Baseline Water Quality Data

Inventory and Analysis

Great Smoky Mountains National Park

Volume I of II



Water Resources Division and Servicewide Inventory and Monitoring Program

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National Park Service - Department of the Interior
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BASELINE WATER QUALITY DATA

INVENTORY AND ANALYSIS

GREAT SMOKY MOUNTAINS NATIONAL PARK

VOLUME I OF II

National Park Service
Water Resources Division
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EXECUTIVE SUMMARY

This document presents the results of surface-water-quality data retrievals for Great Smoky Mountains National Park (GRSM) from five of the United States Environmental Protection Agency's (EPA) national databases: (1) Storage and Retrieval (STORET) database management system; (2) River Reach File (RF3); (3) Industrial Facilities Discharge (IFD); (4) Drinking Water Supplies (DRINKS); and (5) Flow Gages (GAGES). This document is one product resulting from a cooperative contractual endeavor between the National Park Service's Servicewide Inventory and Monitoring Program, the National Park Service's Water Resources Division (WRD), and Horizon Systems Corporation to retrieve, format, and analyze 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 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 GRSM study area from the IFD, DRINKS, and GAGES databases located 24 industrial/municipal dischargers, 12 drinking water intakes, and 22 active or inactive U. S. Geological Survey, National Weather Service, or Tennessee Valley Authority gaging stations. The results of the STORET retrieval for the study area yielded 112,749 observations for 847 separate parameters collected by five federal and state government agencies at 265 monitoring stations. Of the 265 monitoring stations, 13 were established but contained no data; nine did not contain data appropriate for statistical analysis; and ten were used for monitoring fish tissues and/or bottom deposits. One-hundred-forty-five stations were located within the park boundary. Most of the sampling stations represent either one-time or intensive single-year sampling efforts by the collecting agencies. Forty-four stations within the study area yielded longer-term records consisting of multiple observations for several important water quality parameters. Fourteen stations yielding long-term records within the park are: (1) Fontana Reservoir (GRSM 0008); (2) Fontana Lake Below Tuckasegee R (GRSM 0013); (3) Fontana Lake Above Stecoah Crk (GRSM 0016); (4) Fontana Lake @ Tuckasegee R @ Bryson City (GRSM 0024); (5) Fontana Lake Below Hazel Crk (GRSM 0027); (6) Fontana Reservoir (GRSM 0061); (7) Fontana Lake at Fontana Dam Inact-790716 (GRSM 0063); (8) Fontana Reservoir (GRSM 0069); (9) Noland Creek Near Bryson City, N.C. (GRSM 0074); (10) Little R. AB Townsend (GRSM 0182); (11) Cataloochee Creek Near Cataloochee NC (GRSM 0184); (12) Cataloochee Creek Near Cataloochee NC (GRSM 0185); (13) 131TVAC (GRSM 0202); and (14) Above Sewage Disposal Plant (GRSM 0222)[†].

Thirty stations yielding long-term records within the study area, but outside of the park boundary are: (1) Fontana Lake NR Almonds NC Inact-790713 (GRSM 0007); (2) Tuckasegee River at Bryson City (GRSM 0009); (3) Tuckasegee River at Bryson City, NC (GRSM 0010); (4) Tuckasegee R Near Bryson City NC Inact-770713 (GRSM 0011); (5) Fontana Lake 2mi US Hazel Ck Inact-790731 (GRSM 0022); (6) Lake Cheoah at NC Hwy 28 NR Fontana Village NC (GRSM 0032); (7) Cheoh Dam Penstock (GRSM 0036); (8) Little Tennessee River @ Fontana Inactive 810309 (GRSM 0037); (9) Lake Cheoah at Power Lines NR Power House (GRSM 0038); (10) Lake Cheoah NR Dam NR Tapoco (GRSM 0042); (11) Calderwood Lake NR Dam (GRSM 0045); (12) Santeetlah Powerhouse Tailrace (GRSM 0048); (13) Little Tennessee River at Tapoco NC (GRSM 0055); (14) Little Tennessee River at Tapoco NC (GRSM 0056); (15) Fontana Dam Scroll Case (GRSM 0057); (16) Little Tennessee R Below Tapoco Inact-741127 (GRSM 0059); (17) Calderwood Lake NR Slickrock Creek (GRSM 0066); (18) Oconaluftee River NR Cherokee NC Inact-750129 (GRSM 0070); (19) Oconaluftee River at Cherokee NC Inact-750129 (GRSM 0073); (20)

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

Calderwood Powerhouse Penstock (GRSM 0078); (21) Bridge 100 Feet Above Mouth of Indian Creek (GRSM 0087); (22) Waterville Lake @ Mouth of Wilkins Creek (GRSM 0197); (23) Waterville Lake in Cataloochee Creek Arm (GRSM 0203); (24) Waterville Lake at Dam NR Hepco NC (GRSM 0210); (25) Ownby Street Bridge 0.2 Mile Above Le Conte Cr. (GRSM 0215); (26) Pigeon River at Waterville NC (GRSM 0249); (27) BR 1.3 MI NW of Pittman Center (GRSM 0250); (28) Pigeon River at Waterville NC (GRSM 0256); (29) Below Tobes Creek-1.1 Miles NW of Waterville (GRSM 0258); (30) Pigeon R 20.4 @ N.C. Light/Pwr Disch Quad 173SW (GRSM 0264)[††].

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 park. 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 GRSM water quality criteria screen found 16 parameters that exceeded screening criteria at least once within the study area. Dissolved oxygen, pH, cadmium, copper, lead, silver, zinc, and mercury exceeded their respective EPA acute or chronic criteria for the protection of freshwater aquatic life. Nitrite plus nitrate, arsenic, cadmium, chromium, copper, lead, nickel, silver, and mercury exceeded their respective EPA drinking water criteria. Indicator bacteria (total and fecal coliform) concentrations and turbidity exceeded the WRD screening limits for primary-body contact recreation and aquatic life, respectively. Alkalinity was below the threshold used by the NPS Air Quality Division for determining potential sensitivity to acid deposition (buffering capacity).

Dissolved oxygen concentrations were measured 8,503 times at 150 monitoring stations from 1961 through 1995. Of the 8,485 observations used in the criteria analysis (see Media Type Screen in the Methodology for explanation), 402 observations at 34 monitoring stations were below the 4 milligrams per liter (mg/L) EPA criterion for the protection of freshwater aquatic life. The criterion was exceeded primarily by deep samples collected from lakes and reservoirs.

The pH was measured 6,615 times at 207 monitoring stations throughout the study area from 1956 through 1995. Of the 6,595 observations used in the criteria analysis (see Media Type Screen and Composite Type Screen in the Methodology for explanation), 3,370 observations at 136 monitoring stations were outside the pH range of 6.5 to 9.0 standard units (EPA chronic criteria for freshwater aquatic life). Twelve observations were greater than or equal to pH 9.0, and 3,358 observations were less than or equal to pH 6.5.

Turbidity was measured 1,474 times at 97 monitoring stations from 1964 through 1995. The WRD screening criterion of 50 JTU/FTU/NTU was exceeded 18 times at eight monitoring stations (GRSM 0009, GRSM 0021, GRSM 0055, GRSM 0185, GRSM 0244, GRSM 0256, GRSM 0258, GRSM 0262).

Total alkalinity was determined by low-level (less than 10 mg/L as $CaCO_3$) gran analysis 50 times at 22 monitoring stations in 1984 and 1985. Forty-eight observations in lakes (GRSM 0050, GRSM 0052, GRSM 0080, GRSM 0177), creeks (GRSM 0071, GRSM 0081, GRSM 0086, GRSM 0095, GRSM 0099, GRSM 0100, GRSM 0106, GRSM 0237, GRSM 0255, GRSM 0259), rivers (GRSM 0152, GRSM 0190), and streams (GRSM 0194, GRSM 0195, GRSM 0206, GRSM 0213) were below 200 μg/L indicating sensitivity to acid deposition.

Total coliform concentrations were determined 387 times at 37 monitoring stations from 1965 through 1984. Ninety-one observations at 19 stations in rivers or streams throughout the study area exceeded the 1,000 CFU/MPN per 100 ml criterion. Fecal coliform concentrations were determined 1,647 times at 53 stations from 1965 through 1995. Two-hundred-eighty-five observations at 29 stations throughout the study area exceeded the 200 MPN/CFU per 100 ml criterion.

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

Nitrite plus nitrate concentrations (including dissolved and total as N) were measured 1,728 times at 107 monitoring stations from 1973 through 1994 (see Media Type Screen in the Methodology for explanation). One total concentration of 16 mg/L in the Little Tennessee River at Tapoco, NC (GRSM 0055) on June 21, 1979, and one total concentration of 50 mg/L in the Pigeon River (GRSM 0264) on February 16, 1983 exceeded the drinking water criterion of 10 mg/L.

Arsenic concentrations (including dissolved, suspended, and total) were measured 636 times at 31 monitoring stations from 1970 through 1994. Forty-one observations (39 dissolved and 2 total) exceeded the drinking water criterion of 50 μg/L in Fontana Lake (GRSM 0007, GRSM 0013, GRSM 0016, GRSM 0022, GRSM 0024, GRSM 0027, GRSM 0063), Little Tennessee River (GRSM 0037, GRSM 0055, GRSM 0059), Oconaluftee River (GRSM 0070, GRSM 0073), Pigeon River (GRSM 0256), and Tuckasegee River (GRSM 0007).

Cadmium concentrations (including dissolved, suspended, and total) were measured 674 times at 44 monitoring stations from 1968 through 1994. Of the 378 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in Interpretive Guide To Water Quality Results for explanation), nine concentrations exceeded the acute freshwater criterion of 3.9 μg/L and seven exceeded the drinking water criterion of 5.0 μg/L. The criteria were exceeded at seven stream monitoring stations (GRSM 0009, GRSM 0054, GRSM 0055, GRSM 0182, GRSM 0184, GRSM 0202, GRSM 0264).

Chromium concentrations (including dissolved, suspended, hexavalent, and total) were measured 687 times at 47 monitoring stations from 1967 through 1994. One total concentration of 180 μg/L in the Pigeon River (GRSM 0264) on May 21, 1991, and one total concentration of 130 μg/L in the Tuckasegee River at Bryson City (GRSM 0009) on May 7, 1987 exceeded the drinking water criterion of 100 μg/L.

Copper concentrations (including dissolved, suspended, and total) were measured 839 times at 72 monitoring stations from 1967 through 1994. Of the 660 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in Interpretive Guide To Water Quality Results for explanation), 100 concentrations exceeded the acute freshwater criterion of 18 μg/L and five exceeded the proposed drinking water criterion of 1,300 μg/L. The criteria were exceeded at 31 monitoring stations throughout the study area.

Lead concentrations (including dissolved, suspended, and total) were measured 732 times at 45 monitoring stations from 1967 through 1994. Of the 731 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in Interpretive Guide To Water Quality Results for explanation), 97 concentrations exceeded the drinking water criterion of 5 μg/L and 19 exceeded the acute freshwater criterion of 82 μg/L. The criteria were exceeded at 23 monitoring stations throughout the study area.

Mercury concentrations (including dissolved, suspended, and total) were measured 691 times at 66 monitoring stations from 1970 through 1994. Three total concentrations in the Little Tennessee River at Tapoco NC (GRSM 0055), and three total concentrations in the Tuckasegee River at Bryson City (GRSM 0009) exceeded the acute freshwater criterion of 2.4 μg/L and/or the drinking water criterion of 2.0 μg/L.

Nickel concentrations (including dissolved and total) were measured 461 times at 57 monitoring stations from 1967 through 1994. Thirteen observations exceeded the proposed drinking water criterion of 100 μg/L in the Little Tennessee River (GRSM 0037, GRSM 0055), Oconaluftee River (GRSM 0070, GRSM 0073), Pigeon River (GRSM 0256, GRSM 0264), Cataloochee Creek (GRSM 0185), and Tuckasegee River (GRSM 0009).

Silver concentrations (including dissolved, suspended, and total) were measured 156 times at 25 monitoring stations from 1968 through 1994. Of the 112 observations used in the criteria analysis (see EPA Water Quality Criteria Analysis for Station in Interpretive Guide To Water Quality Results for explanation), 19 dissolved concentrations exceeded the acute freshwater criterion of 4.1 μg/L and 11 exceeded the drinking water criterion of 50 μg/L. The criteria were exceeded in Fontana Lake Below Tuckasegee River (GRSM 0013), Little Tennessee River (GRSM 0055, GRSM 0059), Oconaluftee River (GRSM 0070, GRSM 0073), and Tuckasegee River (GRSM 0011).

Zinc concentrations (including dissolved, suspended, and total) were measured 861 times at 74 monitoring stations from 1967 through 1994. Thirty-eight total concentrations exceeded the acute freshwater criterion of 120 μg/L at 17 monitoring stations throughout the study area.

The IDEA conducted for GRSM indicates that STORET data exist for all Level I parameter groups in the park. Sufficient quantities of data were retrieved for the required chemical parameters; however, much of the data were collected before 1985. Results for 119 of the 127 EPA priority toxic pollutants (consisting of inorganic parameters, general organics, pesticides, and PCBs) were retrieved from STORET. The organic data were primarily from the Pigeon River Exposure Risk Study (GRSM 0230).

Surface water resources in the GRSM study area include the Little Pigeon River; Little Tennessee River; Little River; Oconaluftee River; Fontana Lake; and numerous creeks, springs, and smaller lakes. Based on the data inventories and analyses contained in this report, surface waters within the study area generally appear to be of good quality, with indications of some impacts from human activities. Potential sources of contaminants include adjacent land development; road development and the associated increased stormwater runoff carrying road residues; septic systems and wastewater treatment facilities; abandoned mines, mineral exploration, and potential mineral development; wood harvesting, combustion, and the paper/pulp industry; and air-borne pollutants with associated acidic atmospheric deposition.

TABLE OF CONTENTS

EXECUTIVE SUMMARY v

TABLE OF CONTENTS ix

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 10
  - Date Screen 10
  - Station Type Screen 10
  - Phase 0 Parameter Screen 10
  - 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 14
- Statistical Definitions 16

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

Seasonal Analysis for Station 25
Seasonal Box-and-Whiskers Plots for Station 25
EPA Water Quality Criteria Analysis for Entire Park Study Area 25
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 27

IV. WATER QUALITY RESULTS 29
Overview 31
Regional Location Map 32
Water Quality Monitoring Locations Map(s) 33
Dischargers, Drinking Intakes, & Stream Gages Map(s) 38
Industrial Facilities Discharges, Drinking Water Intakes, and Stream Gages Table 41
Representative Mean Annual Hydrograph for Seasonal Analysis 43
Contacts for Agency Codes Retrieved 44
Station Period of Record Tabulation 45
Parameter Period of Record Tabulation 49
Station/Parameter Period of Record Tabulation 61
Station-By-Station Results 159
GRSM0001 Panther Creek 161
GRSM0002 Stecoah Creek 162
GRSM0003 Fontana Reservoir - Above Greasy Branch 163
GRSM0004 Fontana Lake 165
GRSM0005 Fontana Reservoir 166
GRSM0006 Fontana Reservoir 168
GRSM0007 Fontana Lake Nr Almonds Nc Inact-790713 169
GRSM0008 Fontana Reservoir 171
GRSM0009 Tuckasegee River At Bryson City 173
GRSM0010 Tuckasegee River At Bryson City, N. C. 201
GRSM0011 Tuckasegee R Near Bryson City Nc Inact-770713 209
GRSM0012 Fontana Reservoir 212
GRSM0013 Fontana Lake Below Tuckasegee R 213
GRSM0014 Fontana Lake Below Tuckasegee R 220
GRSM0015 Fontana Lake Below Tuckaseegee R 222
GRSM0016 Fontana Lake Above Stecoah Crk 223
GRSM0017 Fontana Lake Above Stecoah Crk 230
GRSM0018 Fontana Lake Above Stecoah Crk 232
GRSM0019 Fontana Lake 233
GRSM0020 Fontana Reservoir - Below Forney Creek 234
GRSM0021 Headwater Of Fontana Dam 236
GRSM0022 Fontana Lake 2Mi Us Hazel Ck Inact-790731 238
GRSM0023 Fontana Lake 240
GRSM0024 Fontana Lake @ Tuckasegee R @ Bryson City 241
GRSM0025 Fontana Lk @ Tuckasegee R @ Bryson City 248
GRSM0026 Fontana Lake @ Tuckasegee R @ Bryson City 250
GRSM0027 Fontana Lake Below Hazel Crk 251
GRSM0028 Fontana Lake Below Hazel Crk 258
GRSM0029 Fontana Lake Below Hazel Crk 260
GRSM0030 Fontana Lake 261
GRSM0031 Little Tenn R At Nc 28 Bl Fontana Dam N C 262
GRSM0032 Lake Cheoah At Nc Hwy 28 Nr Fontana Village Nc 264
GRSM0033 Lake Cheoah At Nc Hwy 28 Nr Fontana Village Nc 265

GRSM0034	Lake Cheoah At Nc Hwy 28 Near Fontana Village Nc	266
GRSM0035	Fontana Reservoir	267
GRSM0036	Cheoh Dam Penstock	268
GRSM0037	Little Tennessee River @ Fontana Inactive 810309	278
GRSM0038	Lake Cheoah At Power Lines Nr Power House	287
GRSM0039	Lake Cheoah At Power Lines Nr Power House	288
GRSM0040	Lake Cheoah At Power Lines Nr Power House	289
GRSM0041	Cheoah Reservoir	290
GRSM0042	Lake Cheoah Nr Dam Nr Tapoco	292
GRSM0043	Lake Cheoah Nr Dam Nr Tapoco	293
GRSM0044	Lake Cheoah Nr Dam Nr Tapoco	294
GRSM0045	Calderwood Lake Nr Dam	295
GRSM0046	Calderwood Lake Nr Dam	296
GRSM0047	Calderwood Lake Nr Dam	297
GRSM0048	Santeetlah Powerhouse Tailrace	298
GRSM0049	Santeetlah Powerhouse Tailrace	306
GRSM0050	Fontana Lake	307
GRSM0051	Little Tennessee	309
GRSM0052	Lake Cheoah	310
GRSM0053	Santeetlah Reservoir	312
GRSM0054		313
GRSM0055	Little Tennessee River At Tapoco Nc	315
GRSM0056	Little Tennessee River At Tapoco N C	333
GRSM0057	Fontana Dam Scroll Case	335
GRSM0058	Fontana Dam Scroll Case	352
GRSM0059	Little Tennessee R Below Tapoco Inact-741127	353
GRSM0060	Fontana Lake	355
GRSM0061	Fontana Reservoir	356
GRSM0062	Fontana Dam Tailrace	358
GRSM0063	Fontana Lake At Fontana Dam Inact-790716	359
GRSM0064	Fontana Lake At Fontana Dam	362
GRSM0065	Fontana Lake At Fontana Dam	364
GRSM0066	Calderwood Lake Nr Slickrock Creek	365
GRSM0067	Calderwood Lake Nr Slickrock Creek	366
GRSM0068	Calderwood Lake Nr Slickrock Creek	367
GRSM0069	Fontana Reservoir	368
GRSM0070	Oconaluftee River Nr Cherokee Nc Inact-750129	370
GRSM0071	Twentymile Creek	372
GRSM0072	Trib. To Unnamed Trib. 0.16 To Little Tn R 55.15	374
GRSM0073	Oconaluftee River At Cherokee Nc Inact-750129	376
GRSM0074	Noland Creek Near Bryson City, N. C.	378
GRSM0075	Calderwood Reservoir	379
GRSM0076	Parson Br Nr Calderwood Tenn	380
GRSM0077	Calderwood Dam Reservoir Side	382
GRSM0078	Calderwood Powerhouse Penstock	384
GRSM0079	Little Tennessee River At Calderwood Powerhouse	394
GRSM0080	Calderwood Lake	395
GRSM0081	Eagle Creek	397
GRSM0082	Chilhowee Reservoir	399
GRSM0083	Chilhowee Reservoir	400
GRSM0084		401
GRSM0085	Straight Fork Ck @ Sr1368 @Ravensford In-750224	403

GRSM0086	Forney Creek	405
GRSM0087	Bridge 100 Feet Above Mouth Of Indian Creek	407
GRSM0088	Oconaluftee R @Sr1368 N Ravensford Inact-750224	409
GRSM0089	Richland Creek	411
GRSM0090	Unnamed Stream	412
GRSM0091	Mingus Creek At Ravensford	413
GRSM0092	Richland Creek	416
GRSM0093	Factory Branch	417
GRSM0094	Tributary To Raven Fork 7.43	418
GRSM0095	Forney Creek	420
GRSM0096	Chilhowee Reservoir	422
GRSM0097	Chilhowee Reservoir	423
GRSM0098	Tributary To Raven Fork 7.43	424
GRSM0099	Bunches Creek	425
GRSM0100	Eagle Creek	427
GRSM0101	Straight Fork Ck Below Raven Fork Inact-750224	429
GRSM0102	Bridge At Smokemont Campground	431
GRSM0103	Chilhowee Reservoir @ Abrams Creek	433
GRSM0104	Chilhowee Reservoir - Mouth Of Abrams Creek	434
GRSM0105	Road Crossing 0.5 Mile Sw Of Straight Fk Mouth	435
GRSM0106	Bunches Creek	437
GRSM0107	Forge Creek Near Cades Cove, Tenn	439
GRSM0108	Tributary To Raven Fork 7.43	441
GRSM0109	Oconaluftee R @Us441 Nr Smokemont Inact-750224	443
GRSM0110	Tributary To Raven Fork 8.38	445
GRSM0111	Tributary To Oconoluftee River 10.26	447
GRSM0112	Tributary To Oconaluftee River 10.26	449
GRSM0113	Tributary To Oconaluftee River 10.26	451
GRSM0114	Chilhowee Reservoir	452
GRSM0115	Tributary To Raven Fork 8.38	453
GRSM0116	Tributary To Raven Fork 8.38	455
GRSM0117	Chilhowee Reservoir	456
GRSM0118	Chilhowee Reservoir	457
GRSM0119	Chilhowee Reservoir	458
GRSM0120	Abrams Cr Below Cades Cove Tenn	459
GRSM0121	Chilhowee Reservoir	461
GRSM0122	Chilhowee Reservoir	462
GRSM0123	Chilhowee Reservoir	463
GRSM0124	Chilhowee Reservoir	464
GRSM0125	Goshen Prong Ab Elkmont	465
GRSM0126	Lake Hartwell	466
GRSM0127	Chilhowee Reservoir	467
GRSM0128	Chilhowee Reservoir	468
GRSM0129	Slide Hollow Ab Elkmont	469
GRSM0130	Chilhowee Reservoir	470
GRSM0131	Chilhowee Reservoir	471
GRSM0132	Rough Fork Nr Nellie	472
GRSM0133	Chilhowee Reservoir	473
GRSM0134	Tributary To Raven Fork 8.38	474
GRSM0135	Sams Cr Ab Townsend	476
GRSM0136	Above Enloe Creek	477
GRSM0137	Tributary To Oconoluftee River 10.26	479

GRSM0138	Tributary To Raven Fork 12.50	481
GRSM0139	Tributary To Unnamed Trib. 0.17 To Raven F 13.19	483
GRSM0140	Laurel Cr Ab Townsend	485
GRSM0141	Tributary To Enloe Creek 0.62	486
GRSM0142	Tributary To Raven Fork 12.50	487
GRSM0143	Tributary To Raven Fork 13.19	489
GRSM0144	Lynn Camp Prong Nr Blanket Mt Tenn	491
GRSM0145	Tributary To Raven Fork 13.49	493
GRSM0146	Tributary To Raven Fork 12.5	495
GRSM0147	Fish Camp Prong Ab Elkmont	497
GRSM0148	Tributary To Enloe Creek 1.38	498
GRSM0149	Little R Ab Fish Camp Prong Ab Elkmont	500
GRSM0150	Tributary To Raven Fork 8.38	501
GRSM0151	Roughfork Ck Nr Cataloochee Nc Inact-791024	503
GRSM0152	Little River	505
GRSM0153	West Prong Ab Laurel Cr Ab Townsend	507
GRSM0154	Caldwell Fork Nr Nellie	508
GRSM0155	Palmer Ck @ Sr1164 Nr Cataloochee Inact-791024	509
GRSM0156	Palmer Cr At Nellie	511
GRSM0157	Calabash Ck 1.2 Mi Us Sr1164 Inact-791024	512
GRSM0158	Palmer Cr At Campground Nr Nellie	514
GRSM0159	Lower Double Branch Nr Nellie	515
GRSM0160	Tributary To Raven Fork 13.49	516
GRSM0161	W P Lt Pigeon R Nr Mt Le Conte Tn	518
GRSM0162	Palmer Cr Ab Pretty Hollow Nr Nellie	520
GRSM0163	Tributary To Right Fork 1.03	521
GRSM0164	Mi Pr Little R At Walker Fields Nr Townsend T	523
GRSM0165	Pretty Hollow Nr Nellie	525
GRSM0166	Tributary To Right Fork 1.03	526
GRSM0167	Tributary To Raven Fork 16.74 Above Rapid Creek	527
GRSM0168	Tributary To Right Fork 0.56	529
GRSM0169	Tributary To Raven Fork 16.74	531
GRSM0170	Jakes Cr Nr Elkmont	532
GRSM0171	W Prong Little Pigeon R 7.7 Quad 156Se	533
GRSM0172	Winding Stair Branch Nr Nellie	535
GRSM0173	Tributary To Enloe Creek 4.91	536
GRSM0174	Little R Ab Elkmont	538
GRSM0175	Tributary To Enloe Creek 5.35	539
GRSM0176	Meadow Branch Ab Townsend	541
GRSM0177	Lake In The Sky	542
GRSM0178	Little R At Elkmont Tenn	544
GRSM0179	West Prong Ab Townsend	546
GRSM0180	Middle Prong Ab Townsend	547
GRSM0181	Near Lrm 35.6/The Wye/Smokey Mt Park/Quad 157Nw	548
GRSM0182	Little R. Ab Townsend	549
GRSM0183	Little R Blw Elkmont	589
GRSM0184	Cataloochee Creek Near Cataloochee N C	590
GRSM0185	Cataloochee Creek Near Cataloochee Nc	648
GRSM0186	Computed Values Cataloochee Cr N	680
GRSM0187	Cataloochee Creek Nr Cataloochee	682
GRSM0188	Cattaloochee Creek @ Cattaloochee	683
GRSM0189	Little Cataloochee Ck Nr Cataloochee Ina-791024	685

GRSM0190	Little River		687
GRSM0191	Laurel Lake		689
GRSM0192	W Prong Little Pigeon R 21.9	Quad 157Ne	691
GRSM0193	At White Oak Creek		693
GRSM0194	Correll Branch		695
GRSM0195	False Gap Prong		697
GRSM0196	Little River At Kinzel Springs, Tn		699
GRSM0197	Waterville Lake @ Mouth Of Wilkins Creek		700
GRSM0198	Waterville Lake @ Mouth Of Wilkins Creek		701
GRSM0199	Waterville Lake @ Mouth Of Wilkins Creek		702
GRSM0200	Walters Lake		703
GRSM0201	Tributary To Pigeon River 38.05		705
GRSM0202			706
GRSM0203	Waterville Lake In Cataloochee Creek Arm		709
GRSM0204	Waterville Lake In Cataloochee Creek Arm		710
GRSM0205	Waterville Lake In Cataloochee Creek Arm		711
GRSM0206	Correll Branch		712
GRSM0207	Tributary To Pigeon River 38.05		714
GRSM0208	Walters Lake		715
GRSM0209	Mouth At Pigeon River 38.05		717
GRSM0210	Waterville Lake At Dam Nr Hepco Nc		718
GRSM0211	Waterville Lake At Dam Nr Hepco Nc		719
GRSM0212	Waterville Lake At Dam Nr Hepco Nc		720
GRSM0213	False Gap Prong		721
GRSM0214	Sv:E-11, Gatlinburg, Tn (Gat-5)		723
GRSM0215	Ownby Street Bridge 0.2 Mile Above Le Conte Cr.		725
GRSM0216	Sv:E-5,Gatlinburg,Tn.(Gat-9)		726
GRSM0217	Sv:E-2,Gatlinburg,Tn.(Gat-6)		728
GRSM0218	W Prong Little Pigeon R 16.35	Quad 157Ne	730
GRSM0219	W Prong Little Pigeon R 16.4	Quad 157Ne	732
GRSM0220	Cove Creek At Hatchertown, Tn		734
GRSM0221	Dudley Cr Nr Gatlinburg Tenn		735
GRSM0222	Above Sewage Disposal Plant		737
GRSM0223	Wp L Pigeon R At Gatlinburg Tenn		739
GRSM0224	Little Pigeon R 25.4	Quad 165Nw	741
GRSM0225	Walden Creek 3.4	Quad 156Se	742
GRSM0226	Little Pigeon R 25.5	Quad 165Nw	744
GRSM0227	Little Pigeon R Nr Pittman Center Tenn		746
GRSM0228	Norton Branch 0.0	Quad 157Ne	748
GRSM0229	Tributary To Pigeon River 13.6		749
GRSM0230	Pigeon River Exposure Risk Study		751
GRSM0231	Pigeon River Exposure Risk Study		758
GRSM0232	Little Pigeon R 23.0	Quad 164Sw	760
GRSM0233	Webb Cr 2.5	Quad 164Se	761
GRSM0234	Webb Cr 0.0	Quad 164Sw	762
GRSM0235	Webb Cr 0.06	Quad 164Sw	764
GRSM0236	Webb Cr 2.3	Quad 164Se	765
GRSM0237	Cosby Creek		767
GRSM0238	Webb Creek Nr Pittman Center, Tn		769
GRSM0239	Webb Cr 3.6	Quad 164Sw	770
GRSM0240	Cosby Cr Nr Bluffton Tenn		772
GRSM0241	Webb Cr 5.7	Quad 164Se	774

GRSM0242 Below Gnatty Branch . . . 775
GRSM0243 W Prong Little Pigeon R 12.5 Quad 156Se . . . 776
GRSM0244 Pigeon River . . . 777
GRSM0245 Pigeon River 26.0 Quad 173Se . . . 779
GRSM0246 Waterville Lake Hydroelec Tunnel . . . 780
GRSM0247 Waterville Reservoir . . . 781
GRSM0248 Bridge Sse Of Pigeon Forge . . . 782
GRSM0249 Pigeon River At Waterville N C . . . 783
GRSM0250 Br. 1.3 Mi. Nw Of Pittman Center . . . 793
GRSM0251 Little Pigeon River At Laurel, Tn . . . 796
GRSM0252 Crying Creek Above Cosby, Tn . . . 798
GRSM0253 Pigeon R At Co Hwy Nr Waterville . . . 799
GRSM0254 Cosby Creek Above Cosby, Tn . . . 801
GRSM0255 Cosby Creek . . . 803
GRSM0256 Pigeon River At Waterville Nc . . . 805
GRSM0257 Waterville Reservoir . . . 843
GRSM0258 Below Tobes Creek - 1.1 Miles Nw Of Waterville . . . 844
GRSM0259 Cosby Creek . . . 846
GRSM0260 Greenbrier Creek At Cosby, Tn . . . 848
GRSM0261 Pigeon River . . . 849
GRSM0262 Bridge Near Hartford . . . 850
GRSM0263 . . . 852
GRSM0264 Pigeon R 20.4 @ N.C. Light/Pwr Disch Quad 173Sw . . . 853
GRSM0265 North Of Denton . . . 862
EPA Water Quality Criteria Analysis for Entire Study Area . . . 863
NPS Servicewide Inventory and Monitoring Program
"Level I" Water Quality Inventory Data Evaluation and Analysis (IDEA) . . . 866
Water Quality Observations Outside STORET Edit Criteria for Park . . . 873

V. APPENDICES . . . 875
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
USGS Flow Gages File . . . B-13
RF3 Structure File . . . B-15
RF3 Trace File . . . B-18
Catalog Unit Boundary File . . . B-19
Encyclopedia File . . . B-20
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, stream gages, 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.

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

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

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

Julie Mattick and Scott Hermsen helped prepare the report and write the Executive Summary.

Joe Gregson and Scott Grover provided digital cartographic support, both in determining retrieval/query areas and producing graphics.

Jacquie Nolan designed the cover and provided publications support.

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[2]The Environmental Protection Agency's Quality Criteria for Water 1986 (Gold Book) and its two updates were 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. The EPA will soon be releasing a new water quality criteria document - the Silver Book.

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.

Kendrick Gordon served as the Production Technician and was responsible for executing the software and procedures to produce the park unit chapters.

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). Five 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;
- Stream Gages (GAGES) - locations of USGS and other discharge gages; 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 735,000 active and inactive sampling stations and more than 180 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 stream gages, as well as some artificial gages, may appear in GAGES, the vast majority of stream gages belong 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 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, and Alaska). 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 will be 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 five 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, stream gages, 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 six 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) Stream Gage Locations: This database includes stream gages located within the park's study area. The vast majority of gages will likely belong 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) 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 six 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.

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

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 189 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.

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.

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.

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.

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. 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. 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

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, the three parameters which were typically the most frequently measured at nearly all stations were water temperature, stage, and discharge (See Table E). Consequently, most of the graphical plots produced were of water temperature, stage, and discharge. 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
00061	Stream Flow, Instantaneous
00065	Stream Stage, Feet

Observations/Period of Record Screen

Despite never plotting water temperature, stage, and discharge, 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 appear-ance 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.

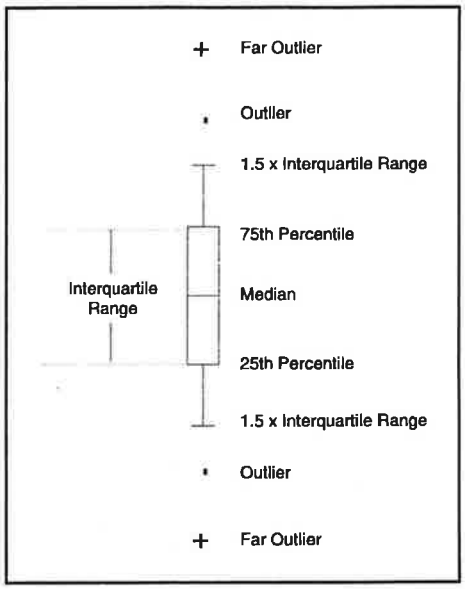
Table H. Definition of Descriptive Statistics Contained in Inventory, Annual, and Seasonal Tables

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. This includes the GIS estimated acreage of the park and the study area. 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 study area should always be greater than the park area since it includes the park as well as all lands within at least 3 miles upstream and 1 mile downstream. The number of STORET stations is the number of locations within the study area where water quality was monitored and the data entered into STORET. The date of retrieval is the calendar date when Horizon Systems downloaded all the data from STORET. The period of record is the earliest date for which water quality data exists in STORET for the park up to the date when the most recent data were entered. The number of parameters measured is the number of unique water quality parameters measured within the study area 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. The number of industrial/municipal facilities discharges, stream gages, and drinking water intakes are the number of each of these entities found within the study area. 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) 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 River Reach File Ver. 3.0 hydrography 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, & Stream Gages Map(s)

The Dischargers, Drinking Intakes, & Stream Gages 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, and active and inactive stream-gage locations. This map also serves as a visual index allowing the user to determine the identification code of each discharger, drinking intake, or stream gage. 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, & Stream Gages 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, and Stream Gages Table

This table provides some additional information about each of the discharges, drinking intakes, and stream gages displayed on the previous map(s). This information generally includes the site identification number; the station or facility name; an address, catalog unit, 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 plots 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 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).

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 Inventory section. 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. 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); and the total number of observations for each parameter at each station. This table is very useful when you need to determine at which locations within the study area 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; 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 μeq/l H^+ (Kunkle and Wilson 1984). Once the descriptive statistics are computed using the pH values expressed as μeq/l H^+, the results can be converted back to pH. The three pH entries in the descriptive statistics table will all have the same STORET code.

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

EPA Water Quality Criteria Analysis for Station

The EPA Water Quality Criteria Analysis table follows the Parameter Inventory. This table presents a comparison between the station's STORET water quality data and applicable national water quality criteria for freshwater and, as appropriate, 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 Gold Book (Environmental Protection Agency 1986).

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

Seasonal Analysis for Station

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

Seasonal Box-and-Whiskers Plots for Station

Entries in the Seasonal Analysis table that meet the seasonal box-and-whisker plot screening criterion will generate Seasonal Box-and-Whiskers Plots. The interpretation of box-and-whiskers plots is explained in the Statistical Definitions section of the Methodology chapter. A box is generated for each season of the period of record, even if less than 9 observations were recorded in the season. On the x-axis, the seasons are 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, as appropriate, 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

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 this 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 189 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 189 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 GRSM

Study Area Boundary Description

The study area includes all areas within at least 3 miles upstream of the park unit boundary and at least 1 mile downstream.

GIS Estimated Acres of Park:	629120
GIS Estimated Acres of Study Area:	764160
# STORET Stations:	265
Date of STORET Retrieval:	03/14/95
Period of Record:	08/02/46-01/09/95
# Parameters Measured:	847
# Water Quality Observations	112749
# Industrial/Municipal Facilities:	24
# Flow Gages:	22
# Drinking Water Intakes	12

Hydrologic Definition of Seasons

1. October 1 - March 31
2. April 1 - September 30

Time Series Plot Criteria:

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

Annual Analysis Criteria:

To be included in the annual box-and-whisker plots, a station/parameter combination must have at least 9 observations in each of at least 12 years.

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

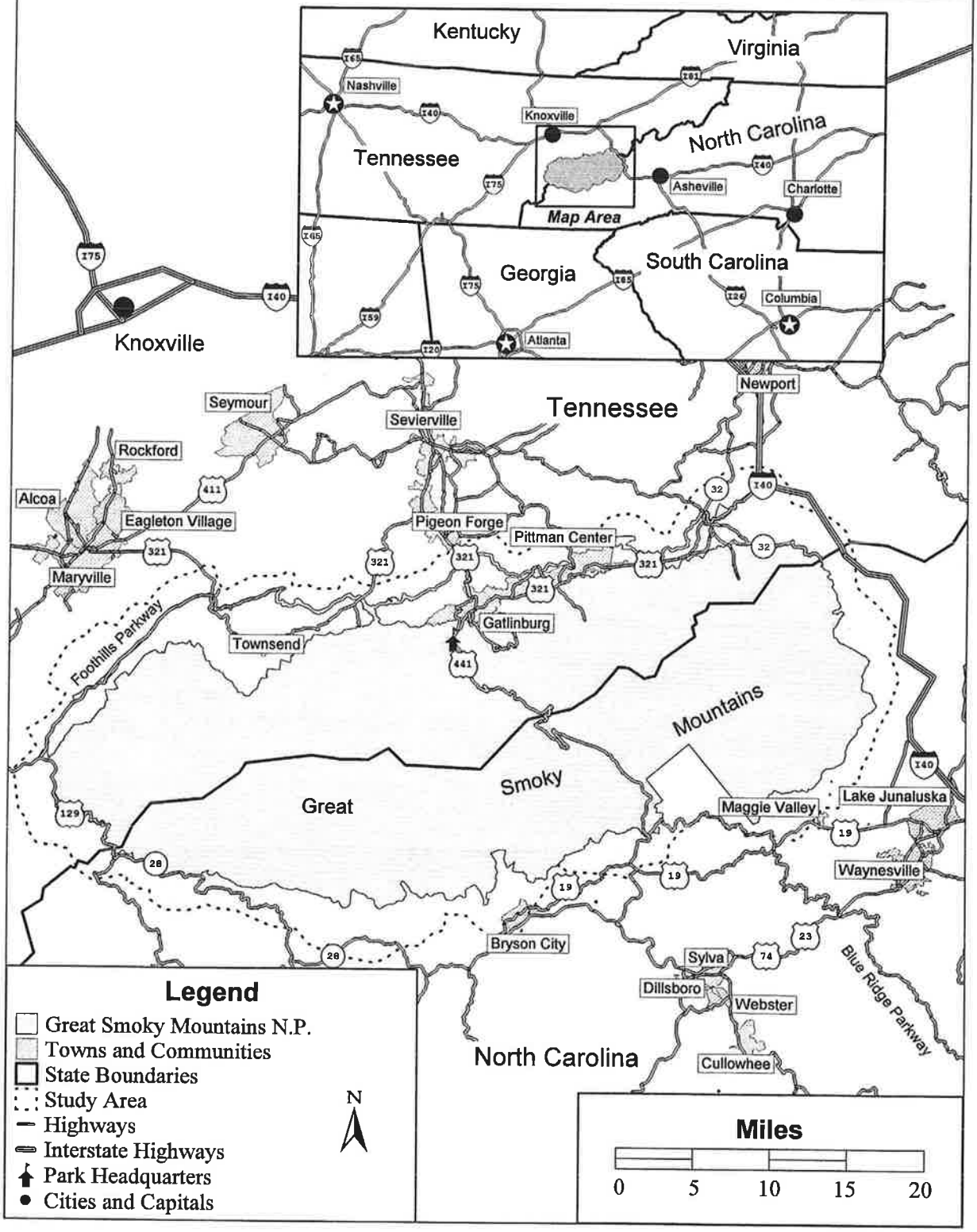
Seasonal Analysis Criteria:

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

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

Great Smoky Mountains National Park

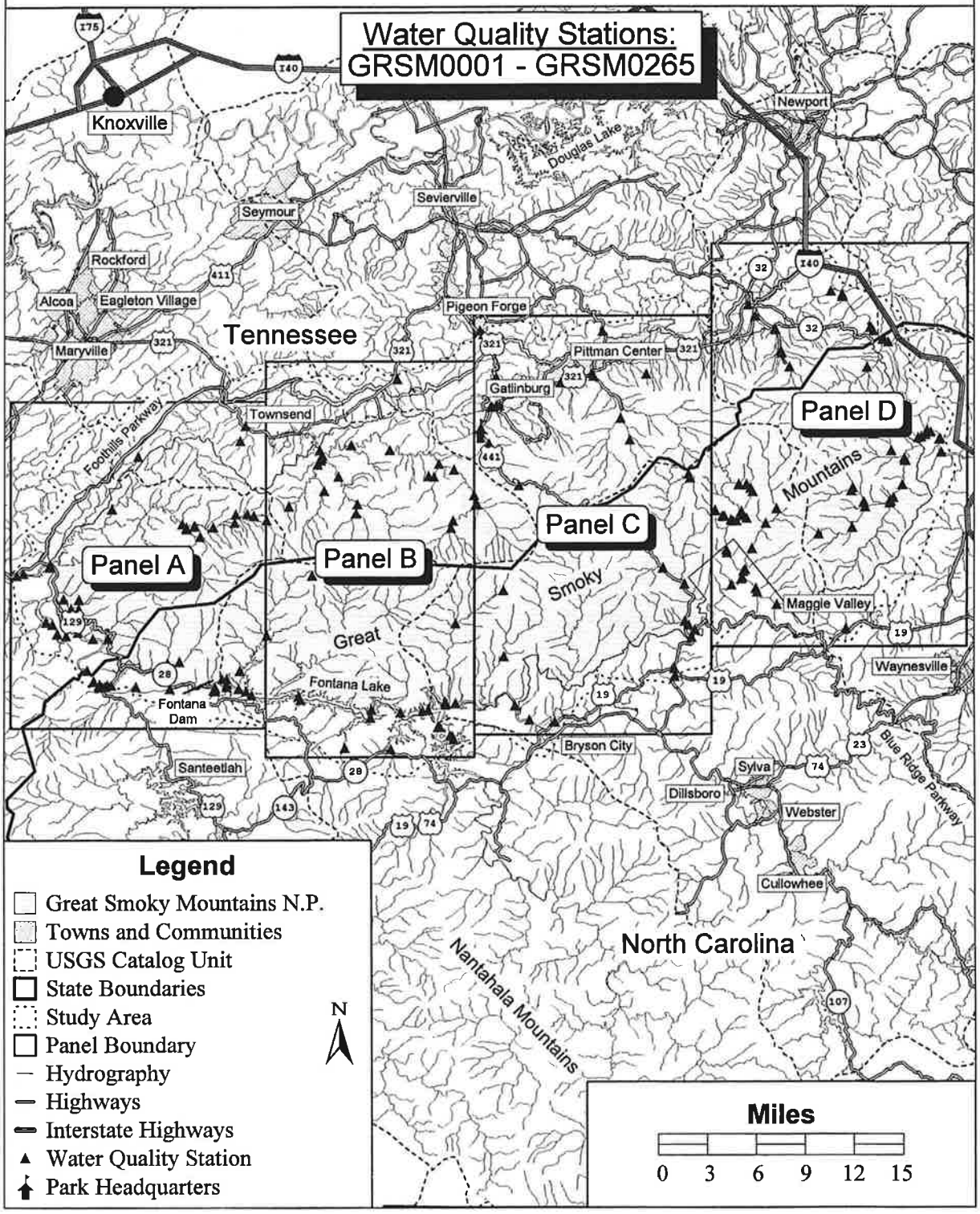
Regional Location Map



Great Smoky Mountians National Park

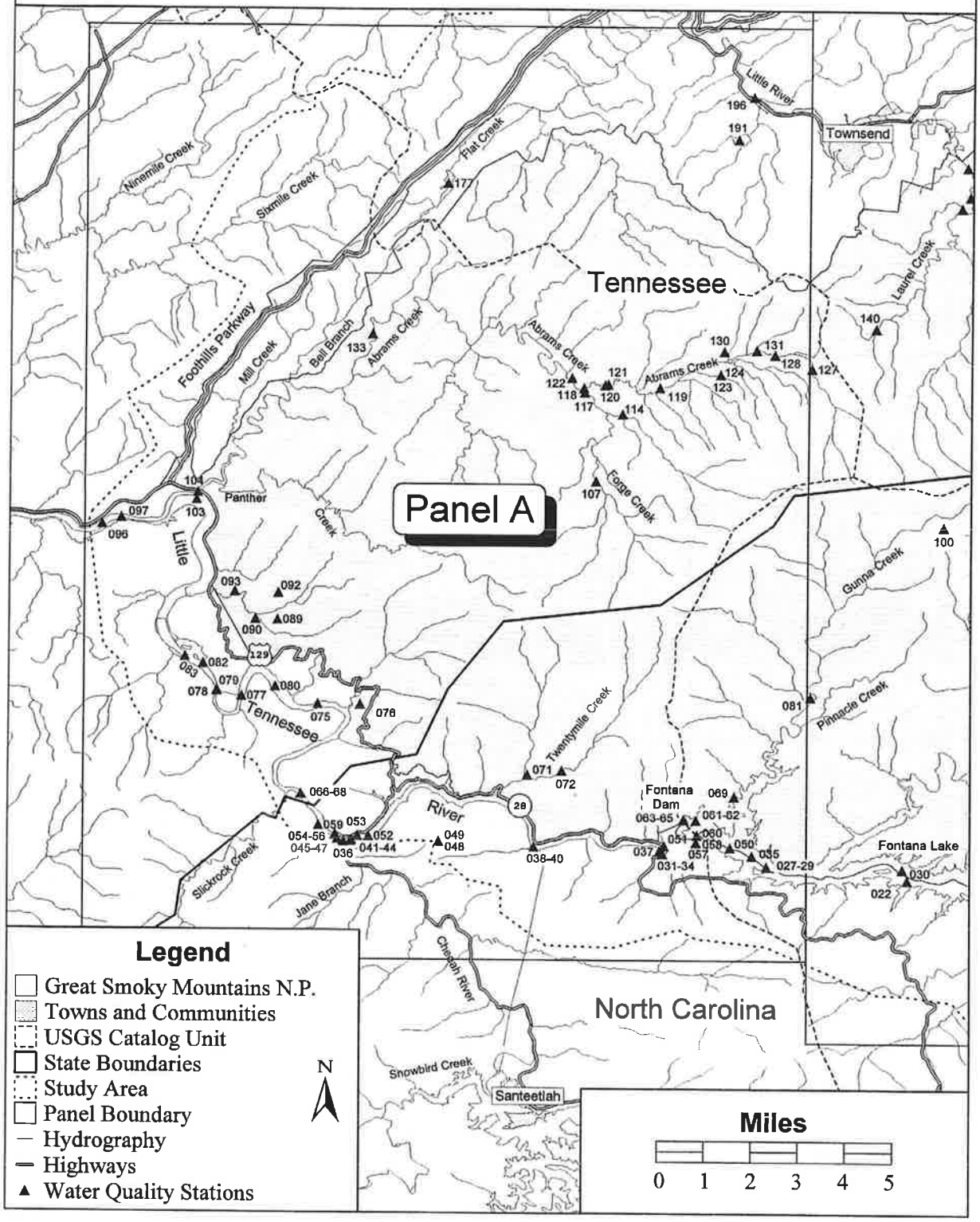
Water Quality Monitoring Locations

Graphic Panel Index



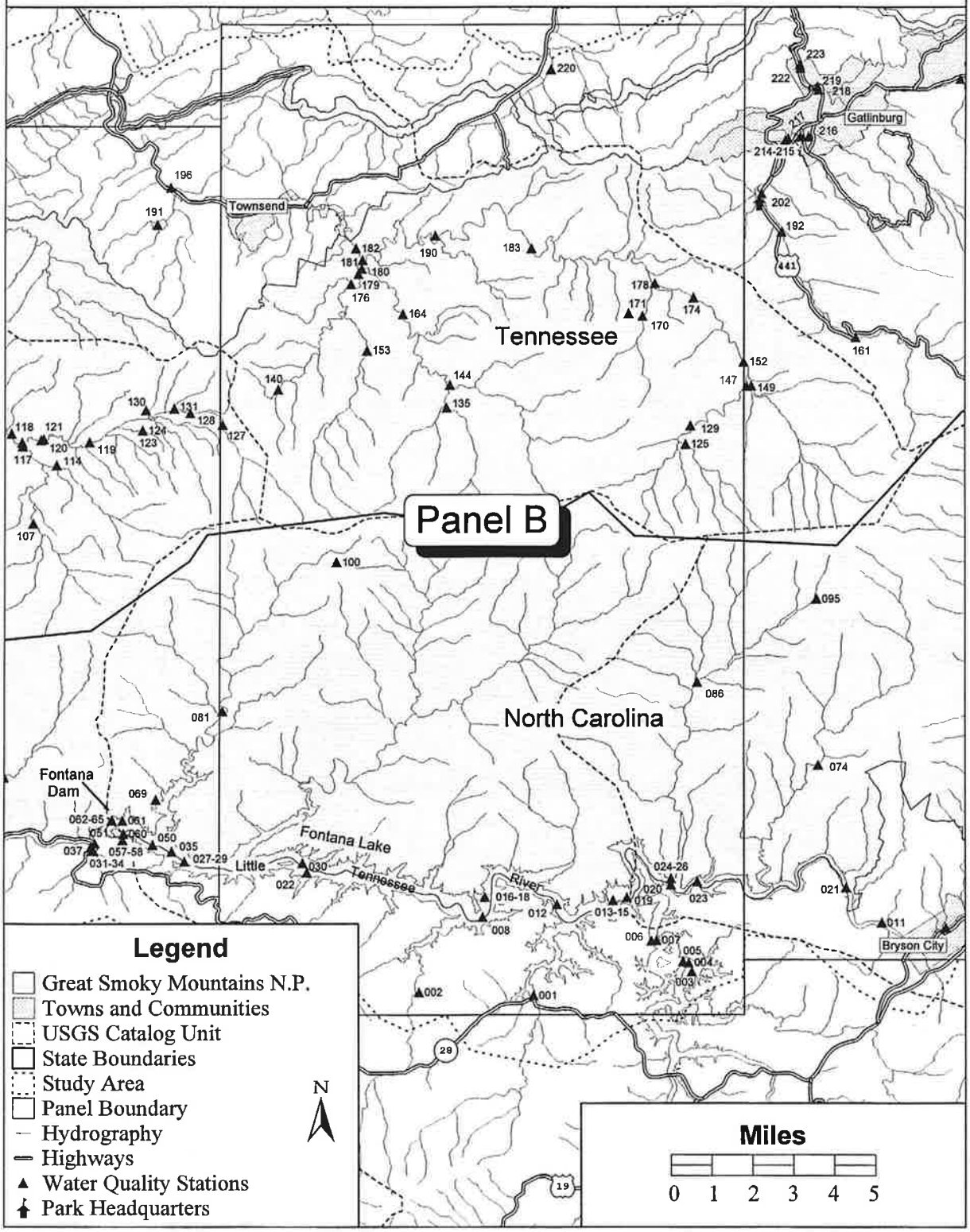
Great Smoky Mountains National Park

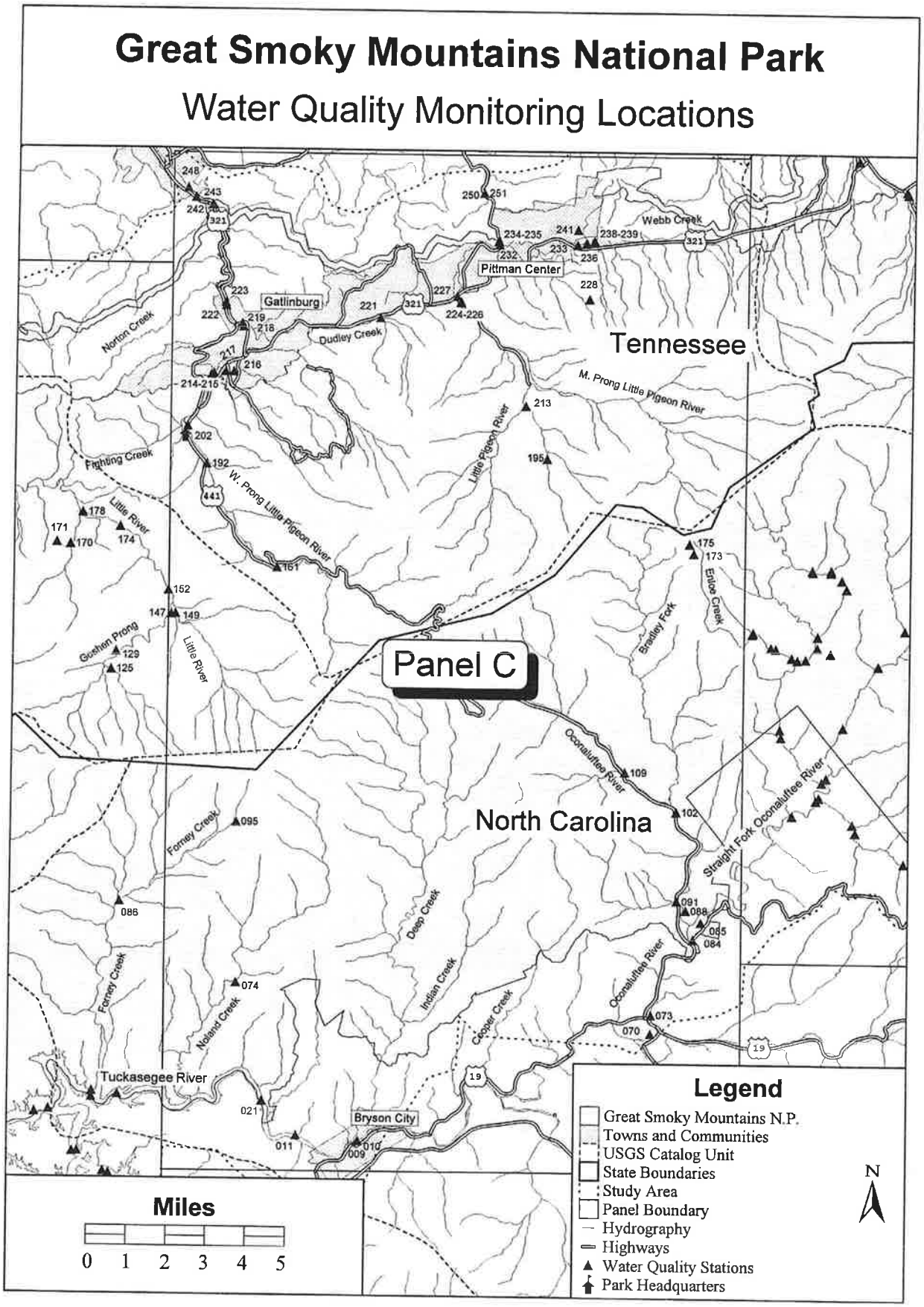
Water Quality Monitoring Locations



Great Smoky Mountains National Park

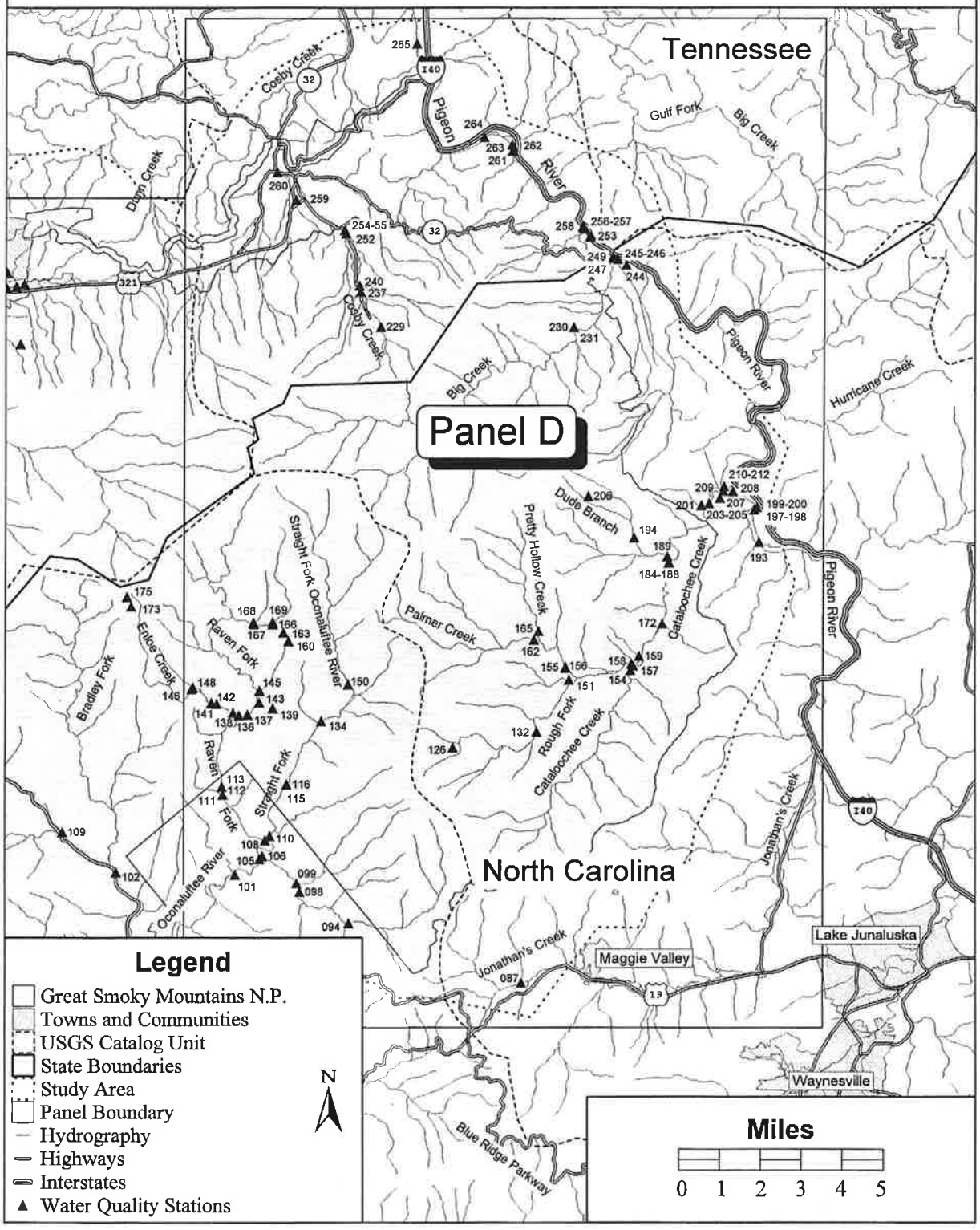
Water Quality Monitoring Locations




Great Smoky Mountains National Park
Water Quality Monitoring Locations
Tennessee
North Carolina
Panel C
Gatlinburg
Pittman Center
Bryson City
Tuckasegee River
Webb Creek
Dudley Creek
Norton Creek
Fighting Creek
Little River
W. Prong Little Pigeon River
M. Prong Little Pigeon River
Little Pigeon River
Goshen Prong
Forney Creek
Noland Creek
Deep Creek
Indian Creek
Cooper Creek
Bradley Fork
Enloe Creek
Oconaluftee River
Straight Fork Oconaluftee River
Miles
0 1 2 3 4 5
Legend
Great Smoky Mountains N.P.
Towns and Communities
USGS Catalog Unit
State Boundaries
Study Area
Panel Boundary
Hydrography
Highways
Water Quality Stations
Park Headquarters
N

