15/81-05/30/95	14##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39026 STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	07/15/81-08/07/91	10##	0.05	0.19	0.4	0.05	0.033	0.181	0.05	0.05	0.4	0.4
39033 ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/08/87-08/06/97	11##	0.05	0.068	0.1	0.05	0.001	0.025	0.05	0.05	0.1	0.1
39055 SIMAZINE IN WHOLE WATER (UG/L)	06/08/87-08/06/97	11##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39330 ALDRIN IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/15/81-08/06/97	17##	0.02	0.021	0.04	0.02	0.	0.005	0.02	0.02	0.02	0.024
39356 METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/08/87-08/06/97	11##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39370 DDT IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39390 ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39400 TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16##	0.05	0.138	0.4	0.05	0.025	0.157	0.05	0.05	0.313	0.4
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	08/13/80-08/06/97	17##	0.05	0.182	0.5	0.05	0.045	0.211	0.05	0.05	0.5	0.5
39570 DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/08/87-08/06/97	11##	0.05	0.047	0.05	0.015	0.	0.011	0.022	0.05	0.05	0.05
39782 LINDANE IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	16##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/23/80-10/02/97	52	0.01	0.012	0.04	0.	0.	0.011	0.	0.005	0.02	0.03
71900 MERCURY, TOTAL (UG/L AS HG)	04/12/76-10/02/97	21	0.4	0.39	0.9	0.	0.077	0.277	0.	0.15	0.6	0.8
77729 RAMROD WHOLE WATER,UG/L	06/08/87-08/06/97	10##	0.05	0.045	0.05	0.	0.	0.016	0.005	0.05	0.05	0.05
77825 ALACHLOR WHOLE WATER,UG/L	06/08/87-08/06/97	11##	0.05	0.055	0.1	0.05	0.	0.015	0.05	0.05	0.05	0.09
81283 BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	07/15/81-08/06/97	15##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
81408 METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/08/87-08/06/97	10##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05

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

Seasonal Analysis for Season #4: 7/15 to 11/19 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/12/76-10/02/97	411	22.	20.267	29.	4.	25.755	5.075	13.	15.8	24.	25.76
00020 TEMPERATURE, AIR (DEGREES CENTIGRADE)	04/12/76-10/02/97	53	22.	21.23	34.5	2.	51.914	7.205	9.4	17.75	25.75	30.
00032 CLOUD COVER (PERCENT)	04/12/76-08/06/97	52	20.	38.654	100.	0.	1606.976	40.087	0.	0.	90.	98.5
00035 WIND VELOCITY (MILES PER HOUR)	09/20/76-08/06/97	51	10.	9.373	27.	0.	33.838	5.817	2.2	5.	15.	15.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/12/76-10/02/97	47	8.	8.721	22.	0.	29.802	5.459	2.6	5.	11.	18.2
00078 TRANSPARENCY, SECCHI DISC (METERS)	08/25/82-10/02/97	28	0.9	1.085	7.1	0.5	1.465	1.21	0.5	0.725	1.	1.1
00080 COLOR (PLATINUM-COBALT UNITS)	04/12/76-07/08/97	13	10.	13.077	35.	5.	98.077	9.903	5.	5.	17.5	33.
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	07/27/88-07/08/97	80	0.3	0.25	0.3	0.1	0.005	0.068	0.11	0.2	0.3	0.3
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/12/76-10/02/97	327	749.	708.636	1978.	335.	28494.662	168.804	430.	700.	800.	818.
00299 OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	04/12/76-10/02/97	359	8.2	8.142	13.2	0.3	3.575	1.891	6.2	7.2	9.1	10.4
00400 PH (STANDARD UNITS)	04/12/76-10/02/97	238	8.15	8.075	9.	5.3	0.179	0.423	7.689	8.	8.3	8.4
00400 CONVERTED PH (STANDARD UNITS)	04/12/76-10/02/97	238	8.15	7.181	9.	5.3	0.981	0.99	7.689	8.	8.3	8.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/12/76-10/02/97	238	0.007	0.066	5.012	0.001	0.236	0.486	0.004	0.005	0.01	0.02
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	04/12/76-10/02/97	48	163.5	166.771	330.	123.	702.734	26.509	149.8	159.	172.	178.
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/12/76-10/02/97	34	535.	523.647	626.	356.	3466.175	58.874	447.	482.25	566.5	588.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/01/77-10/02/97	27	10.	11.667	44.	5.	58.846	7.671	5.	7.	14.	19.2
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/25/76-10/02/97	55	0.02	0.04	0.14	0.	0.001	0.036	0.01	0.01	0.07	0.098
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	06/30/82-10/02/97	17##	0.005	0.005	0.02	0.	0.	0.005	0.	0.	0.005	0.012