Great Smoky Mountains National Park

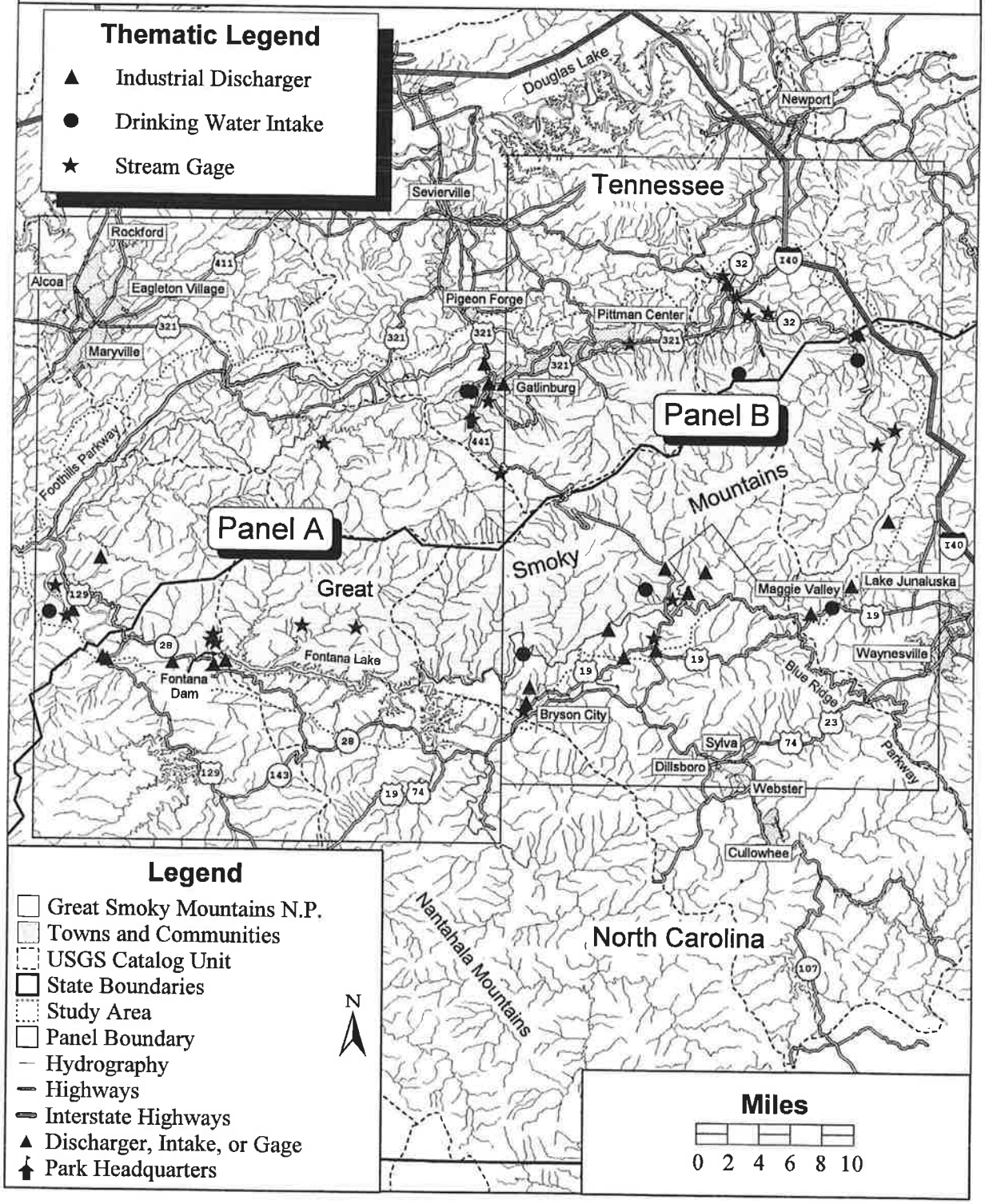
Water Quality Monitoring Locations



Great Smoky Mountains National Park

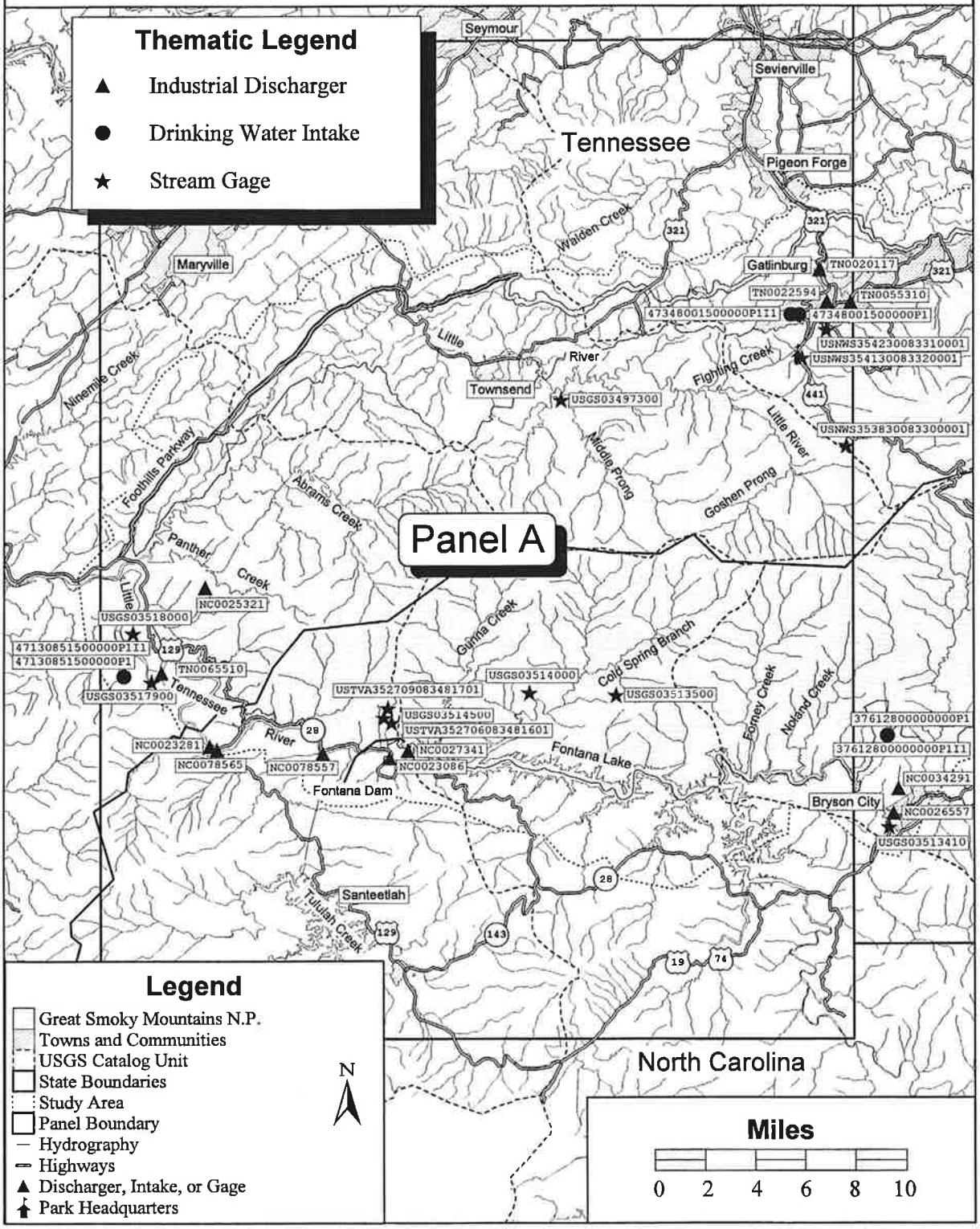
Dischargers, Drinking Intakes, & Stream Gages

Graphic Panel Index



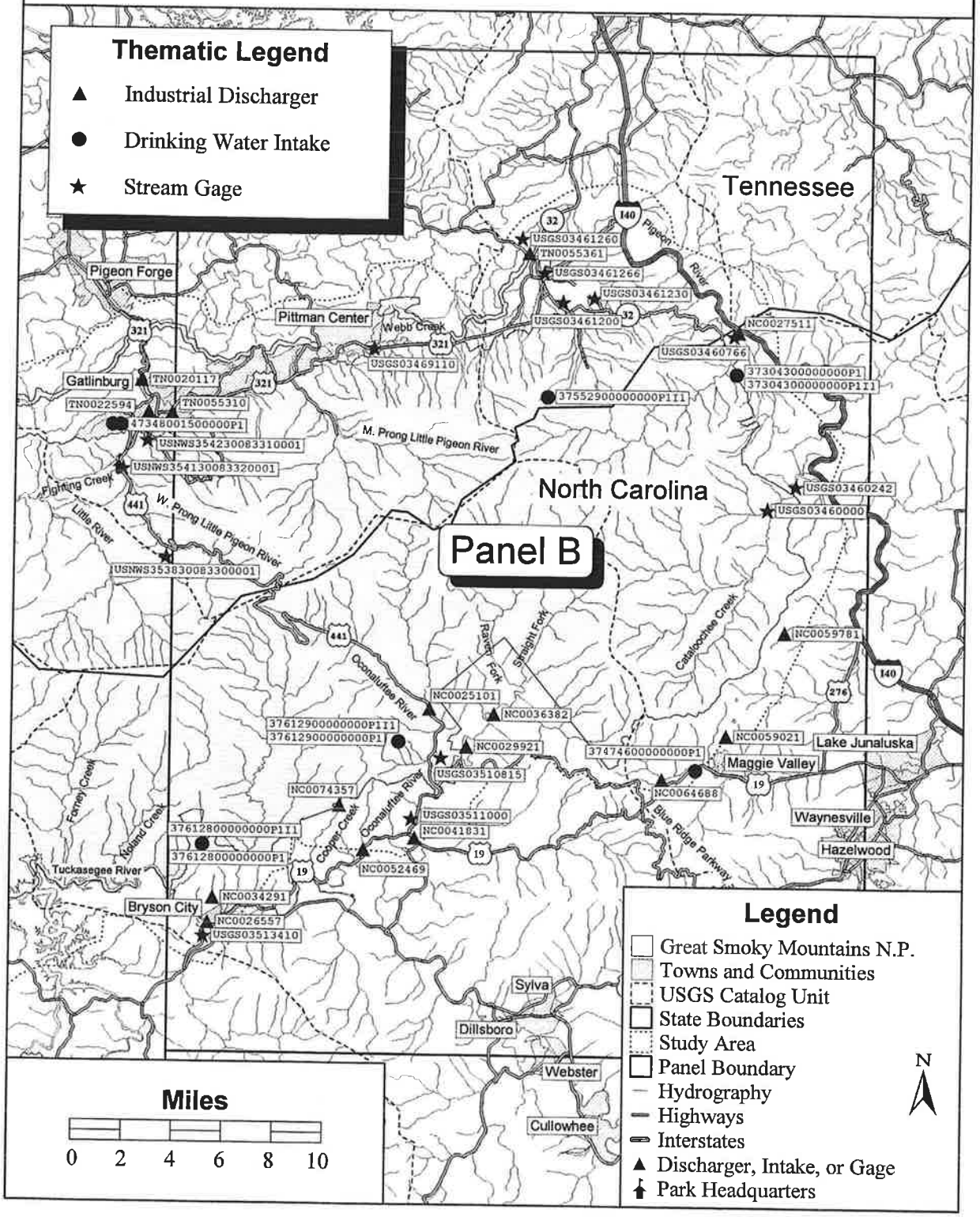
Great Smoky Mountains National Park

Dischargers, Drinking Intakes, & Stream Gages



Great Smoky Mountains National Park

Dischargers, Drinking Intakes, & Stream Gages



Industrial Facilities Discharges, Drinking Water Intakes, and Stream Gages Within the GRSM Study Area

Industrial Facilities Discharges

Site ID	Station/Facility Name	Address	City	Facility Receiving Water Name
NC0023086	FONTANA VILLAGE RESORT	FONTANA VILLAGE RESORT	FONTANA DAM	LITTLE TENNESSEE
NC0023281	TAPOCO-POWER GENERATION(STP)	.....	TAPOCO	L TENNESSEE R
NC0025101	USDI NPS GSM NP-SMOKEMONT CAMP	1895 PHOENIX BOULEVARD	SWAIN COUNTY	OCONALUFTEE RV
NC0025321	WAYNESVILLE WWTP, TOWN OF	106 S MAIN ST	WAYNESVILLE	PIGEON R
NC0026557	BRYSON CITY-STP	.....	BRYSON CITY	TUCKASEIGEE R
NC0027341	TVA-FONTANA HYDRO	.....	FONTANA DAM	L TENNESSEE R
NC0027511	CAROLINA P&L-WATERVILLE HYDRO	1-40 (WATERVILLE STAR RT)	WATERVILLE	PIGEON R
NC0029921	KOA KAMPING RESORT	STAR RT BOX 39	SWAIN COUNTY	RAVING FORK RIVE
NC0034291	SWAIN CNTY-WHITTIER SCH	SWAIN COUNTY BD.OF EDUC.	BRYSON CITY	TUCKASEIGEE RV
NC0036382	SAFARI OF CHEROKEE	STAR ROUTE BOX 54	SWAIN COUNTY	RAVEN FORK
NC0041831	CHEROKEE WWTP	.....	.....	OCONALUFTEE R
NC0052469	CHEROKEE INDIANS-201 WWTP	------	-----	UNNAMED
NC0052507	YOGI IN SMOKIES	STAR RT. BOX 54,BIG COVE	CHEROKEE	-------
NC0059021	WASHBURN RESIDENCE	PO BOX 4617	MAGGIE VALLEY	FIE CR
NC0059781	SUTTON RESIDENCE (KATHY)	RT. 2, BOX 502	WAYNESVILLE	-------
NC0064688	E O LINDER RESIDENCE	415 OLD CHAPLIN ROAD	HAYWOOD COUNTY	-------
NC0074357	WOODY'S TROUT FARM, INC.	430 COOPER CREEK RD.	BRYSON CITY	-------
NC0078557	TAPOCO,INC./SANTEETLAH PWRHSE.	P. O. BOX 14	TAPOCO	-------
NC0078565	TAPOCO, INC./CHEOAH POWERHOUSE	P. O. BOX 14	TAPOCO	-------
TN0020117	GATLINBURG STP	LITTLE PIGEON RIVER RD	SEVIER COUNTY	WEST PRONG LIT P
TN0022594	USDI NPS GSM NP-TREMONT	GREAT SMOKEY MOUNT. NAT.	BLOUNT COUNTY	LECONTE CR
TN0055310	WEBB CREEK U.D.	HIWAY 73	SEIVER COUNTY	WEBB CR
TN0055361	RESTLAVEN COIN LAUNDRY&CARWASH	.....	COSBY	TR TO COSBY C
TN0065510	TAPOCO INC-CALDERWOOD POWERHOU	------	BLOUNT COUNTY	LITTLE TENNESSEE RIVER

Drinking Water Intakes

Site ID	Station/Facility Name	City	Population Served	Avg. Daily Production (Gal./Day)
37304300000000P1	TREATMENT PLANT	WATERVILLE	32	1000.00
37304300000000P1I1	BIG CREEK	WATERVILLE	32	1000.00
37474600000000P1	TREATMENT PLANT	MAGGIE VALLEY	6000	-
37552900000000P1I1	YADKIN RIVER	SALISBURY	30000	0000.00
37612800000000P1	TREATMENT PLANT	BRYSON CITY	3000	0000.00
37612800000000P1I1	LANDS CREEK	BRYSON CITY	3000	0000.00
37612900000000P1	TREATMENT PLANT	CHEROKEE	800	5000.00
37612900000000P1I1	MINGUS CR	CHEROKEE	800	5000.00
47130851500000P1	TREATMENT PLANT	MARYVILLE	100	0000.00
47130851500000P1I1	FIRST CREEK	MARYVILLE	100	0000.00
47348001500000P1	TREATMENT PLANT	GATLINBURG	6195	0000.00
47348001500000P1I1	LIITLE PIGEON R	GATLINBURG	6195	0000.00

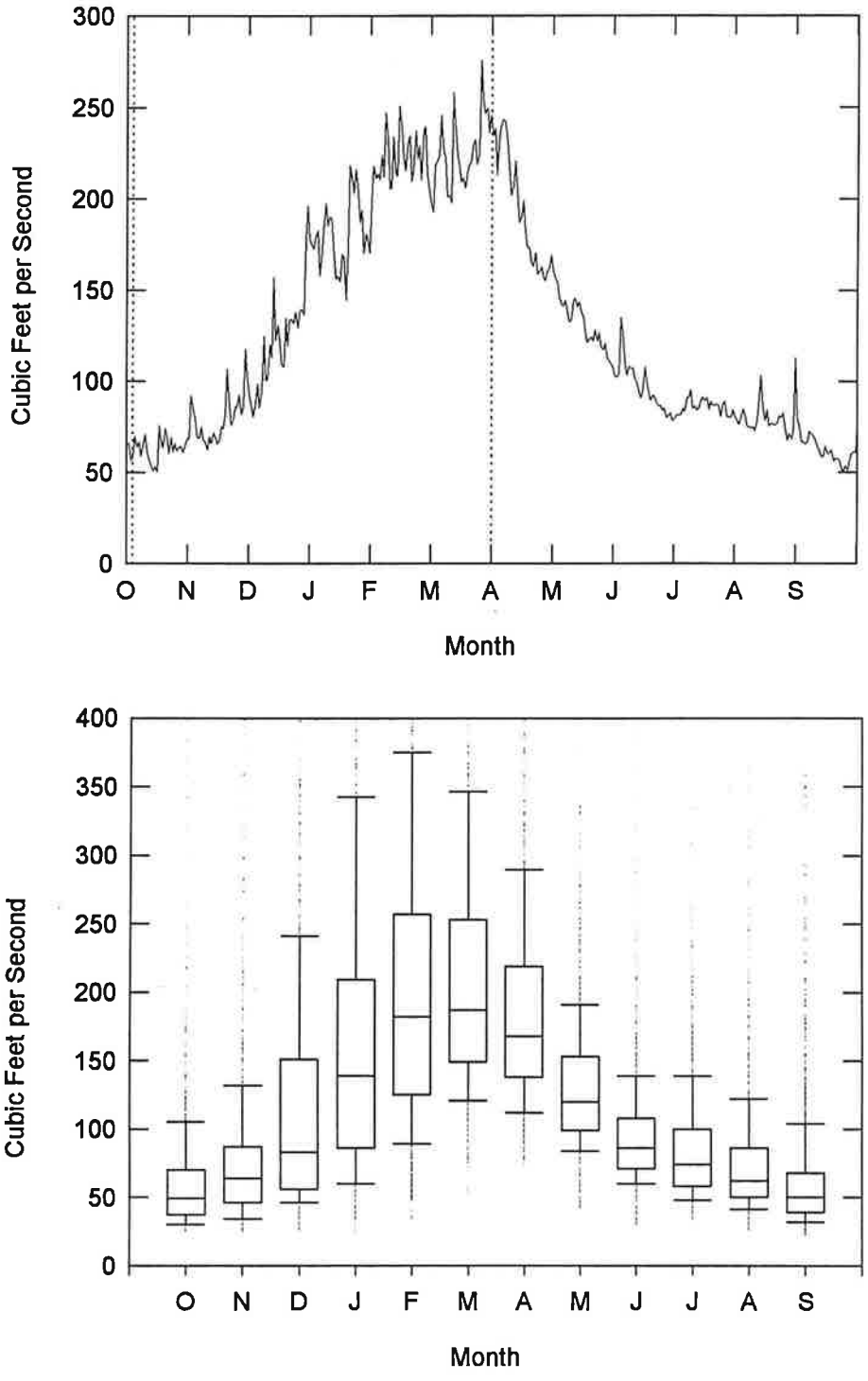
Industrial Facilities Discharges, Drinking Water Intakes, and Stream Gages Within the GRSM Study Area

USGS Stream Gages

Site ID	Station Name	Catalog Unit	Drainage Area (Square Miles)	USGS Mean Annual Flow (Cubic Feet/Second)
USGS03460000	CATALOOCHEE CREEK NE	06010106	49.20	110.56
USGS03460242	L WALTERS NR MT STER	06010106	455.00	-
USGS03460766	PIGEON RIVER AT WATE	06010106	536.00	-
USGS03461200	COSBY CREEK ABOVE CO	06010106	10.20	28.56
USGS03461230	CANEY CREEK NEAR COS	06010106	1.62	-
USGS03461260	CANEY CREEK AT COSBY	06010106	5.22	-
USGS03461266	GREENBRIER CREEK AT	06010106	4.96	-
USGS03469110	RAMSEY CREEK NEAR PI	06010107	2.18	-
USGS03497300	LITTLE RIVER ABOVE T	06010201	106.00	293.75
USGS03510815	MINGUS CREEK AT RAVE	06010203	4.70	-
USGS03511000	OCONALUFTEE RIVER AT	06010203	3100.00	382.57
USGS03513410	JENKINS BRANCH TRIB	06010203	46.00	-
USGS03513500	NOLAND CREEK NEAR BR	06010202	1380.00	44.59
USGS03514000	HAZEL CREEK AT PROCT	06010202	4440.00	128.64
USGS03514500	FONTANA L AT FONTANA	06010202	1571.00	-
USGS03517900	CALDERWOOD L AT CALD	06010204	1856.00	-
USGS03518000	LITTLE TENNESSEE RIV	06010204	6200.00	4317.26
USNWS353830083300001	GATLNBRG CHMN TENN O	06010107	-	-
USNWS354130083320001	GATLNBG PK HQ TENN O	06010107	-	-
USNWS354230083310001	GATLINBURG TENN ON W	06010107	-	-
USTVA352706083481601	LITTLE TENN R AT FON	06010202	1571.00	-
USTVA352709083481701	LITTLE TENN R AT FON	06010202	1571.00	-

REPRESENTATIVE MEAN ANNUAL HYDROGRAPH FOR SEASONAL ANALYSIS

GREAT SMOKY MOUNTAINS NATIONAL PARK
Jonathan Creek near Cove Creek, NC
03459000, 44 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 Great Smoky Mountains National Park are: Oct. 1 to Mar. 31, and Apr. 1 to Sep. 30.

CONTACTS FOR AGENCY CODES RETRIEVED FOR GRSM

AGENCY	PRIMARY CONTACT NAME	ORGANIZATION	PHONE NUMBER(S)
11EPALES	LAMBOU, VICTOR W.	USEPA	(702)798-2259
131TVAC	WINTERS, KATHY	TENN VALLEY AUTHORITY	(615)751-3752
21NC01WQ	LEE, ELORA	NC DNR & COMMUNITY DEVMNT	(919)733-7015
112WRD	YORKE, TOM	US GEOLOGICAL SURVEY	(703)648-5687
12ELS1	LANDERS, DIXON H.	EPA ENVIRONMENTAL RES LAB	(503)754-4427
12NSS	LANDERS, DIXON H.	EPA ENVIRONMENTAL RES LAB	(503)754-4427
21TNWQ	WIGGINS, GARLAND	TENN DEPT PUBLIC HEALTH	(615)741-6623
11NATDC	HOELMAN, LOUIS	USEPA HQ	(202)260-7050
11BIOACC	KRONER, STEVE	U.S. EPA MDSD	(202)260-4761
1114PEST	DEATRICK, JOHN	USEPA REGION 4	(404)347-2126
1113S000	DEATRICK, JOHN	USEPA REGION 4	(404)347-2126

Station Period of Record Tabulation
From 08/02/46 To 01/09/95

Station Ident.	Location Description	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
GRSM0001	PANTHER CREEK	84	0	0	84
GRSM0002	STECOAH CREEK	91	0	0	91
GRSM0003	FONTANA RESERVOIR - ABOVE GREASY BRANCH	1654	1654	0	0
GRSM0004	FONTANA LAKE	305	0	0	305
GRSM0005	FONTANA RESERVOIR	397	363	0	34
GRSM0006	FONTANA RESERVOIR	889	0	889	0
GRSM0007	FONTANA LAKE NR ALMONDS NC INACT-790713	504	0	466	38
GRSM0008	FONTANA RESERVOIR	1290	0	1192	98
GRSM0009	TUCKASEGEE RIVER AT BRYSON CITY	7253	3191	3873	189
GRSM0010	TUCKASEGEE RIVER AT BRYSON CITY, N. C.	1622	0	109	1513
GRSM0011	TUCKASEGEE R NEAR BRYSON CITY NC INACT-770713	337	0	22	315
GRSM0012	FONTANA RESERVOIR	5	0	0	5
GRSM0013	FONTANA LAKE BELOW TUCKASEGEE R	1131	231	864	36
GRSM0014	FONTANA LAKE BELOW TUCKASEGEE R	18	18	0	0
GRSM0015	FONTANA LAKE BELOW TUCKASEEGEE R	12	12	0	0
GRSM0016	FONTANA LAKE ABOVE STECOAH CRK	938	226	676	36
GRSM0017	FONTANA LAKE ABOVE STECOAH CRK	18	18	0	0
GRSM0018	FONTANA LAKE ABOVE STECOAH CRK	12	12	0	0
GRSM0019	FONTANA LAKE	318	0	0	318
GRSM0020	FONTANA RESERVOIR - BELOW FORNEY CREEK	1790	1790	0	0
GRSM0021	HEADWATER OF FONTANA DAM	302	0	0	302
GRSM0022	FONTANA LAKE 2MI US HAZEL CK INACT-790731	495	0	459	36
GRSM0023	FONTANA LAKE	320	0	0	320
GRSM0024	FONTANA LAKE @ TUCKASEGEE R @ BRYSON CITY	1071	216	819	36
GRSM0025	FONTANA LK @ TUCKASEGEE R @ BRYSON CITY	18	18	0	0
GRSM0026	FONTANA LAKE @ TUCKASEGEE R @ BRYSON CITY	12	12	0	0
GRSM0027	FONTANA LAKE BELOW HAZEL CRK	1032	230	766	36
GRSM0028	FONTANA LAKE BELOW HAZEL CRK	18	18	0	0
GRSM0029	FONTANA LAKE BELOW HAZEL CRK	12	12	0	0
GRSM0030	FONTANA LAKE	307	0	0	307
GRSM0031	LITTLE TENN R AT NC 28 BL FONTANA DAM N C	118	0	0	118
GRSM0032	LAKE CHEOAH AT NC HWY 28 NR FONTANA VILLAGE NC	61	61	0	0
GRSM0033	LAKE CHEOAH AT NC HWY 28 NR FONTANA VILLAGE NC	4	4	0	0
GRSM0034	LAKE CHEOAH AT NC HWY 28 NEAR FONTANA VILLAGE NC	6	6	0	0
GRSM0035	FONTANA RESERVOIR	191	165	0	26
GRSM0036	CHEOH DAM PENSTOCK	3179	136	1718	1325
GRSM0037	LITTLE TENNESSEE RIVER @ FONTANA INACTIVE 810309	2426	0	1986	440
GRSM0038	LAKE CHEOAH AT POWER LINES NR POWER HOUSE	117	117	0	0
GRSM0039	LAKE CHEOAH AT POWER LINES NR POWER HOUSE	4	4	0	0
GRSM0040	LAKE CHEOAH AT POWER LINES NR POWER HOUSE	12	12	0	0
GRSM0041	CHEOAH RESERVOIR	160	0	160	0
GRSM0042	LAKE CHEOAH NR DAM NR TAPOCO	217	217	0	0
GRSM0043	LAKE CHEOAH NR DAM NR TAPOCO	4	4	0	0
GRSM0044	LAKE CHEOAH NR DAM NR TAPOCO	12	12	0	0
GRSM0045	CALDERWOOD LAKE NR DAM	211	211	0	0
GRSM0046	CALDERWOOD LAKE NR DAM	4	4	0	0
GRSM0047	CALDERWOOD LAKE NR DAM	12	12	0	0
GRSM0048	SANTEETLAH POWERHOUSE TAILRACE	1825	208	917	700
GRSM0049	SANTEETLAH POWERHOUSE TAILRACE	0	0	0	0
GRSM0050	FONTANA LAKE	26	0	26	0
GRSM0051	LITTLE TENNESSEE	89	0	0	89
GRSM0052	LAKE CHEOAH	26	0	26	0
GRSM0053	SANTEETLAH RESERVOIR	26	0	0	26
GRSM0054		684	0	684	0
GRSM0055	LITTLE TENNESSEE RIVER AT TAPOCO NC	5395	775	4181	439
GRSM0056	LITTLE TENNESSEE RIVER AT TAPOCO N C	345	0	0	345
GRSM0057	FONTANA DAM SCROLL CASE	4583	407	2150	2026
GRSM0058	FONTANA DAM SCROLL CASE	0	0	0	0
GRSM0059	LITTLE TENNESSEE R BELOW TAPOCO INACT-741127	138	0	0	138
GRSM0060	FONTANA LAKE	397	0	0	397
GRSM0061	FONTANA RESERVOIR	857	676	181	0
GRSM0062	FONTANA DAM TAILRACE	0	0	0	0
GRSM0063	FONTANA LAKE AT FONTANA DAM INACT-790716	716	235	445	36
GRSM0064	FONTANA LAKE AT FONTANA DAM	18	18	0	0
GRSM0065	FONTANA LAKE AT FONTANA DAM	12	12	0	0
GRSM0066	CALDERWOOD LAKE NR SLICKROCK CREEK	146	146	0	0
GRSM0067	CALDERWOOD LAKE NR SLICKROCK CREEK	4	4	0	0
GRSM0068	CALDERWOOD LAKE NR SLICKROCK CREEK	12	12	0	0
GRSM0069	FONTANA RESERVOIR	4922	3666	1256	0
GRSM0070	OCONALUFTEE RIVER NR CHEROKEE NC INACT-750129	372	0	71	301
GRSM0071	TWENTYMILE CREEK	108	108	0	0

Station Period of Record Tabulation
From 08/02/46 To 01/09/95

Station Ident.	Location Description	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
GRSM0072	TRIB. TO UNNAMED TRIB. 0.16 TO LITTLE TN R 55.15	614	481	133	0
GRSM0073	OCONALUFTEE RIVER AT CHEROKEE NC INACT-750129	352	0	53	299
GRSM0074	NOLAND CREEK NEAR BRYSON CITY, N. C.	159	0	0	159
GRSM0075	CALDERWOOD RESERVOIR	40	40	0	0
GRSM0076	PARSON BR NR CALDERWOOD TENN	26	0	0	26
GRSM0077	CALDERWOOD DAM RESERVOIR SIDE	168	0	168	0
GRSM0078	CALDERWOOD POWERHOUSE PENSTOCK	3886	0	2197	1689
GRSM0079	LITTLE TENNESSEE RIVER AT CALDERWOOD POWERHOUSE	9	0	9	0
GRSM0080	CALDERWOOD LAKE	26	0	26	0
GRSM0081	EAGLE CREEK	108	108	0	0
GRSM0082	CHILHOWEE RESERVOIR	11	11	0	0
GRSM0083	CHILHOWEE RESERVOIR	70	70	0	0
GRSM0084		262	0	0	262
GRSM0085	STRAIGHT FORK CK @ SR1368 @RAVENSFORD IN-750224	259	0	71	188
GRSM0086	FORNEY CREEK	108	108	0	0
GRSM0087	BRIDGE 100 FEET ABOVE MOUTH OF INDIAN CREEK	546	0	0	546
GRSM0088	OCONALUFTEE R @SR1368 N RAVENSFORD INACT-750224	211	0	40	171
GRSM0089	RICHLAND CREEK	91	0	0	91
GRSM0090	UNNAMED STREAM	89	0	0	89
GRSM0091	MINGUS CREEK AT RAVENSFORD	123	0	78	45
GRSM0092	RICHLAND CREEK	90	0	0	90
GRSM0093	FACTORY BRANCH	91	0	0	91
GRSM0094	TRIBUTARY TO RAVEN FORK 7.43	38	0	38	0
GRSM0095	FORNEY CREEK	27	27	0	0
GRSM0096	CHILHOWEE RESERVOIR	55	55	0	0
GRSM0097	CHILHOWEE RESERVOIR	26	0	0	26
GRSM0098	TRIBUTARY TO RAVEN FORK 7.43	7	0	7	0
GRSM0099	BUNCHES CREEK	54	54	0	0
GRSM0100	EAGLE CREEK	27	27	0	0
GRSM0101	STRAIGHT FORK CK BELOW RAVEN FORK INACT-750224	251	0	71	180
GRSM0102	BRIDGE AT SMOKEMONT CAMPGROUND	266	0	0	266
GRSM0103	CHILHOWEE RESERVOIR @ ABRAMS CREEK	75	75	0	0
GRSM0104	CHILHOWEE RESERVOIR - MOUTH OF ABRAMS CREEK	26	26	0	0
GRSM0105	ROAD CROSSING 0.5 MILE SW OF STRAIGHT FK MOUTH	297	0	0	297
GRSM0106	BUNCHES CREEK	108	108	0	0
GRSM0107	FORGE CREEK NEAR CADES COVE, TENN	26	0	0	26
GRSM0108	TRIBUTARY TO RAVEN FORK 7.43	37	0	37	0
GRSM0109	OCONALUFTEE R @US441 NR SMOKEMONT INACT-750224	259	0	71	188
GRSM0110	TRIBUTARY TO RAVEN FORK 8.38	85	0	85	0
GRSM0111	TRIBUTARY TO OCONOLUFTEE RIVER 10.26	57	0	57	0
GRSM0112	TRIBUTARY TO OCONALUFTEE RIVER 10.26	4784	0	4784	0
GRSM0113	TRIBUTARY TO OCONALUFTEE RIVER 10.26	2051	0	2051	0
GRSM0114	CHILHOWEE RESERVOIR	75	75	0	0
GRSM0115	TRIBUTARY TO RAVEN FORK 8.38	35	0	35	0
GRSM0116	TRIBUTARY TO RAVEN FORK 8.38	1520	0	1520	0
GRSM0117	CHILHOWEE RESERVOIR	75	75	0	0
GRSM0118	CHILHOWEE RESERVOIR	74	74	0	0
GRSM0119	CHILHOWEE RESERVOIR	81	81	0	0
GRSM0120	ABRAMS CR BELOW CADES COVE TENN	27	0	0	27
GRSM0121	CHILHOWEE RESERVOIR	80	80	0	0
GRSM0122	CHILHOWEE RESERVOIR	74	74	0	0
GRSM0123	CHILHOWEE RESERVOIR	0	0	0	0
GRSM0124	CHILHOWEE RESERVOIR	0	0	0	0
GRSM0125	GOSHEN PRONG AB ELKMONT	16	16	0	0
GRSM0126	LAKE HARTWELL	169	0	0	169
GRSM0127	CHILHOWEE RESERVOIR	92	92	0	0
GRSM0128	CHILHOWEE RESERVOIR	103	103	0	0
GRSM0129	SLIDE HOLLOW AB ELKMONT	16	16	0	0
GRSM0130	CHILHOWEE RESERVOIR	40	40	0	0
GRSM0131	CHILHOWEE RESERVOIR	72	72	0	0
GRSM0132	ROUGH FORK NR NELLIE	16	16	0	0
GRSM0133	CHILHOWEE RESERVOIR	69	69	0	0
GRSM0134	TRIBUTARY TO RAVEN FORK 8.38	45	0	45	0
GRSM0135	SAMS CR AB TOWNSEND	16	16	0	0
GRSM0136	ABOVE ENLOE CREEK	22	0	22	0
GRSM0137	TRIBUTARY TO OCONOLUFTEE RIVER 10.26	101	0	101	0
GRSM0138	TRIBUTARY TO RAVEN FORK 12.50	85	0	85	0
GRSM0139	TRIBUTARY TO UNNAMED TRIB. 0.17 TO RAVEN F 13.19	38	0	38	0
GRSM0140	LAUREL CR AB TOWNSEND	16	16	0	0
GRSM0141	TRIBUTARY TO ENLOE CREEK 0.62	6	0	6	0
GRSM0142	TRIBUTARY TO RAVEN FORK 12.50	32	0	32	0

Station Period of Record Tabulation
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GRSM0143	TRIBUTARY TO RAVEN FORK 13.19	38	0	38	0
GRSM0144	LYNN CAMP PRONG NR BLANKET MT TENN	26	0	0	26
GRSM0145	TRIBUTARY TO RAVEN FORK 13.49	38	0	38	0
GRSM0146	TRIBUTARY TO RAVEN FORK 12.5	38	0	38	0
GRSM0147	FISH CAMP PRONG AB ELKMONT	18	18	0	0
GRSM0148	TRIBUTARY TO ENLOE CREEK 1.38	38	0	38	0
GRSM0149	LITTLE R AB FISH CAMP PRONG AB ELKMONT	18	18	0	0
GRSM0150	TRIBUTARY TO RAVEN FORK 8.38	38	0	38	0
GRSM0151	ROUGHFORK CK NR CATALOOCHEE NC INACT-791024	78	0	78	0
GRSM0152	LITTLE RIVER	27	27	0	0
GRSM0153	WEST PRONG AB LAUREL CR AB TOWNSEND	16	16	0	0
GRSM0154	CALDWELL FORK NR NELLIE	16	16	0	0
GRSM0155	PALMER CK @ SR1164 NR CATALOOCHEE INACT-791024	78	0	78	0
GRSM0156	PALMER CR AT NELLIE	16	16	0	0
GRSM0157	CALABASH CK 1.2 MI US SR1164 INACT-791024	86	0	86	0
GRSM0158	PALMER CR AT CAMPGROUND NR NELLIE	16	16	0	0
GRSM0159	LOWER DOUBLE BRANCH NR NELLIE	16	16	0	0
GRSM0160	TRIBUTARY TO RAVEN FORK 13.49	38	0	38	0
GRSM0161	W P LT PIGEON R NR MT LE CONTE TN	26	0	0	26
GRSM0162	PALMER CR AB PRETTY HOLLOW NR NELLIE	16	16	0	0
GRSM0163	TRIBUTARY TO RIGHT FORK 1.03	76	0	76	0
GRSM0164	MI PR LITTLE R AT WALKER FIELDS NR TOWNSEND T	27	0	0	27
GRSM0165	PRETTY HOLLOW NR NELLIE	16	16	0	0
GRSM0166	TRIBUTARY TO RIGHT FORK 1.03	7	0	7	0
GRSM0167	TRIBUTARY TO RAVEN FORK 16.74 ABOVE RAPID CREEK	39	0	39	0
GRSM0168	TRIBUTARY TO RIGHT FORK 0.56	38	0	38	0
GRSM0169	TRIBUTARY TO RAVEN FORK 16.74	7	0	7	0
GRSM0170	JAKES CR NR ELKMONT	16	16	0	0
GRSM0171	W PRONG LITTLE PIGEON R 7.7 QUAD 156SE	44	0	44	0
GRSM0172	WINDING STAIR BRANCH NR NELLIE	16	16	0	0
GRSM0173	TRIBUTARY TO ENLOE CREEK 4.91	44	0	44	0
GRSM0174	LITTLE R AB ELKMONT	18	18	0	0
GRSM0175	TRIBUTARY TO ENLOE CREEK 5.35	63	0	63	0
GRSM0176	MEADOW BRANCH AB TOWNSEND	16	16	0	0
GRSM0177	LAKE IN THE SKY	26	0	26	0
GRSM0178	LITTLE R AT ELKMONT TENN	26	0	0	26
GRSM0179	WEST PRONG AB TOWNSEND	16	16	0	0
GRSM0180	MIDDLE PRONG AB TOWNSEND	16	16	0	0
GRSM0181	NEAR LRM 35.6/THE WYE/SMOKEY MT PARK/QUAD 157NW	0	0	0	0
GRSM0182	LITTLE R. AB TOWNSEND	2901	1993	274	634
GRSM0183	LITTLE R BLW ELKMONT	18	18	0	0
GRSM0184	CATALOOCHEE CREEK NEAR CATALOOCHEE N C	8205	2124	3720	2361
GRSM0185	CATALOOCHEE CREEK NEAR CATALOOCHEE NC	9286	2882	5069	1335
GRSM0186	COMPUTED VALUES CATALOOCHEE CR N	35	0	35	0
GRSM0187	CATALOOCHEE CREEK NR CATALOOCHEE	0	0	0	0
GRSM0188	CATTALOOCHEE CREEK @ CATTALOOCHEE	101	0	101	0
GRSM0189	LITTLE CATALOOCHEE CK NR CATALOOCHEE INA-791024	84	0	84	0
GRSM0190	LITTLE RIVER	108	108	0	0
GRSM0191	LAUREL LAKE	26	0	26	0
GRSM0192	W PRONG LITTLE PIGEON R 21.9 QUAD 157NE	54	0	54	0
GRSM0193	AT WHITE OAK CREEK	378	0	378	0
GRSM0194	CORRELL BRANCH	108	108	0	0
GRSM0195	FALSE GAP PRONG	27	27	0	0
GRSM0196	LITTLE RIVER AT KINZEL SPRINGS, TN	25	25	0	0
GRSM0197	WATERVILLE LAKE @ MOUTH OF WILKINS CREEK	155	155	0	0
GRSM0198	WATERVILLE LAKE @ MOUTH OF WILKINS CREEK	3	3	0	0
GRSM0199	WATERVILLE LAKE @ MOUTH OF WILKINS CREEK	11	11	0	0
GRSM0200	WALTERS LAKE	500	0	500	0
GRSM0201	TRIBUTARY TO PIGEON RIVER 38.05	35	0	35	0
GRSM0202		770	0	127	643
GRSM0203	WATERVILLE LAKE IN CATALOOCHEE CREEK ARM	110	110	0	0
GRSM0204	WATERVILLE LAKE IN CATALOOCHEE CREEK ARM	3	3	0	0
GRSM0205	WATERVILLE LAKE IN CATALOOCHEE CREEK ARM	11	11	0	0
GRSM0206	CORRELL BRANCH	27	27	0	0
GRSM0207	TRIBUTARY TO PIGEON RIVER 38.05	56	0	56	0
GRSM0208	WALTERS LAKE	26	0	26	0
GRSM0209	MOUTH AT PIGEON RIVER 38.05	406	0	406	0
GRSM0210	WATERVILLE LAKE AT DAM NR HEPCO NC	187	187	0	0
GRSM0211	WATERVILLE LAKE AT DAM NR HEPCO NC	3	3	0	0
GRSM0212	WATERVILLE LAKE AT DAM NR HEPCO NC	11	11	0	0
GRSM0213	FALSE GAP PRONG	108	108	0	0

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Station Ident.	Location Description		Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
GRSM0214	SV:E-11, GATLINBURG, TN (GAT-5)		49	0	49	0
GRSM0215	OWNBY STREET BRIDGE 0.2 MILE ABOVE LE CONTE CR.		272	0	59	213
GRSM0216	SV:E-5,GATLINBURG,TN.(GAT-9)		50	0	50	0
GRSM0217	SV:E-2,GATLINBURG,TN.(GAT-6)		51	0	51	0
GRSM0218	W PRONG LITTLE PIGEON R 16.35	QUAD 157NE	61	0	61	0
GRSM0219	W PRONG LITTLE PIGEON R 16.4	QUAD 157NE	62	0	62	0
GRSM0220	COVE CREEK AT HATCHERTOWN, TN		29	15	14	0
GRSM0221	DUDLEY CR NR GATLINBURG TENN		26	0	0	26
GRSM0222	ABOVE SEWAGE DISPOSAL PLANT		436	0	61	375
GRSM0223	WP L PIGEON R AT GATLINBURG TENN		90	0	0	90
GRSM0224	LITTLE PIGEON R 25.4	QUAD 165NW	0	0	0	0
GRSM0225	WALDEN CREEK 3.4	QUAD 156SE	53	0	53	0
GRSM0226	LITTLE PIGEON R 25.5	QUAD 165NW	36	0	36	0
GRSM0227	LITTLE PIGEON R NR PITTMAN CENTER TENN		26	0	0	26
GRSM0228	NORTON BRANCH 0.0	QUAD 157NE	9	0	9	0
GRSM0229	TRIBUTARY TO PIGEON RIVER 13.6		1316	468	848	0
GRSM0230	PIGEON RIVER EXPOSURE RISK STUDY		252	0	252	0
GRSM0231	PIGEON RIVER EXPOSURE RISK STUDY		95	0	95	0
GRSM0232	LITTLE PIGEON R 23.0	QUAD 164SW	0	0	0	0
GRSM0233	WEBB CR 2.5	QUAD 164SE	0	0	0	0
GRSM0234	WEBB CR 0.0	QUAD 164SW	61	0	61	0
GRSM0235	WEBB CR 0.06	QUAD 164SW	0	0	0	0
GRSM0236	WEBB CR 2.3	QUAD 164SE	71	0	71	0
GRSM0237	COSBY CREEK		108	108	0	0
GRSM0238	WEBB CREEK NR PITTMAN CENTER, TN		3	0	3	0
GRSM0239	WEBB CR 3.6	QUAD 164SW	71	0	71	0
GRSM0240	COSBY CR NR BLUFFTON TENN		26	0	0	26
GRSM0241	WEBB CR 5.7	QUAD 164SE	0	0	0	0
GRSM0242	BELOW GNATTY BRANCH		12	0	0	12
GRSM0243	W PRONG LITTLE PIGEON R 12.5	QUAD 156SE	0	0	0	0
GRSM0244	PIGEON RIVER		440	0	0	440
GRSM0245	PIGEON RIVER 26.0	QUAD 173SE	27	0	27	0
GRSM0246	WATERVILLE LAKE HYDROELEC TUNNEL		70	0	0	70
GRSM0247	WATERVILLE RESERVOIR		241	0	0	241
GRSM0248	BRIDGE SSE OF PIGEON FORGE		209	0	45	164
GRSM0249	PIGEON RIVER AT WATERVILLE N C		1784	0	0	1784
GRSM0250	BR. 1.3 MI. NW OF PITTMAN CENTER		641	4	637	0
GRSM0251	LITTLE PIGEON RIVER AT LAUREL, TN		492	0	492	0
GRSM0252	CRYING CREEK ABOVE COSBY, TN		29	15	14	0
GRSM0253	PIGEON R AT CO HWY NR WATERVILLE		120	0	0	120
GRSM0254	COSBY CREEK ABOVE COSBY, TN		231	28	203	0
GRSM0255	COSBY CREEK		27	27	0	0
GRSM0256	PIGEON RIVER AT WATERVILLE NC		8353	2805	4411	1137
GRSM0257	WATERVILLE RESERVOIR		163	0	0	163
GRSM0258	BELOW TOBES CREEK - 1.1 MILES NW OF WATERVILLE		245	0	91	154
GRSM0259	COSBY CREEK		108	108	0	0
GRSM0260	GREENBRIER CREEK AT COSBY, TN		45	10	35	0
GRSM0261	PIGEON RIVER		242	0	0	242
GRSM0262	BRIDGE NEAR HARTFORD		432	0	432	0
GRSM0263			2	0	0	2
GRSM0264	PIGEON R 20.4 @ N.C. LIGHT/PWR DISCH	QUAD 173SW	2014	1488	526	0
GRSM0265	NORTH OF DENTON		15	15	0	0

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
00002	X-SEC. LOC., HORIZ (% FROM R BANK LOOK UPSTR.)	3182	1339	1493	350
00003	SAMPLING STATION LOCATION, VERTICAL (FEET)	3990	2053	1568	369
00004	STREAM WIDTH (FEET)	204	198	6	0
00008	NUMBER USED IN SAMPLE ACCOUNTING PROCEDURE	1011	298	349	364
00009	X-SEC. LOC.(FT FROM LEFT BANK LOOKING DOWNSTRM)	23	23	0	0
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	9191	2408	4193	2590
00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)	3	3	0	0
00019	SAMPLE WEIGHT IN GRAMS	84	84	0	0
00020	TEMPERATURE, AIR (DEGREES CENTIGRADE)	529	324	174	31
00023	SAMPLE WEIGHT IN POUNDS	96	0	17	79
00025	BAROMETRIC PRESSURE (MM OF HG)	81	72	9	0
00027	CODE NO FOR AGENCY COLLECTING SAMPLE-SEE APPEND.	273	153	116	4
00028	CODE NO FOR AGENCY ANALYZING SAMPLE (SEE APPEND)	329	153	123	53
00032	CLOUD COVER (PERCENT)	1148	292	682	174
00035	WIND VELOCITY (MILES PER HOUR)	160	160	0	0
00036	WIND DIRECTION IN DEGREES FROM TRUE N (CLOCKWISE)	813	153	509	151
00037	WIND FORCE (BEAUFORT UNITS)	931	85	671	175
00039	SAMPLE LENGTH IN MILLIMETERS	84	84	0	0
00042	ALTITUDE IN FEET ABOVE MEAN SEA LEVEL	1	0	1	0
00045	PRECIPITATION, TOTAL (INCHES PER DAY)	1124	279	669	176
00049	SURFACE AREA IN SQUARE MILES	105	0	0	105
00059	FLOW, RATE, INSTANTANEOUS GALLONS/MIN	3	0	3	0
00060	FLOW, STREAM, MEAN DAILY CFS	388	7	23	358
00061	FLOW, STREAM, INSTANTANEOUS CFS	3915	588	2368	959
00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET	7	7	0	0
00063	SAMPLING POINTS, NUMBER OF IN A CROSS SECTION	16	0	16	0
00064	DEPTH OF STREAM, MEAN (FT)	248	242	6	0
00065	STAGE, STREAM (FEET)	1031	245	696	90
00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	6	6	0	0
00070	TURBIDITY, (JACKSON CANDLE UNITS)	430	1	241	188
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	173	0	0	173
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	903	337	453	113
00077	TRANSPARENCY, SECCHI DISC (INCHES)	39	6	8	25
00078	TRANSPARENCY, SECCHI DISC (METERS)	189	66	115	8
00080	COLOR (PLATINUM-COBALT UNITS)	1014	192	355	467
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	364	57	200	107
00082	COLOR,SPECTROPHOTO,WATER SMPL AT7.6PH ADMI UNITS	43	43	0	0
00083	COLOR,SPECTROPHTOMETRIC,FIL,WATER SPL ADMI UNITS	45	45	0	0
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	26	0	0	26
00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	109	0	109	0
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	2436	1830	506	100
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	2957	291	2060	606
00098	SAMPLING STATION LOCATION VERTICAL (METERS)	941	83	858	0
00115	SAMPLE TREATMENT CODE (1=RAW,2=TREATED)	1	1	0	0
00117	PRECIPITATION,DURATION OF STORM EVENT, MINUTES	6	0	6	0
00123	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.1(IN)	328	0	328	0
00132	DRY DAYS PRECEDING PRECIPITATION EVENT,(DAYS)	5	0	5	0
00134	STORM EVENT SERIAL NUMBER MAXIMUM OF 6 SIG.FIG.	92	0	92	0
00154	SULFATE (AS S) WHOLE WATER, MG/L	6	0	6	0
00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	9	9	0	0
00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	44	44	0	0
00300	OXYGEN, DISSOLVED MG/L	8459	2327	3684	2448
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	600	27	378	195
00303	BOD, 1DAY, 20 DEG C MG/L	14	0	14	0
00304	BOD, 2 DAY, 20 DEG C MG/L	14	0	14	0
00305	BOD, 3 DAY, 20 DEG C MG/L	14	0	14	0
00306	BOD, 4 DAY, 20 DEG C MG/L	14	0	14	0
00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	26	0	13	13
00310	BOD, 5 DAY, 20 DEG C MG/L	1430	212	786	432
00312	BOD, 6 DAY, 20 DEG C MG/L	14	0	14	0
00315	BOD, 7 DAY, 20 DEG C MG/L	14	0	14	0
00316	BOD, 8 DAY, 20 DEG C MG/L	13	0	13	0
00317	BOD, 9 DAY, 20 DEG C MG/L	9	0	9	0
00322	BOD, 10 DAY, 20 DEG C MG/L	14	0	14	0
00323	BOD, 15 DAY, 20 DEG C MG/L	6	0	6	0
00324	BOD, 20 DAY, 20 DEG C MG/L	39	13	26	0
00326	BOD, 28 DAY, 20 DEG C MG,L	4	0	2	2
00327	BOD, 11DAY, 20 DEG C MG/L	12	0	12	0
00328	BOD, 12 DAY, 20 DEG C MG/L	4	0	4	0
00329	BOD, 13 DAY, 20 DEG C MG/L	12	0	12	0
00331	BOD, 16 DAY, 20 DEG C MG/L	1	0	1	0

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name		Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
00332	BOD, 17 DAYS, 20 DEG C	MG/L	1	0	1	0
00333	BOD, 18 DAY, 20 DEG C	MG/L	12	0	12	0
00334	BOD, 19 DAY, 20 DEG C	MG/L	2	0	2	0
00335	COD, .025N K2CR2O7	MG/L	531	54	377	100
00336	BOD, 22 DAY, 20 DEG C	MG/L	12	0	12	0
00337	BOD, 23 DAY, 20 DEG C	MG/L	1	0	1	0
00338	BOD, 24 DAY, 20 DEG C	MG/L	1	0	1	0
00339	COD, BOTTOM DEPOSITS, DRY WEIGHT	MG/KG	3	0	0	3
00340	COD, .25N K2CR2O7	MG/L	500	0	416	84
00345	BOD, 25 DAY, 20 DEG C	MG/L	12	0	12	0
00346	BOD, 26 DAY, 20 DEG C	MG/L	2	0	2	0
00347	BOD, 27 DAY, 20 DEG C	MG/L	12	0	12	0
00348	BOD, 29 DAY, 20 DEG C	MG/L	12	0	12	0
00349	BOD, 30 DAY, 20 DEG C	MG/L	1	0	1	0
00350	BOD, 14 DAY, 20 DEG C	MG/L	2	0	2	0
00351	BOD, 21 DAY, 20 DEG C	MG/L	2	0	2	0
00352	BOD, 35 DAY, 20 DEG C	MG/L	1	0	1	0
00353	BOD, 42 DAY, 20 DEG C	MG/L	13	0	13	0
00354	BOD, 49 DAY, 20 DEG C	MG	1	0	1	0
00355	BOD, 56 DAY, 20 DEG C	MG/L	1	0	1	0
00356	BOD, 63 DAY, 20 DEG C	MG/L	14	0	14	0
00357	BOD, 70 DAY, 20 DEG C	MG/L	14	0	14	0
00358	BOD, 77 DAY, 20 DEG C	MG/L	14	0	14	0
00361	BOD, 98 DAY, 20 DEG C	MG/L	14	0	14	0
00362	BOD, 40 DAY, 20 DEG C	MG/L	2	0	2	0
00363	BOD, 50 DAY, 20 DEG C	MG/L	10	0	10	0
00364	BOD, 100 DAY, 20 DEG C	MG/L	14	0	14	0
00400	PH (STANDARD UNITS)		5598	1946	2725	927
00403	PH, LAB, STANDARD UNITS	SU	1017	420	582	15
00405	CARBON DIOXIDE (MG/L AS CO2)		79	0	55	24
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	50	44	6	0
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		2282	322	1180	780
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		1144	4	741	399
00418	ALKALINITY,CARBONATE,INCREMENTAL TIT.USGS LAB	MG/L	6	6	0	0
00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD	MG/L	4	4	0	0
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)		7	0	7	0
00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)		420	222	198	0
00435	ACIDITY, TOTAL (MG/L AS CACO3)		31	10	13	8
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)		7	1	1	5
00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)		15	0	0	15
00440	BICARBONATE ION (MG/L AS HCO3)		363	48	63	252
00445	CARBONATE ION (MG/L AS CO3)		146	0	50	96
00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELD	MG/L	4	4	0	0
00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3,	MG/L	12	12	0	0
00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,	MG/L	39	39	0	0
00480	SALINITY - PARTS PER THOUSAND		2	2	0	0
00500	RESIDUE, TOTAL (MG/L)		812	264	411	137
00505	RESIDUE, TOTAL VOLATILE (MG/L)		225	5	182	38
00510	RESIDUE, TOTAL FIXED (MG/L)		225	5	182	38
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),	MG/L	194	58	30	106
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)		24	0	7	17
00525	RESIDUE, FIXED FILTRABLE (MG/L)		15	0	0	15
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)		1366	442	757	167
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)		223	5	185	33
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)		220	5	182	33
00546	RESIDUE, SETTLEABLE (MG/L)		1	0	0	1
00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)		22	0	19	3
00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)		22	0	19	3
00600	NITROGEN, TOTAL (MG/L AS N)		69	0	45	24
00602	NITROGEN, DISSOLVED (MG/L AS N)		12	0	12	0
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)		455	19	283	153
00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)		41	0	32	9
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		138	72	44	22
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		1787	420	944	423
00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)		3	0	3	0
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)		82	69	0	13
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)		222	22	19	181
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)		44	23	1	20
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)		201	0	19	182
00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)		45	2	33	10
00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)		38	0	30	8

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	1101	290	513	298
00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	4	0	2	2
00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	3	0	3	0
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	1594	387	850	357
00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	134	72	52	10
00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	7	0	5	2
00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	129	65	64	0
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	137	0	114	23
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	175	34	61	80
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	113	0	61	52
00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	6	0	6	0
00665	PHOSPHORUS, TOTAL (MG/L AS P)	1815	477	855	483
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	245	72	91	82
00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	10	0	5	5
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	429	111	49	269
00677	PHOSPHORUS,HYDROLYZABLE + ORTHO,DIS,AUTOANALYZER	49	0	49	0
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	226	16	193	17
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	249	78	161	10
00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	4	0	2	2
00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	7	0	7	0
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	50	44	6	0
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	34	0	24	10
00721	CYANIDE IN BOTTOM DEPOSITS (MG/KG AS CN DRY WGT)	1	0	1	0
00740	SULFITE (MG/L AS SO3)	31	0	11	20
00745	SULFIDE, TOTAL (MG/L AS S)	36	3	2	31
00900	HARDNESS, TOTAL (MG/L AS CACO3)	726	322	146	258
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	294	4	47	243
00910	CALCIUM (MG/L AS CACO3)	21	0	6	15
00915	CALCIUM, DISSOLVED (MG/L AS CA)	513	172	98	243
00916	CALCIUM, TOTAL (MG/L AS CA)	473	9	341	123
00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	5	4	1	0
00920	MAGNESIUM (MG/L AS CACO3)	15	0	0	15
00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	9	5	4	0
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	519	172	104	243
00927	MAGNESIUM, TOTAL (MG/L AS MG)	484	9	336	139
00929	SODIUM, TOTAL (MG/L AS NA)	468	8	328	132
00930	SODIUM, DISSOLVED (MG/L AS NA)	519	172	104	243
00931	SODIUM ADSORPTION RATIO	148	4	47	97
00932	SODIUM, PERCENT	148	4	47	97
00933	SODIUM,PLUS POTASSIUM (MG/L)	3	0	3	0
00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	1	0	1	0
00935	POTASSIUM, DISSOLVED (MG/L AS K)	519	172	104	243
00937	POTASSIUM, TOTAL MG/L AS K)	456	6	318	132
00940	CHLORIDE,TOTAL IN WATER MG/L	940	98	407	435
00941	CHLORIDE, DISSOLVED IN WATER MG/L	50	44	6	0
00945	SULFATE, TOTAL (MG/L AS SO4)	976	137	433	406
00946	SULFATE, DISSOLVED (MG/L AS SO4)	124	80	44	0
00950	FLUORIDE, DISSOLVED (MG/L AS F)	629	172	217	240
00951	FLUORIDE, TOTAL (MG/L AS F)	263	0	161	102
00955	SILICA, DISSOLVED (MG/L AS SIO2)	664	138	269	257
00956	SILICA, TOTAL (MG/L AS SIO2)	228	0	104	124
01000	ARSENIC, DISSOLVED (UG/L AS AS)	99	37	26	36
01001	ARSENIC, SUSPENDED (UG/L AS AS)	17	0	7	10
01002	ARSENIC, TOTAL (UG/L AS AS)	520	237	254	29
01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	28	1	22	5
01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	24	11	13	0
01005	BARIUM, DISSOLVED (UG/L AS BA)	67	57	10	0
01006	BARIUM, SUSPENDED (UG/L AS BA)	4	0	4	0
01007	BARIUM, TOTAL (UG/L AS BA)	35	0	29	6
01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	4	0	1	3
01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	47	37	10	0
01012	BERYLLIUM, TOTAL (UG/L AS BE)	21	2	15	4
01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	4	0	1	3
01022	BORON, TOTAL (UG/L AS B)	6	0	3	3
01025	CADMIUM, DISSOLVED (UG/L AS CD)	63	37	11	15
01026	CADMIUM, SUSPENDED (UG/L AS CD)	15	0	5	10
01027	CADMIUM, TOTAL (UG/L AS CD)	596	244	329	23
01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	32	5	22	5
01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	34	5	24	5
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	124	37	46	41
01031	CHROMIUM, SUSPEND (UG/L AS CR)	33	0	23	10

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	5	0	4	1
01034	CHROMIUM, TOTAL (UG/L AS CR)	525	199	295	31
01035	COBALT, DISSOLVED (UG/L AS CO)	80	57	11	12
01036	COBALT, SUSPENDED (UG/L AS CO)	11	0	0	11
01037	COBALT, TOTAL (UG/L AS CO)	201	3	179	19
01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	7	0	2	5
01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	5	0	5	0
01040	COPPER, DISSOLVED (UG/L AS CU)	131	37	47	47
01041	COPPER, SUSPENDED (UG/L AS CU)	31	0	21	10
01042	COPPER, TOTAL (UG/L AS CU)	677	244	380	53
01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	29	5	19	5
01044	IRON, SUSPENDED (UG/L AS FE)	8	0	8	0
01045	IRON, TOTAL (UG/L AS FE)	980	147	556	277
01046	IRON, DISSOLVED (UG/L AS FE)	328	80	106	142
01047	IRON, FERROUS (UG/L AS FE)	82	0	3	79
01049	LEAD, DISSOLVED (UG/L AS PB)	84	37	30	17
01050	LEAD, SUSPENDED (UG/L AS PB)	32	0	22	10
01051	LEAD, TOTAL (UG/L AS PB)	616	243	343	30
01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	34	5	24	5
01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	11	4	2	5
01054	MANGANESE, SUSPENDED (UG/L AS MN)	13	0	3	10
01055	MANGANESE, TOTAL (UG/L AS MN)	801	92	535	174
01056	MANGANESE, DISSOLVED (UG/L AS MN)	300	124	93	83
01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	67	57	10	0
01061	MOLYBDENUM, SUSPENDED (UG/L AS MO)	1	0	1	0
01062	MOLYBDENUM, TOTAL (UG/L AS MO)	4	0	4	0
01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	4	0	1	3
01065	NICKEL, DISSOLVED (UG/L AS NI)	69	57	5	7
01067	NICKEL, TOTAL (UG/L AS NI)	392	198	177	17
01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	22	5	14	3
01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	24	6	18	0
01073	THALLIUM,TISSUE,WET WEIGHT,MG/KG	6	6	0	0
01075	SILVER, DISSOLVED (UG/L AS AG)	111	57	27	27
01076	SILVER, SUSPENDED (UG/L AS AG)	5	0	5	0
01077	SILVER, TOTAL (UG/L AS AG)	40	2	33	5
01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	4	0	1	3
01080	STRONTIUM, DISSOLVED (UG/L AS SR)	73	57	11	5
01082	STRONTIUM, TOTAL (UG/L AS SR)	1	0	1	0
01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	4	0	1	3
01085	VANADIUM, DISSOLVED (UG/L AS V)	67	57	10	0
01087	VANADIUM, TOTAL (UG/L AS V)	3	0	3	0
01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	4	0	1	3
01090	ZINC, DISSOLVED (UG/L AS ZN)	112	37	32	43
01091	ZINC, SUSPENDED (UG/L ZN)	30	0	20	10
01092	ZINC, TOTAL (UG/L AS ZN)	719	243	426	50
01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	26	5	16	5
01097	ANTIMONY, TOTAL (UG/L AS SB)	2	0	2	0
01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	4	0	1	3
01099	ANTIMONY,TISSUE,WET WEIGHT,MG/KG	7	6	0	1
01102	TIN, TOTAL (UG/L AS SN)	2	0	2	0
01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	4	0	1	3
01105	ALUMINUM, TOTAL (UG/L AS AL)	546	252	282	12
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	234	119	108	7
01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	12	5	4	3
01130	LITHIUM, DISSOLVED (UG/L AS LI)	71	57	10	4
01132	LITHIUM, TOTAL (UG/L AS LI)	63	2	30	31
01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	3	0	0	3
01145	SELENIUM, DISSOLVED (UG/L AS SE)	67	57	10	0
01146	SELENIUM, SUSPENDED (UG/L AS SE)	5	0	5	0
01147	SELENIUM, TOTAL (UG/L AS SE)	27	2	22	3
01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	4	0	1	3
01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	11	11	0	0
01152	TITANIUM, TOTAL (UG/L AS TI)	16	0	12	4
01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	1	0	1	0
01162	ZIRCONIUM, TOTAL (UG/L AS ZR)	1	0	1	0
01163	ZIRCONIUM IN BOTTOM DEPOSITS (MG/KG AS ZR DRY WT)	1	0	1	0
01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	13	4	4	5
01203	YTTRIUM, TOTAL (UG/L AS Y)	1	0	1	0
01300	OIL-GREASE (SEVERITY)	733	89	530	114
01305	DETERGENT SUDS (SEVERITY)	758	89	541	128
01315	SLUDGE, FLOATING (SEVERITY)	734	89	530	115

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
01325	ALGAE, FLOATING MATS (SEVERITY)	262	88	174	0
01330	ODOR, ATMOSPHERIC (SEVERITY)	752	89	545	118
01340	FISH, DEAD (SEVERITY)	739	89	530	120
01345	DEBRIS, FLOATING (SEVERITY)	744	89	540	115
01350	TURBIDITY (SEVERITY)	1137	294	669	174
01351	FLOW, STRM,1DRY,2LOW,3NORM,4FLOOD,5ABOVE NORM,CODE	1091	293	643	155
01501	ALPHA, TOTAL	1	0	0	1
01502	ALPHA, TOTAL, COUNTING ERROR	1	0	0	1
01503	ALPHA, DISSOLVED	1	0	0	1
01504	ALPHA, DISSOLVED, COUNTING ERROR	1	0	0	1
01505	ALPHA, SUSPENDED	1	0	0	1
01506	ALPHA, SUSPENDED, COUNTING ERROR	1	0	0	1
01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	8	0	3	5
01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	7	0	2	5
03501	BETA, TOTAL	4	0	0	4
03502	BETA, TOTAL, COUNTING ERROR	1	0	0	1
03503	BETA, DISSOLVED	1	0	0	1
03504	BETA, DISSOLVED, COUNTING ERROR	1	0	0	1
03505	BETA, SUSPENDED	1	0	0	1
03506	BETA, SUSPENDED, COUNTING ERROR	1	0	0	1
03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	41	25	7	9
03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	41	25	7	9
04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	4	4	0	0
04127	ALPHA, SUSPENDED, DRY WEIGHT,SED (AS TH-230) PCI/L	4	4	0	0
09510	RADIUM 226, DISSOLVED, PLANCHET COUNT	2	0	0	2
09511	RADIUM 226, DISSOLVED, RADON METHOD	41	27	7	7
13501	STRONTIUM 90, TOTAL	1	0	0	1
15501	STRONTIUM 89, TOTAL	1	0	0	1
22703	URANIUM, NATURAL, DISSOLVED	25	23	0	2
30344	PENTACHLORODIBENZO-P-DIOXIN,12378,FISH,WET WT,PG/G	3	0	3	0
30345	HEXACHLORODIBENZO-P-DIOXIN,123478,FISH,WET WT,PG/G	3	0	3	0
30346	HEXACHLORODIBENZO-P-DIOXIN,123678,FISH,WET WT,PG/G	3	0	3	0
30347	HEXACHLORODIBENZO-P-DIOXIN,123789,FISH,WET WT,PG/G	3	0	3	0
30348	HEPTACHLORODIBENZO-P-DIOXIN,1234678,TIS,WETWT,PG/G	3	0	3	0
30349	TETRACHLORODIBENZOFURAN, 2378- , FISH,WET WT.,PG/G	3	0	3	0
30350	PENTACHLORODIBENZOFURAN,12378- , FISH,WET WT.,PG/G	3	0	3	0
30351	PENTACHLORODIBENZOFURAN,23478- , FISH,WET WT.,PG/G	3	0	3	0
30352	HEXACHLORODIBENZOFURAN,123478- , FISH,WET WT.,PG/G	3	0	3	0
30353	HEXACHLORODIBENZOFURAN,123678- , FISH,WET WT.,PG/G	3	0	3	0
30354	HEXACHLORODIBENZOFURAN,123789- , FISH,WET WT.,PG/G	3	0	3	0
30355	HEXACHLORODIBENZOFURAN,234678- , FISH,WET WT.,PG/G	3	0	3	0
30356	HEPTACHLORODIBENZOFURAN,1234678- ,FISH,WET WT,PG/G	3	0	3	0
30357	HEPTACHLORODIBENZOFURAN,1234789- ,FISH,WET WT,PG/G	3	0	3	0
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	254	0	94	160
31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	6	0	0	6
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	21	1	12	8
31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	43	0	2	41
31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	90	0	17	73
31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	40	0	0	40
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	1494	263	875	356
31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	113	67	46	0
31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	170	99	70	1
31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	41	20	17	4
32023	ACIDS, STRONG	216	36	180	0
32024	ACIDS, WEAK	216	36	180	0
32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	1	0	1	0
32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	1	0	1	0
32103	1,2-DICHLOROETHANE,WHOLE WATER,UG/L	1	0	1	0
32104	BROMOFORM,WHOLE WATER,UG/L	1	0	1	0
32106	CHLOROFORM,WHOLE WATER,UG/L	2	0	2	0
32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	37	29	8	0
32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	17	0	17	0
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	89	46	28	15
32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	46	46	0	0
32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	34	26	8	0
32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	46	46	0	0
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	58	26	8	24
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	159	46	35	78
32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	12	0	12	0
32240	TANNIN AND LIGNIN (MG/L)	15	0	0	15
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	62	0	46	16

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
32734	PHENOLICS,TISSUE,WET WEIGHT,MG/KG	1	0	1	0
34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	1	0	1	0
34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	1	0	1	0
34200	ACENAPHTHYLENE TOTWUG/L	1	0	1	0
34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	1	0	1	0
34204	ACENAPHTHYLENE WET WGTTISMG/KG	1	0	1	0
34205	ACENAPHTHENE TOTWUG/L	1	0	1	0
34208	ACENAPHTHENE DRY WGTBOTUG/KG	1	0	1	0
34209	ACENAPHTHENE WET WGTTISMG/KG	1	0	1	0
34210	ACROLEIN TOTWUG/L	1	0	1	0
34215	ACRYLONITRILE TOTWUG/L	1	0	1	0
34220	ANTHRACENE TOTWUG/L	1	0	1	0
34223	ANTHRACENE DRY WGTBOTUG/KG	1	0	1	0
34224	ANTHRACENE WET WGTTISMG/KG	1	0	1	0
34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	1	0	1	0
34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	1	0	1	0
34234	BENZO(B)FLUORANTHENE,TISSUE,WET WGT,MG/KG	1	0	1	0
34241	BENZIDINE WET WGTTISMG/KG	1	0	1	0
34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	1	0	1	0
34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	1	0	1	0
34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	1	0	1	0
34247	BENZO-A-PYRENE TOTWUG/L	1	0	1	0
34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	1	0	1	0
34251	BENZO-A-PYRENE WET WGTTISMG/KG	1	0	1	0
34252	BERYLLIUM WET WGTTISMG/KG	7	6	1	0
34257	B-BHC-BETA DRY WGTBOTUG/KG	5	4	1	0
34258	B-BHC-BETA WET WGTTISMG/KG	10	9	1	0
34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	1	0	1	0
34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	5	4	1	0
34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	10	9	1	0
34272	BIS (CHLOROMETHYL) ETHER WET WGTTISMG/KG	1	0	1	0
34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	1	0	1	0
34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	1	0	1	0
34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMG/KG	1	0	1	0
34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	1	0	1	0
34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	1	0	1	0
34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMG/KG	1	0	1	0
34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	1	0	1	0
34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	1	0	1	0
34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMG/KG	1	0	1	0
34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	1	0	1	0
34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	1	0	1	0
34296	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG	1	0	1	0
34301	CHLOROBENZENE TOTWUG/L	1	0	1	0
34306	CHLORODIBROMOMETHANE TOTWUG/L	1	0	1	0
34311	CHLOROETHANE TOTWUG/L	1	0	1	0
34320	CHRYSENE TOTWUG/L	1	0	1	0
34323	CHRYSENE DRY WGTBOTUG/KG	1	0	1	0
34324	CHRYSENE WET WGTTISMG/KG	1	0	1	0
34326	CYANIDE WET WGTTISMG/KG	1	0	1	0
34336	DIETHYL PHTHALATE TOTWUG/L	1	0	1	0
34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	1	0	1	0
34340	DIETHYL PHTHALATE WET WGTTISMG/KG	1	0	1	0
34341	DIMETHYL PHTHALATE TOTWUG/L	1	0	1	0
34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	1	0	1	0
34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	1	0	1	0
34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	1	0	1	0
34349	1,2-DIPHENYLHYDRAZINE DRY WGTBOTUG/KG	1	0	1	0
34350	1,2-DIPHENYLHYDRAZINE WET WGTTISMG/KG	1	0	1	0
34351	ENDOSULFAN SULFATE TOTWUG/L	1	0	1	0
34354	ENDOSULFAN SULFATE DRY WGTBOTUG/KG	5	4	1	0
34355	ENDOSULFAN SULFATE WET WGTTISMG/KG	10	9	1	0
34356	ENDOSULFAN, BETA TOTWUG/L	1	0	1	0
34359	ENDOSULFAN, BETA DRY WGTBOTUG/KG	5	4	1	0
34360	ENDOSULFAN, BETA WET WGTTISMG/KG	10	9	1	0
34361	ENDOSULFAN, ALPHA TOTWUG/L	1	0	1	0
34364	ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	5	4	1	0
34365	ENDOSULFAN, ALPHA WET WGTTISMG/KG	10	9	1	0
34366	ENDRIN ALDEHYDE TOTWUG/L	1	0	1	0
34369	ENDRIN ALDEHYDE DRY WGTBOTUG/KG	5	4	1	0
34370	ENDRIN ALDEHYDE WET WGTTISMG/KG	5	4	1	0

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name		Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
34371	ETHYLBENZENE	TOTWUG/L	1	0	1	0
34376	FLUORANTHENE	TOTWUG/L	1	0	1	0
34379	FLUORANTHENE	DRY WGTBOTUG/KG	1	0	1	0
34380	FLUORANTHENE	WET WGTTISMG/KG	1	0	1	0
34381	FLUORENE	TOTWUG/L	1	0	1	0
34384	FLUORENE	DRY WGTBOTUG/KG	1	0	1	0
34385	FLUORENE	WET WGTTISMG/KG	1	0	1	0
34386	HEXACHLOROCYCLOPENTADIENE	TOTWUG/L	1	0	1	0
34389	HEXACHLOROCYCLOPENTADIENE	DRY WGTBOTUG/KG	1	0	1	0
34390	HEXACHLOROCYCLOPENTADIENE	WET WGTTISMG/KG	1	0	1	0
34395	HEXACHLOROBUTADIENE	WET WGTTISMG/KG	2	0	2	0
34396	HEXACHLOROETHANE	TOTWUG/L	1	0	1	0
34399	HEXACHLOROETHANE	DRY WGTBOTUG/KG	1	0	1	0
34400	HEXACHLOROETHANE	WET WGTTISMG/KG	1	0	1	0
34403	INDENO (1,2,3-CD) PYRENE	TOTWUG/L	1	0	1	0
34406	INDENO (1,2,3-CD) PYRENE	DRY WGTBOTUG/KG	1	0	1	0
34407	INDENO (1,2,3-CD) PYRENE	WET WGTTISMG/KG	1	0	1	0
34411	ISOPHORONE	DRY WGTBOTUG/KG	1	0	1	0
34412	ISOPHORONE	WET WGTTISMG/KG	1	0	1	0
34413	METHYL BROMIDE	TOTWUG/L	1	0	1	0
34418	METHYL CHLORIDE	TOTWUG/L	1	0	1	0
34423	METHYLENE CHLORIDE	TOTWUG/L	1	0	1	0
34428	N-NITROSODI-N-PROPYLAMINE	TOTWUG/L	1	0	1	0
34431	N-NITROSODI-N-PROPYLAMINE	DRY WGTBOTUG/KG	1	0	1	0
34432	N-NITROSODI-N-PROPYLAMINE	WET WGTTISMG/KG	1	0	1	0
34433	N-NITROSODIPHENYLAMINE	TOTWUG/L	1	0	1	0
34436	N-NITROSODIPHENYLAMINE	DRY WGTBOTUG/KG	1	0	1	0
34437	N-NITROSODIPHENYLAMINE	WET WGTTISMG/KG	1	0	1	0
34442	N-NITROSODIMETHYLAMINE	WET WGTTISMG/KG	1	0	1	0
34445	NAPHTHALENE	DRY WGTBOTUG/KG	1	0	1	0
34446	NAPHTHALENE	WET WGTTISMG/KG	1	0	1	0
34447	NITROBENZENE	TOTWUG/L	1	0	1	0
34450	NITROBENZENE	DRY WGTBOTUG/KG	1	0	1	0
34451	NITROBENZENE	WET WGTTISMG/KG	1	0	1	0
34452	PARACHLOROMETA CRESOL	TOTWUG/L	1	0	1	0
34455	PARACHLOROMETA CRESOL	DRY WGTBOTUG/KG	1	0	1	0
34456	PARACHLOROMETA CRESOL	WET WGTTISMG/KG	1	0	1	0
34461	PHENANTHRENE	TOTWUG/L	1	0	1	0
34464	PHENANTHRENE	DRY WGTBOTUG/KG	1	0	1	0
34465	PHENANTHRENE	WET WGTTISMG/KG	1	0	1	0
34468	PHENOL	WET WGTTISMG/KG	1	0	1	0
34469	PYRENE	TOTWUG/L	1	0	1	0
34472	PYRENE	DRY WGTBOTUG/KG	1	0	1	0
34473	PYRENE	WET WGTTISMG/KG	1	0	1	0
34474	SILVER	WET WGTTISMG/KG	7	6	1	0
34475	TETRACHLOROETHYLENE	TOTWUG/L	1	0	1	0
34488	TRICHLOROFLUOROMETHANE	TOTWUG/L	1	0	1	0
34496	1,1-DICHLOROETHANE	TOTWUG/L	1	0	1	0
34501	1,1-DICHLOROETHYLENE	TOTWUG/L	1	0	1	0
34506	1,1,1-TRICHLOROETHANE	TOTWUG/L	1	0	1	0
34511	1,1,2-TRICHLOROETHANE	TOTWUG/L	1	0	1	0
34516	1,1,2,2-TETRACHLOROETHANE	TOTWUG/L	1	0	1	0
34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE	TOTWUG/L	1	0	1	0
34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY	WGTBOTUG/KG	1	0	1	0
34525	BENZO(GHI)PERYLENE1,12-BENZOPERYLENWET	WGTTISMG/KG	1	0	1	0
34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE	TOTWUG/L	1	0	1	0
34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY	WGTBOTUG/KG	1	0	1	0
34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET	WGTTISMG/KG	1	0	1	0
34536	1,2-DICHLOROBENZENE	TOTWUG/L	1	0	1	0
34539	1,2-DICHLOROBENZENE	DRY WGTBOTUG/KG	1	0	1	0
34540	1,2-DICHLOROBENZENE	WET WGTTISMG/KG	1	0	1	0
34541	1,2-DICHLOROPROPANE	TOTWUG/L	1	0	1	0
34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER	UG/L	1	0	1	0
34551	1,2,4-TRICHLOROBENZENE	TOTWUG/L	1	0	1	0
34554	1,2,4-TRICHLOROBENZENE	DRY WGTBOTUG/KG	1	0	1	0
34555	1,2,4-TRICHLOROBENZENE	WET WGTTISMG/KG	2	0	2	0
34556	1,2,5,6-DIBENZANTHRACENE	TOTWUG/L	1	0	1	0
34559	1,2,5,6-DIBENZANTHRACENE	DRY WGTBOTUG/KG	1	0	1	0
34560	1,2,5,6-DIBENZANTHRACENE	WET WGTTISMG/KG	1	0	1	0
34561	1,3-DICHLOROPROPENE	TOTWUG/L	1	0	1	0
34566	1,3-DICHLOROBENZENE	TOTWUG/L	1	0	1	0

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name		Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
34569	1,3-DICHLOROBENZENE	DRY WGTBOTUG/KG	1	0	1	0
34570	1,3-DICHLOROBENZENE	WET WGTTISMG/KG	1	0	1	0
34571	1,4-DICHLOROBENZENE	TOTWUG/L	1	0	1	0
34574	1,4-DICHLOROBENZENE	DRY WGTBOTUG/KG	1	0	1	0
34575	1,4-DICHLOROBENZENE	WET WGTTISMG/KG	1	0	1	0
34576	2-CHLOROETHYL VINYL ETHER	TOTWUG/L	1	0	1	0
34581	2-CHLORONAPHTHALENE	TOTWUG/L	1	0	1	0
34584	2-CHLORONAPHTHALENE	DRY WGTBOTUG/KG	1	0	1	0
34585	2-CHLORONAPHTHALENE	WET WGTTISMG/KG	1	0	1	0
34586	2-CHLOROPHENOL	TOTWUG/L	1	0	1	0
34589	2-CHLOROPHENOL	DRY WGTBOTUG/KG	1	0	1	0
34590	2-CHLOROPHENOL	WET WGTTISMG/KG	1	0	1	0
34591	2-NITROPHENOL	TOTWUG/L	1	0	1	0
34594	2-NITROPHENOL	DRY WGTBOTUG/KG	1	0	1	0
34595	2-NITROPHENOL	WET WGTTISMG/KG	1	0	1	0
34596	DI-N-OCTYL PHTHALATE	TOTWUG/L	1	0	1	0
34599	DI-N-OCTYL PHTHALATE	DRY WGTBOTUG/KG	1	0	1	0
34600	DI-N-OCTYL PHTHALATE	WET WGTTISMG/KG	1	0	1	0
34601	2,4-DICHLOROPHENOL	TOTWUG/L	1	0	1	0
34604	2,4-DICHLOROPHENOL	DRY WGTBOTUG/KG	1	0	1	0
34605	2,4-DICHLOROPHENOL	WET WGTTISMG/KG	1	0	1	0
34606	2,4-DIMETHYLPHENOL	TOTWUG/L	1	0	1	0
34609	2,4-DIMETHYLPHENOL	DRY WGTBOTUG/KG	1	0	1	0
34610	2,4-DIMETHYLPHENOL	WET WGTTISMG/KG	1	0	1	0
34611	2,4-DINITROTOLUENE	TOTWUG/L	1	0	1	0
34614	2,4-DINITROTOLUENE	DRY WGTBOTUG/KG	1	0	1	0
34615	2,4-DINITROTOLUENE	WET WGTTISMG/KG	1	0	1	0
34616	2,4-DINITROPHENOL	TOTWUG/L	1	0	1	0
34619	2,4-DINITROPHENOL	DRY WGTBOTUG/KG	1	0	1	0
34620	2,4-DINITROPHENOL	WET WGTTISMG/KG	1	0	1	0
34621	2,4,6-TRICHLOROPHENOL	TOTWUG/L	1	0	1	0
34624	2,4,6-TRICHLOROPHENOL	DRY WGTBOTUG/KG	1	0	1	0
34625	2,4,6-TRICHLOROPHENOL	WET WGTTISMG/KG	1	0	1	0
34626	2,6-DINITROTOLUENE	TOTWUG/L	1	0	1	0
34629	2,6-DINITROTOLUENE	DRY WGTBOTUG/KG	1	0	1	0
34630	2,6-DINITROTOLUENE	WET WGTTISMG/KG	1	0	1	0
34631	3,3'-DICHLOROBENZIDINE	TOTWUG/L	1	0	1	0
34634	3,3'-DICHLOROBENZIDINE	DRY WGTBOTUG/KG	1	0	1	0
34635	3,3'-DICHLOROBENZIDINE	WET WGTTISMG/KG	1	0	1	0
34636	4-BROMOPHENYL PHENYL ETHER	TOTWUG/L	1	0	1	0
34639	4-BROMOPHENYL PHENYL ETHER	DRY WGTBOTUG/KG	1	0	1	0
34640	4-BROMOPHENYL PHENYL ETHER	WET WGTTISMG/KG	1	0	1	0
34641	4-CHLOROPHENYL PHENYL ETHER	TOTWUG/L	1	0	1	0
34644	4-CHLOROPHENYL PHENYL ETHER	DRY WGTBOTUG/KG	1	0	1	0
34645	4-CHLOROPHENYL PHENYL ETHER	WET WGTTISMG/KG	1	0	1	0
34646	4-NITROPHENOL	TOTWUG/L	1	0	1	0
34649	4-NITROPHENOL	DRY WGTBOTUG/KG	1	0	1	0
34650	4-NITROPHENOL	WET WGTTISMG/KG	1	0	1	0
34657	DNOC (4,6-DINITRO-ORTHO-CRESOL)	TOTWUG/L	1	0	1	0
34660	DNOC (4,6-DINITRO-ORTHO-CRESOL)	DRY WGTBOTUG/KG	1	0	1	0
34661	DNOC (4,6-DINITRO-ORTHO-CRESOL)	WET WGTTISMG/KG	1	0	1	0
34664	PCB - 1221	WET WGTTISMG/KG	16	15	1	0
34667	PCB - 1232	WET WGTTISMG/KG	16	15	1	0
34668	DICHLORODIFUOROMETHANE	TOTWUG/L	1	0	1	0
34669	PCB - 1248	WET WGTTISMG/KG	16	15	1	0
34670	PCB - 1260	WET WGTTISMG/KG	16	15	1	0
34671	PCB - 1016	TOTWUG/L	1	0	1	0
34674	PCB - 1016	WET WGTTISMG/KG	16	15	1	0
34680	ALDRIN	IN FISH TISSUE WET WEIGHT MG/KG	13	9	4	0
34682	CHLORDANE(TECH MIX & METABS),TISSUEWET WGTT.MG/KG		1	0	1	0
34683	DI-N-BUTYL PHTHALATE,TISSUE,WET WGTWET WGT		1	0	1	0
34684	DIELDRIN	TISMG/KG	3	0	3	0
34685	ENDRIN	WET WGTTISMG/KG	15	9	6	0
34686	HEPTACHLOR EPOXIDE	WET WGTTISMG/KG	11	9	2	0
34687	HEPTACHLOR	WET WGTTISMG/KG	11	9	2	0
34688	HEXACHLOROBENZENE	WET WGTTISMG/KG	6	0	6	0
34689	PCB - 1242	WET WGTTISMG/KG	16	15	1	0
34690	PCB - 1254	WET WGTTISMG/KG	16	15	1	0
34691	TOXAPHENE	WET WGTTISMG/KG	10	9	1	0
34694	PHENOL(C6H5OH)-SINGLE COMPOUND	TOTWUG/L	1	0	1	0
34695	PHENOL(C6H5OH)-SINGLE COMPOUND	DRY WGTTUG/KG	1	0	1	0

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
34696	NAPHTHALENE TOTWUG/L	1	0	1	0
34754	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN TISWETWTPG/G	3	0	3	0
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)	108	0	26	82
38824	ISOPROPALIN TISWETWGTMG/KG	1	0	1	0
39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE UG/L	1	0	1	0
39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)	4	0	4	0
39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	5	0	5	0
39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL UG/KG	4	0	4	0
39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	8	4	4	0
39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	10	0	10	0
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	13	9	4	0
39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	10	0	10	0
39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	2	2	0	0
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	5	2	3	0
39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	10	0	10	0
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	15	9	6	0
39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	4	0	4	0
39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	14	4	10	0
39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	54	54	0	0
39099	BIS(2-ETHYLHEXYL)PHTHALATE,TISSUE,WET WGT,MG/KG	1	0	1	0
39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	1	0	1	0
39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	1	0	1	0
39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	1	0	1	0
39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	1	0	1	0
39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0
39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	1	0	1	0
39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	1	0	1	0
39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	1	0	1	0
39250	NAPTHALENES, POLYCHLORINATED (UG/L)	6	0	6	0
39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	2	0	2	0
39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	3	0	3	0
39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	15	4	11	0
39302	P P DDT IN TISSUE WET WGT (UG/G)	13	9	4	0
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10	0	10	0
39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	15	4	11	0
39312	P P DDD IN TISSUE WET WGT (UG/G)	13	9	4	0
39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10	0	10	0
39318	O,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	3	0	3	0
39319	MONOCHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	1	0	1	0
39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	15	4	11	0
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	14	9	5	0
39325	O,P DDD IN TISSUE WET WGT (UG/G)	3	0	3	0
39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	10	0	10	0
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	3	0	3	0
39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	14	0	8	6
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	25	4	18	3
39335	DICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	1	0	1	0
39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	1	0	1	0
39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	1	0	1	0
39339	TRICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	1	0	1	0
39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	12	0	8	4
39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	15	4	8	3
39345	TETRACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0
39347	PENTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0
39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	11	0	8	3
39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	15	4	8	3
39354	HEPTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0
39355	OCTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	1	0	1	0
39360	DDD IN WHOLE WATER SAMPLE (UG/L)	13	0	7	6
39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10	0	7	3
39365	DDE IN WHOLE WATER SAMPLE (UG/L)	13	0	7	6
39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10	0	7	3
39370	DDT IN WHOLE WATER SAMPLE (UG/L)	13	0	7	6
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	15	0	12	3
39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	14	0	8	6
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	25	4	18	3
39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	5	0	5	0
39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	14	0	8	6
39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	24	4	17	3
39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	6	0	6	0
39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0
39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	8	0	8	0
39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	12	4	8	0
39404	DIELDRIN IN TISSUE WET WGT (UG/G)	11	9	2	0
39408	NONACHLOROBIPHENYL,TOT. TISSUE,WET,WT,MG/KG	1	0	1	0
39409	DECACHLOROBIPHENYL,TOT. TISSUE,WET,WT,MG/KG	1	0	1	0
39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	14	0	8	6
39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	15	4	8	3
39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	13	0	8	5
39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	15	4	8	3
39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	5	0	5	0
39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	19	4	15	0
39482	METHOXYCHLOR IN FISH - UG/KG	4	0	4	0
39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	1	0	1	0
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	8	7	1	0
39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	1	0	1	0
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	8	7	1	0
39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	1	0	1	0
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	8	7	1	0
39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	1	0	1	0
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	8	7	1	0
39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	2	0	1	1
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	8	7	1	0
39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	1	0	1	0
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	8	7	1	0
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	8	7	1	0
39515	PCBS (MG/KG) FISH TISSUE MG/KG	14	10	4	0
39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	8	0	7	1
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	20	3	16	1
39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	9	0	6	3
39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	3	0	2	1
39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	9	0	6	3
39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	3	0	2	1
39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	9	0	6	3
39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	3	0	2	1
39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	9	0	6	3
39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	3	0	2	1
39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	1	0	1	0
39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	10	0	10	0
39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE(UG/L)	1	0	1	0
39705	HEXACHLOROBUTADIENE BOT. DEPOS.(UG/KG DRY WGT)	1	0	1	0
39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	10	0	5	5
39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	10	0	5	5
39755	MIREX, TOTAL (UG/L)	5	0	5	0
39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	2	0	2	0
39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	10	0	5	5
39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	11	9	2	0
39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)	6	0	6	0
39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	2	0	2	0
39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)	6	0	6	0
39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)	2	0	2	0
39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)	5	0	5	0
45513	TELLURIUM IN SEDIMENT (MG/KG AS TE DRY WT)	1	0	1	0
45514	YTTRIUM IN SEDIMENT (MG/KG AS YTTRIUM DRY WT)	1	0	1	0
45579	PERCENT LIPID EXTRACTABLE MATERIAL	15	15	0	0
46333	PENTACHLORONITROBENZENE (PCNB) IN TISSUE WET MG/KG	1	0	1	0
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	402	0	315	87
50086	SETTLEABLE MATTER (ML/L/HR)	1	0	1	0
60050	ALGAE, TOTAL (CELLS/ML)	9	0	7	2
70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	6	0	6	0
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	856	70	424	362
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	130	4	44	82
70302	SOLIDS, DISSOLVED-TONS PER DAY	144	0	55	89
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	158	0	61	97
70305	SALINITY BASED ON CONDUCTIVITY	65	0	21	44
70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	4	4	0	0
70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	1	0	1	0
70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	4	4	0	0

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name	Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	133	65	67	1
70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	1	0	0	1
70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	1	0	0	1
70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	1	0	0	1
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	2	0	1	1
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	3	0	2	1
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	3	0	2	1
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	3	0	2	1
70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	3	0	2	1
70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	2	0	2	0
70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	2	0	2	0
70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	2	0	2	0
70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	1	0	1	0
70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	1	0	1	0
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	504	128	367	9
70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	39	0	39	0
70511	PHOSPHORUS,ORTHO,IN BOTTOM DEPOS.(MG/KG-P DRY WT)	3	0	3	0
70977	INSTRUMENT RATIO, LAB/FIELD CONCENTRATIONS, NUMBER	3	0	3	0
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	116	0	116	0
71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	128	38	78	12
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	218	0	113	105
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	260	78	51	131
71870	BROMIDE (MG/L AS BR)	23	23	0	0
71876	SOAPS, RESIN ACID (MG/L)	3	0	2	1
71880	FORMALDEHYDE (MG/L)	2	0	2	0
71885	IRON (UG/L AS FE)	108	44	6	58
71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	37	4	33	0
71887	NITROGEN, TOTAL, AS NO3 - MG/L	44	0	34	10
71890	MERCURY, DISSOLVED (UG/L AS HG)	56	35	10	11
71895	MERCURY, SUSPENDED (UG/L AS HG)	12	0	2	10
71900	MERCURY, TOTAL (UG/L AS HG)	623	240	335	48
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	36	7	22	7
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	34	16	18	0
71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	2	0	2	0
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	29	11	18	0
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	24	6	18	0
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	24	6	18	0
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	24	6	18	0
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	29	11	18	0
72000	ELEVATION OF LAND SURFACE DATUM (FT. ABOVE MSL)	58	0	1	57
72004	PUMP OR FLOW PERIOD PRIOR TO SAMPLING MINUTES	3	0	3	0
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	50	44	6	0
72025	DEPTH OF POND OR RESERVOIR IN FEET	25	0	1	24
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	191	21	170	0
74010	IRON, TOTAL (MG/L AS FE)	1	0	1	0
75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	17	17	0	0
75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	17	17	0	0
75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	17	17	0	0
75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	17	17	0	0
75990	URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	15	15	0	0
76001	RADIUM 226,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	15	15	0	0
76004	ALPHA GROSS,SUSP,1 SIGMA PRC EST AS TH230,WTR PC/L	17	17	0	0
76005	BETA GROSS,SUSP,1 SIGMA PRC EST AS SR90/Y90 PC/L	17	17	0	0
76530	BIPHENYL TISSUE ,WET WGT,MG/KG	1	0	1	0
78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	7	7	0	0
78458	CHLORDENE, BETA-, FISH TISSUE, WET WEIGHT, MG/KG	2	2	0	0
78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	7	7	0	0
78907	HEXACHLOROBIPHENYLS IN FISH TISSUE WET WGT. MG/KG	1	0	1	0
78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT MG/KG	8	7	1	0
78923	NONACHLOR, CIS, TISSUE, WET WEIGHT MG/KG	8	7	1	0
79006	CHLORDENE IN FISH UG/KG	9	9	0	0
79026	1,2,3,4,-TETRACHLOROBENZENE IN FISH WET WGT MG/KG	1	0	1	0
80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD	18	4	7	7
80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L	41	25	7	9
80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L	41	25	7	9
80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L	41	25	7	9
80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L	41	25	7	9
80111	NITROGEN, TOTAL IN DRIED MATERIAL (MG/KG)	3	0	0	3
80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	250	70	165	15
80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	164	0	149	15
81024	DRAINAGE AREA IN SQUARE MILES (SQ. MI.)	50	44	6	0

Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Parameter Code	Name		Total Obs	01/01/85 to 01/09/95	01/01/75 to 12/31/84	Before 01/01/75
81253	BOD, 31 DAY, 20 DEG C	MG/L	1	0	1	0
81254	BOD, 32 DAY, 20 DEG C	MG/L	12	0	12	0
81255	BOD, 33 DAY, 20 DEG C	MG/L	1	0	1	0
81256	BOD, 34 DAY, 20 DEG C	MG/L	12	0	12	0
81257	BOD, 36 DAY, 20 DEG C	MG/L	13	0	13	0
81259	BOD, 38 DAY, 20 DEG C	MG/L	1	0	1	0
81260	BOD, 39 DAY, 20 DEG C	MG/L	6	0	6	0
81261	BOD, 41 DAY, 20 DEG C	MG/L	6	0	6	0
81262	BOD, 43 DAY, 20 DEG C	MG/L	6	0	6	0
81264	BOD, 45 DAY, 20 DEG C	MG/L	1	0	1	0
81265	BOD, 46 DAY, 20 DEG C	MG/L	12	0	12	0
81266	BOD, 47 DAY, 20 DEG C	MG/L	2	0	2	0
81267	BOD, 48 DAY, 20 DEG C	MG/L	6	0	6	0
81268	BOD, 51 DAY, 20 DEG C	MG/L	3	0	3	0
81269	BOD, 52 DAY, 20 DEG C	MG/L	1	0	1	0
81270	BOD, 53 DAY, 20 DEG C	MG/L	13	0	13	0
81271	BOD, 54 DAY, 20 DEG C	MG/L	1	0	1	0
81272	BOD, 55 DAY, 20 DEG C	MG/L	5	0	5	0
81273	BOD, 57 DAY, 20 DEG C	MG/L	11	0	11	0
81274	BOD, 58 DAY, 20 DEG C	MG/L	1	0	1	0
81275	BOD, 59 DAY, 20 DEG C	MG/L	2	0	2	0
81276	BOD, 60 DAY, 20 DEG C	MG/L	13	0	13	0
81312	POLYCHLORINATEDBIPHENYLS FISH TISSUE WET WGT	MG/KG	1	0	1	0
81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT		1	0	1	0
81645	MIREX IN FISH TISSUE WET WEIGHT UG/G		6	5	1	0
81647	REFERENCE POINT READING(LINEAR FEET)		97	33	64	0
81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG		1	0	1	0
81656	MAGNESIUM IN FISH TISSUE WET WEIGHT MG/KG		4	0	4	0
81666	ALUMINUM IN FISH TISSUE WET WEIGHT MG/KG		4	0	4	0
81807	DURSBAN IN FISH TISSUE WET WEIGHT MG/KG		1	0	1	0
81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT	MG/KG	1	0	1	0
81886	PERTHANE IN SEDIMENT DRY WEIGHT	UG/KG	2	0	2	0
81900	SEDIMENT CORE SAMPLE,UPPER DEPTH,REPORT IN INCHES		2	2	0	0
81901	SEDIMENT CORE SAMPLE, LOWER DEPTH,REPORT IN INCHES		2	2	0	0
82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT	MG/KG	5	4	1	0
82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)		6	0	6	0
82068	POTASSIUM 40, DISSOLVED, K-40	PC/LITER	5	0	5	0
82073	STARTING TIME (BASED ON A 24 HOUR CLOCK)		1	1	0	0
82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU		21	21	0	0
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		120	114	6	0
82183	2,4-DP (DICHLORPROP)	TOTAL UG/L	2	0	2	0
82295	CHLORIDE DISSOLVED AS CL IN WATER	UG/L	78	34	44	0
82381	PRECIPITATION, TOTAL IN INCHES PER STORM		6	0	6	0
82398	SAMPLING METHOD (CODES)		37	27	8	2
82547	CHLOROPHYLL A,PERIPHYTON,FLUOROMETRIC	MG/M2	2	0	2	0
83509	STREAM, WIDTH	METER	44	44	0	0
84000	GEOLOGIC AGE CODE (SEE USGS CATALOG)		5	4	1	0
84001	AQUIFER NAME CODE (SEE USGS CATALOG)		5	4	1	0
84007	ANATOMY ALPHA CODE		5	2	3	0
84014	SPECIES SEX	CODE	84	84	0	0
84068	SERIES CODE ALPHA-NUMERIC CODE		263	222	41	0
85000	STREAM MILE, ACTUAL	MILES	10	10	0	0
85001	BOD, 5 DAY	LBS/DAY	13	0	0	13
85664	WEIGHT, WET, OF FISH LIVER	GRAMS	39	39	0	0
85665	WEIGHT, WET, FISH, RIGHT FILLET	GRAMS	39	39	0	0
85666	WEIGHT, WET, FISH, LEFT FILLET	GRAMS	39	39	0	0
85675	TRICHLOROBENZENE,1,3,5-	TISSUE,WET,WT,MG/KG	1	0	1	0
85676	TRICHLOROBENZENE,1,2,3-	TISSUE,WET,WT,MG/KG	1	0	1	0
85677	TETRACHLOROBENZENE,1,2,4,5-	TISSUE,WET,WT,MG/KG	1	0	1	0
85678	TETRACHLOROBENZENE,1,2,3,5-	TISSUE,WET,WT,MG/KG	1	0	1	0
85679	PENTACHLOROBENZENE	TISSUE,WET,WT,MG/KG	1	0	1	0
85680	DIPHENYL DISULFIDE	TISSUE,WET,WT,MG/KG	1	0	1	0
85681	OCTACHLOROSTYRENE	TISSUE,WET,WT,MG/KG	1	0	1	0
85682	NITROFEN	TISSUE,WET,WT,MG/KG	1	0	1	0
85683	PERTHANE	TISSUE,WET,WT,MG/KG	1	0	1	0
85684	PERTHANE	TISSUE,WET,WT,MG/KG	1	0	1	0

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0009	00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	11	94
GRSM0185	00004	STREAM WIDTH (FEET)	02/07/83-12/05/94	11	54
GRSM0256	00004	STREAM WIDTH (FEET)	02/24/83-12/05/94	11	56
GRSM0003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/22/93-10/19/94	1	245
GRSM0004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/73-10/26/73	0	23
GRSM0005	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/29/70-09/29/70	0	8
GRSM0006	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/25/79-09/26/79	0	101
GRSM0007	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-07/31/79	5	16
GRSM0008	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/29/70-09/26/79	8	171
GRSM0009	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	20	231
GRSM0010	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/06/70-10/02/72	1	12
GRSM0011	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/68-07/13/77	8	14
GRSM0013	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	20	101
GRSM0016	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	20	85
GRSM0019	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	0	27
GRSM0020	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/22/93-10/19/94	1	247
GRSM0021	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/03/66-01/31/67	0	9
GRSM0022	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-07/31/79	5	17
GRSM0023	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	0	25
GRSM0024	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	20	95
GRSM0027	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	20	98
GRSM0030	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	0	25
GRSM0031	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/72-07/26/73	0	2
GRSM0032	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	6	7
GRSM0036	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	24	819
GRSM0037	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	12	89
GRSM0038	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/87-08/10/94	7	18
GRSM0041	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/18/82	0	20
GRSM0042	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	6	38
GRSM0045	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	6	37
GRSM0048	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	21	334
GRSM0050	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	0	1
GRSM0052	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	0	1
GRSM0054	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/77-12/27/78	1	23
GRSM0055	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	18	155
GRSM0056	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/21/68-02/21/73	4	14
GRSM0057	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	32	1155
GRSM0059	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-11/27/74	6	7
GRSM0060	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	0	31
GRSM0061	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/19/82-04/29/88	5	173
GRSM0063	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	20	59
GRSM0066	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	6	24
GRSM0069	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/25/79-10/20/94	15	681
GRSM0070	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/68-03/24/76	7	16
GRSM0071	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/25/85-07/11/85	0	4
GRSM0072	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/13/83-05/08/85	1	7
GRSM0073	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/68-01/29/75	6	15
GRSM0077	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/15/79-10/18/82	3	21
GRSM0078	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/02/61-11/05/84	23	1128
GRSM0079	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/10/77-05/17/78	0	2
GRSM0080	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	0	1
GRSM0081	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/25/85-07/08/85	0	4
GRSM0084	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/68-03/24/69	0	8
GRSM0085	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	0	10
GRSM0086	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/20/85-07/03/85	0	4
GRSM0087	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/23/67-03/24/69	2	17
GRSM0088	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	0	8
GRSM0091	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/73-10/03/77	3	3
GRSM0094	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/26/82-03/26/82	0	1
GRSM0095	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/85-07/03/85	0	1
GRSM0098	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/26/82-03/26/82	0	1
GRSM0099	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/22/85-07/16/85	0	2
GRSM0100	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/85-07/08/85	0	1
GRSM0101	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	0	10
GRSM0102	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/68-03/24/69	0	8
GRSM0103	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/23/91-09/30/91	0	6
GRSM0105	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/68-03/24/69	0	9
GRSM0106	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/25/85-07/16/85	0	4
GRSM0108	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/26/82-03/26/82	0	1
GRSM0109	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	0	10
GRSM0110	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/81-03/26/82	0	3
GRSM0111	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/82-07/29/82	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0112	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/81-08/01/82	0	36
GRSM0113	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-10/20/82	0	513
GRSM0114	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-04/13/94	0	5
GRSM0115	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/11/82-08/11/82	0	1
GRSM0116	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-10/20/82	0	380
GRSM0117	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-04/13/94	0	5
GRSM0118	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-05/03/94	0	6
GRSM0119	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/15/93-05/03/94	0	8
GRSM0121	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-04/13/94	0	5
GRSM0122	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-04/13/94	0	5
GRSM0126	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/27/73-11/13/73	0	12
GRSM0127	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/93-05/03/94	0	9
GRSM0128	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/93-05/03/94	0	8
GRSM0130	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/24/94-04/13/94	0	3
GRSM0131	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/93-04/13/94	0	5
GRSM0133	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/16/93-04/13/94	0	6
GRSM0134	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/22/82-03/26/82	0	2
GRSM0136	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/81-11/12/81	0	1
GRSM0137	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-04/22/82	0	3
GRSM0138	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/81-03/24/82	0	3
GRSM0139	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/22/82-03/22/82	0	1
GRSM0141	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-12/02/81	0	1
GRSM0142	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-03/24/82	0	2
GRSM0143	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/22/82-03/22/82	0	1
GRSM0145	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/22/82-03/22/82	0	1
GRSM0146	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/82-03/24/82	0	1
GRSM0148	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/24/82-03/24/82	0	1
GRSM0150	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/26/82-03/26/82	0	1
GRSM0151	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/79-04/11/79	0	1
GRSM0152	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/10/85-07/10/85	0	1
GRSM0155	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/79-04/11/79	0	1
GRSM0157	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/79-04/11/79	0	1
GRSM0160	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/20/82-04/20/82	0	1
GRSM0163	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/82-04/20/82	0	2
GRSM0166	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/82-03/23/82	0	1
GRSM0167	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/82-04/21/82	0	1
GRSM0168	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/21/82-04/21/82	0	1
GRSM0169	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/23/82-03/23/82	0	1
GRSM0171	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-07/23/81	0	4
GRSM0173	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-03/25/82	0	2
GRSM0175	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-03/25/82	0	2
GRSM0177	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	0	1
GRSM0182	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/10/63-11/22/94	31	139
GRSM0184	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/67-05/11/93	25	229
GRSM0185	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	09/04/73-12/05/94	21	298
GRSM0186	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/23/76-04/23/76	0	1
GRSM0189	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/11/79-04/11/79	0	1
GRSM0190	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/27/85-07/10/85	0	4
GRSM0191	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	0	1
GRSM0192	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-07/23/81	0	5
GRSM0193	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/83-08/31/83	0	22
GRSM0194	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/25/85-07/08/85	0	4
GRSM0195	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/85-07/16/85	0	1
GRSM0196	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/20/91-08/28/91	0	2
GRSM0197	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/90-07/28/92	1	26
GRSM0200	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/83-08/31/83	0	39
GRSM0201	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/83-08/31/83	0	5
GRSM0202	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/08/68-03/18/75	7	18
GRSM0203	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/90-07/28/92	1	17
GRSM0206	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/85-07/08/85	0	1
GRSM0207	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/31/83-08/31/83	0	8
GRSM0208	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/29/84-11/29/84	0	1
GRSM0209	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/11/83-08/31/83	0	58
GRSM0210	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/01/90-07/28/92	1	32
GRSM0213	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/28/85-07/16/85	0	4
GRSM0214	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/05/78-05/05/78	0	1
GRSM0215	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/08/68-03/18/75	7	22
GRSM0216	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/04/78-05/04/78	0	1
GRSM0217	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/06/78-05/06/78	0	1
GRSM0218	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-07/23/81	0	4
GRSM0219	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/15/81-08/13/81	0	5
GRSM0220	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/83-09/26/85	1	6

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0222	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/08/68-03/18/75	7	22
GRSM0223	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		09/06/67-08/01/68	0	3
GRSM0225	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/15/81-08/13/81	0	4
GRSM0226	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/30/81-08/13/81	0	3
GRSM0228	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/06/81-05/06/81	0	1
GRSM0229	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/13/83-05/15/85	1	7
GRSM0234	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/15/81-08/13/81	0	5
GRSM0236	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/15/81-08/13/81	0	6
GRSM0237	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		03/28/85-07/10/85	0	4
GRSM0238	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		11/16/76-11/16/76	0	1
GRSM0239	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/15/81-08/13/81	0	6
GRSM0242	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		08/26/68-08/26/68	0	1
GRSM0244	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/10/67-12/06/68	1	15
GRSM0247	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		03/24/73-09/20/73	0	18
GRSM0248	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/24/74-03/18/75	0	14
GRSM0249	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		09/11/68-07/25/73	4	51
GRSM0250	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/21/75-06/01/94	18	22
GRSM0251	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/21/75-09/07/76	0	15
GRSM0252	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/18/83-09/26/85	1	6
GRSM0253	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/05/73-06/08/73	0	4
GRSM0254	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/07/75-09/11/85	9	68
GRSM0255	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/07/85-07/07/85	0	1
GRSM0256	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		09/09/71-12/05/94	23	250
GRSM0257	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		03/24/73-09/20/73	0	12
GRSM0258	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		01/07/65-09/06/83	18	11
GRSM0259	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		03/24/85-07/07/85	0	4
GRSM0260	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/01/78-07/17/85	7	12
GRSM0262	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/77-10/11/78	1	12
GRSM0264	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/20/82-12/14/92	10	65
GRSM0265	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/28/89-06/28/89	0	3
GRSM0024	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)		08/05/87-08/05/87	0	2
GRSM0210	00011	TEMPERATURE, WATER (DEGREES FAHRENHEIT)		07/28/92-07/28/92	0	1
GRSM0005	00019	SAMPLE WEIGHT IN GRAMS		09/23/87-11/16/93	6	25
GRSM0020	00019	SAMPLE WEIGHT IN GRAMS		11/17/93-11/17/93	0	10
GRSM0035	00019	SAMPLE WEIGHT IN GRAMS		09/23/87-11/25/88	1	10
GRSM0069	00019	SAMPLE WEIGHT IN GRAMS		12/01/92-11/18/93	0	14
GRSM0075	00019	SAMPLE WEIGHT IN GRAMS		12/15/87-12/15/87	0	10
GRSM0083	00019	SAMPLE WEIGHT IN GRAMS		02/25/87-02/25/87	0	5
GRSM0096	00019	SAMPLE WEIGHT IN GRAMS		02/11/87-02/11/87	0	10
GRSM0007	00023	SAMPLE WEIGHT IN POUNDS		07/16/74-07/29/75	1	2
GRSM0011	00023	SAMPLE WEIGHT IN POUNDS		07/29/68-12/10/74	6	13
GRSM0013	00023	SAMPLE WEIGHT IN POUNDS		07/16/74-07/31/75	1	6
GRSM0016	00023	SAMPLE WEIGHT IN POUNDS		07/16/74-07/29/75	1	2
GRSM0022	00023	SAMPLE WEIGHT IN POUNDS		07/16/74-07/29/75	1	2
GRSM0024	00023	SAMPLE WEIGHT IN POUNDS		07/16/74-07/31/75	1	6
GRSM0027	00023	SAMPLE WEIGHT IN POUNDS		07/16/74-07/29/75	1	2
GRSM0037	00023	SAMPLE WEIGHT IN POUNDS		06/20/68-11/21/74	6	12
GRSM0055	00023	SAMPLE WEIGHT IN POUNDS		06/20/68-11/21/74	6	12
GRSM0059	00023	SAMPLE WEIGHT IN POUNDS		06/20/68-11/27/74	6	7
GRSM0063	00023	SAMPLE WEIGHT IN POUNDS		07/16/74-07/29/75	1	2
GRSM0070	00023	SAMPLE WEIGHT IN POUNDS		07/29/68-01/29/75	6	15
GRSM0073	00023	SAMPLE WEIGHT IN POUNDS		07/29/68-01/29/75	6	15
GRSM0005	00039	SAMPLE LENGTH IN MILLIMETERS		09/23/87-11/16/93	6	25
GRSM0020	00039	SAMPLE LENGTH IN MILLIMETERS		11/17/93-11/17/93	0	10
GRSM0035	00039	SAMPLE LENGTH IN MILLIMETERS		09/23/87-11/25/88	1	10
GRSM0069	00039	SAMPLE LENGTH IN MILLIMETERS		12/01/92-11/18/93	0	14
GRSM0075	00039	SAMPLE LENGTH IN MILLIMETERS		12/15/87-12/15/87	0	10
GRSM0083	00039	SAMPLE LENGTH IN MILLIMETERS		02/25/87-02/25/87	0	5
GRSM0096	00039	SAMPLE LENGTH IN MILLIMETERS		02/11/87-02/11/87	0	10
GRSM0214	00059	FLOW, RATE, INSTANTANEOUS	GALLONS/MIN	05/05/78-05/05/78	0	1
GRSM0216	00059	FLOW, RATE, INSTANTANEOUS	GALLONS/MIN	05/04/78-05/04/78	0	1
GRSM0217	00059	FLOW, RATE, INSTANTANEOUS	GALLONS/MIN	05/06/78-05/06/78	0	1
GRSM0010	00060	FLOW, STREAM, MEAN DAILY	CFS	10/18/57-10/02/72	14	72
GRSM0011	00060	FLOW, STREAM, MEAN DAILY	CFS	07/29/68-08/24/71	3	10
GRSM0037	00060	FLOW, STREAM, MEAN DAILY	CFS	06/20/68-08/24/71	3	9
GRSM0055	00060	FLOW, STREAM, MEAN DAILY	CFS	06/20/68-08/24/71	3	9
GRSM0056	00060	FLOW, STREAM, MEAN DAILY	CFS	05/21/68-02/21/73	4	16
GRSM0059	00060	FLOW, STREAM, MEAN DAILY	CFS	08/14/68-08/24/71	3	5
GRSM0069	00060	FLOW, STREAM, MEAN DAILY	CFS	04/21/93-10/19/93	0	7
GRSM0070	00060	FLOW, STREAM, MEAN DAILY	CFS	07/29/68-06/18/70	1	5
GRSM0073	00060	FLOW, STREAM, MEAN DAILY	CFS	07/29/68-06/18/70	1	5
GRSM0076	00060	FLOW, STREAM, MEAN DAILY	CFS	09/25/68-09/25/68	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0107	00060	FLOW, STREAM, MEAN DAILY	CFS	09/24/68-09/24/68	0	1
GRSM0120	00060	FLOW, STREAM, MEAN DAILY	CFS	09/24/68-09/24/68	0	1
GRSM0144	00060	FLOW, STREAM, MEAN DAILY	CFS	09/25/68-09/25/68	0	1
GRSM0161	00060	FLOW, STREAM, MEAN DAILY	CFS	09/25/68-09/25/68	0	1
GRSM0164	00060	FLOW, STREAM, MEAN DAILY	CFS	09/25/68-09/25/68	0	1
GRSM0178	00060	FLOW, STREAM, MEAN DAILY	CFS	09/24/68-09/24/68	0	1
GRSM0182	00060	FLOW, STREAM, MEAN DAILY	CFS	08/10/63-10/08/70	7	21
GRSM0184	00060	FLOW, STREAM, MEAN DAILY	CFS	10/18/62-06/28/73	10	63
GRSM0185	00060	FLOW, STREAM, MEAN DAILY	CFS	01/24/74-05/12/75	1	60
GRSM0221	00060	FLOW, STREAM, MEAN DAILY	CFS	09/25/68-09/25/68	0	1
GRSM0223	00060	FLOW, STREAM, MEAN DAILY	CFS	09/06/67-08/01/68	0	4
GRSM0227	00060	FLOW, STREAM, MEAN DAILY	CFS	09/25/68-09/25/68	0	1
GRSM0240	00060	FLOW, STREAM, MEAN DAILY	CFS	09/24/68-09/24/68	0	1
GRSM0244	00060	FLOW, STREAM, MEAN DAILY	CFS	10/10/67-12/06/68	1	15
GRSM0249	00060	FLOW, STREAM, MEAN DAILY	CFS	06/27/68-07/25/73	5	53
GRSM0256	00060	FLOW, STREAM, MEAN DAILY	CFS	10/18/73-05/20/75	1	24
GRSM0009	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/29/75-09/09/93	17	168
GRSM0010	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/19/56-01/04/82	25	32
GRSM0021	00061	FLOW, STREAM, INSTANTANEOUS	CFS	05/03/66-01/31/67	0	9
GRSM0036	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	17	601
GRSM0048	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	19	274
GRSM0054	00061	FLOW, STREAM, INSTANTANEOUS	CFS	02/15/77-12/27/78	1	22
GRSM0057	00061	FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	28	836
GRSM0070	00061	FLOW, STREAM, INSTANTANEOUS	CFS	03/24/76-03/24/76	0	1
GRSM0074	00061	FLOW, STREAM, INSTANTANEOUS	CFS	11/06/56-04/13/62	5	8
GRSM0078	00061	FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	38	715
GRSM0079	00061	FLOW, STREAM, INSTANTANEOUS	CFS	11/10/77-11/10/77	0	1
GRSM0087	00061	FLOW, STREAM, INSTANTANEOUS	CFS	01/23/67-05/20/68	1	11
GRSM0112	00061	FLOW, STREAM, INSTANTANEOUS	CFS	11/30/81-08/02/82	0	328
GRSM0114	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/15/93-04/13/94	0	6
GRSM0117	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/15/93-04/13/94	0	6
GRSM0118	00061	FLOW, STREAM, INSTANTANEOUS	CFS	11/16/93-05/03/94	0	6
GRSM0119	00061	FLOW, STREAM, INSTANTANEOUS	CFS	12/15/93-05/03/94	0	8
GRSM0121	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/16/93-04/13/94	0	6
GRSM0122	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/15/93-04/13/94	0	6
GRSM0127	00061	FLOW, STREAM, INSTANTANEOUS	CFS	05/03/94-05/03/94	0	4
GRSM0128	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/15/93-05/03/94	0	9
GRSM0130	00061	FLOW, STREAM, INSTANTANEOUS	CFS	01/24/94-04/13/94	0	3
GRSM0131	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/15/93-04/13/94	0	6
GRSM0133	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/16/93-03/17/94	0	5
GRSM0182	00061	FLOW, STREAM, INSTANTANEOUS	CFS	03/25/65-11/22/94	29	127
GRSM0184	00061	FLOW, STREAM, INSTANTANEOUS	CFS	09/04/73-05/11/93	19	215
GRSM0185	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/01/75-09/07/93	17	183
GRSM0186	00061	FLOW, STREAM, INSTANTANEOUS	CFS	04/23/76-04/23/76	0	1
GRSM0202	00061	FLOW, STREAM, INSTANTANEOUS	CFS	01/08/68-03/18/75	7	18
GRSM0215	00061	FLOW, STREAM, INSTANTANEOUS	CFS	01/08/68-03/18/75	7	20
GRSM0220	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/18/83-09/26/85	1	6
GRSM0222	00061	FLOW, STREAM, INSTANTANEOUS	CFS	01/08/68-03/18/75	7	22
GRSM0238	00061	FLOW, STREAM, INSTANTANEOUS	CFS	11/16/76-11/16/76	0	1
GRSM0242	00061	FLOW, STREAM, INSTANTANEOUS	CFS	08/23/68-08/26/68	0	2
GRSM0248	00061	FLOW, STREAM, INSTANTANEOUS	CFS	04/24/74-03/18/75	0	12
GRSM0250	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/21/75-02/08/77	1	18
GRSM0251	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/21/75-06/07/76	0	10
GRSM0252	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/18/83-09/26/85	1	6
GRSM0254	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/07/75-09/11/85	9	68
GRSM0256	00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/07/75-10/21/92	17	102
GRSM0258	00061	FLOW, STREAM, INSTANTANEOUS	CFS	01/07/65-11/03/71	6	9
GRSM0260	00061	FLOW, STREAM, INSTANTANEOUS	CFS	07/01/78-07/17/85	7	12
GRSM0262	00061	FLOW, STREAM, INSTANTANEOUS	CFS	02/23/77-10/11/78	1	12
GRSM0069	00062	ELEVATION, RESERVOIR SURFACE WATER IN FEET		04/21/93-10/19/93	0	7
GRSM0009	00064	DEPTH OF STREAM, MEAN (FT)		02/15/83-01/09/95	11	93
GRSM0071	00064	DEPTH OF STREAM, MEAN (FT)		03/25/85-07/11/85	0	4
GRSM0081	00064	DEPTH OF STREAM, MEAN (FT)		03/25/85-07/08/85	0	4
GRSM0086	00064	DEPTH OF STREAM, MEAN (FT)		03/20/85-07/03/85	0	4
GRSM0095	00064	DEPTH OF STREAM, MEAN (FT)		07/03/85-07/03/85	0	1
GRSM0099	00064	DEPTH OF STREAM, MEAN (FT)		04/22/85-07/16/85	0	2
GRSM0100	00064	DEPTH OF STREAM, MEAN (FT)		07/08/85-07/08/85	0	1
GRSM0106	00064	DEPTH OF STREAM, MEAN (FT)		03/25/85-07/16/85	0	4
GRSM0152	00064	DEPTH OF STREAM, MEAN (FT)		07/10/85-07/10/85	0	1
GRSM0185	00064	DEPTH OF STREAM, MEAN (FT)		02/07/83-12/05/94	11	55
GRSM0190	00064	DEPTH OF STREAM, MEAN (FT)		03/27/85-07/10/85	0	4
GRSM0194	00064	DEPTH OF STREAM, MEAN (FT)		03/25/85-07/08/85	0	4

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0195	00064	DEPTH OF STREAM, MEAN (FT)	07/16/85-07/16/85	0	1
GRSM0206	00064	DEPTH OF STREAM, MEAN (FT)	07/08/85-07/08/85	0	1
GRSM0213	00064	DEPTH OF STREAM, MEAN (FT)	03/28/85-07/16/85	0	4
GRSM0237	00064	DEPTH OF STREAM, MEAN (FT)	03/28/85-07/10/85	0	4
GRSM0255	00064	DEPTH OF STREAM, MEAN (FT)	07/07/85-07/07/85	0	1
GRSM0256	00064	DEPTH OF STREAM, MEAN (FT)	02/24/83-12/05/94	11	56
GRSM0259	00064	DEPTH OF STREAM, MEAN (FT)	03/24/85-07/07/85	0	4
GRSM0009	00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	17	175
GRSM0011	00065	STAGE, STREAM (FEET)	07/29/68-12/10/74	6	13
GRSM0037	00065	STAGE, STREAM (FEET)	05/29/74-09/19/78	4	8
GRSM0055	00065	STAGE, STREAM (FEET)	02/27/74-09/19/78	4	14
GRSM0070	00065	STAGE, STREAM (FEET)	06/21/73-03/24/76	2	2
GRSM0072	00065	STAGE, STREAM (FEET)	08/29/84-05/08/85	0	11
GRSM0073	00065	STAGE, STREAM (FEET)	06/21/73-06/21/73	0	1
GRSM0112	00065	STAGE, STREAM (FEET)	11/30/81-08/02/82	0	328
GRSM0182	00065	STAGE, STREAM (FEET)	10/28/93-08/24/94	0	6
GRSM0184	00065	STAGE, STREAM (FEET)	05/12/86-05/11/93	6	29
GRSM0185	00065	STAGE, STREAM (FEET)	01/24/74-09/07/93	19	269
GRSM0229	00065	STAGE, STREAM (FEET)	08/10/84-06/08/85	0	39
GRSM0256	00065	STAGE, STREAM (FEET)	06/14/73-10/21/92	19	136
GRSM0103	00068	DEPTH, MAXIMUM, OF SAMPLE (FEET)	05/23/91-09/30/91	0	6
GRSM0006	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/25/79-09/26/79	0	12
GRSM0008	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/25/79-09/26/79	0	12
GRSM0021	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/03/66-01/31/67	0	7
GRSM0036	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/04/74-01/17/77	2	38
GRSM0048	00070	TURBIDITY, (JACKSON CANDLE UNITS)	03/03/74-01/17/77	2	36
GRSM0054	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/77-12/27/78	1	23
GRSM0057	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	14	68
GRSM0069	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/25/79-09/26/79	0	12
GRSM0078	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/28/74-01/24/77	2	37
GRSM0084	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/30/68-03/24/69	0	8
GRSM0087	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/23/67-03/24/69	2	17
GRSM0102	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/30/68-03/24/69	0	8
GRSM0105	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/30/68-03/24/69	0	9
GRSM0184	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/11/73-05/15/74	0	3
GRSM0202	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/08/68-03/18/75	7	19
GRSM0214	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/05/78-05/05/78	0	1
GRSM0215	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/24/74-03/18/75	0	14
GRSM0216	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/78-05/04/78	0	1
GRSM0217	00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/06/78-05/06/78	0	1
GRSM0222	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/08/68-03/18/75	7	19
GRSM0244	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/10/67-12/06/68	1	15
GRSM0248	00070	TURBIDITY, (JACKSON CANDLE UNITS)	04/24/74-03/18/75	0	14
GRSM0249	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/21/70-08/29/72	2	2
GRSM0250	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/21/75-02/08/77	1	17
GRSM0251	00070	TURBIDITY, (JACKSON CANDLE UNITS)	10/21/75-09/07/76	0	13
GRSM0258	00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/07/65-11/03/71	6	9
GRSM0261	00070	TURBIDITY, (JACKSON CANDLE UNITS)	06/18/64-11/03/64	0	2
GRSM0262	00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/23/77-10/11/78	1	12
GRSM0264	00070	TURBIDITY, (JACKSON CANDLE UNITS)	07/21/88-07/21/88	0	1
GRSM0004	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/03/73-10/26/73	0	23
GRSM0019	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	0	27
GRSM0023	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	0	25
GRSM0030	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	0	25
GRSM0060	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	0	31
GRSM0126	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/27/73-11/13/73	0	12
GRSM0247	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	03/24/73-09/20/73	0	18
GRSM0257	00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	03/24/73-09/20/73	0	12
GRSM0003	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/24/93-09/24/93	0	1
GRSM0007	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-07/25/78	1	6
GRSM0009	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	20	170
GRSM0011	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/29/68-07/13/77	8	10
GRSM0013	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	17	7
GRSM0016	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/07/77-08/29/94	17	6
GRSM0022	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/07/77-07/27/77	0	5
GRSM0024	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	17	7
GRSM0027	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	17	7
GRSM0032	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	6	2
GRSM0037	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/68-03/12/81	12	64
GRSM0038	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	6	2
GRSM0042	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	6	2
GRSM0045	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	6	2