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

Seasonal Analysis for Season #4: 7/15 to 11/19 - Station MNRR0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00619 AMMONIA, UNIONIZED (CALC FR TEMP-PH-NH4) (MG/L)	06/17/80-10/02/97	37##	0.005	0.004	0.02	0.	0.	0.004	0.	0.	0.005	0.01
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	04/12/76-10/02/97	55	0.05	0.135	1.78	0.	0.068	0.261	0.	0.02	0.17	0.352
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	04/12/76-10/02/97	47	0.4	0.445	0.9	0.	0.041	0.203	0.186	0.3	0.6	0.7
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/25/76-10/02/97	55	0.03	0.055	0.3	0.	0.004	0.062	0.01	0.03	0.05	0.136
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	08/13/80-10/02/97	14##	0.005	0.003	0.005	0.	0.	0.002	0.	0.	0.005	0.005
00900 HARDNESS, TOTAL (MG/L AS CACO3)	04/21/78-10/02/97	44	256.	254.409	290.	226.	296.852	17.229	229.	238.25	270.25	277.
00916 CALCIUM, TOTAL (MG/L AS CA)	05/30/79-08/06/97	26	62.5	63.154	75.	54.	30.375	5.511	56.4	60.	66.25	74.
00927 MAGNESIUM, TOTAL (MG/L AS MG)	05/30/79-08/06/97	26	23.5	23.654	30.	17.	7.915	2.813	20.4	22.	25.25	27.3
00929 SODIUM, TOTAL (MG/L AS NA)	02/21/78-08/06/97	21	76.	74.719	89.	44.	115.268	10.736	65.2	67.3	85.	88.4
00931 SODIUM ADSORPTION RATIO	07/09/80-08/06/97	17	2.	2.047	2.4	1.	0.099	0.314	1.8	2.	2.25	2.4
00937 POTASSIUM, TOTAL MG/L AS K)	06/30/82-08/06/97	15	6.	6.4	11.	4.	3.543	1.882	4.6	5.	7.	10.4
00940 CHLORIDE,TOTAL IN WATER MG/L	02/21/78-06/10/97	19	11.	10.895	19.	3.	8.099	2.846	9.	10.	12.	13.
00945 SULFATE, TOTAL (MG/L AS SO4)	04/12/76-10/02/97	32	218.	219.938	360.	38.	2246.899	47.401	190.6	201.25	240.5	259.1
01002 ARSENIC, TOTAL (UG/L AS AS)	04/12/76-10/02/97	33	2.	2.182	4.	1.	0.591	0.769	1.	2.	3.	3.
01007 BARIUM, TOTAL (UG/L AS BA)	04/12/76-06/10/97	8	50.5	55.25	100.	29.	523.643	22.883	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	04/12/76-10/02/97	31##	1.	0.548	1.	0.	0.256	0.506	0.	0.	1.	1.
01022 BORON, TOTAL (UG/L AS B)	04/12/76-06/10/97	19	170.	180.211	298.	105.	2904.731	53.896	114.	130.	220.	250.
01027 CADMIUM, TOTAL (UG/L AS CD)	04/12/76-10/02/97	33	0.3	1.13	7.	0.	3.087	1.757	0.	0.1	1.5	4.2
01034 CHROMIUM, TOTAL (UG/L AS CR)	04/12/76-10/02/97	31	2.5	2.774	10.	0.	9.581	3.095	0.	0.	4.	9.4
01042 COPPER, TOTAL (UG/L AS CU)	04/12/76-10/02/97	34	2.5	3.118	9.	0.	4.955	2.226	0.	2.5	3.25	7.
01045 IRON, TOTAL (UG/L AS FE)	04/12/76-10/02/97	39	315.	384.462	1086.	78.	52279.571	228.647	103.	266.	428.	800.
01051 LEAD, TOTAL (UG/L AS PB)	04/12/76-10/02/97	30	7.	6.483	20.	0.	35.215	5.934	0.	1.	10.	13.8
01055 MANGANESE, TOTAL (UG/L AS MN)	04/12/76-10/02/97	39	55.	73.359	285.	5.	3853.236	62.074	28.	37.	92.	166.
01067 NICKEL, TOTAL (UG/L AS NI)	04/12/76-10/02/97	33	5.	6.227	18.	0.	20.595	4.538	2.5	2.5	9.	15.
01077 SILVER, TOTAL (UG/L AS AG)	04/12/76-10/02/97	32	0.1	0.559	5.	0.	1.497	1.223	0.	0.	0.875	1.
01092 ZINC, TOTAL (UG/L AS ZN)	04/12/76-10/02/97	33	8.	12.273	44.	1.	136.517	11.684	1.4	4.	18.	34.
01097 ANTIMONY, TOTAL (UG/L AS SB)	06/30/82-06/10/97	8##	6.25	25.313	100.	1.	1321.21	36.348	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	04/12/76-07/08/97	18	1.	1.361	2.5	0.	0.524	0.724	0.	1.	2.	2.05
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	08/25/82-10/02/97	27	1.	8.033	123.	0.	553.353	23.523	0.	0.5	9.	13.48
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/07/87-10/02/97	20	5.	14.4	93.	0.5	591.753	24.326	0.5	0.5	11.75	64.3
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/30/82-05/12/97	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
34361 ENDOSULFAN, ALPHA TOTWUG/L	07/15/81-05/30/95	15##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39026 STROBANE,2,3,6-TRICHLOROPHEYLACETIC ACID UG/L	07/15/81-08/07/91	12##	0.225	0.225	0.4	0.05	0.033	0.183	0.05	0.05	0.4	0.4