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0055	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	12	110
GRSM0059	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/27/74-11/27/74	0	1
GRSM0063	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	17	7
GRSM0066	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	6	2
GRSM0070	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/16/74-12/10/74	0	2
GRSM0073	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/16/74-12/10/74	0	2
GRSM0085	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	0	3
GRSM0088	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	0	3
GRSM0101	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	0	3
GRSM0109	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	0	3
GRSM0151	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/11/79-04/11/79	0	1
GRSM0155	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/11/79-04/11/79	0	1
GRSM0157	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/11/79-04/11/79	0	1
GRSM0182	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/17/85-11/22/94	9	37
GRSM0184	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/02/82-05/11/93	10	43
GRSM0185	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	10/04/73-12/05/94	21	203
GRSM0189	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	04/11/79-04/11/79	0	1
GRSM0197	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/01/90-07/28/92	1	2
GRSM0203	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/01/90-07/28/92	1	2
GRSM0210	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/01/90-07/28/92	1	2
GRSM0256	00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	05/05/69-12/05/94	25	183
GRSM0004	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/03/73-10/26/73	0	3
GRSM0013	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	0	2
GRSM0016	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	0	2
GRSM0019	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/02/73-10/26/73	0	3
GRSM0023	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/21/73-10/26/73	0	2
GRSM0024	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	0	2
GRSM0027	00077	TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	0	2
GRSM0030	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/02/73-10/26/73	0	3
GRSM0037	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/29/74-05/29/74	0	1
GRSM0055	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/29/74-05/29/74	0	1
GRSM0060	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/02/73-10/26/73	0	3
GRSM0103	00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/23/91-09/30/91	0	6
GRSM0126	00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/27/73-11/13/73	0	3
GRSM0247	00077	TRANSPARENCY, SECCHI DISC (INCHES)	03/24/73-09/20/73	0	3
GRSM0257	00077	TRANSPARENCY, SECCHI DISC (INCHES)	03/24/73-09/20/73	0	3
GRSM0003	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/19/93-10/19/94	1	12
GRSM0007	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-07/31/79	5	15
GRSM0011	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/13/77-07/13/77	0	1
GRSM0013	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	20	21
GRSM0016	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	20	17
GRSM0020	00078	TRANSPARENCY, SECCHI DISC (METERS)	04/22/93-10/19/94	1	14
GRSM0022	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-07/31/79	5	16
GRSM0024	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	20	21
GRSM0027	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	20	19
GRSM0032	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	6	2
GRSM0038	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	6	2
GRSM0042	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	6	2
GRSM0045	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	6	2
GRSM0050	00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	0	1
GRSM0052	00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	0	1
GRSM0061	00078	TRANSPARENCY, SECCHI DISC (METERS)	04/29/88-04/29/88	0	1
GRSM0063	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	20	16
GRSM0066	00078	TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	6	2
GRSM0069	00078	TRANSPARENCY, SECCHI DISC (METERS)	05/18/93-10/20/94	1	13
GRSM0080	00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	0	1
GRSM0177	00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	0	1
GRSM0191	00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	0	1
GRSM0197	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/01/90-07/28/92	1	2
GRSM0203	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/01/90-07/28/92	1	2
GRSM0208	00078	TRANSPARENCY, SECCHI DISC (METERS)	11/29/84-11/29/84	0	1
GRSM0210	00078	TRANSPARENCY, SECCHI DISC (METERS)	08/01/90-07/28/92	1	2
GRSM0256	00078	TRANSPARENCY, SECCHI DISC (METERS)	12/05/74-12/05/74	0	1
GRSM0006	00080	COLOR (PLATINUM-COBALT UNITS)	04/25/79-09/26/79	0	4
GRSM0008	00080	COLOR (PLATINUM-COBALT UNITS)	04/25/79-09/26/79	0	4
GRSM0009	00080	COLOR (PLATINUM-COBALT UNITS)	08/09/77-07/18/78	0	2
GRSM0010	00080	COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	15	72
GRSM0021	00080	COLOR (PLATINUM-COBALT UNITS)	05/03/66-01/31/67	0	9
GRSM0031	00080	COLOR (PLATINUM-COBALT UNITS)	01/23/73-09/06/73	0	4
GRSM0036	00080	COLOR (PLATINUM-COBALT UNITS)	02/04/74-01/17/77	2	38
GRSM0041	00080	COLOR (PLATINUM-COBALT UNITS)	10/18/82-10/18/82	0	1
GRSM0048	00080	COLOR (PLATINUM-COBALT UNITS)	03/03/74-01/17/77	2	36

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0050	00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	0	1
GRSM0052	00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	0	1
GRSM0054	00080	COLOR (PLATINUM-COBALT UNITS)	02/15/77-12/27/78	1	23
GRSM0055	00080	COLOR (PLATINUM-COBALT UNITS)	08/09/77-08/29/78	1	6
GRSM0056	00080	COLOR (PLATINUM-COBALT UNITS)	05/21/68-05/24/72	4	11
GRSM0057	00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	14	68
GRSM0061	00080	COLOR (PLATINUM-COBALT UNITS)	10/19/82-10/19/82	0	1
GRSM0069	00080	COLOR (PLATINUM-COBALT UNITS)	04/25/79-09/26/79	0	4
GRSM0071	00080	COLOR (PLATINUM-COBALT UNITS)	03/25/85-07/11/85	0	4
GRSM0072	00080	COLOR (PLATINUM-COBALT UNITS)	12/13/83-05/08/85	1	22
GRSM0074	00080	COLOR (PLATINUM-COBALT UNITS)	11/06/56-04/13/62	5	8
GRSM0076	00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	0	1
GRSM0077	00080	COLOR (PLATINUM-COBALT UNITS)	10/18/82-10/18/82	0	1
GRSM0078	00080	COLOR (PLATINUM-COBALT UNITS)	01/28/74-01/24/77	2	37
GRSM0080	00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	0	1
GRSM0081	00080	COLOR (PLATINUM-COBALT UNITS)	03/25/85-07/08/85	0	4
GRSM0084	00080	COLOR (PLATINUM-COBALT UNITS)	04/30/68-03/24/69	0	8
GRSM0086	00080	COLOR (PLATINUM-COBALT UNITS)	03/20/85-07/03/85	0	4
GRSM0087	00080	COLOR (PLATINUM-COBALT UNITS)	01/23/67-03/24/69	2	16
GRSM0091	00080	COLOR (PLATINUM-COBALT UNITS)	10/23/73-08/08/74	0	2
GRSM0095	00080	COLOR (PLATINUM-COBALT UNITS)	07/03/85-07/03/85	0	1
GRSM0099	00080	COLOR (PLATINUM-COBALT UNITS)	04/22/85-07/16/85	0	2
GRSM0100	00080	COLOR (PLATINUM-COBALT UNITS)	07/08/85-07/08/85	0	1
GRSM0102	00080	COLOR (PLATINUM-COBALT UNITS)	04/30/68-03/24/69	0	8
GRSM0105	00080	COLOR (PLATINUM-COBALT UNITS)	04/30/68-03/24/69	0	9
GRSM0106	00080	COLOR (PLATINUM-COBALT UNITS)	03/25/85-07/16/85	0	4
GRSM0107	00080	COLOR (PLATINUM-COBALT UNITS)	09/24/68-09/24/68	0	1
GRSM0120	00080	COLOR (PLATINUM-COBALT UNITS)	09/24/68-09/24/68	0	1
GRSM0144	00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	0	1
GRSM0152	00080	COLOR (PLATINUM-COBALT UNITS)	07/10/85-07/10/85	0	1
GRSM0161	00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	0	1
GRSM0164	00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	0	1
GRSM0177	00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	0	1
GRSM0178	00080	COLOR (PLATINUM-COBALT UNITS)	09/24/68-09/24/68	0	1
GRSM0182	00080	COLOR (PLATINUM-COBALT UNITS)	08/10/63-09/30/68	5	20
GRSM0184	00080	COLOR (PLATINUM-COBALT UNITS)	10/18/62-05/29/79	16	60
GRSM0185	00080	COLOR (PLATINUM-COBALT UNITS)	10/04/73-10/04/73	0	1
GRSM0190	00080	COLOR (PLATINUM-COBALT UNITS)	03/27/85-07/10/85	0	4
GRSM0191	00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	0	1
GRSM0193	00080	COLOR (PLATINUM-COBALT UNITS)	05/11/83-08/31/83	0	6
GRSM0194	00080	COLOR (PLATINUM-COBALT UNITS)	03/25/85-07/08/85	0	4
GRSM0195	00080	COLOR (PLATINUM-COBALT UNITS)	07/16/85-07/16/85	0	1
GRSM0200	00080	COLOR (PLATINUM-COBALT UNITS)	05/11/83-08/31/83	0	6
GRSM0202	00080	COLOR (PLATINUM-COBALT UNITS)	01/08/68-03/18/75	7	19
GRSM0206	00080	COLOR (PLATINUM-COBALT UNITS)	07/08/85-07/08/85	0	1
GRSM0208	00080	COLOR (PLATINUM-COBALT UNITS)	11/29/84-11/29/84	0	1
GRSM0213	00080	COLOR (PLATINUM-COBALT UNITS)	03/28/85-07/16/85	0	4
GRSM0214	00080	COLOR (PLATINUM-COBALT UNITS)	05/05/78-05/05/78	0	1
GRSM0215	00080	COLOR (PLATINUM-COBALT UNITS)	04/24/74-03/18/75	0	14
GRSM0216	00080	COLOR (PLATINUM-COBALT UNITS)	05/04/78-05/04/78	0	1
GRSM0217	00080	COLOR (PLATINUM-COBALT UNITS)	05/06/78-05/06/78	0	1
GRSM0221	00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	0	1
GRSM0222	00080	COLOR (PLATINUM-COBALT UNITS)	01/08/68-03/18/75	7	20
GRSM0223	00080	COLOR (PLATINUM-COBALT UNITS)	09/06/67-08/01/68	0	4
GRSM0227	00080	COLOR (PLATINUM-COBALT UNITS)	09/25/68-09/25/68	0	1
GRSM0229	00080	COLOR (PLATINUM-COBALT UNITS)	12/13/83-05/15/85	1	51
GRSM0237	00080	COLOR (PLATINUM-COBALT UNITS)	03/28/85-07/10/85	0	4
GRSM0240	00080	COLOR (PLATINUM-COBALT UNITS)	09/24/68-09/24/68	0	1
GRSM0244	00080	COLOR (PLATINUM-COBALT UNITS)	10/10/67-12/06/68	1	15
GRSM0248	00080	COLOR (PLATINUM-COBALT UNITS)	04/24/74-03/18/75	0	14
GRSM0249	00080	COLOR (PLATINUM-COBALT UNITS)	10/17/57-03/28/73	15	69
GRSM0250	00080	COLOR (PLATINUM-COBALT UNITS)	10/21/75-02/08/77	1	17
GRSM0251	00080	COLOR (PLATINUM-COBALT UNITS)	10/21/75-09/07/76	0	13
GRSM0253	00080	COLOR (PLATINUM-COBALT UNITS)	06/05/73-06/08/73	0	4
GRSM0255	00080	COLOR (PLATINUM-COBALT UNITS)	07/07/85-07/07/85	0	1
GRSM0256	00080	COLOR (PLATINUM-COBALT UNITS)	05/16/68-12/05/94	26	88
GRSM0258	00080	COLOR (PLATINUM-COBALT UNITS)	01/07/65-09/06/83	18	11
GRSM0259	00080	COLOR (PLATINUM-COBALT UNITS)	03/24/85-07/07/85	0	4
GRSM0261	00080	COLOR (PLATINUM-COBALT UNITS)	06/02/64-08/22/67	3	40
GRSM0262	00080	COLOR (PLATINUM-COBALT UNITS)	02/23/77-10/11/78	1	12
GRSM0264	00080	COLOR (PLATINUM-COBALT UNITS)	10/20/82-12/14/92	10	73
GRSM0036	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/04/74-01/17/77	2	38

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0041	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/18/82-10/18/82	0	1
GRSM0048	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	03/03/74-01/17/77	2	36
GRSM0054	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/15/77-09/20/77	0	8
GRSM0057	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	01/28/74-09/19/77	3	45
GRSM0061	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/19/82-10/19/82	0	1
GRSM0072	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	12/13/83-05/08/85	1	22
GRSM0077	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/18/82-10/18/82	0	1
GRSM0078	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	01/28/74-01/24/77	2	37
GRSM0193	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	05/11/83-08/31/83	0	6
GRSM0200	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	05/11/83-08/31/83	0	6
GRSM0202	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	04/24/74-01/14/75	0	5
GRSM0229	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	12/13/83-05/15/85	1	51
GRSM0244	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/10/67-12/06/68	1	14
GRSM0250	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/21/75-02/08/77	1	17
GRSM0258	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	11/03/71-09/06/83	11	3
GRSM0261	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	06/02/64-08/22/67	3	40
GRSM0262	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/23/77-08/09/77	0	7
GRSM0264	00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/16/83-12/14/92	9	26
GRSM0256	00082	COLOR,SPECTROPHOTO,WATER SMPL AT7.6PH ADMI UNITS	11/12/86-12/05/94	8	43
GRSM0256	00083	COLOR,SPECTROPHTOMETRIC,FIL.WATER SPL ADMI UNITS	11/12/86-12/05/94	8	45
GRSM0021	00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	05/03/66-01/31/67	0	9
GRSM0057	00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	05/04/66-01/30/67	0	8
GRSM0258	00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	01/07/65-11/03/71	6	9
GRSM0006	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	04/25/79-04/25/79	0	26
GRSM0008	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	04/25/79-04/25/79	0	40
GRSM0069	00090	OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)	04/25/79-04/25/79	0	43
GRSM0003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/22/93-10/19/94	1	245
GRSM0004	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	0	14
GRSM0009	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	13	137
GRSM0013	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	13	79
GRSM0016	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM.@ 25C)	08/12/81-08/29/94	13	68
GRSM0019	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	0	16
GRSM0020	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/22/93-10/19/94	1	247
GRSM0023	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	0	16
GRSM0024	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	13	74
GRSM0027	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	13	80
GRSM0030	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	0	17
GRSM0032	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	6	7
GRSM0038	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/87-08/10/94	7	18
GRSM0041	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/18/82	0	20
GRSM0042	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	6	38
GRSM0045	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	6	37
GRSM0055	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-08/20/86	5	58
GRSM0057	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/29/88-04/29/88	0	1
GRSM0060	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	0	21
GRSM0061	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/19/82-04/29/88	5	95
GRSM0063	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/05/87-08/29/94	7	41
GRSM0066	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	6	24
GRSM0069	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/21/93-10/20/94	1	527
GRSM0072	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/13/83-05/08/85	1	6
GRSM0077	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/18/82	0	20
GRSM0103	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/23/91-09/30/91	0	5
GRSM0114	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-04/13/94	0	5
GRSM0117	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-04/13/94	0	5
GRSM0118	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-05/03/94	0	6
GRSM0119	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/15/93-05/03/94	0	8
GRSM0121	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-04/13/94	0	5
GRSM0122	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-04/13/94	0	5
GRSM0126	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/15/73-11/13/73	0	7
GRSM0127	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/17/93-05/03/94	0	8
GRSM0128	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/17/93-05/03/94	0	8
GRSM0130	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	01/24/94-04/13/94	0	3
GRSM0131	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/17/93-04/13/94	0	5
GRSM0133	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/16/93-04/13/94	0	6
GRSM0184	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/15/80-10/15/80	0	1
GRSM0185	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	13	111
GRSM0193	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/11/83-08/31/83	0	22
GRSM0197	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/01/90-07/28/92	1	26
GRSM0200	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/11/83-08/31/83	0	39
GRSM0201	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/11/83-08/31/83	0	5
GRSM0203	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/01/90-07/28/92	1	17
GRSM0207	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/31/83-08/31/83	0	8

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0209	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/11/83-08/31/83	0	58
GRSM0210	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/01/90-07/28/92	1	32
GRSM0229	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/13/83-05/15/85	1	7
GRSM0247	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/20/73-09/20/73	0	5
GRSM0256	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/28/81-12/05/94	13	114
GRSM0257	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/20/73-09/20/73	0	4
GRSM0258	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/12/83-09/06/83	0	2
GRSM0265	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	06/28/89-06/28/89	0	3
GRSM0004	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/03/73-06/03/73	0	9
GRSM0006	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/79-09/26/79	0	75
GRSM0007	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-07/31/79	5	13
GRSM0008	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/79-09/26/79	0	103
GRSM0009	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/14/90	15	61
GRSM0010	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	15	72
GRSM0011	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/12/74-07/13/77	2	3
GRSM0013	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	5	19
GRSM0016	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	5	15
GRSM0019	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	0	10
GRSM0021	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/03/66-01/31/67	0	9
GRSM0022	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-07/31/79	5	15
GRSM0023	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	0	8
GRSM0024	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	5	18
GRSM0027	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	5	15
GRSM0030	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	0	8
GRSM0031	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/73-09/06/73	0	4
GRSM0036	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/04/74-01/17/77	2	38
GRSM0037	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/29/74-03/12/81	6	47
GRSM0041	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/82-10/18/82	0	1
GRSM0048	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/03/74-01/17/77	2	36
GRSM0050	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	0	1
GRSM0052	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	0	1
GRSM0054	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/15/77-12/27/78	1	23
GRSM0055	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/27/74-12/07/81	7	52
GRSM0056	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/21/68-05/24/72	4	11
GRSM0057	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	14	68
GRSM0060	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	0	10
GRSM0061	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/82-10/19/82	0	1
GRSM0063	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-07/16/79	5	15
GRSM0069	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/13/79-09/26/79	0	104
GRSM0070	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/12/74-11/14/74	0	2
GRSM0071	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/25/85-07/11/85	0	4
GRSM0072	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/23/84-06/07/85	1	32
GRSM0073	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/12/74-11/14/74	0	2
GRSM0074	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/06/56-04/13/62	5	8
GRSM0076	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	0	1
GRSM0077	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/82-10/18/82	0	1
GRSM0078	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/28/74-01/24/77	2	37
GRSM0080	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	0	1
GRSM0081	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/25/85-07/08/85	0	4
GRSM0084	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/68-03/24/69	0	8
GRSM0085	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/24/75	0	6
GRSM0086	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/20/85-07/03/85	0	4
GRSM0087	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/67-03/24/69	2	17
GRSM0088	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/74-02/24/75	0	5
GRSM0091	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/23/73-03/10/78	4	4
GRSM0094	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/82-03/26/82	0	1
GRSM0095	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/03/85-07/03/85	0	1
GRSM0098	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/82-03/26/82	0	1
GRSM0099	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/22/85-07/16/85	0	2
GRSM0100	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/08/85-07/08/85	0	1
GRSM0101	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/24/75	0	6
GRSM0102	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/68-03/24/69	0	8
GRSM0105	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/68-03/24/69	0	9
GRSM0106	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/25/85-07/16/85	0	4
GRSM0107	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/68-09/24/68	0	1
GRSM0108	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/82-03/26/82	0	1
GRSM0109	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/24/75	0	6
GRSM0110	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/12/81-03/26/82	0	3
GRSM0112	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/12/81-06/21/82	0	13
GRSM0113	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-10/20/82	0	513
GRSM0115	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/11/82-08/11/82	0	1
GRSM0116	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-10/20/82	0	380

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0120	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/68-09/24/68	0	1
GRSM0126	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/27/73-11/13/73	0	12
GRSM0134	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/22/82-03/26/82	0	2
GRSM0136	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/12/81-11/12/81	0	1
GRSM0137	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-04/22/82	0	3
GRSM0138	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/12/81-03/24/82	0	3
GRSM0139	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/22/82-03/22/82	0	1
GRSM0141	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-12/02/81	0	1
GRSM0142	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-03/24/82	0	2
GRSM0143	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/22/82-03/22/82	0	1
GRSM0144	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	0	1
GRSM0145	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/22/82-03/22/82	0	1
GRSM0146	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/82-03/24/82	0	1
GRSM0148	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/82-03/24/82	0	1
GRSM0150	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/82-03/26/82	0	1
GRSM0151	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/79-04/11/79	0	1
GRSM0152	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/10/85-07/10/85	0	1
GRSM0155	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/79-04/11/79	0	1
GRSM0157	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/79-04/11/79	0	1
GRSM0160	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/20/82-04/20/82	0	1
GRSM0161	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	0	1
GRSM0163	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/23/82-04/20/82	0	2
GRSM0164	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	0	1
GRSM0166	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/23/82-03/23/82	0	1
GRSM0167	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/21/82-04/21/82	0	1
GRSM0168	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/21/82-04/21/82	0	1
GRSM0169	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/23/82-03/23/82	0	1
GRSM0173	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-03/25/82	0	2
GRSM0175	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-03/25/82	0	2
GRSM0177	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	0	1
GRSM0178	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/68-09/24/68	0	1
GRSM0182	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/10/63-11/22/94	31	122
GRSM0184	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/62-05/11/93	30	203
GRSM0185	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/29/74-12/14/89	15	102
GRSM0186	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/23/76-04/23/76	0	1
GRSM0189	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/11/79-04/11/79	0	1
GRSM0190	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/27/85-07/10/85	0	4
GRSM0191	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	0	1
GRSM0194	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/25/85-07/08/85	0	4
GRSM0195	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/85-07/16/85	0	1
GRSM0196	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/20/91-08/28/91	0	2
GRSM0202	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/08/68-03/18/75	7	19
GRSM0206	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/08/85-07/08/85	0	1
GRSM0208	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/29/84-11/29/84	0	1
GRSM0213	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/28/85-07/16/85	0	4
GRSM0214	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/05/78-05/05/78	0	1
GRSM0215	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/74-04/24/74	0	1
GRSM0216	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/78-05/04/78	0	1
GRSM0217	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/06/78-05/06/78	0	1
GRSM0220	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/83-09/26/85	1	5
GRSM0221	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	0	1
GRSM0222	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/08/68-04/24/74	6	7
GRSM0223	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/06/67-08/01/68	0	4
GRSM0227	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/25/68-09/25/68	0	1
GRSM0229	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/22/84-06/08/85	1	70
GRSM0237	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/28/85-07/10/85	0	4
GRSM0238	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/16/76-11/16/76	0	1
GRSM0240	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/68-09/24/68	0	1
GRSM0247	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/73-07/05/73	0	13
GRSM0248	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/24/74-04/24/74	0	1
GRSM0249	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/17/57-07/25/73	15	101
GRSM0250	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/21/75-02/08/77	1	17
GRSM0251	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/21/75-09/07/76	0	13
GRSM0252	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/83-09/26/85	1	5
GRSM0253	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/05/73-06/08/73	0	4
GRSM0254	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/19/75-12/29/81	6	48
GRSM0255	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/07/85-07/07/85	0	1
GRSM0256	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/04/74-12/14/89	15	75
GRSM0257	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/73-07/05/73	0	8
GRSM0259	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/24/85-07/07/85	0	4
GRSM0260	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/01/78-07/17/85	7	11
GRSM0262	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/23/77-10/11/78	1	12

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0264	00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/20/82-12/14/92	10	77
GRSM0112	00117	PRECIPITATION,DURATION OF STORM EVENT, MINUTES		11/30/81-03/16/82	0	6
GRSM0112	00123	PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.1(IN)		11/30/81-08/02/82	0	328
GRSM0112	00132	DRY DAYS PRECEDING PRECIPITATION EVENT,(DAYS)		11/30/81-03/16/82	0	5
GRSM0112	00134	STORM EVENT SERIAL NUMBER MAXIMUM OF 6 SIG.FIG.		11/30/81-03/19/82	0	92
GRSM0050	00154	SULFATE (AS S) WHOLE WATER, MG/L		11/20/84-11/20/84	0	1
GRSM0052	00154	SULFATE (AS S) WHOLE WATER, MG/L		11/20/84-11/20/84	0	1
GRSM0080	00154	SULFATE (AS S) WHOLE WATER, MG/L		11/20/84-11/20/84	0	1
GRSM0177	00154	SULFATE (AS S) WHOLE WATER, MG/L		11/20/84-11/20/84	0	1
GRSM0191	00154	SULFATE (AS S) WHOLE WATER, MG/L		11/20/84-11/20/84	0	1
GRSM0208	00154	SULFATE (AS S) WHOLE WATER, MG/L		11/29/84-11/29/84	0	1
GRSM0013	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS		08/05/87-08/05/87	0	1
GRSM0016	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS		08/05/87-08/05/87	0	1
GRSM0024	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS		08/05/87-08/05/87	0	1
GRSM0027	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS		08/05/87-08/05/87	0	1
GRSM0038	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS		07/27/88-07/27/88	0	1
GRSM0042	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS		07/27/88-07/27/88	0	1
GRSM0045	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS		07/27/88-07/27/88	0	1
GRSM0063	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS		08/05/87-08/05/87	0	1
GRSM0066	00204	DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS		07/27/88-07/27/88	0	1
GRSM0071	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	03/25/85-07/11/85	0	4
GRSM0081	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	03/25/85-07/08/85	0	4
GRSM0086	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	03/20/85-07/03/85	0	4
GRSM0095	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	07/03/85-07/03/85	0	1
GRSM0099	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	04/22/85-07/16/85	0	2
GRSM0100	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	07/08/85-07/08/85	0	1
GRSM0106	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	03/25/85-07/16/85	0	4
GRSM0152	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	07/10/85-07/10/85	0	1
GRSM0190	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	03/27/85-07/10/85	0	4
GRSM0194	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	03/25/85-07/08/85	0	4
GRSM0195	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	07/16/85-07/16/85	0	1
GRSM0206	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	07/08/85-07/08/85	0	1
GRSM0213	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	03/28/85-07/16/85	0	4
GRSM0237	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	03/28/85-07/10/85	0	4
GRSM0255	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	07/07/85-07/07/85	0	1
GRSM0259	00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	03/24/85-07/07/85	0	4
GRSM0003	00300	OXYGEN, DISSOLVED	MG/L	04/22/93-10/19/94	1	245
GRSM0004	00300	OXYGEN, DISSOLVED	MG/L	06/03/73-10/26/73	0	20
GRSM0005	00300	OXYGEN, DISSOLVED	MG/L	09/29/70-09/29/70	0	5
GRSM0006	00300	OXYGEN, DISSOLVED	MG/L	04/25/79-09/26/79	0	101
GRSM0007	00300	OXYGEN, DISSOLVED	MG/L	07/16/74-07/31/79	5	16
GRSM0008	00300	OXYGEN, DISSOLVED	MG/L	09/29/70-09/26/79	8	156
GRSM0009	00300	OXYGEN, DISSOLVED	MG/L	08/13/74-01/09/95	20	231
GRSM0011	00300	OXYGEN, DISSOLVED	MG/L	07/29/68-07/13/77	8	14
GRSM0013	00300	OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	20	102
GRSM0016	00300	OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	20	86
GRSM0019	00300	OXYGEN, DISSOLVED	MG/L	06/02/73-10/26/73	0	24
GRSM0020	00300	OXYGEN, DISSOLVED	MG/L	04/22/93-10/19/94	1	247
GRSM0021	00300	OXYGEN, DISSOLVED	MG/L	05/03/66-01/31/67	0	8
GRSM0022	00300	OXYGEN, DISSOLVED	MG/L	07/16/74-07/31/79	5	18
GRSM0023	00300	OXYGEN, DISSOLVED	MG/L	06/02/73-10/26/73	0	21
GRSM0024	00300	OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	20	96
GRSM0027	00300	OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	20	98
GRSM0030	00300	OXYGEN, DISSOLVED	MG/L	06/02/73-10/26/73	0	22
GRSM0032	00300	OXYGEN, DISSOLVED	MG/L	07/27/88-08/10/94	6	7
GRSM0036	00300	OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	24	820
GRSM0037	00300	OXYGEN, DISSOLVED	MG/L	06/20/68-03/12/81	12	87
GRSM0038	00300	OXYGEN, DISSOLVED	MG/L	07/27/87-08/10/94	7	18
GRSM0041	00300	OXYGEN, DISSOLVED	MG/L	10/18/82-10/18/82	0	20
GRSM0042	00300	OXYGEN, DISSOLVED	MG/L	07/27/88-08/10/94	6	38
GRSM0045	00300	OXYGEN, DISSOLVED	MG/L	07/27/88-08/10/94	6	37
GRSM0048	00300	OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	21	311
GRSM0054	00300	OXYGEN, DISSOLVED	MG/L	03/15/77-12/27/78	1	22
GRSM0055	00300	OXYGEN, DISSOLVED	MG/L	06/20/68-10/22/86	18	154
GRSM0056	00300	OXYGEN, DISSOLVED	MG/L	05/21/68-02/21/73	4	10
GRSM0057	00300	OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	32	867
GRSM0059	00300	OXYGEN, DISSOLVED	MG/L	06/20/68-11/27/74	6	8
GRSM0060	00300	OXYGEN, DISSOLVED	MG/L	06/02/73-10/26/73	0	28
GRSM0061	00300	OXYGEN, DISSOLVED	MG/L	10/19/82-04/29/88	5	173
GRSM0063	00300	OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	20	60
GRSM0066	00300	OXYGEN, DISSOLVED	MG/L	07/27/88-08/10/94	6	24
GRSM0069	00300	OXYGEN, DISSOLVED	MG/L	04/25/79-10/20/94	15	681

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0070	00300	OXYGEN, DISSOLVED	MG/L	07/29/68-03/24/76	7	16
GRSM0072	00300	OXYGEN, DISSOLVED	MG/L	12/13/83-08/29/84	0	4
GRSM0073	00300	OXYGEN, DISSOLVED	MG/L	07/29/68-01/29/75	6	15
GRSM0077	00300	OXYGEN, DISSOLVED	MG/L	08/15/79-10/18/82	3	21
GRSM0078	00300	OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	23	1109
GRSM0084	00300	OXYGEN, DISSOLVED	MG/L	04/30/68-03/24/69	0	8
GRSM0085	00300	OXYGEN, DISSOLVED	MG/L	08/13/74-02/24/75	0	10
GRSM0087	00300	OXYGEN, DISSOLVED	MG/L	01/23/67-03/24/69	2	16
GRSM0088	00300	OXYGEN, DISSOLVED	MG/L	08/13/74-02/24/75	0	8
GRSM0094	00300	OXYGEN, DISSOLVED	MG/L	03/26/82-03/26/82	0	1
GRSM0098	00300	OXYGEN, DISSOLVED	MG/L	03/26/82-03/26/82	0	1
GRSM0101	00300	OXYGEN, DISSOLVED	MG/L	08/13/74-02/24/75	0	10
GRSM0102	00300	OXYGEN, DISSOLVED	MG/L	04/30/68-03/24/69	0	8
GRSM0103	00300	OXYGEN, DISSOLVED	MG/L	05/23/91-09/30/91	0	6
GRSM0105	00300	OXYGEN, DISSOLVED	MG/L	04/30/68-03/24/69	0	9
GRSM0108	00300	OXYGEN, DISSOLVED	MG/L	03/26/82-03/26/82	0	1
GRSM0109	00300	OXYGEN, DISSOLVED	MG/L	08/13/74-02/24/75	0	10
GRSM0110	00300	OXYGEN, DISSOLVED	MG/L	12/02/81-03/26/82	0	2
GRSM0112	00300	OXYGEN, DISSOLVED	MG/L	12/01/81-06/21/82	0	6
GRSM0113	00300	OXYGEN, DISSOLVED	MG/L	12/02/81-10/20/82	0	513
GRSM0114	00300	OXYGEN, DISSOLVED	MG/L	11/16/93-04/13/94	0	5
GRSM0115	00300	OXYGEN, DISSOLVED	MG/L	08/11/82-08/11/82	0	1
GRSM0116	00300	OXYGEN, DISSOLVED	MG/L	07/27/82-10/20/82	0	380
GRSM0117	00300	OXYGEN, DISSOLVED	MG/L	11/16/93-04/13/94	0	5
GRSM0118	00300	OXYGEN, DISSOLVED	MG/L	11/16/93-05/03/94	0	6
GRSM0119	00300	OXYGEN, DISSOLVED	MG/L	12/15/93-05/03/94	0	8
GRSM0121	00300	OXYGEN, DISSOLVED	MG/L	11/16/93-04/13/94	0	5
GRSM0122	00300	OXYGEN, DISSOLVED	MG/L	11/16/93-04/13/94	0	5
GRSM0126	00300	OXYGEN, DISSOLVED	MG/L	06/27/73-11/13/73	0	9
GRSM0127	00300	OXYGEN, DISSOLVED	MG/L	11/17/93-05/03/94	0	9
GRSM0128	00300	OXYGEN, DISSOLVED	MG/L	11/17/93-05/03/94	0	8
GRSM0130	00300	OXYGEN, DISSOLVED	MG/L	01/24/94-04/13/94	0	3
GRSM0131	00300	OXYGEN, DISSOLVED	MG/L	11/17/93-04/13/94	0	5
GRSM0133	00300	OXYGEN, DISSOLVED	MG/L	09/16/93-04/13/94	0	6
GRSM0134	00300	OXYGEN, DISSOLVED	MG/L	03/22/82-03/26/82	0	2
GRSM0137	00300	OXYGEN, DISSOLVED	MG/L	12/02/81-04/22/82	0	3
GRSM0138	00300	OXYGEN, DISSOLVED	MG/L	12/02/81-03/24/82	0	2
GRSM0139	00300	OXYGEN, DISSOLVED	MG/L	03/22/82-03/22/82	0	1
GRSM0141	00300	OXYGEN, DISSOLVED	MG/L	12/02/81-12/02/81	0	1
GRSM0142	00300	OXYGEN, DISSOLVED	MG/L	12/02/81-03/24/82	0	2
GRSM0143	00300	OXYGEN, DISSOLVED	MG/L	03/22/82-03/22/82	0	1
GRSM0145	00300	OXYGEN, DISSOLVED	MG/L	03/22/82-03/22/82	0	1
GRSM0146	00300	OXYGEN, DISSOLVED	MG/L	03/24/82-03/24/82	0	1
GRSM0148	00300	OXYGEN, DISSOLVED	MG/L	03/24/82-03/24/82	0	1
GRSM0150	00300	OXYGEN, DISSOLVED	MG/L	03/26/82-03/26/82	0	1
GRSM0151	00300	OXYGEN, DISSOLVED	MG/L	04/11/79-04/11/79	0	1
GRSM0155	00300	OXYGEN, DISSOLVED	MG/L	04/11/79-04/11/79	0	1
GRSM0157	00300	OXYGEN, DISSOLVED	MG/L	04/11/79-04/11/79	0	1
GRSM0160	00300	OXYGEN, DISSOLVED	MG/L	04/20/82-04/20/82	0	1
GRSM0163	00300	OXYGEN, DISSOLVED	MG/L	03/23/82-04/20/82	0	2
GRSM0166	00300	OXYGEN, DISSOLVED	MG/L	03/23/82-03/23/82	0	1
GRSM0167	00300	OXYGEN, DISSOLVED	MG/L	04/21/82-04/21/82	0	1
GRSM0168	00300	OXYGEN, DISSOLVED	MG/L	04/21/82-04/21/82	0	1
GRSM0169	00300	OXYGEN, DISSOLVED	MG/L	03/23/82-03/23/82	0	1
GRSM0171	00300	OXYGEN, DISSOLVED	MG/L	04/15/81-07/23/81	0	4
GRSM0173	00300	OXYGEN, DISSOLVED	MG/L	12/02/81-03/25/82	0	2
GRSM0175	00300	OXYGEN, DISSOLVED	MG/L	12/02/81-03/25/82	0	2
GRSM0182	00300	OXYGEN, DISSOLVED	MG/L	10/12/67-11/22/94	27	48
GRSM0184	00300	OXYGEN, DISSOLVED	MG/L	03/05/68-05/11/93	25	205
GRSM0185	00300	OXYGEN, DISSOLVED	MG/L	09/04/73-12/05/94	21	278
GRSM0186	00300	OXYGEN, DISSOLVED	MG/L	04/23/76-04/23/76	0	1
GRSM0189	00300	OXYGEN, DISSOLVED	MG/L	04/11/79-04/11/79	0	1
GRSM0192	00300	OXYGEN, DISSOLVED	MG/L	04/15/81-07/23/81	0	5
GRSM0193	00300	OXYGEN, DISSOLVED	MG/L	05/11/83-08/31/83	0	22
GRSM0196	00300	OXYGEN, DISSOLVED	MG/L	08/20/91-08/20/91	0	1
GRSM0197	00300	OXYGEN, DISSOLVED	MG/L	08/01/90-07/28/92	1	26
GRSM0200	00300	OXYGEN, DISSOLVED	MG/L	05/11/83-08/31/83	0	39
GRSM0201	00300	OXYGEN, DISSOLVED	MG/L	05/11/83-08/31/83	0	5
GRSM0202	00300	OXYGEN, DISSOLVED	MG/L	01/08/68-03/18/75	7	19
GRSM0203	00300	OXYGEN, DISSOLVED	MG/L	08/01/90-07/28/92	1	17
GRSM0207	00300	OXYGEN, DISSOLVED	MG/L	08/31/83-08/31/83	0	8
GRSM0209	00300	OXYGEN, DISSOLVED	MG/L	05/11/83-08/31/83	0	58

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0210	00300	OXYGEN, DISSOLVED	MG/L	08/01/90-07/28/92	1	32
GRSM0215	00300	OXYGEN, DISSOLVED	MG/L	01/08/68-03/18/75	7	22
GRSM0218	00300	OXYGEN, DISSOLVED	MG/L	04/15/81-08/13/81	0	5
GRSM0219	00300	OXYGEN, DISSOLVED	MG/L	04/15/81-08/13/81	0	5
GRSM0222	00300	OXYGEN, DISSOLVED	MG/L	01/08/68-03/18/75	7	22
GRSM0225	00300	OXYGEN, DISSOLVED	MG/L	04/15/81-08/13/81	0	5
GRSM0226	00300	OXYGEN, DISSOLVED	MG/L	05/30/81-08/13/81	0	3
GRSM0228	00300	OXYGEN, DISSOLVED	MG/L	05/06/81-05/06/81	0	1
GRSM0229	00300	OXYGEN, DISSOLVED	MG/L	12/13/83-08/28/84	0	4
GRSM0234	00300	OXYGEN, DISSOLVED	MG/L	04/15/81-08/13/81	0	5
GRSM0236	00300	OXYGEN, DISSOLVED	MG/L	04/15/81-08/13/81	0	6
GRSM0239	00300	OXYGEN, DISSOLVED	MG/L	04/15/81-08/13/81	0	6
GRSM0242	00300	OXYGEN, DISSOLVED	MG/L	08/26/68-08/26/68	0	1
GRSM0244	00300	OXYGEN, DISSOLVED	MG/L	10/10/67-12/06/68	1	15
GRSM0247	00300	OXYGEN, DISSOLVED	MG/L	03/24/73-09/20/73	0	16
GRSM0248	00300	OXYGEN, DISSOLVED	MG/L	04/24/74-03/18/75	0	14
GRSM0249	00300	OXYGEN, DISSOLVED	MG/L	06/27/68-07/25/73	5	30
GRSM0250	00300	OXYGEN, DISSOLVED	MG/L	10/21/75-06/01/94	18	19
GRSM0251	00300	OXYGEN, DISSOLVED	MG/L	10/21/75-09/07/76	0	13
GRSM0253	00300	OXYGEN, DISSOLVED	MG/L	06/05/73-06/08/73	0	4
GRSM0256	00300	OXYGEN, DISSOLVED	MG/L	04/06/72-12/05/94	22	247
GRSM0257	00300	OXYGEN, DISSOLVED	MG/L	03/24/73-09/20/73	0	10
GRSM0258	00300	OXYGEN, DISSOLVED	MG/L	01/07/65-09/06/83	18	11
GRSM0262	00300	OXYGEN, DISSOLVED	MG/L	02/23/77-10/11/78	1	12
GRSM0264	00300	OXYGEN, DISSOLVED	MG/L	10/20/82-12/14/92	10	77
GRSM0265	00300	OXYGEN, DISSOLVED	MG/L	06/28/89-06/28/89	0	3
GRSM0007	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	07/16/74-07/20/77	3	4
GRSM0009	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	08/13/74-09/05/85	11	83
GRSM0011	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	07/29/68-12/10/74	6	13
GRSM0013	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	07/16/74-07/20/77	3	8
GRSM0016	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	07/16/74-07/20/77	3	4
GRSM0022	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	07/16/74-07/20/77	3	4
GRSM0024	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	07/16/74-08/05/87	13	10
GRSM0027	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	07/16/74-07/20/77	3	4
GRSM0037	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	06/20/68-07/18/78	10	50
GRSM0055	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	06/20/68-09/06/85	17	83
GRSM0059	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	06/20/68-11/27/74	6	8
GRSM0063	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	07/16/74-07/20/77	3	4
GRSM0070	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	07/29/68-03/24/76	7	16
GRSM0073	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	07/29/68-01/29/75	6	14
GRSM0085	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	08/13/74-02/24/75	0	8
GRSM0088	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	08/13/74-02/24/75	0	6
GRSM0101	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	08/13/74-02/24/75	0	7
GRSM0109	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	08/13/74-02/24/75	0	8
GRSM0182	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	01/17/68-03/18/68	0	2
GRSM0184	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	07/05/68-07/05/68	0	1
GRSM0185	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	09/04/73-09/19/85	12	149
GRSM0210	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	07/28/92-07/28/92	0	1
GRSM0256	00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	09/09/71-09/19/85	14	113
GRSM0193	00303	BOD, 1DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00303	BOD, 1DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00303	BOD, 1DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0193	00304	BOD, 2 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00304	BOD, 2 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00304	BOD, 2 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0193	00305	BOD, 3 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00305	BOD, 3 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00305	BOD, 3 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0193	00306	BOD, 4 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00306	BOD, 4 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00306	BOD, 4 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0007	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C	MG/L	07/16/74-07/29/75	1	2
GRSM0011	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C	MG/L	09/12/74-11/14/74	0	2
GRSM0013	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C	MG/L	07/16/74-07/31/75	1	5
GRSM0016	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C	MG/L	07/16/74-07/29/75	1	2
GRSM0022	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C	MG/L	07/16/74-07/29/75	1	2
GRSM0024	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C	MG/L	07/16/74-07/31/75	1	5
GRSM0027	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C	MG/L	07/16/74-07/29/75	1	2
GRSM0063	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C	MG/L	07/16/74-07/29/75	1	2
GRSM0070	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C	MG/L	09/12/74-11/14/74	0	2
GRSM0073	00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C	MG/L	09/12/74-11/14/74	0	2
GRSM0006	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/25/79-09/26/79	0	8

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0008	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/25/79-09/26/79	0	8
GRSM0009	00310	BOD, 5 DAY, 20 DEG C	MG/L	08/13/74-06/08/93	18	156
GRSM0011	00310	BOD, 5 DAY, 20 DEG C	MG/L	07/29/68-07/28/71	2	7
GRSM0021	00310	BOD, 5 DAY, 20 DEG C	MG/L	05/03/66-01/31/67	0	9
GRSM0036	00310	BOD, 5 DAY, 20 DEG C	MG/L	03/18/76-11/10/76	0	3
GRSM0037	00310	BOD, 5 DAY, 20 DEG C	MG/L	11/26/73-03/12/81	7	78
GRSM0048	00310	BOD, 5 DAY, 20 DEG C	MG/L	03/18/76-07/22/76	0	3
GRSM0054	00310	BOD, 5 DAY, 20 DEG C	MG/L	02/15/77-12/27/78	1	23
GRSM0055	00310	BOD, 5 DAY, 20 DEG C	MG/L	11/26/73-08/20/86	12	128
GRSM0057	00310	BOD, 5 DAY, 20 DEG C	MG/L	05/04/66-06/17/80	14	20
GRSM0069	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/25/79-09/26/79	0	8
GRSM0070	00310	BOD, 5 DAY, 20 DEG C	MG/L	07/29/68-03/24/76	7	11
GRSM0073	00310	BOD, 5 DAY, 20 DEG C	MG/L	07/29/68-01/29/75	6	10
GRSM0078	00310	BOD, 5 DAY, 20 DEG C	MG/L	03/18/76-11/10/76	0	3
GRSM0084	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/30/68-03/24/69	0	8
GRSM0085	00310	BOD, 5 DAY, 20 DEG C	MG/L	08/13/74-02/24/75	0	9
GRSM0087	00310	BOD, 5 DAY, 20 DEG C	MG/L	01/23/67-03/24/69	2	17
GRSM0088	00310	BOD, 5 DAY, 20 DEG C	MG/L	08/13/74-02/24/75	0	8
GRSM0101	00310	BOD, 5 DAY, 20 DEG C	MG/L	08/13/74-02/24/75	0	9
GRSM0102	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/30/68-03/24/69	0	8
GRSM0105	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/30/68-03/24/69	0	9
GRSM0109	00310	BOD, 5 DAY, 20 DEG C	MG/L	08/13/74-02/24/75	0	9
GRSM0114	00310	BOD, 5 DAY, 20 DEG C	MG/L	09/15/93-04/13/94	0	6
GRSM0117	00310	BOD, 5 DAY, 20 DEG C	MG/L	09/15/93-04/13/94	0	6
GRSM0118	00310	BOD, 5 DAY, 20 DEG C	MG/L	09/15/93-03/16/94	0	5
GRSM0119	00310	BOD, 5 DAY, 20 DEG C	MG/L	12/15/93-05/03/94	0	5
GRSM0121	00310	BOD, 5 DAY, 20 DEG C	MG/L	09/15/93-03/16/94	0	6
GRSM0122	00310	BOD, 5 DAY, 20 DEG C	MG/L	09/15/93-04/13/94	0	6
GRSM0127	00310	BOD, 5 DAY, 20 DEG C	MG/L	09/15/93-05/03/94	0	8
GRSM0128	00310	BOD, 5 DAY, 20 DEG C	MG/L	11/17/93-05/03/94	0	7
GRSM0130	00310	BOD, 5 DAY, 20 DEG C	MG/L	01/24/94-04/13/94	0	3
GRSM0131	00310	BOD, 5 DAY, 20 DEG C	MG/L	11/17/93-04/13/94	0	5
GRSM0133	00310	BOD, 5 DAY, 20 DEG C	MG/L	09/16/93-04/13/94	0	4
GRSM0171	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/15/81-07/23/81	0	4
GRSM0182	00310	BOD, 5 DAY, 20 DEG C	MG/L	10/12/67-07/23/68	0	10
GRSM0184	00310	BOD, 5 DAY, 20 DEG C	MG/L	11/01/67-07/12/78	10	74
GRSM0185	00310	BOD, 5 DAY, 20 DEG C	MG/L	09/04/73-06/26/91	17	231
GRSM0192	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/15/81-07/23/81	0	5
GRSM0193	00310	BOD, 5 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00310	BOD, 5 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0202	00310	BOD, 5 DAY, 20 DEG C	MG/L	01/08/68-03/18/75	7	19
GRSM0215	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/24/74-03/18/75	0	14
GRSM0218	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/15/81-08/13/81	0	5
GRSM0219	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/15/81-08/13/81	0	5
GRSM0222	00310	BOD, 5 DAY, 20 DEG C	MG/L	01/08/68-03/18/75	7	20
GRSM0225	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/15/81-08/13/81	0	5
GRSM0226	00310	BOD, 5 DAY, 20 DEG C	MG/L	05/30/81-08/13/81	0	3
GRSM0228	00310	BOD, 5 DAY, 20 DEG C	MG/L	05/06/81-05/06/81	0	1
GRSM0234	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/15/81-08/13/81	0	5
GRSM0236	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/15/81-08/13/81	0	6
GRSM0239	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/15/81-08/13/81	0	6
GRSM0244	00310	BOD, 5 DAY, 20 DEG C	MG/L	10/10/67-12/06/68	1	15
GRSM0248	00310	BOD, 5 DAY, 20 DEG C	MG/L	04/24/74-03/18/75	0	14
GRSM0249	00310	BOD, 5 DAY, 20 DEG C	MG/L	08/18/69-03/28/73	3	22
GRSM0250	00310	BOD, 5 DAY, 20 DEG C	MG/L	11/18/75-02/08/77	1	19
GRSM0251	00310	BOD, 5 DAY, 20 DEG C	MG/L	11/18/75-09/07/76	0	14
GRSM0253	00310	BOD, 5 DAY, 20 DEG C	MG/L	06/05/73-06/08/73	0	4
GRSM0256	00310	BOD, 5 DAY, 20 DEG C	MG/L	07/02/68-06/26/91	22	210
GRSM0258	00310	BOD, 5 DAY, 20 DEG C	MG/L	01/07/65-09/06/83	18	11
GRSM0262	00310	BOD, 5 DAY, 20 DEG C	MG/L	02/23/77-10/11/78	1	12
GRSM0264	00310	BOD, 5 DAY, 20 DEG C	MG/L	10/20/82-12/14/92	10	71
GRSM0193	00312	BOD, 6 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00312	BOD, 6 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00312	BOD, 6 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0193	00315	BOD, 7 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00315	BOD, 7 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00315	BOD, 7 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0193	00316	BOD, 8 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00316	BOD, 8 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00316	BOD, 8 DAY, 20 DEG C	MG/L	09/06/83-09/06/83	0	1
GRSM0193	00317	BOD, 9 DAY, 20 DEG C	MG/L	08/31/83-08/31/83	0	3
GRSM0200	00317	BOD, 9 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	4

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0258	00317	BOD, 9 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0193	00322	BOD, 10 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00322	BOD, 10 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00322	BOD, 10 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0193	00323	BOD, 15 DAY, 20 DEG C	MG/L	08/31/83-08/31/83	0	3
GRSM0200	00323	BOD, 15 DAY, 20 DEG C	MG/L	08/31/83-08/31/83	0	3
GRSM0193	00324	BOD, 20 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00324	BOD, 20 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0264	00324	BOD, 20 DAY, 20 DEG C	MG/L	12/16/82-02/25/92	9	27
GRSM0005	00326	BOD, 28 DAY, 20 DEG C	MG.L	09/29/70-09/29/70	0	1
GRSM0008	00326	BOD, 28 DAY, 20 DEG C	MG.L	09/29/70-09/29/70	0	1
GRSM0258	00326	BOD, 28 DAY, 20 DEG C	MG.L	05/12/83-09/06/83	0	2
GRSM0193	00327	BOD, 11DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00327	BOD, 11DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00328	BOD, 12 DAY, 20 DEG C	MG/L	05/11/83-05/11/83	0	2
GRSM0258	00328	BOD, 12 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0193	00329	BOD, 13 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00329	BOD, 13 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00331	BOD, 16 DAY, 20 DEG C	MG/L	09/06/83-09/06/83	0	1
GRSM0258	00332	BOD, 17 DAYS, 20 DEG C	MG/L	05/12/83-05/12/83	0	1
GRSM0193	00333	BOD, 18 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00333	BOD, 18 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00334	BOD, 19 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0009	00335	COD, .025N K2CR2O7	MG/L	05/10/81-11/20/84	3	18
GRSM0021	00335	COD, .025N K2CR2O7	MG/L	01/31/67-01/31/67	0	1
GRSM0036	00335	COD, .025N K2CR2O7	MG/L	02/04/74-01/17/77	2	38
GRSM0037	00335	COD, .025N K2CR2O7	MG/L	11/26/73-12/05/73	0	2
GRSM0048	00335	COD, .025N K2CR2O7	MG/L	03/03/74-01/17/77	2	36
GRSM0054	00335	COD, .025N K2CR2O7	MG/L	02/15/77-10/24/78	1	8
GRSM0055	00335	COD, .025N K2CR2O7	MG/L	11/26/73-12/31/84	11	46
GRSM0057	00335	COD, .025N K2CR2O7	MG/L	01/28/74-02/26/79	5	51
GRSM0078	00335	COD, .025N K2CR2O7	MG/L	01/28/74-01/24/77	2	37
GRSM0087	00335	COD, .025N K2CR2O7	MG/L	01/23/67-05/27/67	0	9
GRSM0171	00335	COD, .025N K2CR2O7	MG/L	04/15/81-07/23/81	0	4
GRSM0184	00335	COD, .025N K2CR2O7	MG/L	09/04/73-01/15/74	0	15
GRSM0185	00335	COD, .025N K2CR2O7	MG/L	09/04/73-12/11/84	11	58
GRSM0192	00335	COD, .025N K2CR2O7	MG/L	04/15/81-07/23/81	0	5
GRSM0202	00335	COD, .025N K2CR2O7	MG/L	04/24/74-01/14/75	0	4
GRSM0218	00335	COD, .025N K2CR2O7	MG/L	04/15/81-08/13/81	0	5
GRSM0219	00335	COD, .025N K2CR2O7	MG/L	04/15/81-08/13/81	0	5
GRSM0225	00335	COD, .025N K2CR2O7	MG/L	04/15/81-08/13/81	0	5
GRSM0226	00335	COD, .025N K2CR2O7	MG/L	05/30/81-08/13/81	0	3
GRSM0228	00335	COD, .025N K2CR2O7	MG/L	05/06/81-05/06/81	0	1
GRSM0234	00335	COD, .025N K2CR2O7	MG/L	04/15/81-08/13/81	0	5
GRSM0236	00335	COD, .025N K2CR2O7	MG/L	04/15/81-08/13/81	0	6
GRSM0239	00335	COD, .025N K2CR2O7	MG/L	04/15/81-08/13/81	0	6
GRSM0250	00335	COD, .025N K2CR2O7	MG/L	10/21/75-02/08/77	1	17
GRSM0251	00335	COD, .025N K2CR2O7	MG/L	10/21/75-09/07/76	0	13
GRSM0256	00335	COD, .025N K2CR2O7	MG/L	10/18/73-12/11/84	11	50
GRSM0262	00335	COD, .025N K2CR2O7	MG/L	02/23/77-10/11/78	1	9
GRSM0264	00335	COD, .025N K2CR2O7	MG/L	10/20/82-12/14/92	10	74
GRSM0193	00336	BOD, 22 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00336	BOD, 22 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00337	BOD, 23 DAY, 20 DEG C	MG/L	09/06/83-09/06/83	0	1
GRSM0258	00338	BOD, 24 DAY, 20 DEG C	MG/L	05/12/83-05/12/83	0	1
GRSM0035	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT	MG/KG	06/27/73-06/27/73	0	1
GRSM0053	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT	MG/KG	06/27/73-06/27/73	0	1
GRSM0097	00339	COD, BOTTOM DEPOSITS, DRY WEIGHT	MG/KG	06/27/73-06/27/73	0	1
GRSM0009	00340	COD, .25N K2CR2O7	MG/L	01/02/75-04/16/81	6	63
GRSM0013	00340	COD, .25N K2CR2O7	MG/L	06/17/80-06/17/80	0	1
GRSM0016	00340	COD, .25N K2CR2O7	MG/L	06/17/80-06/17/80	0	1
GRSM0024	00340	COD, .25N K2CR2O7	MG/L	06/17/80-06/17/80	0	1
GRSM0027	00340	COD, .25N K2CR2O7	MG/L	06/17/80-06/17/80	0	1
GRSM0037	00340	COD, .25N K2CR2O7	MG/L	04/02/74-03/12/81	6	74
GRSM0055	00340	COD, .25N K2CR2O7	MG/L	04/02/74-04/16/81	7	72
GRSM0070	00340	COD, .25N K2CR2O7	MG/L	01/29/75-03/24/76	1	2
GRSM0073	00340	COD, .25N K2CR2O7	MG/L	01/29/75-01/29/75	0	1
GRSM0085	00340	COD, .25N K2CR2O7	MG/L	01/29/75-01/29/75	0	1
GRSM0101	00340	COD, .25N K2CR2O7	MG/L	01/29/75-01/29/75	0	1
GRSM0109	00340	COD, .25N K2CR2O7	MG/L	01/29/75-01/29/75	0	1
GRSM0151	00340	COD, .25N K2CR2O7	MG/L	04/11/79-10/24/79	0	3
GRSM0155	00340	COD, .25N K2CR2O7	MG/L	04/11/79-10/24/79	0	3

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0157	00340	COD, .25N K2CR2O7	MG/L	04/11/79-10/24/79	0	3
GRSM0184	00340	COD, .25N K2CR2O7	MG/L	01/24/74-07/12/78	4	33
GRSM0185	00340	COD, .25N K2CR2O7	MG/L	01/24/74-04/23/81	7	136
GRSM0189	00340	COD, .25N K2CR2O7	MG/L	04/11/79-10/24/79	0	3
GRSM0256	00340	COD, .25N K2CR2O7	MG/L	10/18/68-08/04/81	12	100
GRSM0193	00345	BOD, 25 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00345	BOD, 25 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00346	BOD, 26 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0193	00347	BOD, 27 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00347	BOD, 27 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0193	00348	BOD, 29 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00348	BOD, 29 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00349	BOD, 30 DAY, 20 DEG C	MG/L	09/06/83-09/06/83	0	1
GRSM0258	00350	BOD, 14 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0258	00351	BOD, 21 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0258	00352	BOD, 35 DAY, 20 DEG C	MG/L	05/12/83-05/12/83	0	1
GRSM0193	00353	BOD, 42 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00353	BOD, 42 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00353	BOD, 42 DAY, 20 DEG C	MG/L	05/12/83-05/12/83	0	1
GRSM0258	00354	BOD, 49 DAY, 20 DEG C	MG	05/12/83-05/12/83	0	1
GRSM0258	00355	BOD, 56 DAY, 20 DEG C	MG/L	05/12/83-05/12/83	0	1
GRSM0193	00356	BOD, 63 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00356	BOD, 63 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00356	BOD, 63 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0193	00357	BOD, 70 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00357	BOD, 70 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00357	BOD, 70 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0193	00358	BOD, 77 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00358	BOD, 77 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00358	BOD, 77 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0193	00361	BOD, 98 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00361	BOD, 98 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00361	BOD, 98 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0258	00362	BOD, 40 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0193	00363	BOD, 50 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00363	BOD, 50 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	4
GRSM0193	00364	BOD, 100 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	00364	BOD, 100 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	00364	BOD, 100 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0003	00400	PH (STANDARD UNITS)		04/22/93-10/19/94	1	245
GRSM0004	00400	PH (STANDARD UNITS)		06/03/73-10/26/73	0	23
GRSM0006	00400	PH (STANDARD UNITS)		04/25/79-09/26/79	0	101
GRSM0007	00400	PH (STANDARD UNITS)		07/29/75-07/31/79	4	16
GRSM0008	00400	PH (STANDARD UNITS)		04/25/79-09/26/79	0	144
GRSM0009	00400	PH (STANDARD UNITS)		08/13/74-01/09/95	20	210
GRSM0010	00400	PH (STANDARD UNITS)		10/19/56-05/09/72	15	72
GRSM0011	00400	PH (STANDARD UNITS)		07/29/68-07/13/77	8	14
GRSM0013	00400	PH (STANDARD UNITS)		07/09/75-08/29/94	19	100
GRSM0016	00400	PH (STANDARD UNITS)		07/29/75-08/29/94	19	84
GRSM0019	00400	PH (STANDARD UNITS)		06/02/73-10/26/73	0	27
GRSM0020	00400	PH (STANDARD UNITS)		04/22/93-10/19/94	1	247
GRSM0021	00400	PH (STANDARD UNITS)		05/03/66-01/31/67	0	9
GRSM0022	00400	PH (STANDARD UNITS)		07/29/75-07/31/79	4	16
GRSM0023	00400	PH (STANDARD UNITS)		06/02/73-10/26/73	0	24
GRSM0024	00400	PH (STANDARD UNITS)		07/09/75-08/29/94	19	95
GRSM0027	00400	PH (STANDARD UNITS)		07/29/75-08/29/94	19	98
GRSM0030	00400	PH (STANDARD UNITS)		06/02/73-10/26/73	0	25
GRSM0031	00400	PH (STANDARD UNITS)		01/23/73-09/06/73	0	4
GRSM0032	00400	PH (STANDARD UNITS)		07/27/88-08/10/94	6	7
GRSM0036	00400	PH (STANDARD UNITS)		02/04/74-01/17/77	2	38
GRSM0037	00400	PH (STANDARD UNITS)		06/20/68-03/12/81	12	77
GRSM0038	00400	PH (STANDARD UNITS)		07/27/87-08/10/94	7	18
GRSM0041	00400	PH (STANDARD UNITS)		10/18/82-10/18/82	0	20
GRSM0042	00400	PH (STANDARD UNITS)		07/27/88-08/10/94	6	38
GRSM0045	00400	PH (STANDARD UNITS)		07/27/88-08/10/94	6	37
GRSM0048	00400	PH (STANDARD UNITS)		03/03/74-01/17/77	2	36
GRSM0054	00400	PH (STANDARD UNITS)		02/15/77-12/27/78	1	23
GRSM0055	00400	PH (STANDARD UNITS)		06/20/68-10/22/86	18	140
GRSM0056	00400	PH (STANDARD UNITS)		05/21/68-02/21/73	4	18
GRSM0057	00400	PH (STANDARD UNITS)		05/04/66-04/29/88	21	69
GRSM0059	00400	PH (STANDARD UNITS)		06/20/68-11/27/74	6	8
GRSM0060	00400	PH (STANDARD UNITS)		06/02/73-10/26/73	0	31

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0061	00400	PH (STANDARD UNITS)	10/19/82-04/29/88	5	95
GRSM0063	00400	PH (STANDARD UNITS)	07/29/75-08/29/94	19	58
GRSM0066	00400	PH (STANDARD UNITS)	07/27/88-08/10/94	6	24
GRSM0069	00400	PH (STANDARD UNITS)	04/25/79-10/20/94	15	681
GRSM0070	00400	PH (STANDARD UNITS)	07/29/68-03/24/76	7	16
GRSM0072	00400	PH (STANDARD UNITS)	12/13/83-05/08/85	1	7
GRSM0073	00400	PH (STANDARD UNITS)	07/29/68-01/29/75	6	15
GRSM0074	00400	PH (STANDARD UNITS)	11/06/56-04/13/62	5	8
GRSM0076	00400	PH (STANDARD UNITS)	09/25/68-09/25/68	0	1
GRSM0077	00400	PH (STANDARD UNITS)	10/18/82-10/18/82	0	20
GRSM0078	00400	PH (STANDARD UNITS)	01/28/74-01/24/77	2	37
GRSM0084	00400	PH (STANDARD UNITS)	04/30/68-03/24/69	0	7
GRSM0085	00400	PH (STANDARD UNITS)	08/13/74-02/24/75	0	10
GRSM0087	00400	PH (STANDARD UNITS)	01/23/67-03/24/69	2	15
GRSM0088	00400	PH (STANDARD UNITS)	08/13/74-02/24/75	0	8
GRSM0091	00400	PH (STANDARD UNITS)	10/23/73-08/08/74	0	2
GRSM0094	00400	PH (STANDARD UNITS)	03/26/82-03/26/82	0	1
GRSM0098	00400	PH (STANDARD UNITS)	03/26/82-03/26/82	0	1
GRSM0101	00400	PH (STANDARD UNITS)	08/13/74-02/24/75	0	10
GRSM0102	00400	PH (STANDARD UNITS)	04/30/68-03/24/69	0	7
GRSM0103	00400	PH (STANDARD UNITS)	05/23/91-08/01/91	0	4
GRSM0105	00400	PH (STANDARD UNITS)	04/30/68-03/24/69	0	8
GRSM0107	00400	PH (STANDARD UNITS)	09/24/68-09/24/68	0	1
GRSM0108	00400	PH (STANDARD UNITS)	03/26/82-03/26/82	0	1
GRSM0109	00400	PH (STANDARD UNITS)	08/13/74-02/24/75	0	10
GRSM0110	00400	PH (STANDARD UNITS)	11/12/81-03/26/82	0	3
GRSM0111	00400	PH (STANDARD UNITS)	07/29/82-07/29/82	0	1
GRSM0112	00400	PH (STANDARD UNITS)	11/12/81-08/01/82	0	135
GRSM0113	00400	PH (STANDARD UNITS)	12/02/81-10/20/82	0	512
GRSM0114	00400	PH (STANDARD UNITS)	11/16/93-04/13/94	0	5
GRSM0115	00400	PH (STANDARD UNITS)	08/11/82-08/11/82	0	1
GRSM0116	00400	PH (STANDARD UNITS)	07/27/82-10/20/82	0	380
GRSM0117	00400	PH (STANDARD UNITS)	11/16/93-04/13/94	0	5
GRSM0118	00400	PH (STANDARD UNITS)	11/16/93-05/03/94	0	6
GRSM0119	00400	PH (STANDARD UNITS)	12/15/93-05/03/94	0	8
GRSM0120	00400	PH (STANDARD UNITS)	09/24/68-09/24/68	0	1
GRSM0121	00400	PH (STANDARD UNITS)	11/16/93-04/13/94	0	5
GRSM0122	00400	PH (STANDARD UNITS)	11/16/93-04/13/94	0	5
GRSM0126	00400	PH (STANDARD UNITS)	06/27/73-11/13/73	0	12
GRSM0127	00400	PH (STANDARD UNITS)	11/17/93-05/03/94	0	9
GRSM0128	00400	PH (STANDARD UNITS)	11/17/93-05/03/94	0	8
GRSM0130	00400	PH (STANDARD UNITS)	01/24/94-04/13/94	0	3
GRSM0131	00400	PH (STANDARD UNITS)	11/17/93-04/13/94	0	5
GRSM0133	00400	PH (STANDARD UNITS)	09/16/93-04/13/94	0	6
GRSM0134	00400	PH (STANDARD UNITS)	03/22/82-03/26/82	0	2
GRSM0136	00400	PH (STANDARD UNITS)	11/12/81-11/12/81	0	1
GRSM0137	00400	PH (STANDARD UNITS)	12/02/81-04/22/82	0	3
GRSM0138	00400	PH (STANDARD UNITS)	11/12/81-03/24/82	0	3
GRSM0139	00400	PH (STANDARD UNITS)	03/22/82-03/22/82	0	1
GRSM0141	00400	PH (STANDARD UNITS)	12/02/81-12/02/81	0	1
GRSM0142	00400	PH (STANDARD UNITS)	12/02/81-03/24/82	0	2
GRSM0143	00400	PH (STANDARD UNITS)	03/22/82-03/22/82	0	1
GRSM0144	00400	PH (STANDARD UNITS)	09/25/68-09/25/68	0	1
GRSM0145	00400	PH (STANDARD UNITS)	03/22/82-03/22/82	0	1
GRSM0146	00400	PH (STANDARD UNITS)	03/24/82-03/24/82	0	1
GRSM0148	00400	PH (STANDARD UNITS)	03/24/82-03/24/82	0	1
GRSM0150	00400	PH (STANDARD UNITS)	03/26/82-03/26/82	0	1
GRSM0151	00400	PH (STANDARD UNITS)	04/11/79-10/24/79	0	3
GRSM0155	00400	PH (STANDARD UNITS)	04/11/79-10/24/79	0	3
GRSM0157	00400	PH (STANDARD UNITS)	04/11/79-10/24/79	0	3
GRSM0160	00400	PH (STANDARD UNITS)	04/20/82-04/20/82	0	1
GRSM0161	00400	PH (STANDARD UNITS)	09/25/68-09/25/68	0	1
GRSM0163	00400	PH (STANDARD UNITS)	03/23/82-04/20/82	0	2
GRSM0164	00400	PH (STANDARD UNITS)	09/25/68-09/25/68	0	1
GRSM0166	00400	PH (STANDARD UNITS)	03/23/82-03/23/82	0	1
GRSM0167	00400	PH (STANDARD UNITS)	04/21/82-04/21/82	0	1
GRSM0168	00400	PH (STANDARD UNITS)	04/21/82-04/21/82	0	1
GRSM0169	00400	PH (STANDARD UNITS)	03/23/82-03/23/82	0	1
GRSM0173	00400	PH (STANDARD UNITS)	12/02/81-03/25/82	0	2
GRSM0175	00400	PH (STANDARD UNITS)	12/02/81-03/25/82	0	2
GRSM0178	00400	PH (STANDARD UNITS)	09/24/68-09/24/68	0	1
GRSM0182	00400	PH (STANDARD UNITS)	08/10/63-11/22/94	31	62

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0184	00400	PH (STANDARD UNITS)		10/18/62-05/11/93	30	236
GRSM0185	00400	PH (STANDARD UNITS)		09/04/73-12/05/94	21	264
GRSM0186	00400	PH (STANDARD UNITS)		04/23/76-04/23/76	0	1
GRSM0189	00400	PH (STANDARD UNITS)		04/11/79-10/24/79	0	3
GRSM0193	00400	PH (STANDARD UNITS)		05/11/83-08/31/83	0	22
GRSM0197	00400	PH (STANDARD UNITS)		08/01/90-07/28/92	1	26
GRSM0200	00400	PH (STANDARD UNITS)		05/11/83-08/31/83	0	38
GRSM0201	00400	PH (STANDARD UNITS)		05/11/83-08/31/83	0	5
GRSM0202	00400	PH (STANDARD UNITS)		01/08/68-03/18/75	7	19
GRSM0203	00400	PH (STANDARD UNITS)		08/01/90-07/28/92	1	17
GRSM0207	00400	PH (STANDARD UNITS)		08/31/83-08/31/83	0	8
GRSM0209	00400	PH (STANDARD UNITS)		05/11/83-08/31/83	0	58
GRSM0210	00400	PH (STANDARD UNITS)		08/01/90-07/28/92	1	32
GRSM0214	00400	PH (STANDARD UNITS)		05/05/78-05/05/78	0	1
GRSM0215	00400	PH (STANDARD UNITS)		03/11/68-03/18/75	7	18
GRSM0216	00400	PH (STANDARD UNITS)		05/04/78-05/04/78	0	1
GRSM0217	00400	PH (STANDARD UNITS)		05/06/78-05/06/78	0	1
GRSM0221	00400	PH (STANDARD UNITS)		09/25/68-09/25/68	0	1
GRSM0222	00400	PH (STANDARD UNITS)		01/08/68-03/18/75	7	20
GRSM0223	00400	PH (STANDARD UNITS)		09/06/67-08/01/68	0	4
GRSM0227	00400	PH (STANDARD UNITS)		09/25/68-09/25/68	0	1
GRSM0229	00400	PH (STANDARD UNITS)		12/13/83-05/15/85	1	7
GRSM0240	00400	PH (STANDARD UNITS)		09/24/68-09/24/68	0	1
GRSM0247	00400	PH (STANDARD UNITS)		03/24/73-09/20/73	0	18
GRSM0248	00400	PH (STANDARD UNITS)		04/24/74-03/18/75	0	14
GRSM0249	00400	PH (STANDARD UNITS)		10/17/57-07/25/73	15	101
GRSM0250	00400	PH (STANDARD UNITS)		10/21/75-02/08/77	1	17
GRSM0251	00400	PH (STANDARD UNITS)		10/21/75-09/07/76	0	13
GRSM0253	00400	PH (STANDARD UNITS)		06/05/73-06/08/73	0	4
GRSM0256	00400	PH (STANDARD UNITS)		09/09/71-12/05/94	23	233
GRSM0257	00400	PH (STANDARD UNITS)		03/24/73-09/20/73	0	12
GRSM0258	00400	PH (STANDARD UNITS)		01/07/65-09/06/83	18	11
GRSM0262	00400	PH (STANDARD UNITS)		02/23/77-10/11/78	1	11
GRSM0264	00400	PH (STANDARD UNITS)		06/13/89-10/23/89	0	2
GRSM0265	00400	PH (STANDARD UNITS)		06/28/89-06/28/89	0	3
GRSM0009	00403	PH, LAB, STANDARD UNITS	SU	12/10/79-12/01/94	14	118
GRSM0014	00403	PH, LAB, STANDARD UNITS	SU	08/05/87-08/05/87	0	1
GRSM0017	00403	PH, LAB, STANDARD UNITS	SU	08/05/87-08/05/87	0	1
GRSM0025	00403	PH, LAB, STANDARD UNITS	SU	08/05/87-08/05/87	0	1
GRSM0028	00403	PH, LAB, STANDARD UNITS	SU	08/05/87-08/05/87	0	1
GRSM0033	00403	PH, LAB, STANDARD UNITS	SU	07/27/88-07/27/88	0	1
GRSM0037	00403	PH, LAB, STANDARD UNITS	SU	11/15/79-03/12/81	1	17
GRSM0039	00403	PH, LAB, STANDARD UNITS	SU	07/27/88-07/27/88	0	1
GRSM0041	00403	PH, LAB, STANDARD UNITS	SU	10/18/82-10/18/82	0	1
GRSM0043	00403	PH, LAB, STANDARD UNITS	SU	07/27/88-07/27/88	0	1
GRSM0046	00403	PH, LAB, STANDARD UNITS	SU	07/27/88-07/27/88	0	1
GRSM0050	00403	PH, LAB, STANDARD UNITS	SU	11/20/84-11/20/84	0	1
GRSM0052	00403	PH, LAB, STANDARD UNITS	SU	11/20/84-11/20/84	0	1
GRSM0055	00403	PH, LAB, STANDARD UNITS	SU	11/15/79-10/22/86	6	83
GRSM0061	00403	PH, LAB, STANDARD UNITS	SU	10/19/82-10/19/82	0	1
GRSM0064	00403	PH, LAB, STANDARD UNITS	SU	08/05/87-08/05/87	0	1
GRSM0067	00403	PH, LAB, STANDARD UNITS	SU	07/27/88-07/27/88	0	1
GRSM0071	00403	PH, LAB, STANDARD UNITS	SU	03/25/85-07/11/85	0	4
GRSM0072	00403	PH, LAB, STANDARD UNITS	SU	12/13/83-06/07/85	1	34
GRSM0077	00403	PH, LAB, STANDARD UNITS	SU	10/18/82-10/18/82	0	1
GRSM0080	00403	PH, LAB, STANDARD UNITS	SU	11/20/84-11/20/84	0	1
GRSM0081	00403	PH, LAB, STANDARD UNITS	SU	03/25/85-07/08/85	0	4
GRSM0086	00403	PH, LAB, STANDARD UNITS	SU	03/20/85-07/03/85	0	4
GRSM0094	00403	PH, LAB, STANDARD UNITS	SU	03/26/82-03/26/82	0	1
GRSM0095	00403	PH, LAB, STANDARD UNITS	SU	07/03/85-07/03/85	0	1
GRSM0099	00403	PH, LAB, STANDARD UNITS	SU	04/22/85-07/16/85	0	2
GRSM0100	00403	PH, LAB, STANDARD UNITS	SU	07/08/85-07/08/85	0	1
GRSM0106	00403	PH, LAB, STANDARD UNITS	SU	03/25/85-07/16/85	0	4
GRSM0108	00403	PH, LAB, STANDARD UNITS	SU	03/26/82-03/26/82	0	1
GRSM0110	00403	PH, LAB, STANDARD UNITS	SU	11/12/81-03/26/82	0	3
GRSM0111	00403	PH, LAB, STANDARD UNITS	SU	07/29/82-07/29/82	0	1
GRSM0112	00403	PH, LAB, STANDARD UNITS	SU	11/12/81-08/01/82	0	149
GRSM0115	00403	PH, LAB, STANDARD UNITS	SU	08/11/82-08/11/82	0	1
GRSM0125	00403	PH, LAB, STANDARD UNITS	SU	10/29/91-10/29/91	0	1
GRSM0129	00403	PH, LAB, STANDARD UNITS	SU	10/29/91-10/29/91	0	1
GRSM0132	00403	PH, LAB, STANDARD UNITS	SU	10/31/91-10/31/91	0	1
GRSM0134	00403	PH, LAB, STANDARD UNITS	SU	03/26/82-03/26/82	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0135	00403	PH, LAB, STANDARD UNITS	SU	10/30/91-10/30/91	0	1
GRSM0136	00403	PH, LAB, STANDARD UNITS	SU	11/12/81-11/12/81	0	1
GRSM0137	00403	PH, LAB, STANDARD UNITS	SU	12/02/81-04/22/82	0	3
GRSM0138	00403	PH, LAB, STANDARD UNITS	SU	11/12/81-03/24/82	0	3
GRSM0139	00403	PH, LAB, STANDARD UNITS	SU	03/22/82-03/22/82	0	1
GRSM0140	00403	PH, LAB, STANDARD UNITS	SU	10/30/91-10/30/91	0	1
GRSM0142	00403	PH, LAB, STANDARD UNITS	SU	12/02/81-12/02/81	0	1
GRSM0143	00403	PH, LAB, STANDARD UNITS	SU	03/22/82-03/22/82	0	1
GRSM0145	00403	PH, LAB, STANDARD UNITS	SU	03/22/82-03/22/82	0	1
GRSM0146	00403	PH, LAB, STANDARD UNITS	SU	03/24/82-03/24/82	0	1
GRSM0147	00403	PH, LAB, STANDARD UNITS	SU	10/29/91-10/29/91	0	1
GRSM0148	00403	PH, LAB, STANDARD UNITS	SU	03/24/82-03/24/82	0	1
GRSM0149	00403	PH, LAB, STANDARD UNITS	SU	10/29/91-10/29/91	0	1
GRSM0150	00403	PH, LAB, STANDARD UNITS	SU	03/26/82-03/26/82	0	1
GRSM0152	00403	PH, LAB, STANDARD UNITS	SU	07/10/85-07/10/85	0	1
GRSM0153	00403	PH, LAB, STANDARD UNITS	SU	10/30/91-10/30/91	0	1
GRSM0154	00403	PH, LAB, STANDARD UNITS	SU	10/31/91-10/31/91	0	1
GRSM0156	00403	PH, LAB, STANDARD UNITS	SU	10/31/91-10/31/91	0	1
GRSM0158	00403	PH, LAB, STANDARD UNITS	SU	10/31/91-10/31/91	0	1
GRSM0159	00403	PH, LAB, STANDARD UNITS	SU	10/31/91-10/31/91	0	1
GRSM0160	00403	PH, LAB, STANDARD UNITS	SU	04/20/82-04/20/82	0	1
GRSM0162	00403	PH, LAB, STANDARD UNITS	SU	10/31/91-10/31/91	0	1
GRSM0163	00403	PH, LAB, STANDARD UNITS	SU	03/23/82-04/20/82	0	2
GRSM0165	00403	PH, LAB, STANDARD UNITS	SU	10/31/91-10/31/91	0	1
GRSM0167	00403	PH, LAB, STANDARD UNITS	SU	04/21/82-04/21/82	0	1
GRSM0168	00403	PH, LAB, STANDARD UNITS	SU	04/21/82-04/21/82	0	1
GRSM0170	00403	PH, LAB, STANDARD UNITS	SU	10/29/91-10/29/91	0	1
GRSM0171	00403	PH, LAB, STANDARD UNITS	SU	04/15/81-07/23/81	0	4
GRSM0172	00403	PH, LAB, STANDARD UNITS	SU	10/31/91-10/31/91	0	1
GRSM0173	00403	PH, LAB, STANDARD UNITS	SU	03/25/82-03/25/82	0	1
GRSM0174	00403	PH, LAB, STANDARD UNITS	SU	10/29/91-10/29/91	0	1
GRSM0175	00403	PH, LAB, STANDARD UNITS	SU	12/02/81-03/25/82	0	2
GRSM0176	00403	PH, LAB, STANDARD UNITS	SU	10/30/91-10/30/91	0	1
GRSM0177	00403	PH, LAB, STANDARD UNITS	SU	11/20/84-11/20/84	0	1
GRSM0179	00403	PH, LAB, STANDARD UNITS	SU	10/30/91-10/30/91	0	1
GRSM0180	00403	PH, LAB, STANDARD UNITS	SU	10/30/91-10/30/91	0	1
GRSM0182	00403	PH, LAB, STANDARD UNITS	SU	10/17/85-11/22/94	9	38
GRSM0183	00403	PH, LAB, STANDARD UNITS	SU	10/29/91-10/29/91	0	1
GRSM0184	00403	PH, LAB, STANDARD UNITS	SU	10/15/80-05/11/93	12	57
GRSM0185	00403	PH, LAB, STANDARD UNITS	SU	11/28/79-12/05/94	15	99
GRSM0190	00403	PH, LAB, STANDARD UNITS	SU	03/27/85-07/10/85	0	4
GRSM0191	00403	PH, LAB, STANDARD UNITS	SU	11/20/84-11/20/84	0	1
GRSM0192	00403	PH, LAB, STANDARD UNITS	SU	04/15/81-07/23/81	0	5
GRSM0194	00403	PH, LAB, STANDARD UNITS	SU	03/25/85-07/08/85	0	4
GRSM0195	00403	PH, LAB, STANDARD UNITS	SU	07/16/85-07/16/85	0	1
GRSM0198	00403	PH, LAB, STANDARD UNITS	SU	08/01/90-08/01/90	0	1
GRSM0204	00403	PH, LAB, STANDARD UNITS	SU	08/01/90-08/01/90	0	1
GRSM0206	00403	PH, LAB, STANDARD UNITS	SU	07/08/85-07/08/85	0	1
GRSM0208	00403	PH, LAB, STANDARD UNITS	SU	11/29/84-11/29/84	0	1
GRSM0211	00403	PH, LAB, STANDARD UNITS	SU	08/01/90-08/01/90	0	1
GRSM0213	00403	PH, LAB, STANDARD UNITS	SU	03/28/85-07/16/85	0	4
GRSM0218	00403	PH, LAB, STANDARD UNITS	SU	04/15/81-08/13/81	0	5
GRSM0219	00403	PH, LAB, STANDARD UNITS	SU	04/15/81-08/13/81	0	5
GRSM0225	00403	PH, LAB, STANDARD UNITS	SU	04/15/81-08/13/81	0	5
GRSM0226	00403	PH, LAB, STANDARD UNITS	SU	05/30/81-08/13/81	0	3
GRSM0228	00403	PH, LAB, STANDARD UNITS	SU	05/06/81-05/06/81	0	1
GRSM0229	00403	PH, LAB, STANDARD UNITS	SU	12/13/83-06/08/85	1	71
GRSM0234	00403	PH, LAB, STANDARD UNITS	SU	04/15/81-08/13/81	0	5
GRSM0236	00403	PH, LAB, STANDARD UNITS	SU	04/15/81-08/13/81	0	6
GRSM0237	00403	PH, LAB, STANDARD UNITS	SU	03/28/85-07/10/85	0	4
GRSM0239	00403	PH, LAB, STANDARD UNITS	SU	04/15/81-08/13/81	0	6
GRSM0244	00403	PH, LAB, STANDARD UNITS	SU	10/10/67-12/06/68	1	15
GRSM0255	00403	PH, LAB, STANDARD UNITS	SU	07/07/85-07/07/85	0	1
GRSM0256	00403	PH, LAB, STANDARD UNITS	SU	11/28/79-06/26/91	11	95
GRSM0259	00403	PH, LAB, STANDARD UNITS	SU	03/24/85-07/07/85	0	4
GRSM0264	00403	PH, LAB, STANDARD UNITS	SU	10/20/82-12/14/92	10	79
GRSM0031	00405	CARBON DIOXIDE (MG/L AS CO2)		01/23/73-09/06/73	0	4
GRSM0091	00405	CARBON DIOXIDE (MG/L AS CO2)		10/23/73-08/08/74	0	2
GRSM0182	00405	CARBON DIOXIDE (MG/L AS CO2)		04/05/66-10/12/67	1	2
GRSM0184	00405	CARBON DIOXIDE (MG/L AS CO2)		10/03/72-01/03/83	10	65
GRSM0186	00405	CARBON DIOXIDE (MG/L AS CO2)		04/23/76-04/23/76	0	1
GRSM0214	00405	CARBON DIOXIDE (MG/L AS CO2)		05/05/78-05/05/78	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0216	00405	CARBON DIOXIDE (MG/L AS CO2)		05/04/78-05/04/78	0	1
GRSM0217	00405	CARBON DIOXIDE (MG/L AS CO2)		05/06/78-05/06/78	0	1
GRSM0249	00405	CARBON DIOXIDE (MG/L AS CO2)		03/28/73-05/16/73	0	2
GRSM0050	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	11/20/84-11/20/84	0	1
GRSM0052	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	11/20/84-11/20/84	0	1
GRSM0071	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	03/25/85-07/11/85	0	4
GRSM0080	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	11/20/84-11/20/84	0	1
GRSM0081	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	03/25/85-07/08/85	0	4
GRSM0086	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	03/20/85-07/03/85	0	4
GRSM0095	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	07/03/85-07/03/85	0	1
GRSM0099	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	04/22/85-07/16/85	0	2
GRSM0100	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	07/08/85-07/08/85	0	1
GRSM0106	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	03/25/85-07/16/85	0	4
GRSM0152	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	07/10/85-07/10/85	0	1
GRSM0177	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	11/20/84-11/20/84	0	1
GRSM0190	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	03/27/85-07/10/85	0	4
GRSM0191	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	11/20/84-11/20/84	0	1
GRSM0194	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	03/25/85-07/08/85	0	4
GRSM0195	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	07/16/85-07/16/85	0	1
GRSM0206	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	07/08/85-07/08/85	0	1
GRSM0208	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	11/29/84-11/29/84	0	1
GRSM0213	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	03/28/85-07/16/85	0	4
GRSM0237	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	03/28/85-07/10/85	0	4
GRSM0255	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	07/07/85-07/07/85	0	1
GRSM0259	00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	03/24/85-07/07/85	0	4
GRSM0004	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/03/73-10/26/73	0	23
GRSM0006	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		04/25/79-09/26/79	0	20
GRSM0007	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/29/75-07/31/79	4	15
GRSM0008	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		04/25/79-09/26/79	0	20
GRSM0009	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		08/13/74-02/09/93	18	166
GRSM0010	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		11/06/70-05/09/72	1	10
GRSM0011	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/29/68-07/13/77	8	14
GRSM0013	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/09/75-07/31/79	4	20
GRSM0014	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		08/05/87-08/05/87	0	1
GRSM0016	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/29/75-07/31/79	4	15
GRSM0017	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		08/05/87-08/05/87	0	1
GRSM0019	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/02/73-10/26/73	0	21
GRSM0021	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		05/03/66-01/31/67	0	9
GRSM0022	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/29/75-07/31/79	4	16
GRSM0023	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/02/73-10/26/73	0	24
GRSM0024	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/09/75-07/31/79	4	20
GRSM0025	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		08/05/87-08/05/87	0	1
GRSM0027	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/29/75-07/31/79	4	16
GRSM0028	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		08/05/87-08/05/87	0	1
GRSM0030	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/02/73-10/26/73	0	21
GRSM0031	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		01/23/73-09/06/73	0	4
GRSM0033	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/27/88-07/27/88	0	1
GRSM0036	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		02/04/74-01/17/77	2	37
GRSM0037	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-03/12/81	12	89
GRSM0039	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/27/88-07/27/88	0	1
GRSM0041	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		10/18/82-10/18/82	0	1
GRSM0043	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/27/88-07/27/88	0	1
GRSM0046	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/27/88-07/27/88	0	1
GRSM0048	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		03/03/74-01/17/77	2	36
GRSM0054	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		02/15/77-12/27/78	1	23
GRSM0055	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-10/22/86	18	153
GRSM0056	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		05/21/68-05/24/72	4	14
GRSM0057	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		05/04/66-06/17/80	14	67
GRSM0059	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-11/27/74	6	7
GRSM0060	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/02/73-10/26/73	0	29
GRSM0061	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		10/19/82-10/19/82	0	1
GRSM0063	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/29/75-07/31/79	4	16
GRSM0064	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		08/05/87-08/05/87	0	1
GRSM0067	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/27/88-07/27/88	0	1
GRSM0069	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		04/25/79-09/26/79	0	20
GRSM0070	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/29/68-03/24/76	7	16
GRSM0072	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		12/13/83-06/07/85	1	34
GRSM0073	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		07/29/68-01/29/75	6	15
GRSM0076	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		09/25/68-09/25/68	0	1
GRSM0077	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		10/18/82-10/18/82	0	1
GRSM0078	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		01/28/74-01/24/77	2	37
GRSM0084	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		04/30/68-03/24/69	0	7

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0085	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	0	10
GRSM0087	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/23/67-03/24/69	2	14
GRSM0088	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	0	8
GRSM0091	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/23/73-08/08/74	0	2
GRSM0094	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/82-03/26/82	0	1
GRSM0101	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	0	10
GRSM0102	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/68-03/24/69	0	7
GRSM0105	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/68-03/24/69	0	8
GRSM0107	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	0	1
GRSM0108	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/82-03/26/82	0	1
GRSM0109	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	0	10
GRSM0110	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/12/81-03/26/82	0	3
GRSM0112	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/12/81-06/21/82	0	96
GRSM0114	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	0	6
GRSM0115	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/11/82-08/11/82	0	1
GRSM0117	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	0	6
GRSM0118	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/16/93-04/13/94	0	5
GRSM0119	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/15/93-05/03/94	0	5
GRSM0120	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	0	1
GRSM0121	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	0	7
GRSM0122	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	0	6
GRSM0126	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/27/73-11/13/73	0	12
GRSM0127	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/16/93-05/03/94	0	2
GRSM0128	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-05/03/94	0	8
GRSM0130	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/24/94-04/13/94	0	3
GRSM0131	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	0	6
GRSM0133	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/16/93-04/13/94	0	6
GRSM0134	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/82-03/26/82	0	1
GRSM0136	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/12/81-11/12/81	0	1
GRSM0137	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/02/81-04/22/82	0	3
GRSM0138	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/12/81-03/24/82	0	3
GRSM0139	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/22/82-03/22/82	0	1
GRSM0142	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/02/81-12/02/81	0	1
GRSM0143	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/22/82-03/22/82	0	1
GRSM0144	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1
GRSM0145	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/22/82-03/22/82	0	1
GRSM0146	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/24/82-03/24/82	0	1
GRSM0148	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/24/82-03/24/82	0	1
GRSM0150	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/82-03/26/82	0	1
GRSM0160	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/20/82-04/20/82	0	1
GRSM0161	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1
GRSM0163	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/23/82-04/20/82	0	2
GRSM0164	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1
GRSM0167	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/21/82-04/21/82	0	1
GRSM0168	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/21/82-04/21/82	0	1
GRSM0173	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/25/82-03/25/82	0	1
GRSM0175	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/02/81-03/25/82	0	2
GRSM0178	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	0	1
GRSM0182	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/10/63-06/29/94	30	29
GRSM0184	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	11/01/67-11/17/92	25	174
GRSM0185	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/04/73-06/26/91	17	234
GRSM0186	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/23/76-04/23/76	0	1
GRSM0198	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/01/90-08/01/90	0	1
GRSM0202	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/08/68-03/18/75	7	19
GRSM0204	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/01/90-08/01/90	0	1
GRSM0211	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	08/01/90-08/01/90	0	1
GRSM0214	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/05/78-05/05/78	0	1
GRSM0215	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/11/68-03/18/75	7	16
GRSM0216	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/78-05/04/78	0	1
GRSM0217	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/06/78-05/06/78	0	1
GRSM0221	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1
GRSM0222	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/08/68-03/18/75	7	20
GRSM0223	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/06/67-08/01/68	0	4
GRSM0227	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1
GRSM0229	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	12/13/83-06/08/85	1	71
GRSM0240	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	0	1
GRSM0244	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/10/67-12/06/68	1	15
GRSM0247	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/24/73-09/20/73	0	18
GRSM0248	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	04/24/74-03/18/75	0	14
GRSM0249	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/27/68-06/27/73	5	31
GRSM0250	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/21/75-02/08/77	1	17
GRSM0251	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	10/21/75-09/07/76	0	13

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0253	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/05/73-06/08/73	0	4
GRSM0256	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/09/71-06/26/91	19	202
GRSM0257	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/24/73-09/20/73	0	12
GRSM0258	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/07/65-10/26/65	0	8
GRSM0261	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/02/64-08/22/67	3	40
GRSM0262	00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/23/77-10/11/78	1	11
GRSM0006	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/25/79-09/26/79	0	19
GRSM0007	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	4	16
GRSM0008	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/25/79-09/26/79	0	20
GRSM0009	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/11/90	15	52
GRSM0011	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/68-07/13/77	8	12
GRSM0013	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/09/75-07/31/79	4	17
GRSM0016	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	4	15
GRSM0021	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/03/66-01/31/67	0	9
GRSM0022	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	4	14
GRSM0024	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/09/75-07/31/79	4	17
GRSM0027	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	4	15
GRSM0036	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/04/74-01/17/77	2	37
GRSM0037	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	12	71
GRSM0048	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/03/74-01/17/77	2	36
GRSM0054	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/15/77-12/27/78	1	23
GRSM0055	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	12	67
GRSM0057	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	14	67
GRSM0059	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-11/27/74	6	7
GRSM0063	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	4	14
GRSM0069	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/25/79-09/26/79	0	20
GRSM0070	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/68-03/24/76	7	14
GRSM0073	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/68-01/29/75	6	13
GRSM0078	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/28/74-01/24/77	2	37
GRSM0084	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/30/68-03/24/69	0	7
GRSM0085	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/29/75	0	5
GRSM0087	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/23/67-03/24/69	2	15
GRSM0088	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-09/16/74	0	4
GRSM0094	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/26/82-03/26/82	0	1
GRSM0101	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/29/75	0	5
GRSM0102	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/30/68-03/24/69	0	7
GRSM0105	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/30/68-03/24/69	0	8
GRSM0108	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/26/82-03/26/82	0	1
GRSM0109	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/29/75	0	5
GRSM0110	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/12/81-03/26/82	0	3
GRSM0112	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/12/81-06/21/82	0	96
GRSM0115	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/11/82-08/11/82	0	1
GRSM0134	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/26/82-03/26/82	0	1
GRSM0136	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/12/81-11/12/81	0	1
GRSM0137	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/02/81-04/22/82	0	3
GRSM0138	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/12/81-03/24/82	0	3
GRSM0139	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/22/82-03/22/82	0	1
GRSM0142	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/02/81-12/02/81	0	1
GRSM0143	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/22/82-03/22/82	0	1
GRSM0145	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/22/82-03/22/82	0	1
GRSM0146	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/24/82-03/24/82	0	1
GRSM0148	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/24/82-03/24/82	0	1
GRSM0150	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/26/82-03/26/82	0	1
GRSM0160	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/20/82-04/20/82	0	1
GRSM0163	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/23/82-04/20/82	0	2
GRSM0167	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/21/82-04/21/82	0	1
GRSM0168	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/21/82-04/21/82	0	1
GRSM0173	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/25/82-03/25/82	0	1
GRSM0175	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	12/02/81-03/25/82	0	2
GRSM0185	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/04/73-08/20/80	6	100
GRSM0202	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/08/68-03/18/75	7	19
GRSM0215	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/11/68-03/18/75	7	16
GRSM0222	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/08/68-03/18/75	7	20
GRSM0244	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	10/10/67-12/06/68	1	15
GRSM0248	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/24/74-03/18/75	0	14
GRSM0250	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	10/21/75-02/08/77	1	17
GRSM0256	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	09/09/71-08/31/87	15	91
GRSM0258	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/07/65-10/26/65	0	8
GRSM0261	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/02/64-08/22/67	3	40
GRSM0262	00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/23/77-10/11/78	1	11
GRSM0184	00418	ALKALINITY,CARBONATE,INCREMENTAL TIT.USGS LAB MG/L	12/02/91-05/11/93	1	6
GRSM0184	00419	ALKALINITY,CARBONATE,INCREMENTAL TITR FIELD MG/L	11/17/86-09/14/87	0	4

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0009	00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	08/28/80-09/08/80	0	2
GRSM0037	00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	09/08/80-12/11/80	0	2
GRSM0055	00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	09/08/80-12/11/80	0	2
GRSM0185	00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	08/20/80-08/20/80	0	1
GRSM0009	00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	13	132
GRSM0037	00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-03/12/81	0	5
GRSM0041	00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)	10/18/82-10/18/82	0	1
GRSM0055	00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	6	68
GRSM0061	00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)	10/19/82-10/19/82	0	1
GRSM0077	00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)	10/18/82-10/18/82	0	1
GRSM0185	00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	13	106
GRSM0256	00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/27/80-10/25/93	13	106
GRSM0014	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	0	1
GRSM0017	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	0	1
GRSM0025	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	0	1
GRSM0028	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	0	1
GRSM0033	00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1
GRSM0039	00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1
GRSM0041	00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/18/82-10/18/82	0	1
GRSM0043	00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1
GRSM0046	00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1
GRSM0055	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/04/70-08/04/70	0	1
GRSM0059	00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/15/69-10/15/69	0	1
GRSM0061	00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/19/82-10/19/82	0	1
GRSM0064	00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/05/87-08/05/87	0	1
GRSM0067	00435	ACIDITY, TOTAL (MG/L AS CACO3)	07/27/88-07/27/88	0	1
GRSM0077	00435	ACIDITY, TOTAL (MG/L AS CACO3)	10/18/82-10/18/82	0	1
GRSM0110	00435	ACIDITY, TOTAL (MG/L AS CACO3)	11/12/81-12/02/81	0	2
GRSM0112	00435	ACIDITY, TOTAL (MG/L AS CACO3)	11/12/81-12/02/81	0	2
GRSM0136	00435	ACIDITY, TOTAL (MG/L AS CACO3)	11/12/81-11/12/81	0	1
GRSM0137	00435	ACIDITY, TOTAL (MG/L AS CACO3)	12/02/81-12/02/81	0	1
GRSM0138	00435	ACIDITY, TOTAL (MG/L AS CACO3)	11/12/81-12/02/81	0	2
GRSM0142	00435	ACIDITY, TOTAL (MG/L AS CACO3)	12/02/81-12/02/81	0	1
GRSM0175	00435	ACIDITY, TOTAL (MG/L AS CACO3)	12/02/81-12/02/81	0	1
GRSM0185	00435	ACIDITY, TOTAL (MG/L AS CACO3)	09/17/73-10/04/73	0	2
GRSM0253	00435	ACIDITY, TOTAL (MG/L AS CACO3)	06/05/73-06/08/73	0	4
GRSM0055	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/04/70-08/04/70	0	1
GRSM0059	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	10/15/69-10/15/69	0	1
GRSM0185	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	09/17/73-07/11/91	17	3
GRSM0256	00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	06/10/74-08/20/80	6	2
GRSM0244	00437	ACIDITY, CO2 (PHENOLPHTHALEIN) (MG/L AS CACO3)	10/10/67-12/06/68	1	15
GRSM0010	00440	BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	15	72
GRSM0031	00440	BICARBONATE ION (MG/L AS HCO3)	01/23/73-09/06/73	0	4
GRSM0056	00440	BICARBONATE ION (MG/L AS HCO3)	05/21/68-05/24/72	4	11
GRSM0071	00440	BICARBONATE ION (MG/L AS HCO3)	03/25/85-07/11/85	0	4
GRSM0074	00440	BICARBONATE ION (MG/L AS HCO3)	11/06/56-04/13/62	5	8
GRSM0076	00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	0	1
GRSM0081	00440	BICARBONATE ION (MG/L AS HCO3)	03/25/85-07/08/85	0	4
GRSM0086	00440	BICARBONATE ION (MG/L AS HCO3)	03/20/85-07/03/85	0	4
GRSM0091	00440	BICARBONATE ION (MG/L AS HCO3)	10/23/73-08/08/74	0	2
GRSM0095	00440	BICARBONATE ION (MG/L AS HCO3)	07/03/85-07/03/85	0	1
GRSM0099	00440	BICARBONATE ION (MG/L AS HCO3)	04/22/85-07/16/85	0	2
GRSM0100	00440	BICARBONATE ION (MG/L AS HCO3)	07/08/85-07/08/85	0	1
GRSM0106	00440	BICARBONATE ION (MG/L AS HCO3)	03/25/85-07/16/85	0	4
GRSM0107	00440	BICARBONATE ION (MG/L AS HCO3)	09/24/68-09/24/68	0	1
GRSM0120	00440	BICARBONATE ION (MG/L AS HCO3)	09/24/68-09/24/68	0	1
GRSM0144	00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	0	1
GRSM0152	00440	BICARBONATE ION (MG/L AS HCO3)	07/10/85-07/10/85	0	1
GRSM0161	00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	0	1
GRSM0164	00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	0	1
GRSM0178	00440	BICARBONATE ION (MG/L AS HCO3)	09/24/68-09/24/68	0	1
GRSM0182	00440	BICARBONATE ION (MG/L AS HCO3)	08/10/63-09/30/68	5	20
GRSM0184	00440	BICARBONATE ION (MG/L AS HCO3)	10/18/62-12/07/88	26	105
GRSM0186	00440	BICARBONATE ION (MG/L AS HCO3)	04/23/76-04/23/76	0	1
GRSM0190	00440	BICARBONATE ION (MG/L AS HCO3)	03/27/85-07/10/85	0	4
GRSM0194	00440	BICARBONATE ION (MG/L AS HCO3)	03/25/85-07/08/85	0	4
GRSM0195	00440	BICARBONATE ION (MG/L AS HCO3)	07/16/85-07/16/85	0	1
GRSM0206	00440	BICARBONATE ION (MG/L AS HCO3)	07/08/85-07/08/85	0	1
GRSM0213	00440	BICARBONATE ION (MG/L AS HCO3)	03/28/85-07/16/85	0	4
GRSM0214	00440	BICARBONATE ION (MG/L AS HCO3)	05/05/78-05/05/78	0	1
GRSM0216	00440	BICARBONATE ION (MG/L AS HCO3)	05/04/78-05/04/78	0	1
GRSM0217	00440	BICARBONATE ION (MG/L AS HCO3)	05/06/78-05/06/78	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0221	00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	0	1
GRSM0223	00440	BICARBONATE ION (MG/L AS HCO3)	09/06/67-08/01/68	0	4
GRSM0227	00440	BICARBONATE ION (MG/L AS HCO3)	09/25/68-09/25/68	0	1
GRSM0237	00440	BICARBONATE ION (MG/L AS HCO3)	03/28/85-07/10/85	0	4
GRSM0240	00440	BICARBONATE ION (MG/L AS HCO3)	09/24/68-09/24/68	0	1
GRSM0249	00440	BICARBONATE ION (MG/L AS HCO3)	10/17/57-06/27/73	15	79
GRSM0255	00440	BICARBONATE ION (MG/L AS HCO3)	07/07/85-07/07/85	0	1
GRSM0259	00440	BICARBONATE ION (MG/L AS HCO3)	03/24/85-07/07/85	0	4
GRSM0010	00445	CARBONATE ION (MG/L AS CO3)	11/06/70-05/09/72	1	10
GRSM0031	00445	CARBONATE ION (MG/L AS CO3)	01/23/73-05/10/73	0	3
GRSM0056	00445	CARBONATE ION (MG/L AS CO3)	05/21/68-05/24/72	4	11
GRSM0076	00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	0	1
GRSM0091	00445	CARBONATE ION (MG/L AS CO3)	10/23/73-10/23/73	0	1
GRSM0107	00445	CARBONATE ION (MG/L AS CO3)	09/24/68-09/24/68	0	1
GRSM0120	00445	CARBONATE ION (MG/L AS CO3)	09/24/68-09/24/68	0	1
GRSM0144	00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	0	1
GRSM0161	00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	0	1
GRSM0164	00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	0	1
GRSM0178	00445	CARBONATE ION (MG/L AS CO3)	09/24/68-09/24/68	0	1
GRSM0182	00445	CARBONATE ION (MG/L AS CO3)	08/10/63-09/30/68	5	21
GRSM0184	00445	CARBONATE ION (MG/L AS CO3)	11/01/67-01/03/83	15	71
GRSM0214	00445	CARBONATE ION (MG/L AS CO3)	05/05/78-05/05/78	0	1
GRSM0216	00445	CARBONATE ION (MG/L AS CO3)	05/04/78-05/04/78	0	1
GRSM0217	00445	CARBONATE ION (MG/L AS CO3)	05/06/78-05/06/78	0	1
GRSM0221	00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	0	1
GRSM0227	00445	CARBONATE ION (MG/L AS CO3)	09/25/68-09/25/68	0	1
GRSM0240	00445	CARBONATE ION (MG/L AS CO3)	09/24/68-09/24/68	0	1
GRSM0249	00445	CARBONATE ION (MG/L AS CO3)	06/27/68-05/16/73	4	16
GRSM0184	00450	BICARBONATE,INCREMENTAL TITRATION,(HCO3) FIELDMG/L	11/17/86-09/14/87	0	4
GRSM0182	00452	CARBONATE,WATER,DISS,INCR TIT, FIELD, AS CO3, MG/L	10/27/92-11/22/94	2	12
GRSM0182	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	12/11/91-11/22/94	2	16
GRSM0184	00453	BICARBONATE,WATER,DISS,INCR TIT,FIELD,AS HCO3,MG/L	12/07/87-05/11/93	5	23
GRSM0009	00480	SALINITY - PARTS PER THOUSAND	12/21/89-12/21/89	0	2
GRSM0007	00500	RESIDUE, TOTAL (MG/L)	07/31/78-07/31/78	0	1
GRSM0009	00500	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	18	181
GRSM0011	00500	RESIDUE, TOTAL (MG/L)	05/14/69-07/28/71	2	5
GRSM0013	00500	RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	16	5
GRSM0016	00500	RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	16	5
GRSM0021	00500	RESIDUE, TOTAL (MG/L)	05/03/66-01/31/67	0	9
GRSM0022	00500	RESIDUE, TOTAL (MG/L)	07/31/78-07/31/78	0	1
GRSM0024	00500	RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	16	5
GRSM0027	00500	RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	16	5
GRSM0032	00500	RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	6	2
GRSM0037	00500	RESIDUE, TOTAL (MG/L)	05/15/69-03/12/81	11	25
GRSM0038	00500	RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	6	2
GRSM0042	00500	RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	6	2
GRSM0045	00500	RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	6	2
GRSM0055	00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	9	91
GRSM0056	00500	RESIDUE, TOTAL (MG/L)	09/21/70-09/21/70	0	1
GRSM0057	00500	RESIDUE, TOTAL (MG/L)	10/24/66-01/30/67	0	3
GRSM0063	00500	RESIDUE, TOTAL (MG/L)	08/05/87-08/29/94	7	2
GRSM0066	00500	RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	6	2
GRSM0070	00500	RESIDUE, TOTAL (MG/L)	09/16/74-03/24/76	1	3
GRSM0073	00500	RESIDUE, TOTAL (MG/L)	09/16/74-01/29/75	0	2
GRSM0084	00500	RESIDUE, TOTAL (MG/L)	04/30/68-03/24/69	0	7
GRSM0085	00500	RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	0	8
GRSM0087	00500	RESIDUE, TOTAL (MG/L)	02/12/67-03/24/69	2	13
GRSM0088	00500	RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	0	8
GRSM0101	00500	RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	0	8
GRSM0102	00500	RESIDUE, TOTAL (MG/L)	04/30/68-03/24/69	0	7
GRSM0105	00500	RESIDUE, TOTAL (MG/L)	04/30/68-03/24/69	0	8
GRSM0109	00500	RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	0	8
GRSM0151	00500	RESIDUE, TOTAL (MG/L)	07/10/79-10/24/79	0	2
GRSM0155	00500	RESIDUE, TOTAL (MG/L)	07/10/79-10/24/79	0	2
GRSM0157	00500	RESIDUE, TOTAL (MG/L)	07/10/79-10/24/79	0	2
GRSM0185	00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	15	144
GRSM0189	00500	RESIDUE, TOTAL (MG/L)	07/10/79-10/24/79	0	2
GRSM0197	00500	RESIDUE, TOTAL (MG/L)	08/01/90-07/28/92	1	2
GRSM0202	00500	RESIDUE, TOTAL (MG/L)	01/08/68-07/29/68	0	5
GRSM0203	00500	RESIDUE, TOTAL (MG/L)	08/01/90-07/28/92	1	2
GRSM0210	00500	RESIDUE, TOTAL (MG/L)	08/01/90-07/28/92	1	2
GRSM0222	00500	RESIDUE, TOTAL (MG/L)	01/08/68-07/29/68	0	5

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0244	00500	RESIDUE, TOTAL (MG/L)	10/10/67-12/06/68	1	15
GRSM0249	00500	RESIDUE, TOTAL (MG/L)	10/29/70-10/29/70	0	1
GRSM0253	00500	RESIDUE, TOTAL (MG/L)	06/05/73-06/08/73	0	4
GRSM0256	00500	RESIDUE, TOTAL (MG/L)	05/26/76-01/22/92	15	142
GRSM0258	00500	RESIDUE, TOTAL (MG/L)	01/07/65-10/26/65	0	8
GRSM0264	00500	RESIDUE, TOTAL (MG/L)	10/20/82-04/12/88	5	53
GRSM0009	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-04/21/76	1	15
GRSM0013	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	2
GRSM0016	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	2
GRSM0024	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	2
GRSM0027	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	2
GRSM0037	00505	RESIDUE, TOTAL VOLATILE (MG/L)	06/25/73-06/25/73	0	1
GRSM0055	00505	RESIDUE, TOTAL VOLATILE (MG/L)	10/31/80-01/16/85	4	48
GRSM0070	00505	RESIDUE, TOTAL VOLATILE (MG/L)	09/16/74-03/24/76	1	2
GRSM0073	00505	RESIDUE, TOTAL VOLATILE (MG/L)	09/16/74-01/29/75	0	2
GRSM0085	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	0	8
GRSM0088	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	0	8
GRSM0101	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	0	8
GRSM0109	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	0	8
GRSM0151	00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-10/24/79	0	2
GRSM0155	00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-10/24/79	0	2
GRSM0157	00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-10/24/79	0	2
GRSM0185	00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-03/27/85	5	56
GRSM0189	00505	RESIDUE, TOTAL VOLATILE (MG/L)	07/10/79-10/24/79	0	2
GRSM0256	00505	RESIDUE, TOTAL VOLATILE (MG/L)	08/06/80-01/25/85	4	53
GRSM0009	00510	RESIDUE, TOTAL FIXED (MG/L)	08/13/74-04/21/76	1	15
GRSM0013	00510	RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	2
GRSM0016	00510	RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	2
GRSM0024	00510	RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	2
GRSM0027	00510	RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	2
GRSM0037	00510	RESIDUE, TOTAL FIXED (MG/L)	06/25/73-06/25/73	0	1
GRSM0055	00510	RESIDUE, TOTAL FIXED (MG/L)	10/31/80-01/16/85	4	48
GRSM0070	00510	RESIDUE, TOTAL FIXED (MG/L)	09/16/74-03/24/76	1	2
GRSM0073	00510	RESIDUE, TOTAL FIXED (MG/L)	09/16/74-01/29/75	0	2
GRSM0085	00510	RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	0	8
GRSM0088	00510	RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	0	8
GRSM0101	00510	RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	0	8
GRSM0109	00510	RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	0	8
GRSM0151	00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-10/24/79	0	2
GRSM0155	00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-10/24/79	0	2
GRSM0157	00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-10/24/79	0	2
GRSM0185	00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-03/27/85	5	56
GRSM0189	00510	RESIDUE, TOTAL FIXED (MG/L)	07/10/79-10/24/79	0	2
GRSM0256	00510	RESIDUE, TOTAL FIXED (MG/L)	08/06/80-01/25/85	4	53
GRSM0007	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	07/29/75-07/29/75	0	1
GRSM0011	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	06/25/73-12/10/74	1	4
GRSM0013	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	07/09/75-07/29/75	0	2
GRSM0016	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	07/29/75-07/29/75	0	1
GRSM0021	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	05/03/66-01/31/67	0	9
GRSM0022	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	07/29/75-07/29/75	0	1
GRSM0024	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	07/09/75-07/29/75	0	2
GRSM0027	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	07/29/75-07/29/75	0	1
GRSM0037	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	06/25/73-11/21/74	1	2
GRSM0055	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	06/25/73-11/21/74	1	2
GRSM0057	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	10/24/66-01/30/67	0	3
GRSM0059	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	06/25/73-11/27/74	1	2
GRSM0063	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	07/29/75-07/29/75	0	1
GRSM0070	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	06/21/73-01/29/75	1	4
GRSM0073	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	06/21/73-01/29/75	1	4
GRSM0084	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	04/30/68-03/24/69	0	7
GRSM0087	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	02/12/67-03/24/69	2	9
GRSM0102	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	04/30/68-03/24/69	0	7
GRSM0105	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	04/30/68-03/24/69	0	8
GRSM0182	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	10/12/67-10/25/68	1	3
GRSM0184	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	10/03/67-10/19/76	9	8
GRSM0202	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	01/08/68-07/29/68	0	5
GRSM0222	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	01/08/68-07/29/68	0	5
GRSM0244	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	10/10/67-12/06/68	1	15
GRSM0253	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	06/05/73-06/08/73	0	4
GRSM0258	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	01/07/65-11/03/71	6	9
GRSM0264	00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C), MG/L	10/20/82-12/14/92	10	75
GRSM0007	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	1	2

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0011	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	12/08/70-12/08/70	0	1
GRSM0013	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	1	2
GRSM0016	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	1	2
GRSM0022	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	1	2
GRSM0024	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	1	2
GRSM0027	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	1	2
GRSM0037	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	12/08/70-12/08/70	0	1
GRSM0055	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	08/04/70-06/25/73	2	6
GRSM0063	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	1	2
GRSM0070	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	12/08/70-12/08/70	0	1
GRSM0073	00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	12/08/70-12/08/70	0	1
GRSM0011	00525	RESIDUE, FIXED FILTRABLE (MG/L)	07/29/68-12/10/74	6	13
GRSM0070	00525	RESIDUE, FIXED FILTRABLE (MG/L)	06/21/73-06/21/73	0	1
GRSM0073	00525	RESIDUE, FIXED FILTRABLE (MG/L)	06/21/73-06/21/73	0	1
GRSM0006	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/25/79-09/26/79	0	12
GRSM0007	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-07/31/78	0	1
GRSM0008	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/25/79-09/26/79	0	12
GRSM0009	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	20	196
GRSM0011	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/29/68-07/28/71	2	5
GRSM0013	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	16	5
GRSM0016	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	16	5
GRSM0022	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-07/31/78	0	1
GRSM0024	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	16	5
GRSM0027	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	16	5
GRSM0032	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	6	2
GRSM0036	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/04/74-01/17/77	2	37
GRSM0037	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/20/68-03/12/81	12	22
GRSM0038	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	6	2
GRSM0042	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	6	2
GRSM0045	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	6	2
GRSM0048	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/03/74-01/17/77	2	36
GRSM0054	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/24/78	1	8
GRSM0055	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	9	92
GRSM0057	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/28/74-06/17/80	6	55
GRSM0063	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/05/87-08/29/94	7	2
GRSM0066	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	6	2
GRSM0069	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/25/79-09/26/79	0	12
GRSM0070	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/16/74-03/24/76	1	2
GRSM0073	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/16/74-01/29/75	0	2
GRSM0078	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/28/74-01/24/77	2	37
GRSM0085	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	8
GRSM0088	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	7
GRSM0094	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/26/82-03/26/82	0	1
GRSM0101	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	8
GRSM0108	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/26/82-03/26/82	0	1
GRSM0109	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	8
GRSM0110	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/12/81-03/26/82	0	3
GRSM0112	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/12/81-06/21/82	0	96
GRSM0114	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-04/13/94	0	6
GRSM0117	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-04/13/94	0	6
GRSM0118	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-03/16/94	0	5
GRSM0119	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/15/93-05/03/94	0	5
GRSM0121	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-03/16/94	0	6
GRSM0122	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-04/13/94	0	6
GRSM0127	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-05/03/94	0	8
GRSM0128	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/17/93-05/03/94	0	7
GRSM0130	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/24/94-04/13/94	0	3
GRSM0131	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/17/93-04/13/94	0	5
GRSM0133	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/16/93-04/13/94	0	6
GRSM0134	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/26/82-03/26/82	0	1
GRSM0136	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/12/81-11/12/81	0	1
GRSM0137	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/02/81-04/22/82	0	3
GRSM0138	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/12/81-03/24/82	0	3
GRSM0139	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/22/82-03/22/82	0	1
GRSM0142	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/02/81-12/02/81	0	1
GRSM0143	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/22/82-03/22/82	0	1
GRSM0145	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/22/82-03/22/82	0	1
GRSM0146	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/24/82-03/24/82	0	1
GRSM0148	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/24/82-03/24/82	0	1
GRSM0150	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/26/82-03/26/82	0	1
GRSM0151	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/11/79-10/24/79	0	3
GRSM0155	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/11/79-10/24/79	0	3

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0157	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/11/79-10/24/79	0	3
GRSM0160	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/20/82-04/20/82	0	1
GRSM0163	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/23/82-04/20/82	0	2
GRSM0167	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/21/82-04/21/82	0	1
GRSM0168	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/21/82-04/21/82	0	1
GRSM0173	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/25/82-03/25/82	0	1
GRSM0175	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	12/02/81-03/25/82	0	2
GRSM0182	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/12/67-10/25/68	1	3
GRSM0184	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/03/67-10/19/76	9	12
GRSM0185	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	18	181
GRSM0189	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/11/79-10/24/79	0	3
GRSM0197	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/01/90-07/28/92	1	2
GRSM0202	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/74-03/18/75	0	13
GRSM0203	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/01/90-07/28/92	1	2
GRSM0210	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/01/90-07/28/92	1	2
GRSM0215	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/74-03/18/75	0	14
GRSM0222	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/74-03/18/75	0	14
GRSM0244	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/10/67-12/06/68	1	15
GRSM0248	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	04/24/74-03/18/75	0	14
GRSM0249	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/21/70-08/29/72	2	2
GRSM0250	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/21/75-02/08/77	1	17
GRSM0251	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/21/75-09/07/76	0	13
GRSM0253	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/05/73-06/08/73	0	4
GRSM0256	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	05/26/76-12/05/94	18	178
GRSM0258	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/03/71-11/03/71	0	1
GRSM0262	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/23/77-10/11/78	1	8
GRSM0264	00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	10/20/82-12/14/92	10	79
GRSM0009	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-04/21/76	1	14
GRSM0013	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2
GRSM0016	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2
GRSM0024	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2
GRSM0027	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2
GRSM0037	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/25/73-06/25/73	0	1
GRSM0055	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/31/80-01/16/85	4	48
GRSM0070	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/16/74-03/24/76	1	2
GRSM0073	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/16/74-01/29/75	0	2
GRSM0085	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	8
GRSM0088	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	7
GRSM0101	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	8
GRSM0109	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	8
GRSM0151	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2
GRSM0155	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2
GRSM0157	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2
GRSM0185	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-03/27/85	5	56
GRSM0189	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2
GRSM0256	00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/06/80-01/25/85	4	53
GRSM0009	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-04/21/76	1	14
GRSM0013	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2
GRSM0016	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2
GRSM0024	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2
GRSM0027	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2	2
GRSM0037	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	06/25/73-06/25/73	0	1
GRSM0055	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	10/31/80-01/16/85	4	48
GRSM0070	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	09/16/74-03/24/76	1	2
GRSM0073	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	09/16/74-01/29/75	0	2
GRSM0085	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	7
GRSM0088	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	7
GRSM0101	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	7
GRSM0109	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	0	7
GRSM0151	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2
GRSM0155	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2
GRSM0157	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2
GRSM0185	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-03/27/85	5	56
GRSM0189	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	07/10/79-10/24/79	0	2
GRSM0256	00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	08/06/80-01/25/85	4	53
GRSM0037	00546	RESIDUE, SETTLEABLE (MG/L)	06/25/73-06/25/73	0	1
GRSM0157	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	11/02/78-11/27/78	0	2
GRSM0184	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	12/19/73-03/21/79	5	9
GRSM0185	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	11/27/78-08/06/80	1	5
GRSM0189	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	11/27/78-11/27/78	0	2
GRSM0256	00572	BIOMASS, PERIPHYTON (GRAMS PER SQUARE METER)	08/06/80-06/23/81	0	4
GRSM0157	00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	11/02/78-11/27/78	0	2

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0184	00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	12/19/73-03/21/79	5	9
GRSM0185	00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	11/27/78-08/06/80	1	5
GRSM0189	00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	11/27/78-11/27/78	0	2
GRSM0256	00573	BIOMASS, PERIPHYTON,DRY WEIGHT TOTAL (G/M2)	08/06/80-06/23/81	0	4
GRSM0007	00600	NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	0	1
GRSM0011	00600	NITROGEN, TOTAL (MG/L AS N)	06/25/73-12/10/74	1	2
GRSM0013	00600	NITROGEN, TOTAL (MG/L AS N)	07/09/75-07/29/75	0	2
GRSM0016	00600	NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	0	1
GRSM0022	00600	NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	0	1
GRSM0024	00600	NITROGEN, TOTAL (MG/L AS N)	07/09/75-07/29/75	0	2
GRSM0027	00600	NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	0	1
GRSM0037	00600	NITROGEN, TOTAL (MG/L AS N)	06/25/73-11/21/74	1	2
GRSM0055	00600	NITROGEN, TOTAL (MG/L AS N)	06/25/73-11/21/74	1	2
GRSM0059	00600	NITROGEN, TOTAL (MG/L AS N)	06/25/73-11/27/74	1	2
GRSM0063	00600	NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	0	1
GRSM0070	00600	NITROGEN, TOTAL (MG/L AS N)	06/21/73-01/29/75	1	4
GRSM0073	00600	NITROGEN, TOTAL (MG/L AS N)	06/21/73-01/29/75	1	4
GRSM0091	00600	NITROGEN, TOTAL (MG/L AS N)	10/03/77-03/10/78	0	2
GRSM0184	00600	NITROGEN, TOTAL (MG/L AS N)	10/11/73-09/08/82	8	42
GRSM0184	00602	NITROGEN, DISSOLVED (MG/L AS N)	01/30/79-09/08/82	3	12
GRSM0003	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/22/93-08/18/94	1	4
GRSM0005	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/29/70-09/29/70	0	1
GRSM0006	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/25/79-09/26/79	0	20
GRSM0008	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	09/29/70-09/26/79	8	21
GRSM0010	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/06/70-05/09/72	1	9
GRSM0020	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/22/93-08/18/94	1	4
GRSM0021	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/03/66-01/31/67	0	9
GRSM0031	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/23/73-09/06/73	0	4
GRSM0036	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/04/74-01/17/77	2	38
GRSM0048	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	03/03/74-01/17/77	2	36
GRSM0054	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/15/77-12/27/78	1	23
GRSM0057	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	14	67
GRSM0069	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/25/79-08/18/94	15	28
GRSM0078	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/28/74-01/24/77	2	37
GRSM0084	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8
GRSM0087	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/23/67-03/24/69	2	17
GRSM0091	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/03/77-03/10/78	0	2
GRSM0102	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8
GRSM0105	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	9
GRSM0182	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	12/10/85-02/21/86	0	2
GRSM0184	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	11/07/73-02/11/86	12	40
GRSM0202	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/08/68-03/18/75	7	19
GRSM0222	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/08/68-07/29/68	0	6
GRSM0250	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/21/75-02/08/77	1	17
GRSM0251	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/21/75-09/07/76	0	13
GRSM0262	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/23/77-10/11/78	1	12
GRSM0264	00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/25/84-10/25/84	0	1
GRSM0091	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	10/03/77-03/10/78	0	2
GRSM0184	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	11/07/73-09/08/82	8	38
GRSM0258	00607	NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	05/12/83-05/12/83	0	1
GRSM0010	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/06/70-05/09/72	1	9
GRSM0031	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/23/73-09/06/73	0	4
GRSM0091	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/03/77-03/10/78	0	2
GRSM0182	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/17/85-11/22/94	9	37
GRSM0184	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	11/07/73-05/11/93	19	85
GRSM0196	00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	08/20/91-08/20/91	0	1
GRSM0001	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	12
GRSM0002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/22/93-08/18/94	1	5
GRSM0004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/03/73-10/26/73	0	23
GRSM0006	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/25/79-09/26/79	0	20
GRSM0007	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-07/31/79	5	8
GRSM0008	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/25/79-09/26/79	0	20
GRSM0009	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	20	104
GRSM0013	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	20	13
GRSM0015	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	7	2
GRSM0016	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	20	13
GRSM0018	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	7	2
GRSM0019	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	0	21
GRSM0020	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/22/93-08/18/94	1	5
GRSM0021	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/03/66-01/31/67	0	9
GRSM0022	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-07/31/79	5	8

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0023	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	0	24
GRSM0024	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	20	12
GRSM0026	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	7	2
GRSM0027	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	20	13
GRSM0029	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	7	2
GRSM0030	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	0	21
GRSM0032	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0034	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-07/27/88	0	1
GRSM0036	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-01/17/77	2	38
GRSM0037	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-03/12/81	5	44
GRSM0038	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0040	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0042	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0044	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0045	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0047	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0048	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/03/74-01/17/77	2	36
GRSM0051	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0054	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/15/77-12/27/78	1	23
GRSM0055	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	11	111
GRSM0057	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	14	67
GRSM0060	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	0	29
GRSM0063	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	20	9
GRSM0065	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	7	2
GRSM0066	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0068	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0069	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/25/79-08/18/94	15	29
GRSM0078	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/28/74-01/24/77	2	37
GRSM0084	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8
GRSM0085	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	0	3
GRSM0087	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/23/67-03/24/69	2	17
GRSM0088	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	0	3
GRSM0089	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0090	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0091	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/03/77-03/10/78	0	2
GRSM0092	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0093	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0094	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	0	1
GRSM0101	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	0	3
GRSM0102	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8
GRSM0103	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/23/91-09/30/91	0	6
GRSM0105	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	9
GRSM0108	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	0	1
GRSM0109	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	0	3
GRSM0110	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	0	1
GRSM0111	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/29/82-07/29/82	0	1
GRSM0112	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/21/82-08/01/82	0	114
GRSM0114	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	0	6
GRSM0115	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/82-08/11/82	0	1
GRSM0117	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	0	6
GRSM0118	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	0	6
GRSM0119	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/15/93-05/03/94	0	5
GRSM0121	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	0	7
GRSM0122	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	0	6
GRSM0126	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/27/73-11/13/73	0	12
GRSM0127	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-05/03/94	0	8
GRSM0128	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-05/03/94	0	8
GRSM0130	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/24/94-04/13/94	0	3
GRSM0131	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	0	6
GRSM0133	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/16/93-04/13/94	0	4
GRSM0134	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	0	1
GRSM0137	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/82-04/22/82	0	2
GRSM0138	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/82-03/24/82	0	1
GRSM0139	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/22/82-03/22/82	0	1
GRSM0143	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/22/82-03/22/82	0	1
GRSM0145	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/22/82-03/22/82	0	1
GRSM0146	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/82-03/24/82	0	1
GRSM0148	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/82-03/24/82	0	1
GRSM0150	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	0	1
GRSM0151	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/78-10/24/79	0	3
GRSM0155	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/78-10/24/79	0	3
GRSM0157	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/78-10/24/79	0	3

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0160	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/20/82-04/20/82	0	1
GRSM0163	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/23/82-04/20/82	0	2
GRSM0167	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/21/82-04/21/82	0	1
GRSM0168	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/21/82-04/21/82	0	1
GRSM0171	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-07/23/81	0	4
GRSM0173	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/82-03/25/82	0	1
GRSM0175	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/82-03/25/82	0	1
GRSM0182	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/17/85-12/07/92	7	27
GRSM0184	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/07/73-11/17/92	19	72
GRSM0185	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/26/76-11/07/94	18	154
GRSM0189	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	11/28/78-10/24/79	0	3
GRSM0192	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-07/23/81	0	5
GRSM0196	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/20/91-08/20/91	0	1
GRSM0197	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0199	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0202	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/08/68-03/18/75	7	19
GRSM0203	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0205	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0210	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0212	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0218	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	0	5
GRSM0219	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	0	5
GRSM0222	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/08/68-07/29/68	0	6
GRSM0225	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	0	5
GRSM0226	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/30/81-08/13/81	0	3
GRSM0228	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/06/81-05/06/81	0	1
GRSM0234	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	0	5
GRSM0236	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	0	6
GRSM0239	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/15/81-08/13/81	0	6
GRSM0246	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	10
GRSM0247	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/73-09/20/73	0	18
GRSM0250	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/21/75-02/08/77	1	17
GRSM0251	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/21/75-09/07/76	0	13
GRSM0253	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/05/73-06/08/73	0	4
GRSM0256	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-12/05/94	20	144
GRSM0257	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/24/73-09/20/73	0	12
GRSM0262	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/23/77-10/11/78	1	12
GRSM0264	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	12/16/82-12/14/92	9	73
GRSM0016	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	06/17/80-08/12/81	1	2
GRSM0027	00611	NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	06/17/80-06/17/80	0	1
GRSM0010	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/03/70-05/09/72	1	9
GRSM0031	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/23/73-09/06/73	0	4
GRSM0182	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	10/17/85-11/22/94	9	37
GRSM0184	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	11/18/85-05/11/93	7	31
GRSM0196	00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)	08/20/91-08/20/91	0	1
GRSM0001	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	12
GRSM0002	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0005	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/29/70-09/29/70	0	1
GRSM0008	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	09/29/70-09/29/70	0	1
GRSM0021	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/03/66-01/31/67	0	9
GRSM0051	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0057	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/04/66-01/30/67	0	8
GRSM0084	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8
GRSM0087	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/23/67-03/24/69	2	17
GRSM0089	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0090	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0091	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/03/77-03/10/78	0	2
GRSM0092	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0093	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0102	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8
GRSM0105	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	9
GRSM0182	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	10/15/90-12/07/92	2	12
GRSM0184	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/17/73-11/17/92	19	29
GRSM0196	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	08/20/91-08/20/91	0	1
GRSM0202	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/08/68-06/20/74	6	8
GRSM0214	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/05/78-05/05/78	0	1
GRSM0216	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/04/78-05/04/78	0	1
GRSM0217	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/06/78-05/06/78	0	1
GRSM0222	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/08/68-07/29/68	0	6
GRSM0246	00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	10
GRSM0010	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	11/06/70-05/09/72	1	8
GRSM0031	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/23/73-09/06/73	0	4