39033 ATRAZINE IN WHOLE WATER SAMPLE UG/L	06/08/87-08/06/97	11##	0.05	0.114	0.4	0.05	0.015	0.121	0.05	0.05	0.1	0.38
39055 SIMAZINE IN WHOLE WATER (UG/L)	06/08/87-08/06/97	11##	0.05	0.082	0.4	0.05	0.011	0.106	0.05	0.05	0.05	0.33
39330 ALORIN IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	18##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39350 CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	07/15/81-08/06/97	18##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39356 METOLACHLOR(DUAL) IN WHOLE WATER UG/L	06/08/87-08/06/97	11##	0.05	0.082	0.4	0.05	0.011	0.106	0.05	0.05	0.05	0.33
39365 DDE IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	18##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39370 DDT IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	18##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39380 DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	18##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
39390 ENDRIN IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	18##	0.015	0.014	0.015	0.013	0.	0.001	0.013	0.013	0.015	0.015
39400 TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	18##	0.05	0.167	0.4	0.05	0.029	0.17	0.05	0.05	0.4	0.4
39420 HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	18##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
39480 METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	18##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
39516 PCBS IN WHOLE WATER SAMPLE (UG/L)	08/13/80-08/06/97	20##	0.05	0.23	0.5	0.05	0.051	0.226	0.05	0.05	0.5	0.5
39570 DIAZINON IN WHOLE WATER SAMPLE (UG/L)	06/08/87-08/06/97	11##	0.05	0.083	0.4	0.015	0.011	0.107	0.022	0.05	0.05	0.34
39782 LINDANE IN WHOLE WATER SAMPLE (UG/L)	07/15/81-08/06/97	18##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	04/23/80-10/02/97	39	0.01	0.015	0.09	0.	0.	0.018	0.	0.	0.02	0.04
71900 MERCURY, TOTAL (UG/L AS HG)	04/12/76-10/02/97	30	0.2	0.268	0.9	0.	0.047	0.217	0.1	0.1	0.4	0.5
77729 RAMROD WHOLE WATER,UG/L	06/08/87-08/06/97	11##	0.05	0.045	0.05	0.	0.	0.015	0.01	0.05	0.05	0.05
77825 ALACHLOR WHOLE WATER,UG/L	06/08/87-08/06/97	11##	0.05	0.082	0.4	0.05	0.011	0.106	0.05	0.05	0.05	0.33
81283 BENZENEHEXACHLORIDE (6H6CL6WHOLE WATER SAMPLE UG/L	07/15/81-08/06/97	17##	0.01	0.01	0.01	0.01	0.	0.	0.01	0.01	0.01	0.01
81408 METRIBUZIN (SENCOR), WATER, WHOLE UG/L	06/08/87-08/06/97	11##	0.05	0.05	0.05	0.05	0.	0.	0.05	0.05	0.05	0.05

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

Station Inventory for Station: MNRR0049

NPS Station ID: MNRR0049
Location: WIEGAND CREEK
Station Type: /TYPA/AMBNT/STREAM/BIO
RMI-Indexes:
RMI-Miles:
HUC: 10170101
Major Basin:
Minor Basin:
RF1 Index: 10170101
RF3 Index: 10170203001300.00
Description:

LAT/LON: 42.824449/ -97.583059

Depth of Water: 0
Elevation: 0

RF1 Mile Point: 0.000
RF3 Mile Point: 6.56

Agency: 21NEB001
FIPS State/County: 31107 NEBRASKA/KNOX
STORET Station ID(s): MT2114
Within Park Boundary: No

Aquifer:
Water Body Id: NEMT2-12100
ECO Region: 46G
Distance from RF1: 0.00
Distance from RF3: 0.09

Date Created: 06/22/96

On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: MNRR0049

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 ********

As the nation's principal conservation agency, the Department of the Interior has the responsibility for most of our nationally owned public lands and natural and cultural resources. This includes fostering wise use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people. The Department also promotes the goals of the Take Pride in America campaign by encouraging stewardship and citizen responsibility for the public lands and promoting citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.