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0056	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/05/71-05/24/72	0	3
GRSM0125	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	0	1
GRSM0129	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	0	1
GRSM0132	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1
GRSM0135	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	0	1
GRSM0140	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	0	1
GRSM0147	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	0	1
GRSM0149	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	0	1
GRSM0153	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	0	1
GRSM0154	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1
GRSM0156	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1
GRSM0158	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1
GRSM0159	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1
GRSM0162	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1
GRSM0165	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1
GRSM0170	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	0	1
GRSM0172	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/31/91-10/31/91	0	1
GRSM0174	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	0	1
GRSM0176	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	0	1
GRSM0179	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	0	1
GRSM0180	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/30/91-10/30/91	0	1
GRSM0182	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/05/66-10/30/91	25	3
GRSM0183	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/29/91-10/29/91	0	1
GRSM0184	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	10/07/71-10/31/91	20	2
GRSM0186	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	04/23/76-04/23/76	0	1
GRSM0249	00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)	08/29/72-03/28/73	0	2
GRSM0001	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	12
GRSM0002	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0005	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/29/70-09/29/70	0	1
GRSM0008	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	09/29/70-09/29/70	0	1
GRSM0021	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/03/66-01/31/67	0	9
GRSM0051	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0057	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/04/66-01/30/67	0	8
GRSM0084	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8
GRSM0087	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/23/67-03/24/69	2	17
GRSM0089	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0090	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0091	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/03/77-03/10/78	0	2
GRSM0092	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0093	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0102	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	8
GRSM0105	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	0	9
GRSM0184	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	10/03/72-05/29/79	6	21
GRSM0202	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/08/68-06/20/74	6	8
GRSM0214	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/05/78-05/05/78	0	1
GRSM0216	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/04/78-05/04/78	0	1
GRSM0217	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/06/78-05/06/78	0	1
GRSM0222	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/08/68-07/29/68	0	6
GRSM0246	00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	0	10
GRSM0091	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/03/77-03/10/78	0	2
GRSM0182	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	08/20/91-08/20/91	0	1
GRSM0184	00623	NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/11/73-08/20/91	17	42
GRSM0091	00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	10/03/77-03/10/78	0	2
GRSM0184	00624	NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	12/26/73-09/08/82	8	36
GRSM0001	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	12
GRSM0002	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0004	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/03/73-10/26/73	0	23
GRSM0007	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-07/31/79	5	8
GRSM0009	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	20	104
GRSM0013	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	20	13
GRSM0015	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	7	2
GRSM0016	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	20	13
GRSM0018	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	7	2
GRSM0019	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	0	20
GRSM0022	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-07/31/79	5	8
GRSM0023	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	0	24
GRSM0024	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	20	12
GRSM0026	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	7	2
GRSM0027	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	20	13
GRSM0029	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	7	2
GRSM0030	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	0	21
GRSM0032	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0034	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-07/27/88	0	1
GRSM0037	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	6	45
GRSM0038	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0040	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0042	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0044	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0045	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0047	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0051	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	12
GRSM0055	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	12	113
GRSM0060	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	0	29
GRSM0063	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	20	9
GRSM0065	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	7	2
GRSM0066	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0068	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0070	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/29/75-01/29/75	0	1
GRSM0073	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/29/75-01/29/75	0	1
GRSM0077	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/15/79-08/15/79	0	1
GRSM0085	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	0	4
GRSM0088	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	0	3
GRSM0089	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0090	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	12
GRSM0091	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/03/77-03/10/78	0	2
GRSM0092	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0093	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0101	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	0	4
GRSM0109	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	0	4
GRSM0126	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/73-11/13/73	0	12
GRSM0151	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/28/78-10/24/79	0	3
GRSM0155	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/28/78-10/24/79	0	3
GRSM0157	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/28/78-10/24/79	0	3
GRSM0182	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/17/85-11/22/94	9	37
GRSM0184	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/11/73-05/11/93	19	88
GRSM0185	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/26/76-11/07/94	18	154
GRSM0189	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	11/28/78-10/24/79	0	3
GRSM0196	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/20/91-08/20/91	0	1
GRSM0197	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0199	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0203	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0205	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0210	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0212	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0246	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	0	10
GRSM0247	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/73-09/20/73	0	18
GRSM0253	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/05/73-06/08/73	0	4
GRSM0256	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/25/73-12/05/94	21	149
GRSM0257	00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/24/73-09/20/73	0	12
GRSM0184	00626	NITROGEN,ORG. KJEL.,BOT. DEPOS. (MG/KG-N DRY WGT)	03/05/74-09/01/76	2	4
GRSM0016	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	06/17/80-08/12/81	1	2
GRSM0027	00627	NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	06/17/80-06/17/80	0	1
GRSM0001	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	12
GRSM0002	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0003	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/22/93-08/18/94	1	5
GRSM0004	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/03/73-10/26/73	0	23
GRSM0006	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/25/79-09/26/79	0	20
GRSM0007	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-07/31/79	5	8
GRSM0008	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/25/79-09/26/79	0	20
GRSM0009	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	20	103
GRSM0013	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	20	13
GRSM0015	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	7	2
GRSM0016	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	20	13
GRSM0018	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	7	2
GRSM0019	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/02/73-10/26/73	0	21
GRSM0020	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/22/93-08/18/94	1	5
GRSM0022	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-07/31/79	5	8
GRSM0023	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/02/73-10/26/73	0	24
GRSM0024	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	20	12
GRSM0026	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	7	2
GRSM0027	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	20	13
GRSM0029	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	7	2
GRSM0030	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/02/73-10/26/73	0	21
GRSM0032	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0034	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-07/27/88	0	1
GRSM0036	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/04/74-01/17/77	2	38
GRSM0037	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-03/12/81	6	45
GRSM0038	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0040	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0042	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0044	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0045	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0047	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0048	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/03/74-01/17/77	2	36
GRSM0051	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0054	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/15/77-12/27/78	1	23
GRSM0055	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	12	113
GRSM0057	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-06/17/80	6	59
GRSM0060	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/02/73-10/26/73	0	29
GRSM0063	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	20	9
GRSM0065	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	7	2
GRSM0066	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0068	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	6	2
GRSM0069	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/25/79-08/18/94	15	29
GRSM0070	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/75-01/29/75	0	1
GRSM0073	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/75-01/29/75	0	1
GRSM0077	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/15/79-08/15/79	0	1
GRSM0078	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-01/24/77	2	37
GRSM0085	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	0	4
GRSM0088	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	0	3
GRSM0089	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0090	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0091	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/03/77-03/10/78	0	2
GRSM0092	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0093	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	13
GRSM0101	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	0	4
GRSM0103	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/23/91-09/30/91	0	6
GRSM0109	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	0	4
GRSM0112	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/21/82-01/23/82	0	23
GRSM0114	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	0	6
GRSM0117	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	0	6
GRSM0118	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	0	6
GRSM0119	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	12/15/93-05/03/94	0	5
GRSM0121	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	0	7
GRSM0122	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	0	6
GRSM0126	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/73-11/13/73	0	12
GRSM0127	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-05/03/94	0	8
GRSM0128	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-05/03/94	0	8
GRSM0130	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/24/94-04/13/94	0	3
GRSM0131	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	0	6
GRSM0133	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/16/93-04/13/94	0	4
GRSM0151	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/28/78-10/24/79	0	3
GRSM0155	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/28/78-10/24/79	0	3
GRSM0157	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/28/78-10/24/79	0	3
GRSM0171	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-07/23/81	0	4
GRSM0182	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/15/90-12/07/92	2	12
GRSM0184	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/11/73-11/17/92	19	61
GRSM0185	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/26/76-11/07/94	18	154
GRSM0189	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	11/28/78-10/24/79	0	3
GRSM0192	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-07/23/81	0	5
GRSM0196	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/20/91-08/20/91	0	1
GRSM0197	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0199	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0202	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/24/74-03/18/75	0	11
GRSM0203	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0205	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0210	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0212	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/01/90-07/28/92	1	2
GRSM0214	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/05/78-05/05/78	0	1
GRSM0216	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/04/78-05/04/78	0	1
GRSM0217	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/06/78-05/06/78	0	1
GRSM0218	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	0	5
GRSM0219	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	0	5
GRSM0225	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	0	5
GRSM0226	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/30/81-08/13/81	0	3
GRSM0228	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/06/81-05/06/81	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0234	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	0	5
GRSM0236	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	0	6
GRSM0239	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/15/81-08/13/81	0	6
GRSM0246	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	0	10
GRSM0247	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/73-09/20/73	0	18
GRSM0250	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/21/75-02/08/77	1	17
GRSM0251	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/21/75-09/07/76	0	13
GRSM0253	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/05/73-06/08/73	0	4
GRSM0256	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/25/73-12/05/94	21	148
GRSM0257	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/24/73-09/20/73	0	12
GRSM0258	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/12/83-05/12/83	0	1
GRSM0262	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/23/77-10/11/78	1	12
GRSM0264	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/20/82-12/14/92	10	76
GRSM0091	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/03/77-03/10/78	0	2
GRSM0182	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/17/85-11/22/94	9	37
GRSM0184	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	10/11/73-05/11/93	19	94
GRSM0196	00631	NITRITE PLUS NITRATE, DISS. 1 DET. (MG/L AS N)	08/20/91-08/20/91	0	1
GRSM0016	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	06/17/80-08/12/81	1	2
GRSM0027	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	06/17/80-06/17/80	0	1
GRSM0184	00633	NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	03/05/74-09/01/76	2	4
GRSM0103	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	05/23/91-09/30/91	0	6
GRSM0171	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-07/23/81	0	4
GRSM0192	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-07/23/81	0	5
GRSM0218	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	0	5
GRSM0219	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	0	5
GRSM0225	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	0	5
GRSM0226	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	05/30/81-08/13/81	0	3
GRSM0228	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	05/06/81-05/06/81	0	1
GRSM0234	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	0	5
GRSM0236	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	0	6
GRSM0239	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	04/15/81-08/13/81	0	6
GRSM0264	00635	NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	10/20/82-12/14/92	10	78
GRSM0010	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/06/70-11/08/71	1	5
GRSM0094	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	0	1
GRSM0108	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	0	1
GRSM0110	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	0	1
GRSM0111	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	07/29/82-07/29/82	0	1
GRSM0112	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/17/82-08/01/82	0	91
GRSM0115	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	08/11/82-08/11/82	0	1
GRSM0134	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	0	1
GRSM0137	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/24/82-04/22/82	0	2
GRSM0138	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/24/82-03/24/82	0	1
GRSM0139	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/22/82-03/22/82	0	1
GRSM0143	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/22/82-03/22/82	0	1
GRSM0145	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/22/82-03/22/82	0	1
GRSM0146	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/24/82-03/24/82	0	1
GRSM0148	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/24/82-03/24/82	0	1
GRSM0150	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	0	1
GRSM0160	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/20/82-04/20/82	0	1
GRSM0163	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/23/82-04/20/82	0	2
GRSM0167	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/21/82-04/21/82	0	1
GRSM0168	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	04/21/82-04/21/82	0	1
GRSM0173	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/25/82-03/25/82	0	1
GRSM0175	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/25/82-03/25/82	0	1
GRSM0182	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/20/67-09/30/68	0	10
GRSM0184	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	11/01/67-05/29/79	11	7
GRSM0249	00650	PHOSPHATE, TOTAL (MG/L AS PO4)	06/27/68-07/21/70	2	2
GRSM0007	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	1	2
GRSM0011	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/29/68-12/10/74	6	13
GRSM0013	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/31/75	1	6
GRSM0016	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	1	2
GRSM0022	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	1	2
GRSM0024	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/31/75	1	6
GRSM0027	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	1	2
GRSM0037	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	06/20/68-11/21/74	6	12
GRSM0041	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	10/18/82-10/18/82	0	1
GRSM0055	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	06/20/68-11/21/74	6	12
GRSM0059	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	06/20/68-11/27/74	6	8
GRSM0061	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	10/19/82-10/19/82	0	1
GRSM0063	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	1	2
GRSM0070	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/29/68-01/29/75	6	15
GRSM0072	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	12/13/83-05/08/85	1	24

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0073	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)		07/29/68-01/29/75	6	15
GRSM0077	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)		10/18/82-10/18/82	0	1
GRSM0229	00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)		12/13/83-05/15/85	1	51
GRSM0007	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		07/29/75-07/29/75	0	1
GRSM0009	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		02/24/75-04/21/76	1	9
GRSM0010	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		05/26/71-05/09/72	0	3
GRSM0013	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		07/29/75-07/29/75	0	1
GRSM0016	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		07/29/75-07/29/75	0	1
GRSM0022	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		07/29/75-07/29/75	0	1
GRSM0024	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		07/29/75-07/29/75	0	1
GRSM0027	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		07/29/75-07/29/75	0	1
GRSM0031	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		01/23/73-05/10/73	0	3
GRSM0037	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		05/28/75-05/28/75	0	1
GRSM0055	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		05/28/75-05/28/75	0	1
GRSM0056	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		05/21/68-03/16/71	2	8
GRSM0063	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		07/29/75-07/29/75	0	1
GRSM0070	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		01/29/75-01/29/75	0	1
GRSM0073	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		01/29/75-01/29/75	0	1
GRSM0076	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		09/25/68-09/25/68	0	1
GRSM0085	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		01/29/75-02/24/75	0	2
GRSM0088	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		02/24/75-02/24/75	0	1
GRSM0091	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		10/03/77-03/10/78	0	2
GRSM0101	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		01/29/75-02/24/75	0	2
GRSM0107	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		09/24/68-09/24/68	0	1
GRSM0109	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		01/29/75-02/24/75	0	2
GRSM0120	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		09/24/68-09/24/68	0	1
GRSM0144	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		09/25/68-09/25/68	0	1
GRSM0161	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		09/25/68-09/25/68	0	1
GRSM0164	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		09/25/68-09/25/68	0	1
GRSM0178	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		09/24/68-09/24/68	0	1
GRSM0184	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		02/01/68-11/02/82	14	41
GRSM0221	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		09/25/68-09/25/68	0	1
GRSM0227	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		09/25/68-09/25/68	0	1
GRSM0240	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		09/24/68-09/24/68	0	1
GRSM0249	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		09/11/68-03/23/71	2	11
GRSM0254	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		12/19/79-12/19/79	0	1
GRSM0256	00660	PHOSPHATE, ORTHO (MG/L AS PO4)		10/25/73-12/04/75	2	7
GRSM0050	00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE	UG/L	11/20/84-11/20/84	0	1
GRSM0052	00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE	UG/L	11/20/84-11/20/84	0	1
GRSM0080	00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE	UG/L	11/20/84-11/20/84	0	1
GRSM0177	00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE	UG/L	11/20/84-11/20/84	0	1
GRSM0191	00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE	UG/L	11/20/84-11/20/84	0	1
GRSM0208	00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE	UG/L	11/29/84-11/29/84	0	1
GRSM0001	00665	PHOSPHORUS, TOTAL (MG/L AS P)		03/25/73-02/24/74	0	12
GRSM0002	00665	PHOSPHORUS, TOTAL (MG/L AS P)		03/25/73-02/24/74	0	13
GRSM0003	00665	PHOSPHORUS, TOTAL (MG/L AS P)		04/22/93-08/18/94	1	4
GRSM0004	00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/03/73-10/26/73	0	23
GRSM0005	00665	PHOSPHORUS, TOTAL (MG/L AS P)		09/29/70-09/29/70	0	1
GRSM0006	00665	PHOSPHORUS, TOTAL (MG/L AS P)		04/25/79-09/26/79	0	20
GRSM0007	00665	PHOSPHORUS, TOTAL (MG/L AS P)		07/16/74-07/31/79	5	8
GRSM0008	00665	PHOSPHORUS, TOTAL (MG/L AS P)		09/29/70-09/26/79	8	21
GRSM0009	00665	PHOSPHORUS, TOTAL (MG/L AS P)		08/18/74-11/17/94	20	103
GRSM0011	00665	PHOSPHORUS, TOTAL (MG/L AS P)		07/29/68-07/28/71	2	8
GRSM0013	00665	PHOSPHORUS, TOTAL (MG/L AS P)		07/16/74-08/29/94	20	13
GRSM0015	00665	PHOSPHORUS, TOTAL (MG/L AS P)		08/05/87-08/29/94	7	2
GRSM0016	00665	PHOSPHORUS, TOTAL (MG/L AS P)		07/16/74-08/29/94	20	13
GRSM0018	00665	PHOSPHORUS, TOTAL (MG/L AS P)		08/05/87-08/29/94	7	2
GRSM0019	00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/02/73-10/26/73	0	20
GRSM0020	00665	PHOSPHORUS, TOTAL (MG/L AS P)		04/22/93-08/18/94	1	4
GRSM0021	00665	PHOSPHORUS, TOTAL (MG/L AS P)		05/03/66-01/31/67	0	9
GRSM0022	00665	PHOSPHORUS, TOTAL (MG/L AS P)		07/16/74-07/31/79	5	8
GRSM0023	00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/02/73-10/26/73	0	24
GRSM0024	00665	PHOSPHORUS, TOTAL (MG/L AS P)		07/16/74-08/29/94	20	12
GRSM0026	00665	PHOSPHORUS, TOTAL (MG/L AS P)		08/05/87-08/29/94	7	2
GRSM0027	00665	PHOSPHORUS, TOTAL (MG/L AS P)		07/16/74-08/29/94	20	13
GRSM0029	00665	PHOSPHORUS, TOTAL (MG/L AS P)		08/05/87-08/29/94	7	2
GRSM0030	00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/02/73-10/26/73	0	21
GRSM0031	00665	PHOSPHORUS, TOTAL (MG/L AS P)		09/06/73-09/06/73	0	1
GRSM0032	00665	PHOSPHORUS, TOTAL (MG/L AS P)		07/27/88-08/10/94	6	2
GRSM0034	00665	PHOSPHORUS, TOTAL (MG/L AS P)		07/27/88-07/27/88	0	1
GRSM0036	00665	PHOSPHORUS, TOTAL (MG/L AS P)		02/04/74-01/17/77	2	38
GRSM0037	00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/20/68-03/12/81	12	54

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0038	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2
GRSM0040	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2
GRSM0042	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2
GRSM0044	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2
GRSM0045	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2
GRSM0047	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2
GRSM0048	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/03/74-01/17/77	2	36
GRSM0051	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	0	12
GRSM0054	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/15/77-12/27/78	1	23
GRSM0055	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	18	124
GRSM0056	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/05/71-05/24/72	0	3
GRSM0057	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	14	67
GRSM0060	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/02/73-10/26/73	0	29
GRSM0063	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	20	9
GRSM0065	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/05/87-08/29/94	7	2
GRSM0066	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2
GRSM0068	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	6	2
GRSM0069	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/25/79-08/18/94	15	28
GRSM0070	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/29/75-01/29/75	0	1
GRSM0071	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/85-07/11/85	0	4
GRSM0073	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/29/75-01/29/75	0	1
GRSM0077	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/15/79-08/15/79	0	1
GRSM0078	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/28/74-01/24/77	2	37
GRSM0081	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/85-07/08/85	0	4
GRSM0084	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/21/68-03/24/69	0	7
GRSM0085	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	0	4
GRSM0086	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/20/85-07/03/85	0	4
GRSM0087	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/23/67-03/24/69	2	17
GRSM0088	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	0	3
GRSM0089	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	0	13
GRSM0090	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	0	12
GRSM0091	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/03/77-03/10/78	0	2
GRSM0092	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/10/74	0	12
GRSM0093	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	0	13
GRSM0095	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/03/85-07/03/85	0	1
GRSM0099	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/22/85-07/16/85	0	2
GRSM0100	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/08/85-07/08/85	0	1
GRSM0101	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	0	4
GRSM0102	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/30/68-03/24/69	0	8
GRSM0103	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/23/91-09/30/91	0	6
GRSM0105	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/30/68-03/24/69	0	9
GRSM0106	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/85-07/16/85	0	4
GRSM0109	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	0	4
GRSM0112	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/21/82-01/23/82	0	23
GRSM0114	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	0	6
GRSM0117	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	0	6
GRSM0118	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	0	6
GRSM0119	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/15/93-05/03/94	0	5
GRSM0121	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	0	7
GRSM0122	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	0	6
GRSM0126	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/27/73-11/13/73	0	12
GRSM0127	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-05/03/94	0	8
GRSM0128	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-05/03/94	0	8
GRSM0130	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/24/94-04/13/94	0	3
GRSM0131	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	0	6
GRSM0133	00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/16/93-04/13/94	0	4
GRSM0151	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/28/78-04/11/79	0	2
GRSM0152	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/10/85-07/10/85	0	1
GRSM0155	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/28/78-04/11/79	0	2
GRSM0157	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/28/78-04/11/79	0	2
GRSM0171	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-07/23/81	0	4
GRSM0182	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/17/85-11/22/94	9	37
GRSM0184	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/09/70-05/11/93	23	103
GRSM0185	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/26/76-11/07/94	18	153
GRSM0189	00665	PHOSPHORUS, TOTAL (MG/L AS P)	11/28/78-04/11/79	0	2
GRSM0190	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/27/85-07/10/85	0	4
GRSM0192	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-07/23/81	0	5
GRSM0194	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/85-07/08/85	0	4
GRSM0195	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/85-07/16/85	0	1
GRSM0196	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/20/91-08/20/91	0	1
GRSM0197	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-07/28/92	1	2
GRSM0199	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-07/28/92	1	2

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0202	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/11/68-03/18/75	7	18
GRSM0203	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-07/28/92	1	2
GRSM0205	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-07/28/92	1	2
GRSM0206	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/08/85-07/08/85	0	1
GRSM0210	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-07/28/92	1	2
GRSM0212	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/01/90-07/28/92	1	2
GRSM0213	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/28/85-07/16/85	0	4
GRSM0214	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/05/78-05/05/78	0	1
GRSM0216	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/78-05/04/78	0	1
GRSM0217	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/06/78-05/06/78	0	1
GRSM0218	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	0	5
GRSM0219	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	0	5
GRSM0222	00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/08/68-07/29/68	0	6
GRSM0225	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	0	5
GRSM0226	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/30/81-08/13/81	0	3
GRSM0228	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/06/81-05/06/81	0	1
GRSM0234	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	0	5
GRSM0236	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	0	6
GRSM0237	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/28/85-07/10/85	0	4
GRSM0239	00665	PHOSPHORUS, TOTAL (MG/L AS P)	04/15/81-08/13/81	0	6
GRSM0244	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/10/67-12/06/68	1	15
GRSM0246	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	0	10
GRSM0247	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/73-09/20/73	0	18
GRSM0249	00665	PHOSPHORUS, TOTAL (MG/L AS P)	08/29/72-03/28/73	0	2
GRSM0250	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/21/75-02/08/77	1	17
GRSM0251	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/21/75-09/07/76	0	13
GRSM0253	00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/05/73-06/08/73	0	4
GRSM0254	00665	PHOSPHORUS, TOTAL (MG/L AS P)	12/19/79-12/19/79	0	1
GRSM0255	00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/07/85-07/07/85	0	1
GRSM0256	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/25/73-12/05/94	21	147
GRSM0257	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/73-09/20/73	0	12
GRSM0258	00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/12/83-05/12/83	0	1
GRSM0259	00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/24/85-07/07/85	0	4
GRSM0262	00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/23/77-10/11/78	1	12
GRSM0264	00665	PHOSPHORUS, TOTAL (MG/L AS P)	10/20/82-12/14/92	10	76
GRSM0013	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	0	2
GRSM0016	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	0	2
GRSM0021	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/03/66-01/31/67	0	9
GRSM0024	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	0	2
GRSM0027	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	0	2
GRSM0036	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/19/76-04/19/76	0	1
GRSM0048	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/19/76-05/17/76	0	2
GRSM0057	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/66-05/20/76	10	10
GRSM0078	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/19/76-05/17/76	0	2
GRSM0084	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/21/68-03/24/69	0	6
GRSM0087	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	01/23/67-03/24/69	2	15
GRSM0091	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/03/77-03/10/78	0	2
GRSM0102	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/30/68-12/02/68	0	5
GRSM0105	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	04/30/68-03/24/69	0	8
GRSM0182	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/17/85-11/22/94	9	37
GRSM0184	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/11/73-05/11/93	19	84
GRSM0196	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	08/20/91-08/20/91	0	1
GRSM0202	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	01/08/68-03/18/75	7	18
GRSM0222	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	01/08/68-07/29/68	0	6
GRSM0250	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/21/75-02/08/77	1	17
GRSM0251	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	10/21/75-09/07/76	0	13
GRSM0258	00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/12/83-05/12/83	0	1
GRSM0016	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/17/80-08/12/81	1	2
GRSM0027	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/17/80-06/17/80	0	1
GRSM0035	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/27/73-06/27/73	0	1
GRSM0097	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/27/73-06/27/73	0	1
GRSM0184	00668	PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	03/05/74-09/01/76	2	4
GRSM0001	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	12
GRSM0002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	13
GRSM0003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/22/93-08/18/94	1	4
GRSM0004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/03/73-10/26/73	0	23
GRSM0019	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	0	21
GRSM0020	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/22/93-08/18/94	1	4
GRSM0023	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	0	24
GRSM0030	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	0	21
GRSM0051	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	13

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0057	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/20/79-06/17/80	1	9
GRSM0060	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	0	29
GRSM0069	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/21/93-08/18/94	1	8
GRSM0089	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	13
GRSM0090	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	13
GRSM0091	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/03/77-03/10/78	0	2
GRSM0092	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	13
GRSM0093	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	13
GRSM0125	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	0	1
GRSM0126	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/27/73-11/13/73	0	12
GRSM0129	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	0	1
GRSM0132	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1
GRSM0135	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	0	1
GRSM0140	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	0	1
GRSM0147	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	0	1
GRSM0149	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	0	1
GRSM0153	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	0	1
GRSM0154	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1
GRSM0156	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1
GRSM0158	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1
GRSM0159	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1
GRSM0162	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1
GRSM0165	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1
GRSM0170	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	0	1
GRSM0172	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/31/91-10/31/91	0	1
GRSM0174	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	0	1
GRSM0176	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	0	1
GRSM0179	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	0	1
GRSM0180	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/30/91-10/30/91	0	1
GRSM0182	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/17/85-11/22/94	9	38
GRSM0183	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/29/91-10/29/91	0	1
GRSM0184	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	11/07/73-05/11/93	19	81
GRSM0196	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	08/20/91-08/20/91	0	1
GRSM0246	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	0	10
GRSM0247	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/24/73-09/20/73	0	18
GRSM0254	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	12/19/79-12/19/79	0	1
GRSM0257	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/24/73-09/20/73	0	12
GRSM0006	00677	PHOSPHORUS,HYDROLYZABLE + ORTHO,DIS,AUTOANALYZER	04/25/79-09/26/79	0	15
GRSM0008	00677	PHOSPHORUS,HYDROLYZABLE + ORTHO,DIS,AUTOANALYZER	04/25/79-09/26/79	0	17
GRSM0069	00677	PHOSPHORUS,HYDROLYZABLE + ORTHO,DIS,AUTOANALYZER	04/25/79-09/26/79	0	17
GRSM0003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/22/93-08/18/94	1	4
GRSM0009	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	01/02/75-12/11/80	5	11
GRSM0020	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/22/93-08/18/94	1	4
GRSM0037	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/21/79-12/11/80	1	7
GRSM0054	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/15/77-10/24/78	1	8
GRSM0055	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/09/77-12/11/80	3	11
GRSM0057	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/17/77-06/17/80	3	16
GRSM0069	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/21/93-08/18/94	1	8
GRSM0072	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/16/84-05/16/84	0	1
GRSM0094	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1
GRSM0108	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1
GRSM0110	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1
GRSM0111	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/29/82-07/29/82	0	1
GRSM0112	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-08/01/82	0	64
GRSM0115	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	08/11/82-08/11/82	0	1
GRSM0134	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1
GRSM0137	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/82-04/22/82	0	2
GRSM0138	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/82-03/24/82	0	1
GRSM0139	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/22/82-03/22/82	0	1
GRSM0143	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/22/82-03/22/82	0	1
GRSM0145	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/22/82-03/22/82	0	1
GRSM0146	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/82-03/24/82	0	1
GRSM0148	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/24/82-03/24/82	0	1
GRSM0150	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1
GRSM0160	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/20/82-04/20/82	0	1
GRSM0163	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/23/82-04/20/82	0	2
GRSM0167	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/21/82-04/21/82	0	1
GRSM0168	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/21/82-04/21/82	0	1
GRSM0173	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/25/82-03/25/82	0	1
GRSM0175	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/25/82-03/25/82	0	1
GRSM0184	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/15/69-07/12/82	13	32
GRSM0185	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/79-12/15/80	1	9

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0202	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	04/24/74-01/14/75	0	4
GRSM0214	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/05/78-05/05/78	0	1
GRSM0216	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/04/78-05/04/78	0	1
GRSM0217	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/06/78-05/06/78	0	1
GRSM0229	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/15/84-05/15/84	0	1
GRSM0250	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/08/77-02/08/77	0	1
GRSM0253	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/05/73-06/08/73	0	4
GRSM0256	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	06/19/79-12/15/80	1	7
GRSM0258	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	05/12/83-05/12/83	0	1
GRSM0262	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/23/77-10/11/78	1	8
GRSM0050	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1
GRSM0052	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1
GRSM0057	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/20/79-03/20/79	0	1
GRSM0071	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/85-07/11/85	0	4
GRSM0072	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	12/13/83-05/08/85	1	24
GRSM0080	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1
GRSM0081	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/85-07/08/85	0	4
GRSM0086	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/20/85-07/03/85	0	4
GRSM0094	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1
GRSM0095	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/03/85-07/03/85	0	1
GRSM0099	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/22/85-07/16/85	0	2
GRSM0100	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/08/85-07/08/85	0	1
GRSM0106	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/85-07/16/85	0	4
GRSM0108	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1
GRSM0110	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1
GRSM0111	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/29/82-07/29/82	0	1
GRSM0112	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-08/01/82	0	64
GRSM0115	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	08/11/82-08/11/82	0	1
GRSM0134	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1
GRSM0137	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/82-04/22/82	0	2
GRSM0138	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/82-03/24/82	0	1
GRSM0139	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/22/82-03/22/82	0	1
GRSM0143	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/22/82-03/22/82	0	1
GRSM0145	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/22/82-03/22/82	0	1
GRSM0146	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/82-03/24/82	0	1
GRSM0148	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/82-03/24/82	0	1
GRSM0150	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	0	1
GRSM0152	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/10/85-07/10/85	0	1
GRSM0160	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/20/82-04/20/82	0	1
GRSM0163	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/23/82-04/20/82	0	2
GRSM0167	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/21/82-04/21/82	0	1
GRSM0168	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	04/21/82-04/21/82	0	1
GRSM0173	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/82-03/25/82	0	1
GRSM0175	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/82-03/25/82	0	1
GRSM0177	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1
GRSM0184	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	10/11/73-09/08/82	8	37
GRSM0190	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/27/85-07/10/85	0	4
GRSM0191	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1
GRSM0194	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/85-07/08/85	0	4
GRSM0195	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/16/85-07/16/85	0	1
GRSM0206	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/08/85-07/08/85	0	1
GRSM0208	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/29/84-11/29/84	0	1
GRSM0213	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/28/85-07/16/85	0	4
GRSM0229	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	12/13/83-05/15/85	1	51
GRSM0237	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/28/85-07/10/85	0	4
GRSM0255	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/07/85-07/07/85	0	1
GRSM0259	00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/24/85-07/07/85	0	4
GRSM0184	00687	CARBON, ORGANIC, IN BED MATERIAL (GM/KG AS C)	03/05/74-09/01/76	2	4
GRSM0184	00689	CARBON, SUSPENDED ORGANIC (MG/L AS C)	01/30/79-09/08/82	3	7
GRSM0050	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1
GRSM0052	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1
GRSM0071	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/25/85-07/11/85	0	4
GRSM0080	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1
GRSM0081	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/25/85-07/08/85	0	4
GRSM0086	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/20/85-07/03/85	0	4
GRSM0095	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/03/85-07/03/85	0	1
GRSM0099	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	04/22/85-07/16/85	0	2
GRSM0100	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/08/85-07/08/85	0	1
GRSM0106	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/25/85-07/16/85	0	4
GRSM0152	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/10/85-07/10/85	0	1
GRSM0177	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	0	1
GRSM0190	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/27/85-07/10/85	0	4

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0191	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)		11/20/84-11/20/84	0	1
GRSM0194	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)		03/25/85-07/08/85	0	4
GRSM0195	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)		07/16/85-07/16/85	0	1
GRSM0206	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)		07/08/85-07/08/85	0	1
GRSM0208	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)		11/29/84-11/29/84	0	1
GRSM0213	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)		03/28/85-07/16/85	0	4
GRSM0237	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)		03/28/85-07/10/85	0	4
GRSM0255	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)		07/07/85-07/07/85	0	1
GRSM0259	00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)		03/24/85-07/07/85	0	4
GRSM0007	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	07/16/74-07/29/75	1	2
GRSM0013	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	07/16/74-07/29/75	1	2
GRSM0016	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	07/16/74-07/29/75	1	2
GRSM0022	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	07/16/74-07/29/75	1	2
GRSM0024	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	07/16/74-07/06/78	3	3
GRSM0027	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	07/16/74-07/29/75	1	2
GRSM0063	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	07/16/74-07/29/75	1	2
GRSM0070	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	01/29/75-01/29/75	0	1
GRSM0073	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	01/29/75-01/29/75	0	1
GRSM0184	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	03/05/74-09/08/82	8	12
GRSM0214	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	05/05/78-05/05/78	0	1
GRSM0216	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	05/04/78-05/04/78	0	1
GRSM0217	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	05/06/78-05/06/78	0	1
GRSM0230	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	06/05/80-06/05/80	0	1
GRSM0249	00720	CYANIDE, TOTAL (MG/L AS CN)	MG/L	08/29/72-08/29/72	0	1
GRSM0230	00721	CYANIDE IN BOTTOM DEPOSITS (MG/KG AS CN DRY WGT)		06/05/80-06/05/80	0	1
GRSM0007	00740	SULFITE (MG/L AS SO3)		07/29/75-07/29/75	0	1
GRSM0011	00740	SULFITE (MG/L AS SO3)		06/25/73-12/10/74	1	4
GRSM0013	00740	SULFITE (MG/L AS SO3)		07/09/75-07/29/75	0	2
GRSM0016	00740	SULFITE (MG/L AS SO3)		07/29/75-07/29/75	0	1
GRSM0022	00740	SULFITE (MG/L AS SO3)		07/29/75-07/29/75	0	1
GRSM0024	00740	SULFITE (MG/L AS SO3)		07/09/75-07/29/75	0	2
GRSM0027	00740	SULFITE (MG/L AS SO3)		07/29/75-07/29/75	0	1
GRSM0037	00740	SULFITE (MG/L AS SO3)		06/25/73-11/21/74	1	2
GRSM0055	00740	SULFITE (MG/L AS SO3)		06/25/73-11/21/74	1	2
GRSM0059	00740	SULFITE (MG/L AS SO3)		06/25/73-11/27/74	1	2
GRSM0063	00740	SULFITE (MG/L AS SO3)		07/29/75-07/29/75	0	1
GRSM0070	00740	SULFITE (MG/L AS SO3)		06/21/73-01/29/75	1	6
GRSM0073	00740	SULFITE (MG/L AS SO3)		06/21/73-01/29/75	1	6
GRSM0009	00745	SULFIDE, TOTAL (MG/L AS S)		12/08/75-12/08/75	0	1
GRSM0011	00745	SULFIDE, TOTAL (MG/L AS S)		07/29/68-07/28/71	2	8
GRSM0020	00745	SULFIDE, TOTAL (MG/L AS S)		08/18/94-08/18/94	0	3
GRSM0037	00745	SULFIDE, TOTAL (MG/L AS S)		06/20/68-07/28/71	3	9
GRSM0055	00745	SULFIDE, TOTAL (MG/L AS S)		06/20/68-06/25/73	5	11
GRSM0056	00745	SULFIDE, TOTAL (MG/L AS S)		12/08/70-12/08/70	0	1
GRSM0167	00745	SULFIDE, TOTAL (MG/L AS S)		04/21/82-04/21/82	0	1
GRSM0256	00745	SULFIDE, TOTAL (MG/L AS S)		10/18/68-05/17/73	4	2
GRSM0009	00900	HARDNESS, TOTAL (MG/L AS CACO3)		01/02/75-01/09/95	20	75
GRSM0010	00900	HARDNESS, TOTAL (MG/L AS CACO3)		10/19/56-05/09/72	15	72
GRSM0031	00900	HARDNESS, TOTAL (MG/L AS CACO3)		01/23/73-09/06/73	0	4
GRSM0055	00900	HARDNESS, TOTAL (MG/L AS CACO3)		02/15/77-08/20/86	9	21
GRSM0056	00900	HARDNESS, TOTAL (MG/L AS CACO3)		05/21/68-05/24/72	4	11
GRSM0057	00900	HARDNESS, TOTAL (MG/L AS CACO3)		03/20/79-06/17/80	1	9
GRSM0074	00900	HARDNESS, TOTAL (MG/L AS CACO3)		11/06/56-04/13/62	5	8
GRSM0076	00900	HARDNESS, TOTAL (MG/L AS CACO3)		09/25/68-09/25/68	0	1
GRSM0091	00900	HARDNESS, TOTAL (MG/L AS CACO3)		10/23/73-08/08/74	0	2
GRSM0107	00900	HARDNESS, TOTAL (MG/L AS CACO3)		09/24/68-09/24/68	0	1
GRSM0114	00900	HARDNESS, TOTAL (MG/L AS CACO3)		09/15/93-04/13/94	0	6
GRSM0117	00900	HARDNESS, TOTAL (MG/L AS CACO3)		09/15/93-04/13/94	0	6
GRSM0118	00900	HARDNESS, TOTAL (MG/L AS CACO3)		09/15/93-03/16/94	0	5
GRSM0119	00900	HARDNESS, TOTAL (MG/L AS CACO3)		12/15/93-05/03/94	0	5
GRSM0120	00900	HARDNESS, TOTAL (MG/L AS CACO3)		09/24/68-09/24/68	0	1
GRSM0121	00900	HARDNESS, TOTAL (MG/L AS CACO3)		09/15/93-03/16/94	0	6
GRSM0122	00900	HARDNESS, TOTAL (MG/L AS CACO3)		09/15/93-04/13/94	0	6
GRSM0127	00900	HARDNESS, TOTAL (MG/L AS CACO3)		09/15/93-05/03/94	0	8
GRSM0128	00900	HARDNESS, TOTAL (MG/L AS CACO3)		11/17/93-05/03/94	0	7
GRSM0130	00900	HARDNESS, TOTAL (MG/L AS CACO3)		01/24/94-04/13/94	0	3
GRSM0131	00900	HARDNESS, TOTAL (MG/L AS CACO3)		11/17/93-04/13/94	0	5
GRSM0133	00900	HARDNESS, TOTAL (MG/L AS CACO3)		09/16/93-04/13/94	0	5
GRSM0144	00900	HARDNESS, TOTAL (MG/L AS CACO3)		09/25/68-09/25/68	0	1
GRSM0161	00900	HARDNESS, TOTAL (MG/L AS CACO3)		09/25/68-09/25/68	0	1
GRSM0164	00900	HARDNESS, TOTAL (MG/L AS CACO3)		09/25/68-09/25/68	0	1
GRSM0178	00900	HARDNESS, TOTAL (MG/L AS CACO3)		09/24/68-09/24/68	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0182	00900	HARDNESS, TOTAL (MG/L AS CACO3)	08/10/63-12/10/85	22	22
GRSM0184	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/18/62-02/11/86	23	83
GRSM0185	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	11	85
GRSM0186	00900	HARDNESS, TOTAL (MG/L AS CACO3)	04/23/76-04/23/76	0	1
GRSM0214	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/05/78-05/05/78	0	1
GRSM0216	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/04/78-05/04/78	0	1
GRSM0217	00900	HARDNESS, TOTAL (MG/L AS CACO3)	05/06/78-05/06/78	0	1
GRSM0221	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1
GRSM0223	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/06/67-08/01/68	0	4
GRSM0227	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/25/68-09/25/68	0	1
GRSM0240	00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	0	1
GRSM0244	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/10/67-12/06/68	1	15
GRSM0249	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/17/57-03/28/73	15	74
GRSM0251	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/21/75-09/07/76	0	13
GRSM0256	00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/24/83-12/05/94	11	72
GRSM0264	00900	HARDNESS, TOTAL (MG/L AS CACO3)	10/20/82-12/14/92	10	80
GRSM0010	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	15	72
GRSM0031	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/23/73-09/06/73	0	4
GRSM0056	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/21/68-05/24/72	4	11
GRSM0074	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	11/06/56-04/13/62	5	8
GRSM0076	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	0	1
GRSM0091	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/23/73-08/08/74	0	2
GRSM0107	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/24/68-09/24/68	0	1
GRSM0120	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/24/68-09/24/68	0	1
GRSM0144	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	0	1
GRSM0161	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	0	1
GRSM0164	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	0	1
GRSM0178	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/24/68-09/24/68	0	1
GRSM0182	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	08/10/63-12/10/85	22	22
GRSM0184	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/18/62-02/11/86	23	83
GRSM0186	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	04/23/76-04/23/76	0	1
GRSM0214	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/05/78-05/05/78	0	1
GRSM0216	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/04/78-05/04/78	0	1
GRSM0217	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	05/06/78-05/06/78	0	1
GRSM0221	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	0	1
GRSM0223	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/06/67-08/01/68	0	4
GRSM0227	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/25/68-09/25/68	0	1
GRSM0240	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/24/68-09/24/68	0	1
GRSM0249	00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/17/57-03/28/73	15	74
GRSM0050	00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	0	1
GRSM0052	00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	0	1
GRSM0080	00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	0	1
GRSM0177	00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	0	1
GRSM0191	00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	0	1
GRSM0208	00910	CALCIUM (MG/L AS CACO3)	11/29/84-11/29/84	0	1
GRSM0244	00910	CALCIUM (MG/L AS CACO3)	10/10/67-12/06/68	1	15
GRSM0010	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	15	72
GRSM0031	00915	CALCIUM, DISSOLVED (MG/L AS CA)	01/23/73-09/06/73	0	4
GRSM0041	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/82-10/18/82	0	1
GRSM0056	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/21/68-05/24/72	4	11
GRSM0061	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/19/82-10/19/82	0	1
GRSM0071	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/25/85-07/11/85	0	4
GRSM0072	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/13/83-05/08/85	1	24
GRSM0074	00915	CALCIUM, DISSOLVED (MG/L AS CA)	11/06/56-04/13/62	5	8
GRSM0076	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	0	1
GRSM0077	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/82-10/18/82	0	1
GRSM0081	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/25/85-07/08/85	0	4
GRSM0086	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/20/85-07/03/85	0	4
GRSM0091	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/23/73-08/08/74	0	2
GRSM0095	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/03/85-07/03/85	0	1
GRSM0099	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/22/85-07/16/85	0	2
GRSM0100	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/08/85-07/08/85	0	1
GRSM0106	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/25/85-07/16/85	0	4
GRSM0107	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/68-09/24/68	0	1
GRSM0120	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/68-09/24/68	0	1
GRSM0125	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	0	1
GRSM0129	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	0	1
GRSM0132	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1
GRSM0135	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	0	1
GRSM0140	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	0	1
GRSM0144	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	0	1
GRSM0147	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0149	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	0	1
GRSM0152	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/10/85-07/10/85	0	1
GRSM0153	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	0	1
GRSM0154	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1
GRSM0156	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1
GRSM0158	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1
GRSM0159	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1
GRSM0161	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	0	1
GRSM0162	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1
GRSM0164	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	0	1
GRSM0165	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1
GRSM0170	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	0	1
GRSM0172	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/31/91-10/31/91	0	1
GRSM0174	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	0	1
GRSM0176	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	0	1
GRSM0178	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/68-09/24/68	0	1
GRSM0179	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	0	1
GRSM0180	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/30/91-10/30/91	0	1
GRSM0182	00915	CALCIUM, DISSOLVED (MG/L AS CA)	08/10/63-11/22/94	31	58
GRSM0183	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/29/91-10/29/91	0	1
GRSM0184	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/18/62-05/11/93	30	123
GRSM0186	00915	CALCIUM, DISSOLVED (MG/L AS CA)	04/23/76-04/23/76	0	1
GRSM0190	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/27/85-07/10/85	0	4
GRSM0194	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/25/85-07/08/85	0	4
GRSM0195	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/16/85-07/16/85	0	1
GRSM0206	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/08/85-07/08/85	0	1
GRSM0213	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/28/85-07/16/85	0	4
GRSM0214	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/05/78-05/05/78	0	1
GRSM0216	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/04/78-05/04/78	0	1
GRSM0217	00915	CALCIUM, DISSOLVED (MG/L AS CA)	05/06/78-05/06/78	0	1
GRSM0221	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	0	1
GRSM0223	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/06/67-08/01/68	0	4
GRSM0227	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/25/68-09/25/68	0	1
GRSM0229	00915	CALCIUM, DISSOLVED (MG/L AS CA)	12/13/83-05/15/85	1	51
GRSM0237	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/28/85-07/10/85	0	4
GRSM0240	00915	CALCIUM, DISSOLVED (MG/L AS CA)	09/24/68-09/24/68	0	1
GRSM0249	00915	CALCIUM, DISSOLVED (MG/L AS CA)	10/17/57-03/28/73	15	74
GRSM0255	00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/07/85-07/07/85	0	1
GRSM0259	00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/24/85-07/07/85	0	4
GRSM0009	00916	CALCIUM, TOTAL (MG/L AS CA)	02/15/77-12/21/89	12	7
GRSM0014	00916	CALCIUM, TOTAL (MG/L AS CA)	08/05/87-08/05/87	0	1
GRSM0017	00916	CALCIUM, TOTAL (MG/L AS CA)	08/05/87-08/05/87	0	1
GRSM0021	00916	CALCIUM, TOTAL (MG/L AS CA)	05/03/66-01/31/67	0	9
GRSM0025	00916	CALCIUM, TOTAL (MG/L AS CA)	08/05/87-08/05/87	0	1
GRSM0028	00916	CALCIUM, TOTAL (MG/L AS CA)	08/05/87-08/05/87	0	1
GRSM0036	00916	CALCIUM, TOTAL (MG/L AS CA)	02/04/74-01/17/77	2	37
GRSM0037	00916	CALCIUM, TOTAL (MG/L AS CA)	05/17/77-03/13/79	1	4
GRSM0048	00916	CALCIUM, TOTAL (MG/L AS CA)	03/03/74-01/17/77	2	36
GRSM0054	00916	CALCIUM, TOTAL (MG/L AS CA)	02/15/77-10/24/78	1	8
GRSM0055	00916	CALCIUM, TOTAL (MG/L AS CA)	02/15/77-03/21/78	1	8
GRSM0057	00916	CALCIUM, TOTAL (MG/L AS CA)	10/24/66-02/26/79	12	49
GRSM0064	00916	CALCIUM, TOTAL (MG/L AS CA)	08/05/87-08/05/87	0	1
GRSM0078	00916	CALCIUM, TOTAL (MG/L AS CA)	01/28/74-01/24/77	2	37
GRSM0084	00916	CALCIUM, TOTAL (MG/L AS CA)	04/30/68-03/24/69	0	8
GRSM0087	00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/67-03/24/69	2	17
GRSM0094	00916	CALCIUM, TOTAL (MG/L AS CA)	03/26/82-03/26/82	0	1
GRSM0102	00916	CALCIUM, TOTAL (MG/L AS CA)	04/30/68-03/24/69	0	8
GRSM0105	00916	CALCIUM, TOTAL (MG/L AS CA)	04/30/68-03/24/69	0	9
GRSM0108	00916	CALCIUM, TOTAL (MG/L AS CA)	03/26/82-03/26/82	0	1
GRSM0110	00916	CALCIUM, TOTAL (MG/L AS CA)	11/12/81-03/26/82	0	3
GRSM0111	00916	CALCIUM, TOTAL (MG/L AS CA)	12/01/81-12/01/81	0	3
GRSM0112	00916	CALCIUM, TOTAL (MG/L AS CA)	11/12/81-08/01/82	0	130
GRSM0115	00916	CALCIUM, TOTAL (MG/L AS CA)	08/11/82-08/11/82	0	1
GRSM0134	00916	CALCIUM, TOTAL (MG/L AS CA)	03/26/82-03/26/82	0	1
GRSM0136	00916	CALCIUM, TOTAL (MG/L AS CA)	11/12/81-11/12/81	0	1
GRSM0137	00916	CALCIUM, TOTAL (MG/L AS CA)	12/02/81-04/22/82	0	3
GRSM0138	00916	CALCIUM, TOTAL (MG/L AS CA)	11/12/81-03/24/82	0	3
GRSM0139	00916	CALCIUM, TOTAL (MG/L AS CA)	03/22/82-03/22/82	0	1
GRSM0142	00916	CALCIUM, TOTAL (MG/L AS CA)	12/02/81-12/02/81	0	1
GRSM0143	00916	CALCIUM, TOTAL (MG/L AS CA)	03/22/82-03/22/82	0	1
GRSM0145	00916	CALCIUM, TOTAL (MG/L AS CA)	03/22/82-03/22/82	0	1
GRSM0146	00916	CALCIUM, TOTAL (MG/L AS CA)	03/24/82-03/24/82	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0148	00916	CALCIUM, TOTAL (MG/L AS CA)	03/24/82-03/24/82	0	1
GRSM0150	00916	CALCIUM, TOTAL (MG/L AS CA)	03/26/82-03/26/82	0	1
GRSM0160	00916	CALCIUM, TOTAL (MG/L AS CA)	04/20/82-04/20/82	0	1
GRSM0163	00916	CALCIUM, TOTAL (MG/L AS CA)	03/23/82-04/20/82	0	2
GRSM0167	00916	CALCIUM, TOTAL (MG/L AS CA)	04/21/82-04/21/82	0	1
GRSM0168	00916	CALCIUM, TOTAL (MG/L AS CA)	04/21/82-04/21/82	0	1
GRSM0173	00916	CALCIUM, TOTAL (MG/L AS CA)	03/25/82-03/25/82	0	1
GRSM0175	00916	CALCIUM, TOTAL (MG/L AS CA)	12/02/81-03/25/82	0	2
GRSM0185	00916	CALCIUM, TOTAL (MG/L AS CA)	05/20/77-03/15/89	11	4
GRSM0202	00916	CALCIUM, TOTAL (MG/L AS CA)	01/08/68-03/18/75	7	18
GRSM0222	00916	CALCIUM, TOTAL (MG/L AS CA)	01/08/68-07/29/68	0	5
GRSM0230	00916	CALCIUM, TOTAL (MG/L AS CA)	06/05/80-06/05/80	0	1
GRSM0250	00916	CALCIUM, TOTAL (MG/L AS CA)	10/21/75-02/08/77	1	17
GRSM0251	00916	CALCIUM, TOTAL (MG/L AS CA)	10/21/75-09/07/76	0	13
GRSM0256	00916	CALCIUM, TOTAL (MG/L AS CA)	05/20/77-11/09/77	0	2
GRSM0258	00916	CALCIUM, TOTAL (MG/L AS CA)	11/03/71-11/03/71	0	1
GRSM0262	00916	CALCIUM, TOTAL (MG/L AS CA)	02/23/77-10/11/78	1	8
GRSM0003	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/16/93-08/16/93	0	1
GRSM0020	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/16/93-08/16/93	0	1
GRSM0069	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/16/93-08/16/93	0	2
GRSM0230	00917	CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	06/05/80-06/05/80	0	1
GRSM0244	00920	MAGNESIUM (MG/L AS CACO3)	10/10/67-12/06/68	1	15
GRSM0003	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/16/93-08/16/93	0	1
GRSM0020	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/16/93-08/16/93	0	1
GRSM0027	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/17/80-08/04/82	2	2
GRSM0069	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/16/93-08/16/93	0	2
GRSM0230	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/05/80-06/05/80	0	1
GRSM0256	00924	MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	02/23/82-08/15/85	3	2
GRSM0010	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	15	72
GRSM0031	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	01/23/73-09/06/73	0	4
GRSM0041	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/82-10/18/82	0	1
GRSM0050	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	0	1
GRSM0052	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	0	1
GRSM0056	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/21/68-05/24/72	4	11
GRSM0061	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/82-10/19/82	0	1
GRSM0071	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/25/85-07/11/85	0	4
GRSM0072	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/13/83-05/08/85	1	24
GRSM0074	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/06/56-04/13/62	5	8
GRSM0076	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	0	1
GRSM0077	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/82-10/18/82	0	1
GRSM0080	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	0	1
GRSM0081	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/25/85-07/08/85	0	4
GRSM0086	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/20/85-07/03/85	0	4
GRSM0091	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/23/73-08/08/74	0	2
GRSM0095	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/03/85-07/03/85	0	1
GRSM0099	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/22/85-07/16/85	0	2
GRSM0100	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/08/85-07/08/85	0	1
GRSM0106	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/25/85-07/16/85	0	4
GRSM0107	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/68-09/24/68	0	1
GRSM0120	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/68-09/24/68	0	1
GRSM0125	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	0	1
GRSM0129	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	0	1
GRSM0132	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1
GRSM0135	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	0	1
GRSM0140	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	0	1
GRSM0144	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	0	1
GRSM0147	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	0	1
GRSM0149	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	0	1
GRSM0152	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/10/85-07/10/85	0	1
GRSM0153	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	0	1
GRSM0154	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1
GRSM0156	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1
GRSM0158	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1
GRSM0159	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1
GRSM0161	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	0	1
GRSM0162	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1
GRSM0164	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	0	1
GRSM0165	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1
GRSM0170	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	0	1
GRSM0172	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/31/91-10/31/91	0	1
GRSM0174	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	0	1
GRSM0176	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0177	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	0	1
GRSM0178	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/68-09/24/68	0	1
GRSM0179	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	0	1
GRSM0180	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/30/91-10/30/91	0	1
GRSM0182	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	08/10/63-11/22/94	31	58
GRSM0183	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/29/91-10/29/91	0	1
GRSM0184	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/62-05/11/93	30	123
GRSM0186	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	04/23/76-04/23/76	0	1
GRSM0190	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/27/85-07/10/85	0	4
GRSM0191	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	0	1
GRSM0194	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/25/85-07/08/85	0	4
GRSM0195	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/16/85-07/16/85	0	1
GRSM0206	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/08/85-07/08/85	0	1
GRSM0208	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/29/84-11/29/84	0	1
GRSM0213	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/28/85-07/16/85	0	4
GRSM0214	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/05/78-05/05/78	0	1
GRSM0216	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/04/78-05/04/78	0	1
GRSM0217	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	05/06/78-05/06/78	0	1
GRSM0221	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	0	1
GRSM0223	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/06/67-08/01/68	0	4
GRSM0227	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/25/68-09/25/68	0	1
GRSM0229	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	12/13/83-05/15/85	1	51
GRSM0237	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/28/85-07/10/85	0	4
GRSM0240	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/68-09/24/68	0	1
GRSM0249	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	10/17/57-03/28/73	15	74
GRSM0255	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/07/85-07/07/85	0	1
GRSM0259	00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/24/85-07/07/85	0	4
GRSM0009	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/08/75-12/21/89	14	11
GRSM0011	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/29/68-12/08/70	2	6
GRSM0014	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/05/87-08/05/87	0	1
GRSM0017	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/05/87-08/05/87	0	1
GRSM0021	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/03/66-01/31/67	0	9
GRSM0025	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/05/87-08/05/87	0	1
GRSM0028	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/05/87-08/05/87	0	1
GRSM0036	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/04/74-01/17/77	2	37
GRSM0037	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/17/77-05/17/77	0	1
GRSM0048	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/03/74-01/17/77	2	36
GRSM0054	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/15/77-10/24/78	1	8
GRSM0055	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/15/77-10/18/77	0	4
GRSM0057	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/24/66-02/26/79	12	49
GRSM0064	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/05/87-08/05/87	0	1
GRSM0070	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/29/68-06/18/70	1	5
GRSM0073	00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/29/68-06/18/70	1	5
GRSM0078	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/28/74-01/24/77	2	37
GRSM0084	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/30/68-03/24/69	0	8
GRSM0087	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/67-03/24/69	2	17
GRSM0094	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/26/82-03/26/82	0	1
GRSM0102	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/30/68-03/24/69	0	8
GRSM0103	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/01/91-08/01/91	0	1
GRSM0105	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/30/68-03/24/69	0	9
GRSM0108	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/26/82-03/26/82	0	1
GRSM0110	00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/12/81-03/26/82	0	3
GRSM0111	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/01/81-12/01/81	0	3
GRSM0112	00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/12/81-08/01/82	0	130
GRSM0115	00927	MAGNESIUM, TOTAL (MG/L AS MG)	08/11/82-08/11/82	0	1
GRSM0134	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/26/82-03/26/82	0	1
GRSM0136	00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/12/81-11/12/81	0	1
GRSM0137	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/02/81-04/22/82	0	3
GRSM0138	00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/12/81-03/24/82	0	3
GRSM0139	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/22/82-03/22/82	0	1
GRSM0142	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/02/81-12/02/81	0	1
GRSM0143	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/22/82-03/22/82	0	1
GRSM0145	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/22/82-03/22/82	0	1
GRSM0146	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/24/82-03/24/82	0	1
GRSM0148	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/24/82-03/24/82	0	1
GRSM0150	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/26/82-03/26/82	0	1
GRSM0160	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/20/82-04/20/82	0	1
GRSM0163	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/23/82-04/20/82	0	2
GRSM0167	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/21/82-04/21/82	0	1
GRSM0168	00927	MAGNESIUM, TOTAL (MG/L AS MG)	04/21/82-04/21/82	0	1
GRSM0173	00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/25/82-03/25/82	0	1
GRSM0175	00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/02/81-03/25/82	0	2

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0185	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/20/77-03/15/89	11	2
GRSM0202	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/08/68-03/18/75	7	18
GRSM0222	00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/08/68-07/29/68	0	5
GRSM0230	00927	MAGNESIUM, TOTAL (MG/L AS MG)	06/05/80-06/05/80	0	1
GRSM0250	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/21/75-02/08/77	1	17
GRSM0251	00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/21/75-09/07/76	0	13
GRSM0256	00927	MAGNESIUM, TOTAL (MG/L AS MG)	05/20/77-05/20/77	0	1
GRSM0258	00927	MAGNESIUM, TOTAL (MG/L AS MG)	11/03/71-11/03/71	0	1
GRSM0262	00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/23/77-10/11/78	1	8
GRSM0009	00929	SODIUM, TOTAL (MG/L AS NA)	02/15/77-12/21/89	12	5
GRSM0014	00929	SODIUM, TOTAL (MG/L AS NA)	08/05/87-08/05/87	0	1
GRSM0017	00929	SODIUM, TOTAL (MG/L AS NA)	08/05/87-08/05/87	0	1
GRSM0021	00929	SODIUM, TOTAL (MG/L AS NA)	05/03/66-01/31/67	0	9
GRSM0025	00929	SODIUM, TOTAL (MG/L AS NA)	08/05/87-08/05/87	0	1
GRSM0028	00929	SODIUM, TOTAL (MG/L AS NA)	08/05/87-08/05/87	0	1
GRSM0036	00929	SODIUM, TOTAL (MG/L AS NA)	02/04/74-01/17/77	2	36
GRSM0048	00929	SODIUM, TOTAL (MG/L AS NA)	03/03/74-01/17/77	2	36
GRSM0054	00929	SODIUM, TOTAL (MG/L AS NA)	02/15/77-10/24/78	1	8
GRSM0055	00929	SODIUM, TOTAL (MG/L AS NA)	02/15/77-10/18/77	0	4
GRSM0057	00929	SODIUM, TOTAL (MG/L AS NA)	01/28/74-02/26/79	5	46
GRSM0064	00929	SODIUM, TOTAL (MG/L AS NA)	08/05/87-08/05/87	0	1
GRSM0078	00929	SODIUM, TOTAL (MG/L AS NA)	01/28/74-01/24/77	2	37
GRSM0084	00929	SODIUM, TOTAL (MG/L AS NA)	04/30/68-03/24/69	0	7
GRSM0087	00929	SODIUM, TOTAL (MG/L AS NA)	01/23/67-03/24/69	2	17
GRSM0094	00929	SODIUM, TOTAL (MG/L AS NA)	03/26/82-03/26/82	0	1
GRSM0102	00929	SODIUM, TOTAL (MG/L AS NA)	04/30/68-03/24/69	0	7
GRSM0105	00929	SODIUM, TOTAL (MG/L AS NA)	04/30/68-03/24/69	0	8
GRSM0108	00929	SODIUM, TOTAL (MG/L AS NA)	03/26/82-03/26/82	0	1
GRSM0110	00929	SODIUM, TOTAL (MG/L AS NA)	11/12/81-03/26/82	0	3
GRSM0111	00929	SODIUM, TOTAL (MG/L AS NA)	12/01/81-12/01/81	0	3
GRSM0112	00929	SODIUM, TOTAL (MG/L AS NA)	11/12/81-08/01/82	0	130
GRSM0115	00929	SODIUM, TOTAL (MG/L AS NA)	08/11/82-08/11/82	0	1
GRSM0134	00929	SODIUM, TOTAL (MG/L AS NA)	03/26/82-03/26/82	0	1
GRSM0136	00929	SODIUM, TOTAL (MG/L AS NA)	11/12/81-11/12/81	0	1
GRSM0137	00929	SODIUM, TOTAL (MG/L AS NA)	12/02/81-04/22/82	0	3
GRSM0138	00929	SODIUM, TOTAL (MG/L AS NA)	11/12/81-03/24/82	0	3
GRSM0139	00929	SODIUM, TOTAL (MG/L AS NA)	03/22/82-03/22/82	0	1
GRSM0142	00929	SODIUM, TOTAL (MG/L AS NA)	12/02/81-12/02/81	0	1
GRSM0143	00929	SODIUM, TOTAL (MG/L AS NA)	03/22/82-03/22/82	0	1
GRSM0145	00929	SODIUM, TOTAL (MG/L AS NA)	03/22/82-03/22/82	0	1
GRSM0146	00929	SODIUM, TOTAL (MG/L AS NA)	03/24/82-03/24/82	0	1
GRSM0148	00929	SODIUM, TOTAL (MG/L AS NA)	03/24/82-03/24/82	0	1
GRSM0150	00929	SODIUM, TOTAL (MG/L AS NA)	03/26/82-03/26/82	0	1
GRSM0160	00929	SODIUM, TOTAL (MG/L AS NA)	04/20/82-04/20/82	0	1
GRSM0163	00929	SODIUM, TOTAL (MG/L AS NA)	03/23/82-04/20/82	0	2
GRSM0167	00929	SODIUM, TOTAL (MG/L AS NA)	04/21/82-04/21/82	0	1
GRSM0168	00929	SODIUM, TOTAL (MG/L AS NA)	04/21/82-04/21/82	0	1
GRSM0173	00929	SODIUM, TOTAL (MG/L AS NA)	03/25/82-03/25/82	0	1
GRSM0175	00929	SODIUM, TOTAL (MG/L AS NA)	12/02/81-03/25/82	0	2
GRSM0185	00929	SODIUM, TOTAL (MG/L AS NA)	05/20/77-03/15/89	11	2
GRSM0202	00929	SODIUM, TOTAL (MG/L AS NA)	01/08/68-03/18/75	7	19
GRSM0222	00929	SODIUM, TOTAL (MG/L AS NA)	01/08/68-07/29/68	0	5
GRSM0230	00929	SODIUM, TOTAL (MG/L AS NA)	06/05/80-06/05/80	0	1
GRSM0244	00929	SODIUM, TOTAL (MG/L AS NA)	10/10/67-12/06/68	1	15
GRSM0250	00929	SODIUM, TOTAL (MG/L AS NA)	10/21/75-02/08/77	1	17
GRSM0251	00929	SODIUM, TOTAL (MG/L AS NA)	10/21/75-09/07/76	0	13
GRSM0256	00929	SODIUM, TOTAL (MG/L AS NA)	05/20/77-05/20/77	0	1
GRSM0262	00929	SODIUM, TOTAL (MG/L AS NA)	02/23/77-10/11/78	1	8
GRSM0010	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	15	72
GRSM0031	00930	SODIUM, DISSOLVED (MG/L AS NA)	01/23/73-09/06/73	0	4
GRSM0041	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/18/82-10/18/82	0	1
GRSM0050	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	0	1
GRSM0052	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	0	1
GRSM0056	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/21/68-05/24/72	4	11
GRSM0061	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/19/82-10/19/82	0	1
GRSM0071	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/25/85-07/11/85	0	4
GRSM0072	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/13/83-05/08/85	1	24
GRSM0074	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/06/56-04/13/62	5	8
GRSM0076	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	0	1
GRSM0077	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/18/82-10/18/82	0	1
GRSM0080	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	0	1
GRSM0081	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/25/85-07/08/85	0	4

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0086	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/20/85-07/03/85	0	4
GRSM0091	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/23/73-08/08/74	0	2
GRSM0095	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/03/85-07/03/85	0	1
GRSM0099	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/22/85-07/16/85	0	2
GRSM0100	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/08/85-07/08/85	0	1
GRSM0106	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/25/85-07/16/85	0	4
GRSM0107	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/24/68-09/24/68	0	1
GRSM0120	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/24/68-09/24/68	0	1
GRSM0125	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	0	1
GRSM0129	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	0	1
GRSM0132	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1
GRSM0135	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	0	1
GRSM0140	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	0	1
GRSM0144	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	0	1
GRSM0147	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	0	1
GRSM0149	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	0	1
GRSM0152	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/10/85-07/10/85	0	1
GRSM0153	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	0	1
GRSM0154	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1
GRSM0156	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1
GRSM0158	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1
GRSM0159	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1
GRSM0161	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	0	1
GRSM0162	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1
GRSM0164	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	0	1
GRSM0165	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1
GRSM0170	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	0	1
GRSM0172	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/31/91-10/31/91	0	1
GRSM0174	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	0	1
GRSM0176	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	0	1
GRSM0177	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	0	1
GRSM0178	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/24/68-09/24/68	0	1
GRSM0179	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	0	1
GRSM0180	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/30/91-10/30/91	0	1
GRSM0182	00930	SODIUM, DISSOLVED (MG/L AS NA)	08/10/63-11/22/94	31	58
GRSM0183	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/29/91-10/29/91	0	1
GRSM0184	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/18/62-05/11/93	30	123
GRSM0186	00930	SODIUM, DISSOLVED (MG/L AS NA)	04/23/76-04/23/76	0	1
GRSM0190	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/27/85-07/10/85	0	4
GRSM0191	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	0	1
GRSM0194	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/25/85-07/08/85	0	4
GRSM0195	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/16/85-07/16/85	0	1
GRSM0206	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/08/85-07/08/85	0	1
GRSM0208	00930	SODIUM, DISSOLVED (MG/L AS NA)	11/29/84-11/29/84	0	1
GRSM0213	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/28/85-07/16/85	0	4
GRSM0214	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/05/78-05/05/78	0	1
GRSM0216	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/04/78-05/04/78	0	1
GRSM0217	00930	SODIUM, DISSOLVED (MG/L AS NA)	05/06/78-05/06/78	0	1
GRSM0221	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	0	1
GRSM0223	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/06/67-08/01/68	0	4
GRSM0227	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/25/68-09/25/68	0	1
GRSM0229	00930	SODIUM, DISSOLVED (MG/L AS NA)	12/13/83-05/15/85	1	51
GRSM0237	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/28/85-07/10/85	0	4
GRSM0240	00930	SODIUM, DISSOLVED (MG/L AS NA)	09/24/68-09/24/68	0	1
GRSM0249	00930	SODIUM, DISSOLVED (MG/L AS NA)	10/17/57-03/28/73	15	74
GRSM0255	00930	SODIUM, DISSOLVED (MG/L AS NA)	07/07/85-07/07/85	0	1
GRSM0259	00930	SODIUM, DISSOLVED (MG/L AS NA)	03/24/85-07/07/85	0	4
GRSM0010	00931	SODIUM ADSORPTION RATIO	11/06/70-05/09/72	1	10
GRSM0031	00931	SODIUM ADSORPTION RATIO	01/23/73-09/06/73	0	4
GRSM0056	00931	SODIUM ADSORPTION RATIO	05/21/68-05/24/72	4	11
GRSM0076	00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	0	1
GRSM0091	00931	SODIUM ADSORPTION RATIO	10/23/73-08/08/74	0	2
GRSM0107	00931	SODIUM ADSORPTION RATIO	09/24/68-09/24/68	0	1
GRSM0120	00931	SODIUM ADSORPTION RATIO	09/24/68-09/24/68	0	1
GRSM0144	00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	0	1
GRSM0161	00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	0	1
GRSM0164	00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	0	1
GRSM0178	00931	SODIUM ADSORPTION RATIO	09/24/68-09/24/68	0	1
GRSM0182	00931	SODIUM ADSORPTION RATIO	08/10/63-12/10/85	22	16
GRSM0184	00931	SODIUM ADSORPTION RATIO	11/01/67-02/11/86	18	72
GRSM0186	00931	SODIUM ADSORPTION RATIO	04/23/76-04/23/76	0	1
GRSM0214	00931	SODIUM ADSORPTION RATIO	05/05/78-05/05/78	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0216	00931	SODIUM ADSORPTION RATIO	05/04/78-05/04/78	0	1
GRSM0217	00931	SODIUM ADSORPTION RATIO	05/06/78-05/06/78	0	1
GRSM0221	00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	0	1
GRSM0223	00931	SODIUM ADSORPTION RATIO	09/06/67-08/01/68	0	4
GRSM0227	00931	SODIUM ADSORPTION RATIO	09/25/68-09/25/68	0	1
GRSM0240	00931	SODIUM ADSORPTION RATIO	09/24/68-09/24/68	0	1
GRSM0249	00931	SODIUM ADSORPTION RATIO	06/27/68-03/28/73	4	15
GRSM0010	00932	SODIUM, PERCENT	11/06/70-05/09/72	1	10
GRSM0031	00932	SODIUM, PERCENT	01/23/73-09/06/73	0	4
GRSM0056	00932	SODIUM, PERCENT	05/21/68-05/24/72	4	11
GRSM0076	00932	SODIUM, PERCENT	09/25/68-09/25/68	0	1
GRSM0091	00932	SODIUM, PERCENT	10/23/73-08/08/74	0	2
GRSM0107	00932	SODIUM, PERCENT	09/24/68-09/24/68	0	1
GRSM0120	00932	SODIUM, PERCENT	09/24/68-09/24/68	0	1
GRSM0144	00932	SODIUM, PERCENT	09/25/68-09/25/68	0	1
GRSM0161	00932	SODIUM, PERCENT	09/25/68-09/25/68	0	1
GRSM0164	00932	SODIUM, PERCENT	09/25/68-09/25/68	0	1
GRSM0178	00932	SODIUM, PERCENT	09/24/68-09/24/68	0	1
GRSM0182	00932	SODIUM, PERCENT	08/10/63-12/10/85	22	16
GRSM0184	00932	SODIUM, PERCENT	11/01/67-02/11/86	18	72
GRSM0186	00932	SODIUM, PERCENT	04/23/76-04/23/76	0	1
GRSM0214	00932	SODIUM, PERCENT	05/05/78-05/05/78	0	1
GRSM0216	00932	SODIUM, PERCENT	05/04/78-05/04/78	0	1
GRSM0217	00932	SODIUM, PERCENT	05/06/78-05/06/78	0	1
GRSM0221	00932	SODIUM, PERCENT	09/25/68-09/25/68	0	1
GRSM0223	00932	SODIUM, PERCENT	09/06/67-08/01/68	0	4
GRSM0227	00932	SODIUM, PERCENT	09/25/68-09/25/68	0	1
GRSM0240	00932	SODIUM, PERCENT	09/24/68-09/24/68	0	1
GRSM0249	00932	SODIUM, PERCENT	06/27/68-03/28/73	4	15
GRSM0184	00933	SODIUM,PLUS POTASSIUM (MG/L)	12/04/79-03/21/80	0	3
GRSM0230	00934	SODIUM IN BOTTOM DEPOSITS (MG/KG AS NA DRY WGT)	06/05/80-06/05/80	0	1
GRSM0010	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	15	72
GRSM0031	00935	POTASSIUM, DISSOLVED (MG/L AS K)	01/23/73-09/06/73	0	4
GRSM0041	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/82-10/18/82	0	1
GRSM0050	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	0	1
GRSM0052	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	0	1
GRSM0056	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/21/68-05/24/72	4	11
GRSM0061	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/19/82-10/19/82	0	1
GRSM0071	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/25/85-07/11/85	0	4
GRSM0072	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/13/83-05/08/85	1	24
GRSM0074	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/06/56-04/13/62	5	8
GRSM0076	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	0	1
GRSM0077	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/82-10/18/82	0	1
GRSM0080	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	0	1
GRSM0081	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/25/85-07/08/85	0	4
GRSM0086	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/20/85-07/03/85	0	4
GRSM0091	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/23/73-08/08/74	0	2
GRSM0095	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/03/85-07/03/85	0	1
GRSM0099	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/22/85-07/16/85	0	2
GRSM0100	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/08/85-07/08/85	0	1
GRSM0106	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/25/85-07/16/85	0	4
GRSM0107	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/24/68-09/24/68	0	1
GRSM0120	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/24/68-09/24/68	0	1
GRSM0125	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	0	1
GRSM0129	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	0	1
GRSM0132	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1
GRSM0135	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	0	1
GRSM0140	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	0	1
GRSM0144	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	0	1
GRSM0147	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	0	1
GRSM0149	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	0	1
GRSM0152	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/10/85-07/10/85	0	1
GRSM0153	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	0	1
GRSM0154	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1
GRSM0156	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1
GRSM0158	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1
GRSM0159	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1
GRSM0161	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	0	1
GRSM0162	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1
GRSM0164	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	0	1
GRSM0165	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1
GRSM0170	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0172	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/31/91-10/31/91	0	1
GRSM0174	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	0	1
GRSM0176	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	0	1
GRSM0177	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	0	1
GRSM0178	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/24/68-09/24/68	0	1
GRSM0179	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	0	1
GRSM0180	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/30/91-10/30/91	0	1
GRSM0182	00935	POTASSIUM, DISSOLVED (MG/L AS K)	08/10/63-11/22/94	31	58
GRSM0183	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/29/91-10/29/91	0	1
GRSM0184	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/18/62-05/11/93	30	123
GRSM0186	00935	POTASSIUM, DISSOLVED (MG/L AS K)	04/23/76-04/23/76	0	1
GRSM0190	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/27/85-07/10/85	0	4
GRSM0191	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	0	1
GRSM0194	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/25/85-07/08/85	0	4
GRSM0195	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/16/85-07/16/85	0	1
GRSM0206	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/08/85-07/08/85	0	1
GRSM0208	00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/29/84-11/29/84	0	1
GRSM0213	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/28/85-07/16/85	0	4
GRSM0214	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/05/78-05/05/78	0	1
GRSM0216	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/04/78-05/04/78	0	1
GRSM0217	00935	POTASSIUM, DISSOLVED (MG/L AS K)	05/06/78-05/06/78	0	1
GRSM0221	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	0	1
GRSM0223	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/06/67-08/01/68	0	4
GRSM0227	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/25/68-09/25/68	0	1
GRSM0229	00935	POTASSIUM, DISSOLVED (MG/L AS K)	12/13/83-05/15/85	1	51
GRSM0237	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/28/85-07/10/85	0	4
GRSM0240	00935	POTASSIUM, DISSOLVED (MG/L AS K)	09/24/68-09/24/68	0	1
GRSM0249	00935	POTASSIUM, DISSOLVED (MG/L AS K)	10/17/57-03/28/73	15	74
GRSM0255	00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/07/85-07/07/85	0	1
GRSM0259	00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/24/85-07/07/85	0	4
GRSM0014	00937	POTASSIUM, TOTAL MG/L AS K)	08/05/87-08/05/87	0	1
GRSM0017	00937	POTASSIUM, TOTAL MG/L AS K)	08/05/87-08/05/87	0	1
GRSM0021	00937	POTASSIUM, TOTAL MG/L AS K)	05/03/66-01/31/67	0	9
GRSM0025	00937	POTASSIUM, TOTAL MG/L AS K)	08/05/87-08/05/87	0	1
GRSM0028	00937	POTASSIUM, TOTAL MG/L AS K)	08/05/87-08/05/87	0	1
GRSM0036	00937	POTASSIUM, TOTAL MG/L AS K)	02/04/74-01/17/77	2	36
GRSM0048	00937	POTASSIUM, TOTAL MG/L AS K)	03/03/74-01/17/77	2	36
GRSM0054	00937	POTASSIUM, TOTAL MG/L AS K)	02/15/77-10/24/78	1	8
GRSM0057	00937	POTASSIUM, TOTAL MG/L AS K)	01/28/74-02/26/79	5	46
GRSM0064	00937	POTASSIUM, TOTAL MG/L AS K)	08/05/87-08/05/87	0	1
GRSM0078	00937	POTASSIUM, TOTAL MG/L AS K)	01/28/74-01/24/77	2	37
GRSM0084	00937	POTASSIUM, TOTAL MG/L AS K)	04/30/68-03/24/69	0	7
GRSM0087	00937	POTASSIUM, TOTAL MG/L AS K)	01/23/67-03/24/69	2	17
GRSM0094	00937	POTASSIUM, TOTAL MG/L AS K)	03/26/82-03/26/82	0	1
GRSM0102	00937	POTASSIUM, TOTAL MG/L AS K)	04/30/68-03/24/69	0	7
GRSM0105	00937	POTASSIUM, TOTAL MG/L AS K)	04/30/68-03/24/69	0	8
GRSM0108	00937	POTASSIUM, TOTAL MG/L AS K)	03/26/82-03/26/82	0	1
GRSM0110	00937	POTASSIUM, TOTAL MG/L AS K)	11/12/81-03/26/82	0	3
GRSM0111	00937	POTASSIUM, TOTAL MG/L AS K)	12/01/81-12/01/81	0	3
GRSM0112	00937	POTASSIUM, TOTAL MG/L AS K)	11/12/81-08/01/82	0	130
GRSM0115	00937	POTASSIUM, TOTAL MG/L AS K)	08/11/82-08/11/82	0	1
GRSM0134	00937	POTASSIUM, TOTAL MG/L AS K)	03/26/82-03/26/82	0	1
GRSM0136	00937	POTASSIUM, TOTAL MG/L AS K)	11/12/81-11/12/81	0	1
GRSM0137	00937	POTASSIUM, TOTAL MG/L AS K)	12/02/81-04/22/82	0	3
GRSM0138	00937	POTASSIUM, TOTAL MG/L AS K)	11/12/81-03/24/82	0	3
GRSM0139	00937	POTASSIUM, TOTAL MG/L AS K)	03/22/82-03/22/82	0	1
GRSM0142	00937	POTASSIUM, TOTAL MG/L AS K)	12/02/81-12/02/81	0	1
GRSM0143	00937	POTASSIUM, TOTAL MG/L AS K)	03/22/82-03/22/82	0	1
GRSM0145	00937	POTASSIUM, TOTAL MG/L AS K)	03/22/82-03/22/82	0	1
GRSM0146	00937	POTASSIUM, TOTAL MG/L AS K)	03/24/82-03/24/82	0	1
GRSM0148	00937	POTASSIUM, TOTAL MG/L AS K)	03/24/82-03/24/82	0	1
GRSM0150	00937	POTASSIUM, TOTAL MG/L AS K)	03/26/82-03/26/82	0	1
GRSM0160	00937	POTASSIUM, TOTAL MG/L AS K)	04/20/82-04/20/82	0	1
GRSM0163	00937	POTASSIUM, TOTAL MG/L AS K)	03/23/82-04/20/82	0	2
GRSM0167	00937	POTASSIUM, TOTAL MG/L AS K)	04/21/82-04/21/82	0	1
GRSM0168	00937	POTASSIUM, TOTAL MG/L AS K)	04/21/82-04/21/82	0	1
GRSM0173	00937	POTASSIUM, TOTAL MG/L AS K)	03/25/82-03/25/82	0	1
GRSM0175	00937	POTASSIUM, TOTAL MG/L AS K)	12/02/81-03/25/82	0	2
GRSM0185	00937	POTASSIUM, TOTAL MG/L AS K)	03/15/89-03/15/89	0	1
GRSM0202	00937	POTASSIUM, TOTAL MG/L AS K)	01/08/68-03/18/75	7	19
GRSM0222	00937	POTASSIUM, TOTAL MG/L AS K)	01/08/68-07/29/68	0	5
GRSM0244	00937	POTASSIUM, TOTAL MG/L AS K)	10/10/67-12/06/68	1	15

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0250	00937	POTASSIUM, TOTAL MG/L AS K)		10/21/75-02/08/77	1	17
GRSM0251	00937	POTASSIUM, TOTAL MG/L AS K)		10/21/75-09/07/76	0	13
GRSM0262	00937	POTASSIUM, TOTAL MG/L AS K)		02/23/77-10/11/78	1	8
GRSM0009	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/23/75-08/09/77	1	19
GRSM0010	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/19/56-05/09/72	15	72
GRSM0014	00940	CHLORIDE,TOTAL IN WATER	MG/L	08/05/87-08/05/87	0	1
GRSM0017	00940	CHLORIDE,TOTAL IN WATER	MG/L	08/05/87-08/05/87	0	1
GRSM0021	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/03/66-01/31/67	0	9
GRSM0025	00940	CHLORIDE,TOTAL IN WATER	MG/L	08/05/87-08/05/87	0	1
GRSM0028	00940	CHLORIDE,TOTAL IN WATER	MG/L	08/05/87-08/05/87	0	1
GRSM0031	00940	CHLORIDE,TOTAL IN WATER	MG/L	01/23/73-09/06/73	0	4
GRSM0036	00940	CHLORIDE,TOTAL IN WATER	MG/L	02/04/74-01/17/77	2	38
GRSM0048	00940	CHLORIDE,TOTAL IN WATER	MG/L	03/03/74-01/17/77	2	36
GRSM0054	00940	CHLORIDE,TOTAL IN WATER	MG/L	02/15/77-10/24/78	1	8
GRSM0055	00940	CHLORIDE,TOTAL IN WATER	MG/L	02/15/77-04/25/78	1	6
GRSM0056	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/21/68-05/24/72	4	11
GRSM0057	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/04/66-06/17/80	14	63
GRSM0064	00940	CHLORIDE,TOTAL IN WATER	MG/L	08/05/87-08/05/87	0	1
GRSM0070	00940	CHLORIDE,TOTAL IN WATER	MG/L	01/29/75-01/29/75	0	1
GRSM0073	00940	CHLORIDE,TOTAL IN WATER	MG/L	01/29/75-01/29/75	0	1
GRSM0074	00940	CHLORIDE,TOTAL IN WATER	MG/L	11/06/56-04/13/62	5	8
GRSM0076	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/25/68-09/25/68	0	1
GRSM0078	00940	CHLORIDE,TOTAL IN WATER	MG/L	01/28/74-01/24/77	2	37
GRSM0084	00940	CHLORIDE,TOTAL IN WATER	MG/L	04/30/68-03/24/69	0	8
GRSM0085	00940	CHLORIDE,TOTAL IN WATER	MG/L	01/29/75-01/29/75	0	1
GRSM0087	00940	CHLORIDE,TOTAL IN WATER	MG/L	01/23/67-03/24/69	2	17
GRSM0091	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/23/73-08/08/74	0	2
GRSM0094	00940	CHLORIDE,TOTAL IN WATER	MG/L	03/26/82-03/26/82	0	1
GRSM0101	00940	CHLORIDE,TOTAL IN WATER	MG/L	01/29/75-01/29/75	0	1
GRSM0102	00940	CHLORIDE,TOTAL IN WATER	MG/L	04/30/68-03/24/69	0	8
GRSM0105	00940	CHLORIDE,TOTAL IN WATER	MG/L	04/30/68-03/24/69	0	9
GRSM0107	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/24/68-09/24/68	0	1
GRSM0108	00940	CHLORIDE,TOTAL IN WATER	MG/L	03/26/82-03/26/82	0	1
GRSM0109	00940	CHLORIDE,TOTAL IN WATER	MG/L	01/29/75-01/29/75	0	1
GRSM0110	00940	CHLORIDE,TOTAL IN WATER	MG/L	11/12/81-03/26/82	0	3
GRSM0111	00940	CHLORIDE,TOTAL IN WATER	MG/L	07/29/82-07/29/82	0	1
GRSM0112	00940	CHLORIDE,TOTAL IN WATER	MG/L	11/12/81-08/01/82	0	126
GRSM0115	00940	CHLORIDE,TOTAL IN WATER	MG/L	08/11/82-08/11/82	0	1
GRSM0120	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/24/68-09/24/68	0	1
GRSM0125	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/29/91-10/29/91	0	1
GRSM0129	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/29/91-10/29/91	0	1
GRSM0132	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/31/91-10/31/91	0	1
GRSM0134	00940	CHLORIDE,TOTAL IN WATER	MG/L	03/26/82-03/26/82	0	1
GRSM0135	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/30/91-10/30/91	0	1
GRSM0136	00940	CHLORIDE,TOTAL IN WATER	MG/L	11/12/81-11/12/81	0	1
GRSM0137	00940	CHLORIDE,TOTAL IN WATER	MG/L	12/02/81-04/22/82	0	3
GRSM0138	00940	CHLORIDE,TOTAL IN WATER	MG/L	11/12/81-03/24/82	0	3
GRSM0139	00940	CHLORIDE,TOTAL IN WATER	MG/L	03/22/82-03/22/82	0	1
GRSM0140	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/30/91-10/30/91	0	1
GRSM0142	00940	CHLORIDE,TOTAL IN WATER	MG/L	12/02/81-12/02/81	0	1
GRSM0143	00940	CHLORIDE,TOTAL IN WATER	MG/L	03/22/82-03/22/82	0	1
GRSM0144	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/25/68-09/25/68	0	1
GRSM0145	00940	CHLORIDE,TOTAL IN WATER	MG/L	03/22/82-03/22/82	0	1
GRSM0146	00940	CHLORIDE,TOTAL IN WATER	MG/L	03/24/82-03/24/82	0	1
GRSM0147	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/29/91-10/29/91	0	1
GRSM0148	00940	CHLORIDE,TOTAL IN WATER	MG/L	03/24/82-03/24/82	0	1
GRSM0149	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/29/91-10/29/91	0	1
GRSM0150	00940	CHLORIDE,TOTAL IN WATER	MG/L	03/26/82-03/26/82	0	1
GRSM0153	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/30/91-10/30/91	0	1
GRSM0154	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/31/91-10/31/91	0	1
GRSM0156	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/31/91-10/31/91	0	1
GRSM0158	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/31/91-10/31/91	0	1
GRSM0159	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/31/91-10/31/91	0	1
GRSM0160	00940	CHLORIDE,TOTAL IN WATER	MG/L	04/20/82-04/20/82	0	1
GRSM0161	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/25/68-09/25/68	0	1
GRSM0162	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/31/91-10/31/91	0	1
GRSM0163	00940	CHLORIDE,TOTAL IN WATER	MG/L	03/23/82-04/20/82	0	2
GRSM0164	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/25/68-09/25/68	0	1
GRSM0165	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/31/91-10/31/91	0	1
GRSM0167	00940	CHLORIDE,TOTAL IN WATER	MG/L	04/21/82-04/21/82	0	1
GRSM0168	00940	CHLORIDE,TOTAL IN WATER	MG/L	04/21/82-04/21/82	0	1
GRSM0170	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/29/91-10/29/91	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0172	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/31/91-10/31/91	0	1
GRSM0173	00940	CHLORIDE,TOTAL IN WATER	MG/L	03/25/82-03/25/82	0	1
GRSM0174	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/29/91-10/29/91	0	1
GRSM0175	00940	CHLORIDE,TOTAL IN WATER	MG/L	12/02/81-03/25/82	0	2
GRSM0176	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/30/91-10/30/91	0	1
GRSM0178	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/24/68-09/24/68	0	1
GRSM0179	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/30/91-10/30/91	0	1
GRSM0180	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/30/91-10/30/91	0	1
GRSM0182	00940	CHLORIDE,TOTAL IN WATER	MG/L	08/10/63-11/22/94	31	58
GRSM0183	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/29/91-10/29/91	0	1
GRSM0184	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/18/62-05/11/93	30	122
GRSM0186	00940	CHLORIDE,TOTAL IN WATER	MG/L	04/23/76-04/23/76	0	1
GRSM0202	00940	CHLORIDE,TOTAL IN WATER	MG/L	01/08/68-03/18/75	7	19
GRSM0214	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/05/78-05/05/78	0	1
GRSM0216	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/04/78-05/04/78	0	1
GRSM0217	00940	CHLORIDE,TOTAL IN WATER	MG/L	05/06/78-05/06/78	0	1
GRSM0221	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/25/68-09/25/68	0	1
GRSM0222	00940	CHLORIDE,TOTAL IN WATER	MG/L	01/08/68-07/29/68	0	6
GRSM0223	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/06/67-08/01/68	0	4
GRSM0227	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/25/68-09/25/68	0	1
GRSM0240	00940	CHLORIDE,TOTAL IN WATER	MG/L	09/24/68-09/24/68	0	1
GRSM0244	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/10/67-12/06/68	1	15
GRSM0249	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/17/57-03/28/73	15	74
GRSM0250	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/21/75-02/08/77	1	17
GRSM0251	00940	CHLORIDE,TOTAL IN WATER	MG/L	10/21/75-09/07/76	0	13
GRSM0258	00940	CHLORIDE,TOTAL IN WATER	MG/L	01/07/65-10/26/65	0	8
GRSM0261	00940	CHLORIDE,TOTAL IN WATER	MG/L	06/02/64-08/22/67	3	40
GRSM0262	00940	CHLORIDE,TOTAL IN WATER	MG/L	02/23/77-10/11/78	1	8
GRSM0050	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	11/20/84-11/20/84	0	1
GRSM0052	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	11/20/84-11/20/84	0	1
GRSM0071	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	03/25/85-07/11/85	0	4
GRSM0080	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	11/20/84-11/20/84	0	1
GRSM0081	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	03/25/85-07/08/85	0	4
GRSM0086	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	03/20/85-07/03/85	0	4
GRSM0095	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	07/03/85-07/03/85	0	1
GRSM0099	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	04/22/85-07/16/85	0	2
GRSM0100	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	07/08/85-07/08/85	0	1
GRSM0106	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	03/25/85-07/16/85	0	4
GRSM0152	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	07/10/85-07/10/85	0	1
GRSM0177	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	11/20/84-11/20/84	0	1
GRSM0190	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	03/27/85-07/10/85	0	4
GRSM0191	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	11/20/84-11/20/84	0	1
GRSM0194	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	03/25/85-07/08/85	0	4
GRSM0195	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	07/16/85-07/16/85	0	1
GRSM0206	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	07/08/85-07/08/85	0	1
GRSM0208	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	11/29/84-11/29/84	0	1
GRSM0213	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	03/28/85-07/16/85	0	4
GRSM0237	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	03/28/85-07/10/85	0	4
GRSM0255	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	07/07/85-07/07/85	0	1
GRSM0259	00941	CHLORIDE, DISSOLVED IN WATER	MG/L	03/24/85-07/07/85	0	4
GRSM0009	00945	SULFATE, TOTAL (MG/L AS SO4)		09/23/75-08/09/77	1	18
GRSM0010	00945	SULFATE, TOTAL (MG/L AS SO4)		10/19/56-05/09/72	15	72
GRSM0011	00945	SULFATE, TOTAL (MG/L AS SO4)		07/29/68-07/28/71	2	8
GRSM0014	00945	SULFATE, TOTAL (MG/L AS SO4)		08/05/87-08/05/87	0	1
GRSM0017	00945	SULFATE, TOTAL (MG/L AS SO4)		08/05/87-08/05/87	0	1
GRSM0021	00945	SULFATE, TOTAL (MG/L AS SO4)		05/03/66-01/31/67	0	9
GRSM0025	00945	SULFATE, TOTAL (MG/L AS SO4)		08/05/87-08/05/87	0	1
GRSM0028	00945	SULFATE, TOTAL (MG/L AS SO4)		08/05/87-08/05/87	0	1
GRSM0031	00945	SULFATE, TOTAL (MG/L AS SO4)		01/23/73-09/06/73	0	4
GRSM0036	00945	SULFATE, TOTAL (MG/L AS SO4)		02/04/74-01/17/77	2	37
GRSM0037	00945	SULFATE, TOTAL (MG/L AS SO4)		06/20/68-07/28/71	3	9
GRSM0048	00945	SULFATE, TOTAL (MG/L AS SO4)		03/03/74-01/17/77	2	36
GRSM0054	00945	SULFATE, TOTAL (MG/L AS SO4)		02/15/77-10/24/78	1	8
GRSM0055	00945	SULFATE, TOTAL (MG/L AS SO4)		02/15/77-08/29/78	1	6
GRSM0056	00945	SULFATE, TOTAL (MG/L AS SO4)		05/21/68-05/24/72	4	11
GRSM0057	00945	SULFATE, TOTAL (MG/L AS SO4)		06/06/66-06/17/80	14	59
GRSM0064	00945	SULFATE, TOTAL (MG/L AS SO4)		08/05/87-08/05/87	0	1
GRSM0074	00945	SULFATE, TOTAL (MG/L AS SO4)		11/06/56-04/13/62	5	8
GRSM0076	00945	SULFATE, TOTAL (MG/L AS SO4)		09/25/68-09/25/68	0	1
GRSM0078	00945	SULFATE, TOTAL (MG/L AS SO4)		01/28/74-01/24/77	2	37
GRSM0084	00945	SULFATE, TOTAL (MG/L AS SO4)		04/30/68-03/24/69	0	8
GRSM0087	00945	SULFATE, TOTAL (MG/L AS SO4)		01/23/67-03/24/69	2	17

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0091	00945	SULFATE, TOTAL (MG/L AS SO4)	10/23/73-08/08/74	0	2
GRSM0094	00945	SULFATE, TOTAL (MG/L AS SO4)	03/26/82-03/26/82	0	1
GRSM0102	00945	SULFATE, TOTAL (MG/L AS SO4)	04/30/68-03/24/69	0	8
GRSM0103	00945	SULFATE, TOTAL (MG/L AS SO4)	05/23/91-09/30/91	0	3
GRSM0105	00945	SULFATE, TOTAL (MG/L AS SO4)	04/30/68-03/24/69	0	9
GRSM0107	00945	SULFATE, TOTAL (MG/L AS SO4)	09/24/68-09/24/68	0	1
GRSM0108	00945	SULFATE, TOTAL (MG/L AS SO4)	03/26/82-03/26/82	0	1
GRSM0110	00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/81-03/26/82	0	2
GRSM0111	00945	SULFATE, TOTAL (MG/L AS SO4)	07/29/82-07/29/82	0	1
GRSM0112	00945	SULFATE, TOTAL (MG/L AS SO4)	11/30/81-08/01/82	0	140
GRSM0115	00945	SULFATE, TOTAL (MG/L AS SO4)	08/11/82-08/11/82	0	1
GRSM0120	00945	SULFATE, TOTAL (MG/L AS SO4)	09/24/68-09/24/68	0	1
GRSM0125	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	0	1
GRSM0129	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	0	1
GRSM0132	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1
GRSM0134	00945	SULFATE, TOTAL (MG/L AS SO4)	03/26/82-03/26/82	0	1
GRSM0135	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	0	1
GRSM0137	00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/81-04/22/82	0	3
GRSM0138	00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/81-03/24/82	0	2
GRSM0139	00945	SULFATE, TOTAL (MG/L AS SO4)	03/22/82-03/22/82	0	1
GRSM0140	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	0	1
GRSM0142	00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/81-12/02/81	0	1
GRSM0143	00945	SULFATE, TOTAL (MG/L AS SO4)	03/22/82-03/22/82	0	1
GRSM0144	00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	0	1
GRSM0145	00945	SULFATE, TOTAL (MG/L AS SO4)	03/22/82-03/22/82	0	1
GRSM0146	00945	SULFATE, TOTAL (MG/L AS SO4)	03/24/82-03/24/82	0	1
GRSM0147	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	0	1
GRSM0148	00945	SULFATE, TOTAL (MG/L AS SO4)	03/24/82-03/24/82	0	1
GRSM0149	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	0	1
GRSM0150	00945	SULFATE, TOTAL (MG/L AS SO4)	03/26/82-03/26/82	0	1
GRSM0153	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	0	1
GRSM0154	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1
GRSM0156	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1
GRSM0158	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1
GRSM0159	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1
GRSM0160	00945	SULFATE, TOTAL (MG/L AS SO4)	04/20/82-04/20/82	0	1
GRSM0161	00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	0	1
GRSM0162	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1
GRSM0163	00945	SULFATE, TOTAL (MG/L AS SO4)	03/23/82-04/20/82	0	2
GRSM0164	00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	0	1
GRSM0165	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1
GRSM0167	00945	SULFATE, TOTAL (MG/L AS SO4)	04/21/82-04/21/82	0	1
GRSM0168	00945	SULFATE, TOTAL (MG/L AS SO4)	04/21/82-04/21/82	0	1
GRSM0170	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	0	1
GRSM0172	00945	SULFATE, TOTAL (MG/L AS SO4)	10/31/91-10/31/91	0	1
GRSM0173	00945	SULFATE, TOTAL (MG/L AS SO4)	03/25/82-03/25/82	0	1
GRSM0174	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	0	1
GRSM0175	00945	SULFATE, TOTAL (MG/L AS SO4)	12/02/81-03/25/82	0	2
GRSM0176	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	0	1
GRSM0178	00945	SULFATE, TOTAL (MG/L AS SO4)	09/24/68-09/24/68	0	1
GRSM0179	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	0	1
GRSM0180	00945	SULFATE, TOTAL (MG/L AS SO4)	10/30/91-10/30/91	0	1
GRSM0182	00945	SULFATE, TOTAL (MG/L AS SO4)	08/10/63-11/22/94	31	58
GRSM0183	00945	SULFATE, TOTAL (MG/L AS SO4)	10/29/91-10/29/91	0	1
GRSM0184	00945	SULFATE, TOTAL (MG/L AS SO4)	10/18/62-05/11/93	30	124
GRSM0185	00945	SULFATE, TOTAL (MG/L AS SO4)	02/24/83-12/19/90	7	56
GRSM0186	00945	SULFATE, TOTAL (MG/L AS SO4)	04/23/76-04/23/76	0	1
GRSM0202	00945	SULFATE, TOTAL (MG/L AS SO4)	01/08/68-03/18/75	7	19
GRSM0214	00945	SULFATE, TOTAL (MG/L AS SO4)	05/05/78-05/05/78	0	1
GRSM0216	00945	SULFATE, TOTAL (MG/L AS SO4)	05/04/78-05/04/78	0	1
GRSM0217	00945	SULFATE, TOTAL (MG/L AS SO4)	05/06/78-05/06/78	0	1
GRSM0221	00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	0	1
GRSM0222	00945	SULFATE, TOTAL (MG/L AS SO4)	01/08/68-07/29/68	0	6
GRSM0223	00945	SULFATE, TOTAL (MG/L AS SO4)	09/06/67-08/01/68	0	4
GRSM0227	00945	SULFATE, TOTAL (MG/L AS SO4)	09/25/68-09/25/68	0	1
GRSM0240	00945	SULFATE, TOTAL (MG/L AS SO4)	09/24/68-09/24/68	0	1
GRSM0244	00945	SULFATE, TOTAL (MG/L AS SO4)	10/10/67-12/06/68	1	15
GRSM0249	00945	SULFATE, TOTAL (MG/L AS SO4)	10/17/57-03/28/73	15	74
GRSM0250	00945	SULFATE, TOTAL (MG/L AS SO4)	10/21/75-02/08/77	1	17
GRSM0251	00945	SULFATE, TOTAL (MG/L AS SO4)	10/21/75-09/07/76	0	13
GRSM0253	00945	SULFATE, TOTAL (MG/L AS SO4)	06/05/73-06/08/73	0	4
GRSM0256	00945	SULFATE, TOTAL (MG/L AS SO4)	10/18/68-05/17/73	4	2

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0262	00945	SULFATE, TOTAL (MG/L AS SO4)	02/23/77-10/11/78	1	8
GRSM0041	00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/18/82-10/18/82	0	1
GRSM0061	00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/19/82-10/19/82	0	1
GRSM0071	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/25/85-07/11/85	0	4
GRSM0072	00946	SULFATE, DISSOLVED (MG/L AS SO4)	12/13/83-05/08/85	1	26
GRSM0077	00946	SULFATE, DISSOLVED (MG/L AS SO4)	10/18/82-10/18/82	0	1
GRSM0081	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/25/85-07/08/85	0	4
GRSM0086	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/20/85-07/03/85	0	4
GRSM0095	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/03/85-07/03/85	0	1
GRSM0099	00946	SULFATE, DISSOLVED (MG/L AS SO4)	04/22/85-07/16/85	0	2
GRSM0100	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/08/85-07/08/85	0	1
GRSM0106	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/25/85-07/16/85	0	4
GRSM0152	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/10/85-07/10/85	0	1
GRSM0190	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/27/85-07/10/85	0	4
GRSM0194	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/25/85-07/08/85	0	4
GRSM0195	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/16/85-07/16/85	0	1
GRSM0206	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/08/85-07/08/85	0	1
GRSM0213	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/28/85-07/16/85	0	4
GRSM0229	00946	SULFATE, DISSOLVED (MG/L AS SO4)	12/13/83-05/15/85	1	51
GRSM0237	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/28/85-07/10/85	0	4
GRSM0255	00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/07/85-07/07/85	0	1
GRSM0259	00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/24/85-07/07/85	0	4
GRSM0010	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	6	62
GRSM0041	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/82-10/18/82	0	1
GRSM0050	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	0	1
GRSM0052	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	0	1
GRSM0056	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/21/68-05/24/72	4	11
GRSM0061	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/19/82-10/19/82	0	1
GRSM0071	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/85-07/11/85	0	4
GRSM0072	00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/13/83-05/08/85	1	24
GRSM0074	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/06/56-04/13/62	5	8
GRSM0076	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	0	1
GRSM0077	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/82-10/18/82	0	1
GRSM0080	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	0	1
GRSM0081	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/85-07/08/85	0	4
GRSM0086	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/20/85-07/03/85	0	4
GRSM0091	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/23/73-08/08/74	0	2
GRSM0094	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	0	1
GRSM0095	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/03/85-07/03/85	0	1
GRSM0099	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/22/85-07/16/85	0	2
GRSM0100	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/08/85-07/08/85	0	1
GRSM0106	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/85-07/16/85	0	4
GRSM0107	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/24/68-09/24/68	0	1
GRSM0108	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	0	1
GRSM0110	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	0	1
GRSM0111	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/29/82-07/29/82	0	1
GRSM0112	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/17/82-08/01/82	0	91
GRSM0115	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/11/82-08/11/82	0	1
GRSM0120	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/24/68-09/24/68	0	1
GRSM0125	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	0	1
GRSM0129	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	0	1
GRSM0132	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1
GRSM0134	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	0	1
GRSM0135	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	0	1
GRSM0137	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/82-04/22/82	0	2
GRSM0138	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/82-03/24/82	0	1
GRSM0139	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/22/82-03/22/82	0	1
GRSM0140	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	0	1
GRSM0143	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/22/82-03/22/82	0	1
GRSM0144	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	0	1
GRSM0145	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/22/82-03/22/82	0	1
GRSM0146	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/82-03/24/82	0	1
GRSM0147	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	0	1
GRSM0148	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/82-03/24/82	0	1
GRSM0149	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	0	1
GRSM0150	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	0	1
GRSM0152	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/10/85-07/10/85	0	1
GRSM0153	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	0	1
GRSM0154	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1
GRSM0156	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1
GRSM0158	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1
GRSM0159	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0160	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/20/82-04/20/82	0	1
GRSM0161	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	0	1
GRSM0162	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1
GRSM0163	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/23/82-04/20/82	0	2
GRSM0164	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	0	1
GRSM0165	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1
GRSM0167	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/21/82-04/21/82	0	1
GRSM0168	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/21/82-04/21/82	0	1
GRSM0170	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	0	1
GRSM0172	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/31/91-10/31/91	0	1
GRSM0173	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/82-03/25/82	0	1
GRSM0174	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	0	1
GRSM0175	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/82-03/25/82	0	1
GRSM0176	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	0	1
GRSM0177	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	0	1
GRSM0178	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/24/68-09/24/68	0	1
GRSM0179	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	0	1
GRSM0180	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/30/91-10/30/91	0	1
GRSM0182	00950	FLUORIDE, DISSOLVED (MG/L AS F)	08/10/63-11/22/94	31	58
GRSM0183	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/29/91-10/29/91	0	1
GRSM0184	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/18/62-05/11/93	30	123
GRSM0186	00950	FLUORIDE, DISSOLVED (MG/L AS F)	04/23/76-04/23/76	0	1
GRSM0190	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/27/85-07/10/85	0	4
GRSM0191	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	0	1
GRSM0194	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/85-07/08/85	0	4
GRSM0195	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/16/85-07/16/85	0	1
GRSM0206	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/08/85-07/08/85	0	1
GRSM0208	00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/29/84-11/29/84	0	1
GRSM0213	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/28/85-07/16/85	0	4
GRSM0214	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/05/78-05/05/78	0	1
GRSM0216	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/04/78-05/04/78	0	1
GRSM0217	00950	FLUORIDE, DISSOLVED (MG/L AS F)	05/06/78-05/06/78	0	1
GRSM0221	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	0	1
GRSM0227	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/25/68-09/25/68	0	1
GRSM0229	00950	FLUORIDE, DISSOLVED (MG/L AS F)	12/13/83-05/15/85	1	51
GRSM0237	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/28/85-07/10/85	0	4
GRSM0240	00950	FLUORIDE, DISSOLVED (MG/L AS F)	09/24/68-09/24/68	0	1
GRSM0244	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/10/67-12/06/68	1	15
GRSM0249	00950	FLUORIDE, DISSOLVED (MG/L AS F)	10/17/57-03/28/73	15	74
GRSM0255	00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/07/85-07/07/85	0	1
GRSM0259	00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/24/85-07/07/85	0	4
GRSM0009	00951	FLUORIDE, TOTAL (MG/L AS F)	09/23/75-08/09/77	1	18
GRSM0036	00951	FLUORIDE, TOTAL (MG/L AS F)	02/04/74-01/17/77	2	35
GRSM0037	00951	FLUORIDE, TOTAL (MG/L AS F)	06/25/73-06/25/73	0	1
GRSM0048	00951	FLUORIDE, TOTAL (MG/L AS F)	03/03/74-01/17/77	2	35
GRSM0054	00951	FLUORIDE, TOTAL (MG/L AS F)	02/15/77-08/09/77	0	3
GRSM0055	00951	FLUORIDE, TOTAL (MG/L AS F)	02/15/77-08/29/78	1	7
GRSM0057	00951	FLUORIDE, TOTAL (MG/L AS F)	01/28/74-09/19/77	3	38
GRSM0070	00951	FLUORIDE, TOTAL (MG/L AS F)	09/16/74-09/16/74	0	1
GRSM0073	00951	FLUORIDE, TOTAL (MG/L AS F)	09/16/74-01/29/75	0	2
GRSM0078	00951	FLUORIDE, TOTAL (MG/L AS F)	01/28/74-01/24/77	2	36
GRSM0084	00951	FLUORIDE, TOTAL (MG/L AS F)	04/30/68-03/24/69	0	8
GRSM0087	00951	FLUORIDE, TOTAL (MG/L AS F)	05/02/68-03/24/69	0	8
GRSM0102	00951	FLUORIDE, TOTAL (MG/L AS F)	04/30/68-03/24/69	0	8
GRSM0105	00951	FLUORIDE, TOTAL (MG/L AS F)	04/30/68-03/24/69	0	9
GRSM0202	00951	FLUORIDE, TOTAL (MG/L AS F)	03/11/68-03/18/75	7	16
GRSM0222	00951	FLUORIDE, TOTAL (MG/L AS F)	03/11/68-07/29/68	0	5
GRSM0250	00951	FLUORIDE, TOTAL (MG/L AS F)	10/21/75-02/08/77	1	17
GRSM0251	00951	FLUORIDE, TOTAL (MG/L AS F)	10/21/75-09/07/76	0	13
GRSM0262	00951	FLUORIDE, TOTAL (MG/L AS F)	02/23/77-08/09/77	0	3
GRSM0010	00955	SILICA, DISSOLVED (MG/L AS SIO2)	10/19/56-05/09/72	15	72
GRSM0031	00955	SILICA, DISSOLVED (MG/L AS SIO2)	01/23/73-09/06/73	0	4
GRSM0036	00955	SILICA, DISSOLVED (MG/L AS SIO2)	03/17/75-01/17/77	1	23
GRSM0048	00955	SILICA, DISSOLVED (MG/L AS SIO2)	03/17/75-01/17/77	1	22
GRSM0050	00955	SILICA, DISSOLVED (MG/L AS SIO2)	11/20/84-11/20/84	0	1
GRSM0052	00955	SILICA, DISSOLVED (MG/L AS SIO2)	11/20/84-11/20/84	0	1
GRSM0054	00955	SILICA, DISSOLVED (MG/L AS SIO2)	02/15/77-02/15/77	0	1
GRSM0056	00955	SILICA, DISSOLVED (MG/L AS SIO2)	05/21/68-05/24/72	4	11
GRSM0057	00955	SILICA, DISSOLVED (MG/L AS SIO2)	03/17/75-02/01/77	1	23
GRSM0071	00955	SILICA, DISSOLVED (MG/L AS SIO2)	03/25/85-07/11/85	0	4
GRSM0074	00955	SILICA, DISSOLVED (MG/L AS SIO2)	11/06/56-04/13/62	5	7
GRSM0076	00955	SILICA, DISSOLVED (MG/L AS SIO2)	09/25/68-09/25/68	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0078	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/17/75-01/24/77	1	23
GRSM0080	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	0	1
GRSM0081	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/85-07/08/85	0	4
GRSM0086	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/20/85-07/03/85	0	4
GRSM0091	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/23/73-08/08/74	0	2
GRSM0094	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	0	1
GRSM0095	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/03/85-07/03/85	0	1
GRSM0099	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/22/85-07/16/85	0	2
GRSM0100	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/08/85-07/08/85	0	1
GRSM0106	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/85-07/16/85	0	4
GRSM0107	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/24/68-09/24/68	0	1
GRSM0108	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	0	1
GRSM0110	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	0	1
GRSM0111	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/29/82-07/29/82	0	1
GRSM0112	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-08/01/82	0	64
GRSM0115	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/11/82-08/11/82	0	1
GRSM0120	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/24/68-09/24/68	0	1
GRSM0125	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	0	1
GRSM0129	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	0	1
GRSM0132	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1
GRSM0134	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	0	1
GRSM0135	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	0	1
GRSM0137	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/24/82-04/22/82	0	2
GRSM0138	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/24/82-03/24/82	0	1
GRSM0139	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/22/82-03/22/82	0	1
GRSM0140	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	0	1
GRSM0143	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/22/82-03/22/82	0	1
GRSM0144	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/68-09/25/68	0	1
GRSM0145	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/22/82-03/22/82	0	1
GRSM0146	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/24/82-03/24/82	0	1
GRSM0147	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	0	1
GRSM0148	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/24/82-03/24/82	0	1
GRSM0149	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	0	1
GRSM0150	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	0	1
GRSM0152	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/10/85-07/10/85	0	1
GRSM0153	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	0	1
GRSM0154	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1
GRSM0156	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1
GRSM0158	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1
GRSM0159	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1
GRSM0160	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/20/82-04/20/82	0	1
GRSM0161	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/68-09/25/68	0	1
GRSM0162	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1
GRSM0163	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/23/82-04/20/82	0	2
GRSM0164	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/25/68-09/25/68	0	1
GRSM0165	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1
GRSM0167	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/21/82-04/21/82	0	1
GRSM0168	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/21/82-04/21/82	0	1
GRSM0170	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	0	1
GRSM0172	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/31/91-10/31/91	0	1
GRSM0173	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/82-03/25/82	0	1
GRSM0174	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	0	1
GRSM0175	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/82-03/25/82	0	1
GRSM0176	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	0	1
GRSM0177	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	0	1
GRSM0178	00955	SILICA, DISSOLVED (MG/L AS SI02)	09/24/68-09/24/68	0	1
GRSM0179	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	0	1
GRSM0180	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/30/91-10/30/91	0	1
GRSM0182	00955	SILICA, DISSOLVED (MG/L AS SI02)	08/10/63-11/22/94	31	58
GRSM0183	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/29/91-10/29/91	0	1
GRSM0184	00955	SILICA, DISSOLVED (MG/L AS SI02)	10/18/62-05/11/93	30	123
GRSM0186	00955	SILICA, DISSOLVED (MG/L AS SI02)	04/23/76-04/23/76	0	1
GRSM0190	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/27/85-07/10/85	0	4
GRSM0191	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	0	1
GRSM0194	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/85-07/08/85	0	4
GRSM0195	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/16/85-07/16/85	0	1
GRSM0206	00955	SILICA, DISSOLVED (MG/L AS SI02)	07/08/85-07/08/85	0	1
GRSM0208	00955	SILICA, DISSOLVED (MG/L AS SI02)	11/29/84-11/29/84	0	1
GRSM0213	00955	SILICA, DISSOLVED (MG/L AS SI02)	03/28/85-07/16/85	0	4
GRSM0214	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/05/78-05/05/78	0	1
GRSM0216	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/04/78-05/04/78	0	1
GRSM0217	00955	SILICA, DISSOLVED (MG/L AS SI02)	05/06/78-05/06/78	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0221	00955	SILICA, DISSOLVED (MG/L AS SIO2)	09/25/68-09/25/68	0	1
GRSM0223	00955	SILICA, DISSOLVED (MG/L AS SIO2)	09/06/67-08/01/68	0	4
GRSM0227	00955	SILICA, DISSOLVED (MG/L AS SIO2)	09/25/68-09/25/68	0	1
GRSM0237	00955	SILICA, DISSOLVED (MG/L AS SIO2)	03/28/85-07/10/85	0	4
GRSM0240	00955	SILICA, DISSOLVED (MG/L AS SIO2)	09/24/68-09/24/68	0	1
GRSM0244	00955	SILICA, DISSOLVED (MG/L AS SIO2)	10/10/67-12/06/68	1	15
GRSM0249	00955	SILICA, DISSOLVED (MG/L AS SIO2)	10/17/57-03/28/73	15	74
GRSM0250	00955	SILICA, DISSOLVED (MG/L AS SIO2)	10/21/75-02/08/77	1	17
GRSM0251	00955	SILICA, DISSOLVED (MG/L AS SIO2)	10/21/75-09/07/76	0	13
GRSM0255	00955	SILICA, DISSOLVED (MG/L AS SIO2)	07/07/85-07/07/85	0	1
GRSM0259	00955	SILICA, DISSOLVED (MG/L AS SIO2)	03/24/85-07/07/85	0	4
GRSM0262	00955	SILICA, DISSOLVED (MG/L AS SIO2)	02/23/77-02/23/77	0	1
GRSM0021	00956	SILICA, TOTAL (MG/L AS SIO2)	05/03/66-01/31/67	0	9
GRSM0036	00956	SILICA, TOTAL (MG/L AS SIO2)	02/04/74-02/18/75	1	15
GRSM0048	00956	SILICA, TOTAL (MG/L AS SIO2)	03/03/74-02/24/75	0	13
GRSM0057	00956	SILICA, TOTAL (MG/L AS SIO2)	06/06/66-02/18/75	8	17
GRSM0078	00956	SILICA, TOTAL (MG/L AS SIO2)	01/28/74-02/17/75	1	14
GRSM0084	00956	SILICA, TOTAL (MG/L AS SIO2)	04/30/68-03/24/69	0	8
GRSM0087	00956	SILICA, TOTAL (MG/L AS SIO2)	01/23/67-03/24/69	2	17
GRSM0094	00956	SILICA, TOTAL (MG/L AS SIO2)	03/26/82-03/26/82	0	1
GRSM0102	00956	SILICA, TOTAL (MG/L AS SIO2)	04/30/68-03/24/69	0	8
GRSM0105	00956	SILICA, TOTAL (MG/L AS SIO2)	04/30/68-03/24/69	0	9
GRSM0108	00956	SILICA, TOTAL (MG/L AS SIO2)	03/26/82-03/26/82	0	1
GRSM0110	00956	SILICA, TOTAL (MG/L AS SIO2)	03/26/82-03/26/82	0	1
GRSM0111	00956	SILICA, TOTAL (MG/L AS SIO2)	07/29/82-07/29/82	0	1
GRSM0112	00956	SILICA, TOTAL (MG/L AS SIO2)	03/26/82-08/01/82	0	71
GRSM0115	00956	SILICA, TOTAL (MG/L AS SIO2)	08/11/82-08/11/82	0	1
GRSM0134	00956	SILICA, TOTAL (MG/L AS SIO2)	03/26/82-03/26/82	0	1
GRSM0137	00956	SILICA, TOTAL (MG/L AS SIO2)	03/24/82-04/22/82	0	2
GRSM0138	00956	SILICA, TOTAL (MG/L AS SIO2)	03/24/82-03/24/82	0	1
GRSM0139	00956	SILICA, TOTAL (MG/L AS SIO2)	03/22/82-03/22/82	0	1
GRSM0143	00956	SILICA, TOTAL (MG/L AS SIO2)	03/22/82-03/22/82	0	1
GRSM0145	00956	SILICA, TOTAL (MG/L AS SIO2)	03/22/82-03/22/82	0	1
GRSM0146	00956	SILICA, TOTAL (MG/L AS SIO2)	03/24/82-03/24/82	0	1
GRSM0148	00956	SILICA, TOTAL (MG/L AS SIO2)	03/24/82-03/24/82	0	1
GRSM0150	00956	SILICA, TOTAL (MG/L AS SIO2)	03/26/82-03/26/82	0	1
GRSM0160	00956	SILICA, TOTAL (MG/L AS SIO2)	04/20/82-04/20/82	0	1
GRSM0163	00956	SILICA, TOTAL (MG/L AS SIO2)	03/23/82-04/20/82	0	2
GRSM0167	00956	SILICA, TOTAL (MG/L AS SIO2)	04/21/82-04/21/82	0	1
GRSM0168	00956	SILICA, TOTAL (MG/L AS SIO2)	04/21/82-04/21/82	0	1
GRSM0173	00956	SILICA, TOTAL (MG/L AS SIO2)	03/25/82-03/25/82	0	1
GRSM0175	00956	SILICA, TOTAL (MG/L AS SIO2)	03/25/82-03/25/82	0	1
GRSM0202	00956	SILICA, TOTAL (MG/L AS SIO2)	01/08/68-03/18/75	7	19
GRSM0222	00956	SILICA, TOTAL (MG/L AS SIO2)	01/08/68-07/29/68	0	6
GRSM0007	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	1	2
GRSM0011	01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/25/73-12/10/74	1	3
GRSM0013	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/30/75	1	5
GRSM0016	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	1	2
GRSM0022	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	1	2
GRSM0024	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/30/75	1	5
GRSM0027	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	1	2
GRSM0037	01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/25/73-11/21/74	1	2
GRSM0055	01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/25/73-11/21/74	1	2
GRSM0059	01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/25/73-11/27/74	1	2
GRSM0063	01000	ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	1	2
GRSM0070	01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/21/73-01/29/75	1	5
GRSM0073	01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/21/73-01/29/75	1	5
GRSM0182	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/08/70-02/05/91	20	12
GRSM0184	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/11/73-08/20/91	17	46
GRSM0186	01000	ARSENIC, DISSOLVED (UG/L AS AS)	04/23/76-04/23/76	0	1
GRSM0256	01000	ARSENIC, DISSOLVED (UG/L AS AS)	10/25/73-10/25/73	0	1
GRSM0184	01001	ARSENIC, SUSPENDED (UG/L AS AS)	10/11/73-09/08/82	8	17
GRSM0007	01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-07/31/79	2	6
GRSM0009	01002	ARSENIC, TOTAL (UG/L AS AS)	01/02/75-11/17/94	19	98
GRSM0013	01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-08/04/82	5	9
GRSM0016	01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-08/04/82	5	9
GRSM0022	01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-07/31/79	2	6
GRSM0024	01002	ARSENIC, TOTAL (UG/L AS AS)	07/27/77-08/04/82	5	8
GRSM0027	01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-08/04/82	5	9
GRSM0037	01002	ARSENIC, TOTAL (UG/L AS AS)	05/29/74-12/11/80	6	16
GRSM0055	01002	ARSENIC, TOTAL (UG/L AS AS)	05/29/74-08/20/86	12	41
GRSM0063	01002	ARSENIC, TOTAL (UG/L AS AS)	07/07/77-07/31/79	2	5

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0091	01002	ARSENIC, TOTAL (UG/L AS AS)	10/03/77-03/10/78	0	2
GRSM0151	01002	ARSENIC, TOTAL (UG/L AS AS)	11/28/78-11/28/78	0	1
GRSM0155	01002	ARSENIC, TOTAL (UG/L AS AS)	11/28/78-11/28/78	0	1
GRSM0157	01002	ARSENIC, TOTAL (UG/L AS AS)	11/28/78-11/28/78	0	1
GRSM0184	01002	ARSENIC, TOTAL (UG/L AS AS)	10/11/73-09/08/82	8	22
GRSM0185	01002	ARSENIC, TOTAL (UG/L AS AS)	05/26/76-11/07/94	18	91
GRSM0189	01002	ARSENIC, TOTAL (UG/L AS AS)	11/28/78-11/28/78	0	1
GRSM0202	01002	ARSENIC, TOTAL (UG/L AS AS)	04/24/74-01/14/75	0	4
GRSM0214	01002	ARSENIC, TOTAL (UG/L AS AS)	05/05/78-05/05/78	0	1
GRSM0216	01002	ARSENIC, TOTAL (UG/L AS AS)	05/04/78-05/04/78	0	1
GRSM0217	01002	ARSENIC, TOTAL (UG/L AS AS)	05/06/78-05/06/78	0	1
GRSM0230	01002	ARSENIC, TOTAL (UG/L AS AS)	06/05/80-06/05/80	0	1
GRSM0250	01002	ARSENIC, TOTAL (UG/L AS AS)	02/08/77-02/08/77	0	1
GRSM0256	01002	ARSENIC, TOTAL (UG/L AS AS)	09/09/71-12/05/94	23	108
GRSM0264	01002	ARSENIC, TOTAL (UG/L AS AS)	10/20/82-12/14/92	10	77
GRSM0027	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/17/80-08/04/82	2	2
GRSM0035	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/27/73-06/27/73	0	1
GRSM0055	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/15/81-11/29/84	3	5
GRSM0097	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/27/73-06/27/73	0	1
GRSM0151	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/28/78-11/28/78	0	1
GRSM0155	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/28/78-11/28/78	0	1
GRSM0157	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/28/78-11/28/78	0	1
GRSM0184	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	03/05/74-06/14/74	0	2
GRSM0185	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/28/78-11/29/84	6	6
GRSM0189	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	11/28/78-11/28/78	0	1
GRSM0230	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/05/80-06/05/80	0	1
GRSM0256	01003	ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/26/81-08/15/85	4	5
GRSM0005	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	09/23/87-11/16/93	6	5
GRSM0020	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	11/17/93-11/17/93	0	1
GRSM0035	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	09/23/87-11/25/88	1	3
GRSM0055	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	02/22/82-02/22/82	0	2
GRSM0069	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	12/01/92-11/18/93	0	2
GRSM0185	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	10/24/84-10/24/84	0	9
GRSM0256	01004	ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	02/23/82-02/23/82	0	2
GRSM0182	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/17/85-11/22/94	9	24
GRSM0184	01005	BARIUM, DISSOLVED (UG/L AS BA)	10/22/79-05/11/93	13	43
GRSM0184	01006	BARIUM, SUSPENDED (UG/L AS BA)	10/22/79-01/20/82	2	4
GRSM0009	01007	BARIUM, TOTAL (UG/L AS BA)	08/09/77-08/09/77	0	1
GRSM0054	01007	BARIUM, TOTAL (UG/L AS BA)	02/15/77-08/09/77	0	3
GRSM0055	01007	BARIUM, TOTAL (UG/L AS BA)	08/09/77-08/09/77	0	1
GRSM0057	01007	BARIUM, TOTAL (UG/L AS BA)	03/17/77-09/19/77	0	3
GRSM0184	01007	BARIUM, TOTAL (UG/L AS BA)	03/05/74-09/08/82	8	14
GRSM0202	01007	BARIUM, TOTAL (UG/L AS BA)	04/24/74-01/14/75	0	5
GRSM0214	01007	BARIUM, TOTAL (UG/L AS BA)	05/05/78-05/05/78	0	1
GRSM0216	01007	BARIUM, TOTAL (UG/L AS BA)	05/04/78-05/04/78	0	1
GRSM0217	01007	BARIUM, TOTAL (UG/L AS BA)	05/06/78-05/06/78	0	1
GRSM0230	01007	BARIUM, TOTAL (UG/L AS BA)	06/05/80-06/05/80	0	1
GRSM0250	01007	BARIUM, TOTAL (UG/L AS BA)	02/08/77-02/08/77	0	1
GRSM0262	01007	BARIUM, TOTAL (UG/L AS BA)	02/23/77-08/09/77	0	3
GRSM0035	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/73-06/27/73	0	1
GRSM0097	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/73-06/27/73	0	1
GRSM0230	01008	BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/05/80-06/05/80	0	1
GRSM0182	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/17/85-02/05/91	5	11
GRSM0184	01010	BERYLLIUM, DISSOLVED (UG/L AS BE)	10/22/79-08/20/91	11	36
GRSM0009	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/18/76-12/21/89	13	4
GRSM0054	01012	BERYLLIUM, TOTAL (UG/L AS BE)	02/15/77-08/09/77	0	3
GRSM0055	01012	BERYLLIUM, TOTAL (UG/L AS BE)	08/09/77-08/09/77	0	1
GRSM0057	01012	BERYLLIUM, TOTAL (UG/L AS BE)	03/17/77-09/19/77	0	3
GRSM0202	01012	BERYLLIUM, TOTAL (UG/L AS BE)	04/24/74-01/14/75	0	5
GRSM0230	01012	BERYLLIUM, TOTAL (UG/L AS BE)	06/05/80-06/05/80	0	1
GRSM0250	01012	BERYLLIUM, TOTAL (UG/L AS BE)	02/08/77-02/08/77	0	1
GRSM0262	01012	BERYLLIUM, TOTAL (UG/L AS BE)	02/23/77-08/09/77	0	3
GRSM0035	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/73-06/27/73	0	1
GRSM0097	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/73-06/27/73	0	1
GRSM0230	01013	BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/05/80-06/05/80	0	1
GRSM0054	01022	BORON, TOTAL (UG/L AS B)	02/15/77-02/15/77	0	1
GRSM0202	01022	BORON, TOTAL (UG/L AS B)	04/24/74-01/14/75	0	4
GRSM0250	01022	BORON, TOTAL (UG/L AS B)	02/08/77-02/08/77	0	1
GRSM0182	01025	CADMIUM, DISSOLVED (UG/L AS CD)	09/30/68-02/05/91	22	13

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0184	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/11/73-08/20/91	17	46
GRSM0186	01025	CADMIUM, DISSOLVED (UG/L AS CD)	04/23/76-04/23/76	0	1
GRSM0249	01025	CADMIUM, DISSOLVED (UG/L AS CD)	07/21/70-08/29/72	2	2
GRSM0256	01025	CADMIUM, DISSOLVED (UG/L AS CD)	10/25/73-10/25/73	0	1
GRSM0184	01026	CADMIUM, SUSPENDED (UG/L AS CD)	10/11/73-01/20/82	8	15
GRSM0007	01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-07/31/79	4	7
GRSM0009	01027	CADMIUM, TOTAL (UG/L AS CD)	01/02/75-11/17/94	19	100
GRSM0013	01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	7	10
GRSM0014	01027	CADMIUM, TOTAL (UG/L AS CD)	08/05/87-08/05/87	0	1
GRSM0016	01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	7	10
GRSM0017	01027	CADMIUM, TOTAL (UG/L AS CD)	08/05/87-08/05/87	0	1
GRSM0022	01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-07/31/79	4	7
GRSM0024	01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	7	9
GRSM0025	01027	CADMIUM, TOTAL (UG/L AS CD)	08/05/87-08/05/87	0	1
GRSM0027	01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	7	10
GRSM0028	01027	CADMIUM, TOTAL (UG/L AS CD)	08/05/87-08/05/87	0	1
GRSM0037	01027	CADMIUM, TOTAL (UG/L AS CD)	05/29/74-03/12/81	6	17
GRSM0054	01027	CADMIUM, TOTAL (UG/L AS CD)	02/15/77-10/24/78	1	8
GRSM0055	01027	CADMIUM, TOTAL (UG/L AS CD)	05/29/74-08/20/86	12	54
GRSM0057	01027	CADMIUM, TOTAL (UG/L AS CD)	03/17/77-06/17/80	3	18
GRSM0063	01027	CADMIUM, TOTAL (UG/L AS CD)	07/29/75-07/31/79	4	7
GRSM0064	01027	CADMIUM, TOTAL (UG/L AS CD)	08/05/87-08/05/87	0	1
GRSM0151	01027	CADMIUM, TOTAL (UG/L AS CD)	11/28/78-11/28/78	0	1
GRSM0155	01027	CADMIUM, TOTAL (UG/L AS CD)	11/28/78-11/28/78	0	1
GRSM0157	01027	CADMIUM, TOTAL (UG/L AS CD)	11/28/78-11/28/78	0	1
GRSM0171	01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-07/23/81	0	1
GRSM0184	01027	CADMIUM, TOTAL (UG/L AS CD)	10/11/73-09/08/82	8	22
GRSM0185	01027	CADMIUM, TOTAL (UG/L AS CD)	05/26/76-11/07/94	18	96
GRSM0189	01027	CADMIUM, TOTAL (UG/L AS CD)	11/28/78-11/28/78	0	1
GRSM0192	01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-07/23/81	0	1
GRSM0202	01027	CADMIUM, TOTAL (UG/L AS CD)	04/24/74-01/14/75	0	5
GRSM0214	01027	CADMIUM, TOTAL (UG/L AS CD)	05/05/78-05/05/78	0	1
GRSM0216	01027	CADMIUM, TOTAL (UG/L AS CD)	05/04/78-05/04/78	0	1
GRSM0217	01027	CADMIUM, TOTAL (UG/L AS CD)	05/06/78-05/06/78	0	1
GRSM0218	01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-08/13/81	0	2
GRSM0219	01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-08/13/81	0	2
GRSM0225	01027	CADMIUM, TOTAL (UG/L AS CD)	08/13/81-08/13/81	0	1
GRSM0226	01027	CADMIUM, TOTAL (UG/L AS CD)	08/13/81-08/13/81	0	1
GRSM0230	01027	CADMIUM, TOTAL (UG/L AS CD)	06/05/80-06/05/80	0	1
GRSM0234	01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-08/13/81	0	2
GRSM0236	01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-08/13/81	0	2
GRSM0239	01027	CADMIUM, TOTAL (UG/L AS CD)	07/23/81-08/13/81	0	2
GRSM0250	01027	CADMIUM, TOTAL (UG/L AS CD)	02/08/77-02/08/77	0	1
GRSM0256	01027	CADMIUM, TOTAL (UG/L AS CD)	02/04/74-12/05/94	20	103
GRSM0262	01027	CADMIUM, TOTAL (UG/L AS CD)	02/23/77-10/11/78	1	8
GRSM0264	01027	CADMIUM, TOTAL (UG/L AS CD)	10/20/82-12/14/92	10	77
GRSM0003	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	1
GRSM0020	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	1
GRSM0027	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/04/82	2	2
GRSM0035	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1
GRSM0055	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/15/81-11/29/84	3	5
GRSM0069	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	2
GRSM0097	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1
GRSM0151	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1
GRSM0155	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1
GRSM0157	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1
GRSM0184	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/05/74-06/14/74	0	2
GRSM0185	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/29/84	6	6
GRSM0189	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1
GRSM0230	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/05/80-06/05/80	0	1
GRSM0256	01028	CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/26/81-08/15/85	4	5
GRSM0003	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	1
GRSM0020	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	1
GRSM0027	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/04/82	2	2
GRSM0035	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1
GRSM0055	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/15/81-11/29/84	3	5
GRSM0069	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	2
GRSM0097	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1
GRSM0151	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1
GRSM0155	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0157	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1
GRSM0184	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	03/05/74-09/01/76	2	4
GRSM0185	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/29/84	6	6
GRSM0189	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/28/78-11/28/78	0	1
GRSM0230	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/05/80-06/05/80	0	1
GRSM0256	01029	CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/26/81-08/15/85	4	5
GRSM0007	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	1	2
GRSM0011	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/25/73-12/10/74	1	4
GRSM0013	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/31/75	1	6
GRSM0016	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	1	2
GRSM0022	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	1	2
GRSM0024	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/31/75	1	6
GRSM0027	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	1	2
GRSM0037	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/25/73-11/21/74	1	2
GRSM0055	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/25/73-11/21/74	1	2
GRSM0059	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/25/73-11/27/74	1	2
GRSM0063	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	1	2
GRSM0070	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/21/73-01/29/75	1	6
GRSM0073	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/21/73-01/29/75	1	6
GRSM0091	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/03/77-03/10/78	0	2
GRSM0182	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	10/17/85-02/05/91	5	11
GRSM0184	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	12/12/68-08/20/91	22	63
GRSM0186	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	04/23/76-04/23/76	0	1
GRSM0253	01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/06/73-06/08/73	0	3
GRSM0091	01031	CHROMIUM, SUSPEND (UG/L AS CR)	10/03/77-03/10/78	0	2
GRSM0184	01031	CHROMIUM, SUSPEND (UG/L AS CR)	10/11/73-01/20/82	8	31
GRSM0009	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	01/02/75-01/02/75	0	1
GRSM0182	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	10/08/70-10/08/70	0	1
GRSM0214	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	05/05/78-05/05/78	0	1
GRSM0216	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	05/04/78-05/04/78	0	1
GRSM0217	01032	CHROMIUM, HEXAVALENT (UG/L AS CR)	05/06/78-05/06/78	0	1
GRSM0007	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-07/31/79	4	7
GRSM0009	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/23/75-11/17/94	19	100
GRSM0013	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	7	10
GRSM0014	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/05/87-08/05/87	0	1
GRSM0016	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	7	10
GRSM0017	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/05/87-08/05/87	0	1
GRSM0022	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-07/31/79	4	7
GRSM0024	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	7	9
GRSM0025	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/05/87-08/05/87	0	1
GRSM0027	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	7	10
GRSM0028	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/05/87-08/05/87	0	1
GRSM0037	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/29/74-03/12/81	6	17
GRSM0055	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/28/75-08/20/86	11	53
GRSM0063	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-07/31/79	4	7
GRSM0064	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/05/87-08/05/87	0	1
GRSM0091	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/03/77-03/10/78	0	2
GRSM0151	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/28/78-11/28/78	0	1
GRSM0155	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/28/78-11/28/78	0	1
GRSM0157	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/28/78-11/28/78	0	1
GRSM0171	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-07/23/81	0	1
GRSM0182	01034	CHROMIUM, TOTAL (UG/L AS CR)	09/30/68-09/30/68	0	1
GRSM0184	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/01/67-09/08/82	14	35
GRSM0185	01034	CHROMIUM, TOTAL (UG/L AS CR)	05/26/76-11/07/94	18	96
GRSM0189	01034	CHROMIUM, TOTAL (UG/L AS CR)	11/28/78-11/28/78	0	1
GRSM0192	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-07/23/81	0	1
GRSM0202	01034	CHROMIUM, TOTAL (UG/L AS CR)	04/24/74-01/14/75	0	5
GRSM0218	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-08/13/81	0	2
GRSM0219	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-08/13/81	0	2
GRSM0225	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/13/81-08/13/81	0	1
GRSM0226	01034	CHROMIUM, TOTAL (UG/L AS CR)	08/13/81-08/13/81	0	1
GRSM0230	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/05/80-06/05/80	0	1
GRSM0234	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-08/13/81	0	2
GRSM0236	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-08/13/81	0	2
GRSM0239	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/23/81-08/13/81	0	2
GRSM0249	01034	CHROMIUM, TOTAL (UG/L AS CR)	07/21/70-07/21/70	0	1
GRSM0250	01034	CHROMIUM, TOTAL (UG/L AS CR)	02/08/77-02/08/77	0	1
GRSM0253	01034	CHROMIUM, TOTAL (UG/L AS CR)	06/05/73-06/08/73	0	4
GRSM0256	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/25/73-12/05/94	21	104
GRSM0264	01034	CHROMIUM, TOTAL (UG/L AS CR)	10/20/82-12/14/92	10	22
GRSM0182	01035	COBALT, DISSOLVED (UG/L AS CO)	09/30/68-11/22/94	26	26
GRSM0184	01035	COBALT, DISSOLVED (UG/L AS CO)	10/11/73-05/11/93	19	53

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0186	01035	COBALT, DISSOLVED (UG/L AS CO)	04/23/76-04/23/76	0	1
GRSM0184	01036	COBALT, SUSPENDED (UG/L AS CO)	10/11/73-08/27/74	0	10
GRSM0256	01036	COBALT, SUSPENDED (UG/L AS CO)	10/25/73-10/25/73	0	1
GRSM0007	01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-07/31/79	4	7
GRSM0009	01037	COBALT, TOTAL (UG/L AS CO)	01/02/75-12/21/89	14	29
GRSM0013	01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	7	10
GRSM0016	01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	7	10
GRSM0022	01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-07/31/79	4	7
GRSM0024	01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	7	9
GRSM0027	01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	7	10
GRSM0037	01037	COBALT, TOTAL (UG/L AS CO)	05/29/74-03/12/81	6	17
GRSM0055	01037	COBALT, TOTAL (UG/L AS CO)	05/29/74-09/14/81	7	32
GRSM0063	01037	COBALT, TOTAL (UG/L AS CO)	07/29/75-07/31/79	4	7
GRSM0151	01037	COBALT, TOTAL (UG/L AS CO)	11/28/78-11/28/78	0	2
GRSM0155	01037	COBALT, TOTAL (UG/L AS CO)	11/28/78-11/28/78	0	1
GRSM0157	01037	COBALT, TOTAL (UG/L AS CO)	11/28/78-11/28/78	0	2
GRSM0184	01037	COBALT, TOTAL (UG/L AS CO)	10/11/73-08/27/74	0	10
GRSM0185	01037	COBALT, TOTAL (UG/L AS CO)	05/26/76-05/26/87	11	20
GRSM0189	01037	COBALT, TOTAL (UG/L AS CO)	11/28/78-11/28/78	0	2
GRSM0230	01037	COBALT, TOTAL (UG/L AS CO)	06/05/80-06/05/80	0	1
GRSM0256	01037	COBALT, TOTAL (UG/L AS CO)	02/04/74-09/17/81	7	25
GRSM0027	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/17/80-06/17/80	0	1
GRSM0035	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/27/73-06/27/73	0	1
GRSM0097	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/27/73-06/27/73	0	1
GRSM0184	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	03/05/74-06/14/74	0	2
GRSM0230	01038	COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/05/80-06/05/80	0	1
GRSM0151	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/28/78-11/28/78	0	1
GRSM0155	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/28/78-11/28/78	0	1
GRSM0157	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/28/78-11/28/78	0	1
GRSM0185	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/28/78-11/28/78	0	1
GRSM0189	01039	COPPER, TOTAL IN BOTTOM DEPOSITS (MG/KG,WT WGT)	11/28/78-11/28/78	0	1
GRSM0007	01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	1	2
GRSM0011	01040	COPPER, DISSOLVED (UG/L AS CU)	06/25/73-12/10/74	1	4
GRSM0013	01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/31/75	1	6
GRSM0016	01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	1	2
GRSM0022	01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	1	2
GRSM0024	01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/31/75	1	6
GRSM0027	01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	1	2
GRSM0037	01040	COPPER, DISSOLVED (UG/L AS CU)	06/25/73-11/21/74	1	2
GRSM0055	01040	COPPER, DISSOLVED (UG/L AS CU)	06/25/73-11/21/74	1	2
GRSM0059	01040	COPPER, DISSOLVED (UG/L AS CU)	06/25/73-11/27/74	1	2
GRSM0063	01040	COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	1	2
GRSM0070	01040	COPPER, DISSOLVED (UG/L AS CU)	06/21/73-01/29/75	1	6
GRSM0073	01040	COPPER, DISSOLVED (UG/L AS CU)	06/21/73-01/29/75	1	6
GRSM0091	01040	COPPER, DISSOLVED (UG/L AS CU)	10/03/77-03/10/78	0	2
GRSM0182	01040	COPPER, DISSOLVED (UG/L AS CU)	09/30/68-02/05/91	22	12
GRSM0184	01040	COPPER, DISSOLVED (UG/L AS CU)	11/01/67-08/20/91	23	67
GRSM0249	01040	COPPER, DISSOLVED (UG/L AS CU)	07/21/70-08/29/72	2	2
GRSM0253	01040	COPPER, DISSOLVED (UG/L AS CU)	06/06/73-06/08/73	0	3
GRSM0256	01040	COPPER, DISSOLVED (UG/L AS CU)	10/25/73-10/25/73	0	1
GRSM0091	01041	COPPER, SUSPENDED (UG/L AS CU)	10/03/77-03/10/78	0	2
GRSM0184	01041	COPPER, SUSPENDED (UG/L AS CU)	10/11/73-03/21/80	6	29
GRSM0007	01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-07/31/79	5	8
GRSM0009	01042	COPPER, TOTAL (UG/L AS CU)	01/02/75-11/17/94	19	101
GRSM0013	01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	8	11
GRSM0014	01042	COPPER, TOTAL (UG/L AS CU)	08/05/87-08/05/87	0	1
GRSM0016	01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	8	11
GRSM0017	01042	COPPER, TOTAL (UG/L AS CU)	08/05/87-08/05/87	0	1
GRSM0022	01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-07/31/79	5	8
GRSM0024	01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	8	10
GRSM0025	01042	COPPER, TOTAL (UG/L AS CU)	08/05/87-08/05/87	0	1
GRSM0027	01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	8	11
GRSM0028	01042	COPPER, TOTAL (UG/L AS CU)	08/05/87-08/05/87	0	1
GRSM0037	01042	COPPER, TOTAL (UG/L AS CU)	05/29/74-03/12/81	6	17
GRSM0054	01042	COPPER, TOTAL (UG/L AS CU)	02/15/77-10/24/78	1	8
GRSM0055	01042	COPPER, TOTAL (UG/L AS CU)	05/29/74-08/20/86	12	54
GRSM0057	01042	COPPER, TOTAL (UG/L AS CU)	03/17/77-06/17/80	3	18
GRSM0063	01042	COPPER, TOTAL (UG/L AS CU)	07/16/74-07/31/79	5	8
GRSM0064	01042	COPPER, TOTAL (UG/L AS CU)	08/05/87-08/05/87	0	1
GRSM0087	01042	COPPER, TOTAL (UG/L AS CU)	04/30/67-04/30/67	0	1
GRSM0091	01042	COPPER, TOTAL (UG/L AS CU)	10/03/77-03/10/78	0	2

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0094	01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	0	1
GRSM0102	01042	COPPER, TOTAL (UG/L AS CU)	05/21/68-07/21/68	0	2
GRSM0108	01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	0	1
GRSM0110	01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	0	1
GRSM0112	01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-06/21/82	0	12
GRSM0115	01042	COPPER, TOTAL (UG/L AS CU)	08/11/82-08/11/82	0	1
GRSM0134	01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	0	1
GRSM0137	01042	COPPER, TOTAL (UG/L AS CU)	03/24/82-04/22/82	0	2
GRSM0138	01042	COPPER, TOTAL (UG/L AS CU)	03/24/82-03/24/82	0	1
GRSM0139	01042	COPPER, TOTAL (UG/L AS CU)	03/22/82-03/22/82	0	1
GRSM0143	01042	COPPER, TOTAL (UG/L AS CU)	03/22/82-03/22/82	0	1
GRSM0145	01042	COPPER, TOTAL (UG/L AS CU)	03/22/82-03/22/82	0	1
GRSM0146	01042	COPPER, TOTAL (UG/L AS CU)	03/24/82-03/24/82	0	1
GRSM0148	01042	COPPER, TOTAL (UG/L AS CU)	03/24/82-03/24/82	0	1
GRSM0150	01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	0	1
GRSM0151	01042	COPPER, TOTAL (UG/L AS CU)	11/28/78-11/28/78	0	1
GRSM0155	01042	COPPER, TOTAL (UG/L AS CU)	11/28/78-11/28/78	0	1
GRSM0157	01042	COPPER, TOTAL (UG/L AS CU)	11/28/78-11/28/78	0	1
GRSM0160	01042	COPPER, TOTAL (UG/L AS CU)	04/20/82-04/20/82	0	1
GRSM0163	01042	COPPER, TOTAL (UG/L AS CU)	03/23/82-04/20/82	0	2
GRSM0167	01042	COPPER, TOTAL (UG/L AS CU)	04/21/82-04/21/82	0	1
GRSM0168	01042	COPPER, TOTAL (UG/L AS CU)	04/21/82-04/21/82	0	1
GRSM0171	01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-07/23/81	0	1
GRSM0173	01042	COPPER, TOTAL (UG/L AS CU)	03/25/82-03/25/82	0	1
GRSM0175	01042	COPPER, TOTAL (UG/L AS CU)	03/25/82-03/25/82	0	1
GRSM0184	01042	COPPER, TOTAL (UG/L AS CU)	10/11/73-09/08/82	8	34
GRSM0185	01042	COPPER, TOTAL (UG/L AS CU)	05/26/76-11/07/94	18	97
GRSM0189	01042	COPPER, TOTAL (UG/L AS CU)	11/28/78-11/28/78	0	1
GRSM0192	01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-07/23/81	0	1
GRSM0202	01042	COPPER, TOTAL (UG/L AS CU)	01/08/68-03/18/75	7	18
GRSM0214	01042	COPPER, TOTAL (UG/L AS CU)	05/05/78-05/05/78	0	1
GRSM0216	01042	COPPER, TOTAL (UG/L AS CU)	05/04/78-05/04/78	0	1
GRSM0217	01042	COPPER, TOTAL (UG/L AS CU)	05/06/78-05/06/78	0	1
GRSM0218	01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-08/13/81	0	2
GRSM0219	01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-08/13/81	0	2
GRSM0222	01042	COPPER, TOTAL (UG/L AS CU)	01/08/68-07/29/68	0	5
GRSM0225	01042	COPPER, TOTAL (UG/L AS CU)	08/13/81-08/13/81	0	1
GRSM0226	01042	COPPER, TOTAL (UG/L AS CU)	08/13/81-08/13/81	0	1
GRSM0230	01042	COPPER, TOTAL (UG/L AS CU)	06/05/80-06/05/80	0	1
GRSM0234	01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-08/13/81	0	2
GRSM0236	01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-08/13/81	0	2
GRSM0239	01042	COPPER, TOTAL (UG/L AS CU)	07/23/81-08/13/81	0	2
GRSM0250	01042	COPPER, TOTAL (UG/L AS CU)	02/08/77-02/08/77	0	1
GRSM0253	01042	COPPER, TOTAL (UG/L AS CU)	06/05/73-06/08/73	0	4
GRSM0256	01042	COPPER, TOTAL (UG/L AS CU)	02/04/74-12/05/94	20	103
GRSM0262	01042	COPPER, TOTAL (UG/L AS CU)	02/23/77-10/11/78	1	8
GRSM0264	01042	COPPER, TOTAL (UG/L AS CU)	10/20/82-12/14/92	10	77
GRSM0003	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/16/93-08/16/93	0	1
GRSM0020	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/16/93-08/16/93	0	1
GRSM0027	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/17/80-08/04/82	2	2
GRSM0035	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/73-06/27/73	0	1
GRSM0055	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/15/81-11/29/84	3	5
GRSM0069	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/16/93-08/16/93	0	2
GRSM0097	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/73-06/27/73	0	1
GRSM0184	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	03/05/74-09/01/76	2	4
GRSM0185	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/26/81-11/29/84	3	5
GRSM0230	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/05/80-06/05/80	0	1
GRSM0256	01043	COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/26/81-08/15/85	4	5
GRSM0184	01044	IRON, SUSPENDED (UG/L AS FE)	01/30/79-09/08/82	3	8
GRSM0007	01045	IRON, TOTAL (UG/L AS FE)	07/29/75-07/31/79	4	7
GRSM0009	01045	IRON, TOTAL (UG/L AS FE)	01/02/75-11/17/94	19	55
GRSM0010	01045	IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	15	52
GRSM0013	01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	7	10
GRSM0016	01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	7	10
GRSM0021	01045	IRON, TOTAL (UG/L AS FE)	05/03/66-01/31/67	0	9
GRSM0022	01045	IRON, TOTAL (UG/L AS FE)	07/29/75-07/31/79	4	7
GRSM0024	01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	7	9
GRSM0027	01045	IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	7	10
GRSM0036	01045	IRON, TOTAL (UG/L AS FE)	02/04/74-01/17/77	2	36
GRSM0037	01045	IRON, TOTAL (UG/L AS FE)	05/29/74-03/12/81	6	17
GRSM0048	01045	IRON, TOTAL (UG/L AS FE)	03/03/74-01/17/77	2	36

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0054	01045	IRON, TOTAL (UG/L AS FE)	02/15/77-12/27/78	1	23
GRSM0055	01045	IRON, TOTAL (UG/L AS FE)	05/29/74-09/14/81	7	36
GRSM0057	01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	12	59
GRSM0063	01045	IRON, TOTAL (UG/L AS FE)	07/29/75-07/31/79	4	7
GRSM0074	01045	IRON, TOTAL (UG/L AS FE)	11/06/56-04/13/62	5	8
GRSM0078	01045	IRON, TOTAL (UG/L AS FE)	01/28/74-01/24/77	2	37
GRSM0084	01045	IRON, TOTAL (UG/L AS FE)	04/30/68-03/24/69	0	8
GRSM0087	01045	IRON, TOTAL (UG/L AS FE)	01/23/67-03/24/69	2	17
GRSM0091	01045	IRON, TOTAL (UG/L AS FE)	10/03/77-03/10/78	0	2
GRSM0094	01045	IRON, TOTAL (UG/L AS FE)	03/26/82-03/26/82	0	1
GRSM0102	01045	IRON, TOTAL (UG/L AS FE)	04/30/68-03/24/69	0	8
GRSM0103	01045	IRON, TOTAL (UG/L AS FE)	05/23/91-09/30/91	0	3
GRSM0105	01045	IRON, TOTAL (UG/L AS FE)	04/30/68-03/24/69	0	9
GRSM0108	01045	IRON, TOTAL (UG/L AS FE)	03/26/82-03/26/82	0	1
GRSM0110	01045	IRON, TOTAL (UG/L AS FE)	11/12/81-03/26/82	0	3
GRSM0111	01045	IRON, TOTAL (UG/L AS FE)	12/01/81-12/01/81	0	3
GRSM0112	01045	IRON, TOTAL (UG/L AS FE)	11/12/81-06/21/82	0	101
GRSM0115	01045	IRON, TOTAL (UG/L AS FE)	08/11/82-08/11/82	0	1
GRSM0134	01045	IRON, TOTAL (UG/L AS FE)	03/26/82-03/26/82	0	1
GRSM0136	01045	IRON, TOTAL (UG/L AS FE)	11/12/81-11/12/81	0	1
GRSM0137	01045	IRON, TOTAL (UG/L AS FE)	12/02/81-04/22/82	0	3
GRSM0138	01045	IRON, TOTAL (UG/L AS FE)	11/12/81-03/24/82	0	3
GRSM0139	01045	IRON, TOTAL (UG/L AS FE)	03/22/82-03/22/82	0	1
GRSM0142	01045	IRON, TOTAL (UG/L AS FE)	12/02/81-12/02/81	0	1
GRSM0143	01045	IRON, TOTAL (UG/L AS FE)	03/22/82-03/22/82	0	1
GRSM0145	01045	IRON, TOTAL (UG/L AS FE)	03/22/82-03/22/82	0	1
GRSM0146	01045	IRON, TOTAL (UG/L AS FE)	03/24/82-03/24/82	0	1
GRSM0148	01045	IRON, TOTAL (UG/L AS FE)	03/24/82-03/24/82	0	1
GRSM0150	01045	IRON, TOTAL (UG/L AS FE)	03/26/82-03/26/82	0	1
GRSM0151	01045	IRON, TOTAL (UG/L AS FE)	11/28/78-11/28/78	0	2
GRSM0155	01045	IRON, TOTAL (UG/L AS FE)	11/28/78-11/28/78	0	1
GRSM0157	01045	IRON, TOTAL (UG/L AS FE)	11/28/78-11/28/78	0	2
GRSM0160	01045	IRON, TOTAL (UG/L AS FE)	04/20/82-04/20/82	0	1
GRSM0163	01045	IRON, TOTAL (UG/L AS FE)	03/23/82-04/20/82	0	2
GRSM0167	01045	IRON, TOTAL (UG/L AS FE)	04/21/82-04/21/82	0	1
GRSM0168	01045	IRON, TOTAL (UG/L AS FE)	04/21/82-04/21/82	0	1
GRSM0171	01045	IRON, TOTAL (UG/L AS FE)	07/23/81-07/23/81	0	1
GRSM0173	01045	IRON, TOTAL (UG/L AS FE)	03/25/82-03/25/82	0	1
GRSM0175	01045	IRON, TOTAL (UG/L AS FE)	12/02/81-03/25/82	0	2
GRSM0184	01045	IRON, TOTAL (UG/L AS FE)	08/07/68-09/08/82	14	36
GRSM0185	01045	IRON, TOTAL (UG/L AS FE)	05/26/76-11/07/94	18	57
GRSM0189	01045	IRON, TOTAL (UG/L AS FE)	11/28/78-11/28/78	0	2
GRSM0192	01045	IRON, TOTAL (UG/L AS FE)	07/23/81-07/23/81	0	1
GRSM0202	01045	IRON, TOTAL (UG/L AS FE)	01/08/68-03/18/75	7	18
GRSM0214	01045	IRON, TOTAL (UG/L AS FE)	05/05/78-05/05/78	0	1
GRSM0216	01045	IRON, TOTAL (UG/L AS FE)	05/04/78-05/04/78	0	1
GRSM0217	01045	IRON, TOTAL (UG/L AS FE)	05/06/78-05/06/78	0	1
GRSM0218	01045	IRON, TOTAL (UG/L AS FE)	07/23/81-08/13/81	0	2
GRSM0219	01045	IRON, TOTAL (UG/L AS FE)	07/23/81-08/13/81	0	2
GRSM0222	01045	IRON, TOTAL (UG/L AS FE)	01/08/68-07/29/68	0	5
GRSM0225	01045	IRON, TOTAL (UG/L AS FE)	08/13/81-08/13/81	0	1
GRSM0226	01045	IRON, TOTAL (UG/L AS FE)	08/13/81-08/13/81	0	1
GRSM0234	01045	IRON, TOTAL (UG/L AS FE)	07/23/81-08/13/81	0	2
GRSM0236	01045	IRON, TOTAL (UG/L AS FE)	07/23/81-08/13/81	0	2
GRSM0239	01045	IRON, TOTAL (UG/L AS FE)	07/23/81-08/13/81	0	2
GRSM0244	01045	IRON, TOTAL (UG/L AS FE)	10/10/67-12/06/68	1	15
GRSM0249	01045	IRON, TOTAL (UG/L AS FE)	10/17/57-08/28/69	11	49
GRSM0250	01045	IRON, TOTAL (UG/L AS FE)	10/21/75-02/08/77	1	17
GRSM0251	01045	IRON, TOTAL (UG/L AS FE)	11/18/75-09/07/76	0	12
GRSM0253	01045	IRON, TOTAL (UG/L AS FE)	06/05/73-06/08/73	0	4
GRSM0256	01045	IRON, TOTAL (UG/L AS FE)	10/25/73-12/05/94	21	64
GRSM0262	01045	IRON, TOTAL (UG/L AS FE)	02/23/77-10/11/78	1	12
GRSM0264	01045	IRON, TOTAL (UG/L AS FE)	10/13/83-12/14/92	9	59
GRSM0010	01046	IRON, DISSOLVED (UG/L AS FE)	11/06/70-05/09/72	1	7
GRSM0031	01046	IRON, DISSOLVED (UG/L AS FE)	01/23/73-09/06/73	0	3
GRSM0054	01046	IRON, DISSOLVED (UG/L AS FE)	02/15/77-12/27/78	1	22
GRSM0056	01046	IRON, DISSOLVED (UG/L AS FE)	05/21/68-05/24/72	4	11
GRSM0057	01046	IRON, DISSOLVED (UG/L AS FE)	03/20/79-06/17/80	1	9
GRSM0076	01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	0	1
GRSM0084	01046	IRON, DISSOLVED (UG/L AS FE)	04/30/68-03/24/69	0	7
GRSM0087	01046	IRON, DISSOLVED (UG/L AS FE)	05/02/68-02/19/69	0	7
GRSM0091	01046	IRON, DISSOLVED (UG/L AS FE)	10/03/77-03/10/78	0	2

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0102	01046	IRON, DISSOLVED (UG/L AS FE)	04/30/68-03/24/69	0	8
GRSM0105	01046	IRON, DISSOLVED (UG/L AS FE)	04/30/68-03/24/69	0	9
GRSM0107	01046	IRON, DISSOLVED (UG/L AS FE)	09/24/68-09/24/68	0	1
GRSM0120	01046	IRON, DISSOLVED (UG/L AS FE)	09/24/68-09/24/68	0	1
GRSM0125	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	0	1
GRSM0129	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	0	1
GRSM0132	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1
GRSM0135	01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	0	1
GRSM0140	01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	0	1
GRSM0144	01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	0	1
GRSM0147	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	0	1
GRSM0149	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	0	1
GRSM0153	01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	0	1
GRSM0154	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1
GRSM0156	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1
GRSM0158	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1
GRSM0159	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1
GRSM0161	01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	0	1
GRSM0162	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1
GRSM0164	01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	0	1
GRSM0165	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1
GRSM0170	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	0	1
GRSM0172	01046	IRON, DISSOLVED (UG/L AS FE)	10/31/91-10/31/91	0	1
GRSM0174	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	0	1
GRSM0176	01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	0	1
GRSM0178	01046	IRON, DISSOLVED (UG/L AS FE)	09/24/68-09/24/68	0	1
GRSM0179	01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	0	1
GRSM0180	01046	IRON, DISSOLVED (UG/L AS FE)	10/30/91-10/30/91	0	1
GRSM0182	01046	IRON, DISSOLVED (UG/L AS FE)	08/10/63-11/22/94	31	43
GRSM0183	01046	IRON, DISSOLVED (UG/L AS FE)	10/29/91-10/29/91	0	1
GRSM0184	01046	IRON, DISSOLVED (UG/L AS FE)	11/01/67-05/11/93	25	82
GRSM0186	01046	IRON, DISSOLVED (UG/L AS FE)	04/23/76-04/23/76	0	1
GRSM0202	01046	IRON, DISSOLVED (UG/L AS FE)	01/08/68-03/18/75	7	19
GRSM0214	01046	IRON, DISSOLVED (UG/L AS FE)	05/05/78-05/05/78	0	1
GRSM0216	01046	IRON, DISSOLVED (UG/L AS FE)	05/04/78-05/04/78	0	1
GRSM0217	01046	IRON, DISSOLVED (UG/L AS FE)	05/06/78-05/06/78	0	1
GRSM0221	01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	0	1
GRSM0222	01046	IRON, DISSOLVED (UG/L AS FE)	01/08/68-07/29/68	0	5
GRSM0223	01046	IRON, DISSOLVED (UG/L AS FE)	02/01/68-08/01/68	0	3
GRSM0227	01046	IRON, DISSOLVED (UG/L AS FE)	09/25/68-09/25/68	0	1
GRSM0240	01046	IRON, DISSOLVED (UG/L AS FE)	09/24/68-09/24/68	0	1
GRSM0249	01046	IRON, DISSOLVED (UG/L AS FE)	06/27/68-03/28/73	4	14
GRSM0250	01046	IRON, DISSOLVED (UG/L AS FE)	10/21/75-02/08/77	1	16
GRSM0251	01046	IRON, DISSOLVED (UG/L AS FE)	11/18/75-09/07/76	0	11
GRSM0253	01046	IRON, DISSOLVED (UG/L AS FE)	06/06/73-06/08/73	0	3
GRSM0262	01046	IRON, DISSOLVED (UG/L AS FE)	02/23/77-10/11/78	1	12
GRSM0021	01047	IRON, FERROUS (UG/L AS FE)	05/03/66-01/31/67	0	9
GRSM0057	01047	IRON, FERROUS (UG/L AS FE)	05/04/66-01/30/67	0	8
GRSM0084	01047	IRON, FERROUS (UG/L AS FE)	04/30/68-03/24/69	0	8
GRSM0087	01047	IRON, FERROUS (UG/L AS FE)	01/23/67-03/24/69	2	17
GRSM0102	01047	IRON, FERROUS (UG/L AS FE)	04/30/68-03/24/69	0	8
GRSM0105	01047	IRON, FERROUS (UG/L AS FE)	04/30/68-03/24/69	0	8
GRSM0202	01047	IRON, FERROUS (UG/L AS FE)	01/08/68-03/18/75	7	18
GRSM0222	01047	IRON, FERROUS (UG/L AS FE)	01/08/68-07/29/68	0	6
GRSM0091	01049	LEAD, DISSOLVED (UG/L AS PB)	10/03/77-03/10/78	0	2
GRSM0182	01049	LEAD, DISSOLVED (UG/L AS PB)	09/30/68-02/05/91	22	13
GRSM0184	01049	LEAD, DISSOLVED (UG/L AS PB)	11/01/67-08/20/91	23	66
GRSM0186	01049	LEAD, DISSOLVED (UG/L AS PB)	04/23/76-04/23/76	0	1
GRSM0249	01049	LEAD, DISSOLVED (UG/L AS PB)	07/21/70-08/29/72	2	2
GRSM0091	01050	LEAD, SUSPENDED (UG/L AS PB)	10/03/77-03/10/78	0	2
GRSM0184	01050	LEAD, SUSPENDED (UG/L AS PB)	10/11/73-02/09/81	7	30
GRSM0007	01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-07/31/79	5	8
GRSM0009	01051	LEAD, TOTAL (UG/L AS PB)	01/02/75-11/17/94	19	100
GRSM0013	01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	8	11
GRSM0014	01051	LEAD, TOTAL (UG/L AS PB)	08/05/87-08/05/87	0	1
GRSM0016	01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	8	11
GRSM0017	01051	LEAD, TOTAL (UG/L AS PB)	08/05/87-08/05/87	0	1
GRSM0022	01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-07/31/79	5	8
GRSM0024	01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	8	10
GRSM0025	01051	LEAD, TOTAL (UG/L AS PB)	08/05/87-08/05/87	0	1
GRSM0027	01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	8	11
GRSM0028	01051	LEAD, TOTAL (UG/L AS PB)	08/05/87-08/05/87	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0037	01051	LEAD, TOTAL (UG/L AS PB)	05/29/74-03/12/81	6	17
GRSM0054	01051	LEAD, TOTAL (UG/L AS PB)	02/15/77-10/24/78	1	8
GRSM0055	01051	LEAD, TOTAL (UG/L AS PB)	05/29/74-08/20/86	12	53
GRSM0057	01051	LEAD, TOTAL (UG/L AS PB)	03/17/77-06/17/80	3	18
GRSM0063	01051	LEAD, TOTAL (UG/L AS PB)	07/16/74-07/31/79	5	8
GRSM0064	01051	LEAD, TOTAL (UG/L AS PB)	08/05/87-08/05/87	0	1
GRSM0091	01051	LEAD, TOTAL (UG/L AS PB)	10/03/77-03/10/78	0	2
GRSM0151	01051	LEAD, TOTAL (UG/L AS PB)	11/28/78-11/28/78	0	1
GRSM0155	01051	LEAD, TOTAL (UG/L AS PB)	11/28/78-11/28/78	0	1
GRSM0157	01051	LEAD, TOTAL (UG/L AS PB)	11/28/78-11/28/78	0	1
GRSM0171	01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-07/23/81	0	1
GRSM0184	01051	LEAD, TOTAL (UG/L AS PB)	10/11/73-09/08/82	8	34
GRSM0185	01051	LEAD, TOTAL (UG/L AS PB)	05/26/76-11/07/94	18	97
GRSM0189	01051	LEAD, TOTAL (UG/L AS PB)	11/28/78-11/28/78	0	1
GRSM0192	01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-07/23/81	0	1
GRSM0202	01051	LEAD, TOTAL (UG/L AS PB)	04/24/74-01/14/75	0	5
GRSM0214	01051	LEAD, TOTAL (UG/L AS PB)	05/05/78-05/05/78	0	1
GRSM0216	01051	LEAD, TOTAL (UG/L AS PB)	05/04/78-05/04/78	0	1
GRSM0217	01051	LEAD, TOTAL (UG/L AS PB)	05/06/78-05/06/78	0	1
GRSM0218	01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-08/13/81	0	2
GRSM0219	01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-08/13/81	0	2
GRSM0225	01051	LEAD, TOTAL (UG/L AS PB)	08/13/81-08/13/81	0	1
GRSM0226	01051	LEAD, TOTAL (UG/L AS PB)	08/13/81-08/13/81	0	1
GRSM0230	01051	LEAD, TOTAL (UG/L AS PB)	06/05/80-06/05/80	0	1
GRSM0234	01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-08/13/81	0	2
GRSM0236	01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-08/13/81	0	2
GRSM0239	01051	LEAD, TOTAL (UG/L AS PB)	07/23/81-08/13/81	0	2
GRSM0250	01051	LEAD, TOTAL (UG/L AS PB)	02/08/77-02/08/77	0	1
GRSM0256	01051	LEAD, TOTAL (UG/L AS PB)	02/04/74-12/05/94	20	103
GRSM0262	01051	LEAD, TOTAL (UG/L AS PB)	02/23/77-10/11/78	1	8
GRSM0264	01051	LEAD, TOTAL (UG/L AS PB)	10/20/82-12/14/92	10	76
GRSM0003	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/16/93-08/16/93	0	1
GRSM0020	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/16/93-08/16/93	0	1
GRSM0027	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/17/80-08/04/82	2	2
GRSM0035	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/73-06/27/73	0	1
GRSM0055	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/15/81-11/29/84	3	5
GRSM0069	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/16/93-08/16/93	0	2
GRSM0097	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/73-06/27/73	0	1
GRSM0151	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/28/78-11/28/78	0	1
GRSM0155	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/28/78-11/28/78	0	1
GRSM0157	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/28/78-11/28/78	0	1
GRSM0184	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	03/05/74-09/01/76	2	4
GRSM0185	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/28/78-11/29/84	6	6
GRSM0189	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	11/28/78-11/28/78	0	1
GRSM0230	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/05/80-06/05/80	0	1
GRSM0256	01052	LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/26/81-08/15/85	4	5
GRSM0003	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/16/93-08/16/93	0	1
GRSM0020	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/16/93-08/16/93	0	1
GRSM0027	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/17/80-06/17/80	0	1
GRSM0035	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/73-06/27/73	0	1
GRSM0069	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/16/93-08/16/93	0	2
GRSM0097	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/73-06/27/73	0	1
GRSM0184	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	03/05/74-06/14/74	0	2
GRSM0230	01053	MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/05/80-06/05/80	0	1
GRSM0184	01054	MANGANESE, SUSPENDED (UG/L AS MN)	10/11/73-10/15/80	7	13
GRSM0007	01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-07/31/79	4	7
GRSM0009	01055	MANGANESE, TOTAL (UG/L AS MN)	01/02/75-11/17/94	19	42
GRSM0013	01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	7	10
GRSM0016	01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	7	10
GRSM0021	01055	MANGANESE, TOTAL (UG/L AS MN)	05/03/66-01/31/67	0	9
GRSM0022	01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-07/31/79	4	7
GRSM0024	01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	7	9
GRSM0027	01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	7	10
GRSM0036	01055	MANGANESE, TOTAL (UG/L AS MN)	02/04/74-01/17/77	2	36
GRSM0037	01055	MANGANESE, TOTAL (UG/L AS MN)	05/29/74-03/12/81	6	16
GRSM0048	01055	MANGANESE, TOTAL (UG/L AS MN)	03/03/74-01/17/77	2	36
GRSM0054	01055	MANGANESE, TOTAL (UG/L AS MN)	02/15/77-12/27/78	1	23
GRSM0055	01055	MANGANESE, TOTAL (UG/L AS MN)	05/29/74-09/14/81	7	34
GRSM0057	01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	12	57
GRSM0063	01055	MANGANESE, TOTAL (UG/L AS MN)	07/29/75-07/31/79	4	7

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0078	01055	MANGANESE, TOTAL (UG/L AS MN)	01/28/74-01/24/77	2	37
GRSM0084	01055	MANGANESE, TOTAL (UG/L AS MN)	04/30/68-03/24/69	0	8
GRSM0087	01055	MANGANESE, TOTAL (UG/L AS MN)	01/23/67-03/24/69	2	17
GRSM0094	01055	MANGANESE, TOTAL (UG/L AS MN)	03/26/82-03/26/82	0	1
GRSM0102	01055	MANGANESE, TOTAL (UG/L AS MN)	04/30/68-03/24/69	0	8
GRSM0103	01055	MANGANESE, TOTAL (UG/L AS MN)	05/23/91-09/30/91	0	2
GRSM0105	01055	MANGANESE, TOTAL (UG/L AS MN)	04/30/68-03/24/69	0	9
GRSM0108	01055	MANGANESE, TOTAL (UG/L AS MN)	03/26/82-03/26/82	0	1
GRSM0110	01055	MANGANESE, TOTAL (UG/L AS MN)	11/12/81-03/26/82	0	3
GRSM0111	01055	MANGANESE, TOTAL (UG/L AS MN)	12/01/81-12/01/81	0	3
GRSM0112	01055	MANGANESE, TOTAL (UG/L AS MN)	11/12/81-06/21/82	0	101
GRSM0115	01055	MANGANESE, TOTAL (UG/L AS MN)	08/11/82-08/11/82	0	1
GRSM0134	01055	MANGANESE, TOTAL (UG/L AS MN)	03/26/82-03/26/82	0	1
GRSM0136	01055	MANGANESE, TOTAL (UG/L AS MN)	11/12/81-11/12/81	0	1
GRSM0137	01055	MANGANESE, TOTAL (UG/L AS MN)	12/02/81-04/22/82	0	3
GRSM0138	01055	MANGANESE, TOTAL (UG/L AS MN)	11/12/81-03/24/82	0	3
GRSM0139	01055	MANGANESE, TOTAL (UG/L AS MN)	03/22/82-03/22/82	0	1
GRSM0142	01055	MANGANESE, TOTAL (UG/L AS MN)	12/02/81-12/02/81	0	1
GRSM0143	01055	MANGANESE, TOTAL (UG/L AS MN)	03/22/82-03/22/82	0	1
GRSM0145	01055	MANGANESE, TOTAL (UG/L AS MN)	03/22/82-03/22/82	0	1
GRSM0146	01055	MANGANESE, TOTAL (UG/L AS MN)	03/24/82-03/24/82	0	1
GRSM0148	01055	MANGANESE, TOTAL (UG/L AS MN)	03/24/82-03/24/82	0	1
GRSM0150	01055	MANGANESE, TOTAL (UG/L AS MN)	03/26/82-03/26/82	0	1
GRSM0151	01055	MANGANESE, TOTAL (UG/L AS MN)	11/28/78-11/28/78	0	2
GRSM0155	01055	MANGANESE, TOTAL (UG/L AS MN)	11/28/78-11/28/78	0	1
GRSM0157	01055	MANGANESE, TOTAL (UG/L AS MN)	11/28/78-11/28/78	0	2
GRSM0160	01055	MANGANESE, TOTAL (UG/L AS MN)	04/20/82-04/20/82	0	1
GRSM0163	01055	MANGANESE, TOTAL (UG/L AS MN)	03/23/82-04/20/82	0	2
GRSM0167	01055	MANGANESE, TOTAL (UG/L AS MN)	04/21/82-04/21/82	0	1
GRSM0168	01055	MANGANESE, TOTAL (UG/L AS MN)	04/21/82-04/21/82	0	1
GRSM0171	01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-07/23/81	0	1
GRSM0173	01055	MANGANESE, TOTAL (UG/L AS MN)	03/25/82-03/25/82	0	1
GRSM0175	01055	MANGANESE, TOTAL (UG/L AS MN)	12/02/81-03/25/82	0	2
GRSM0182	01055	MANGANESE, TOTAL (UG/L AS MN)	11/03/65-10/12/67	1	4
GRSM0184	01055	MANGANESE, TOTAL (UG/L AS MN)	02/01/68-09/08/82	14	28
GRSM0185	01055	MANGANESE, TOTAL (UG/L AS MN)	05/26/76-10/25/93	17	35
GRSM0189	01055	MANGANESE, TOTAL (UG/L AS MN)	11/28/78-11/28/78	0	1
GRSM0192	01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-07/23/81	0	1
GRSM0202	01055	MANGANESE, TOTAL (UG/L AS MN)	01/08/68-03/18/75	7	18
GRSM0214	01055	MANGANESE, TOTAL (UG/L AS MN)	05/05/78-05/05/78	0	1
GRSM0216	01055	MANGANESE, TOTAL (UG/L AS MN)	05/04/78-05/04/78	0	1
GRSM0217	01055	MANGANESE, TOTAL (UG/L AS MN)	05/06/78-05/06/78	0	1
GRSM0218	01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-08/13/81	0	2
GRSM0219	01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-08/13/81	0	2
GRSM0222	01055	MANGANESE, TOTAL (UG/L AS MN)	01/08/68-07/29/68	0	5
GRSM0225	01055	MANGANESE, TOTAL (UG/L AS MN)	08/13/81-08/13/81	0	1
GRSM0226	01055	MANGANESE, TOTAL (UG/L AS MN)	08/13/81-08/13/81	0	1
GRSM0230	01055	MANGANESE, TOTAL (UG/L AS MN)	06/05/80-06/05/80	0	1
GRSM0234	01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-08/13/81	0	2
GRSM0236	01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-08/13/81	0	2
GRSM0239	01055	MANGANESE, TOTAL (UG/L AS MN)	07/23/81-08/13/81	0	2
GRSM0244	01055	MANGANESE, TOTAL (UG/L AS MN)	10/10/67-12/06/68	1	15
GRSM0250	01055	MANGANESE, TOTAL (UG/L AS MN)	10/21/75-02/08/77	1	17
GRSM0251	01055	MANGANESE, TOTAL (UG/L AS MN)	10/21/75-09/07/76	0	12
GRSM0253	01055	MANGANESE, TOTAL (UG/L AS MN)	06/05/73-06/08/73	0	4
GRSM0256	01055	MANGANESE, TOTAL (UG/L AS MN)	02/04/74-10/25/93	19	41
GRSM0262	01055	MANGANESE, TOTAL (UG/L AS MN)	02/23/77-10/11/78	1	12
GRSM0264	01055	MANGANESE, TOTAL (UG/L AS MN)	10/13/83-12/14/92	9	59
GRSM0050	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	0	1
GRSM0052	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	0	1
GRSM0054	01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/15/77-12/27/78	1	22
GRSM0057	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/20/79-06/17/80	1	9
GRSM0071	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/25/85-07/11/85	0	4
GRSM0080	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	0	1
GRSM0081	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/25/85-07/08/85	0	4
GRSM0084	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/30/68-03/24/69	0	8
GRSM0086	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/20/85-07/03/85	0	4
GRSM0087	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/02/68-02/19/69	0	6
GRSM0095	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/03/85-07/03/85	0	1
GRSM0099	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/22/85-07/16/85	0	2
GRSM0100	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/08/85-07/08/85	0	1
GRSM0102	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/30/68-03/24/69	0	6

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0105	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/30/68-03/24/69	0	9
GRSM0106	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/25/85-07/16/85	0	4
GRSM0125	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	0	1
GRSM0129	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	0	1
GRSM0132	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1
GRSM0135	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	0	1
GRSM0140	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	0	1
GRSM0147	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	0	1
GRSM0149	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	0	1
GRSM0152	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/10/85-07/10/85	0	1
GRSM0153	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	0	1
GRSM0154	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1
GRSM0156	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1
GRSM0158	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1
GRSM0159	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1
GRSM0162	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1
GRSM0165	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1
GRSM0170	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	0	1
GRSM0172	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/31/91-10/31/91	0	1
GRSM0174	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	0	1
GRSM0176	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	0	1
GRSM0177	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	0	1
GRSM0179	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	0	1
GRSM0180	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/30/91-10/30/91	0	1
GRSM0182	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/10/63-11/22/94	31	42
GRSM0183	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/29/91-10/29/91	0	1
GRSM0184	01056	MANGANESE, DISSOLVED (UG/L AS MN)	08/21/69-05/11/93	23	56
GRSM0186	01056	MANGANESE, DISSOLVED (UG/L AS MN)	04/23/76-04/23/76	0	1
GRSM0190	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/27/85-07/10/85	0	4
GRSM0191	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	0	1
GRSM0194	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/25/85-07/08/85	0	4
GRSM0195	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/16/85-07/16/85	0	1
GRSM0202	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/08/68-03/18/75	7	19
GRSM0206	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/08/85-07/08/85	0	1
GRSM0208	01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/29/84-11/29/84	0	1
GRSM0213	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/28/85-07/16/85	0	4
GRSM0214	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/05/78-05/05/78	0	1
GRSM0216	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/04/78-05/04/78	0	1
GRSM0217	01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/06/78-05/06/78	0	1
GRSM0222	01056	MANGANESE, DISSOLVED (UG/L AS MN)	01/08/68-06/27/68	0	4
GRSM0237	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/28/85-07/10/85	0	4
GRSM0249	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/21/70-07/21/70	0	1
GRSM0250	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/21/75-02/08/77	1	16
GRSM0251	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/21/75-09/07/76	0	11
GRSM0253	01056	MANGANESE, DISSOLVED (UG/L AS MN)	06/06/73-06/08/73	0	3
GRSM0255	01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/07/85-07/07/85	0	1
GRSM0256	01056	MANGANESE, DISSOLVED (UG/L AS MN)	10/25/73-10/25/73	0	1
GRSM0259	01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/24/85-07/07/85	0	4
GRSM0262	01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/23/77-10/11/78	1	12
GRSM0182	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/17/85-11/22/94	9	24
GRSM0184	01060	MOLYBDENUM, DISSOLVED (UG/L AS MO)	10/22/79-05/11/93	13	43
GRSM0239	01061	MOLYBDENUM, SUSPENDED (UG/L AS MO)	07/23/81-07/23/81	0	1
GRSM0009	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	01/02/75-08/09/77	2	3
GRSM0230	01062	MOLYBDENUM, TOTAL (UG/L AS MO)	06/05/80-06/05/80	0	1
GRSM0035	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	06/27/73-06/27/73	0	1
GRSM0097	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	06/27/73-06/27/73	0	1
GRSM0230	01063	MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	06/05/80-06/05/80	0	1
GRSM0037	01065	NICKEL, DISSOLVED (UG/L AS NI)	05/25/73-06/25/73	0	1
GRSM0070	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/16/74-09/16/74	0	1
GRSM0073	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/16/74-01/29/75	0	2
GRSM0182	01065	NICKEL, DISSOLVED (UG/L AS NI)	09/30/68-11/22/94	26	25
GRSM0184	01065	NICKEL, DISSOLVED (UG/L AS NI)	11/01/67-05/11/93	25	40
GRSM0007	01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	0	1
GRSM0009	01067	NICKEL, TOTAL (UG/L AS NI)	09/23/75-11/17/94	19	83
GRSM0013	01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	0	1
GRSM0014	01067	NICKEL, TOTAL (UG/L AS NI)	08/05/87-08/05/87	0	1
GRSM0016	01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	0	1
GRSM0017	01067	NICKEL, TOTAL (UG/L AS NI)	08/05/87-08/05/87	0	1
GRSM0022	01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	0	1
GRSM0024	01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	0	1
GRSM0025	01067	NICKEL, TOTAL (UG/L AS NI)	08/05/87-08/05/87	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0027	01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	0	1
GRSM0028	01067	NICKEL, TOTAL (UG/L AS NI)	08/05/87-08/05/87	0	1
GRSM0037	01067	NICKEL, TOTAL (UG/L AS NI)	05/17/77-03/12/81	3	4
GRSM0054	01067	NICKEL, TOTAL (UG/L AS NI)	02/15/77-10/24/78	1	8
GRSM0055	01067	NICKEL, TOTAL (UG/L AS NI)	02/15/77-08/20/86	9	33
GRSM0057	01067	NICKEL, TOTAL (UG/L AS NI)	03/17/77-02/26/79	1	9
GRSM0063	01067	NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	0	1
GRSM0064	01067	NICKEL, TOTAL (UG/L AS NI)	08/05/87-08/05/87	0	1
GRSM0070	01067	NICKEL, TOTAL (UG/L AS NI)	07/29/68-10/16/69	1	3
GRSM0073	01067	NICKEL, TOTAL (UG/L AS NI)	07/29/68-10/16/69	1	3
GRSM0094	01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	0	1
GRSM0108	01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	0	1
GRSM0110	01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	0	1
GRSM0112	01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-06/21/82	0	12
GRSM0115	01067	NICKEL, TOTAL (UG/L AS NI)	08/11/82-08/11/82	0	1
GRSM0134	01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	0	1
GRSM0137	01067	NICKEL, TOTAL (UG/L AS NI)	03/24/82-04/22/82	0	2
GRSM0138	01067	NICKEL, TOTAL (UG/L AS NI)	03/24/82-03/24/82	0	1
GRSM0139	01067	NICKEL, TOTAL (UG/L AS NI)	03/22/82-03/22/82	0	1
GRSM0143	01067	NICKEL, TOTAL (UG/L AS NI)	03/22/82-03/22/82	0	1
GRSM0145	01067	NICKEL, TOTAL (UG/L AS NI)	03/22/82-03/22/82	0	1
GRSM0146	01067	NICKEL, TOTAL (UG/L AS NI)	03/24/82-03/24/82	0	1
GRSM0148	01067	NICKEL, TOTAL (UG/L AS NI)	03/24/82-03/24/82	0	1
GRSM0150	01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	0	1
GRSM0160	01067	NICKEL, TOTAL (UG/L AS NI)	04/20/82-04/20/82	0	1
GRSM0163	01067	NICKEL, TOTAL (UG/L AS NI)	03/23/82-04/20/82	0	2
GRSM0167	01067	NICKEL, TOTAL (UG/L AS NI)	04/21/82-04/21/82	0	1
GRSM0168	01067	NICKEL, TOTAL (UG/L AS NI)	04/21/82-04/21/82	0	1
GRSM0171	01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-07/23/81	0	1
GRSM0173	01067	NICKEL, TOTAL (UG/L AS NI)	03/25/82-03/25/82	0	1
GRSM0175	01067	NICKEL, TOTAL (UG/L AS NI)	03/25/82-03/25/82	0	1
GRSM0185	01067	NICKEL, TOTAL (UG/L AS NI)	05/26/76-11/07/94	18	82
GRSM0192	01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-07/23/81	0	1
GRSM0202	01067	NICKEL, TOTAL (UG/L AS NI)	04/24/74-01/14/75	0	5
GRSM0218	01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-08/13/81	0	2
GRSM0219	01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-08/13/81	0	2
GRSM0225	01067	NICKEL, TOTAL (UG/L AS NI)	08/13/81-08/13/81	0	1
GRSM0226	01067	NICKEL, TOTAL (UG/L AS NI)	08/13/81-08/13/81	0	1
GRSM0230	01067	NICKEL, TOTAL (UG/L AS NI)	06/05/80-06/05/80	0	1
GRSM0234	01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-08/13/81	0	2
GRSM0236	01067	NICKEL, TOTAL (UG/L AS NI)	07/23/81-08/13/81	0	2
GRSM0239	01067	NICKEL, TOTAL (UG/L AS NI)	08/13/81-08/13/81	0	1
GRSM0250	01067	NICKEL, TOTAL (UG/L AS NI)	02/08/77-02/08/77	0	1
GRSM0256	01067	NICKEL, TOTAL (UG/L AS NI)	05/26/76-12/05/94	18	82
GRSM0262	01067	NICKEL, TOTAL (UG/L AS NI)	02/23/77-10/11/78	1	8
GRSM0264	01067	NICKEL, TOTAL (UG/L AS NI)	02/16/83-12/14/92	9	12
GRSM0003	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	1
GRSM0020	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	1
GRSM0027	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/04/82	2	2
GRSM0035	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1
GRSM0055	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/05/81-11/29/84	3	4
GRSM0069	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	0	2
GRSM0097	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	0	1
GRSM0185	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/17/81-11/29/84	3	4
GRSM0230	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/05/80-06/05/80	0	1
GRSM0256	01068	NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	02/23/82-08/15/85	3	4
GRSM0005	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	09/23/87-11/25/88	1	3
GRSM0035	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	09/23/87-11/25/88	1	3
GRSM0055	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	02/22/82-02/22/82	0	2
GRSM0185	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	10/24/84-10/24/84	0	9
GRSM0231	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	06/09/80-06/09/80	0	1
GRSM0256	01069	NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	02/23/82-08/28/84	2	6
GRSM0005	01073	THALLIUM,TISSUE,WET WEIGHT,MG/KG	09/23/87-11/25/88	1	3
GRSM0035	01073	THALLIUM,TISSUE,WET WEIGHT,MG/KG	09/23/87-11/25/88	1	3
GRSM0007	01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	1	2
GRSM0011	01075	SILVER, DISSOLVED (UG/L AS AG)	12/10/74-12/10/74	0	1
GRSM0013	01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/30/75	1	7
GRSM0016	01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	1	2
GRSM0022	01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	1	2
GRSM0024	01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/30/75	1	5
GRSM0027	01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	1	2

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0037	01075	SILVER, DISSOLVED (UG/L AS AG)	06/25/73-06/25/73	0	1
GRSM0055	01075	SILVER, DISSOLVED (UG/L AS AG)	10/15/69-06/25/73	3	5
GRSM0059	01075	SILVER, DISSOLVED (UG/L AS AG)	08/14/68-06/25/73	4	4
GRSM0063	01075	SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	1	2
GRSM0070	01075	SILVER, DISSOLVED (UG/L AS AG)	08/26/71-01/29/75	3	5
GRSM0073	01075	SILVER, DISSOLVED (UG/L AS AG)	08/26/71-01/29/75	3	5
GRSM0182	01075	SILVER, DISSOLVED (UG/L AS AG)	09/30/68-11/22/94	26	25
GRSM0184	01075	SILVER, DISSOLVED (UG/L AS AG)	10/22/79-05/11/93	13	43
GRSM0184	01076	SILVER, SUSPENDED (UG/L AS AG)	10/22/79-06/23/81	1	5
GRSM0009	01077	SILVER, TOTAL (UG/L AS AG)	11/18/75-12/21/89	14	7
GRSM0054	01077	SILVER, TOTAL (UG/L AS AG)	02/15/77-08/09/77	0	3
GRSM0055	01077	SILVER, TOTAL (UG/L AS AG)	08/09/77-08/09/77	0	1
GRSM0057	01077	SILVER, TOTAL (UG/L AS AG)	03/17/77-09/19/77	0	3
GRSM0184	01077	SILVER, TOTAL (UG/L AS AG)	05/07/74-09/08/82	8	13
GRSM0202	01077	SILVER, TOTAL (UG/L AS AG)	04/24/74-01/14/75	0	5
GRSM0214	01077	SILVER, TOTAL (UG/L AS AG)	05/05/78-05/05/78	0	1
GRSM0216	01077	SILVER, TOTAL (UG/L AS AG)	05/04/78-05/04/78	0	1
GRSM0217	01077	SILVER, TOTAL (UG/L AS AG)	05/06/78-05/06/78	0	1
GRSM0230	01077	SILVER, TOTAL (UG/L AS AG)	06/05/80-06/05/80	0	1
GRSM0250	01077	SILVER, TOTAL (UG/L AS AG)	02/08/77-02/08/77	0	1
GRSM0262	01077	SILVER, TOTAL (UG/L AS AG)	02/23/77-08/09/77	0	3
GRSM0035	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/73-06/27/73	0	1
GRSM0097	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/73-06/27/73	0	1
GRSM0230	01078	SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/05/80-06/05/80	0	1
GRSM0182	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	09/30/68-11/22/94	26	25
GRSM0184	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	02/01/68-05/11/93	25	47
GRSM0186	01080	STRONTIUM, DISSOLVED (UG/L AS SR)	04/23/76-04/23/76	0	1
GRSM0230	01082	STRONTIUM, TOTAL (UG/L AS SR)	06/05/80-06/05/80	0	1
GRSM0035	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	06/27/73-06/27/73	0	1
GRSM0097	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	06/27/73-06/27/73	0	1
GRSM0230	01083	STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	06/05/80-06/05/80	0	1
GRSM0182	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/17/85-11/22/94	9	24
GRSM0184	01085	VANADIUM, DISSOLVED (UG/L AS V)	10/22/79-05/11/93	13	43
GRSM0009	01087	VANADIUM, TOTAL (UG/L AS V)	12/08/75-08/09/77	1	2
GRSM0230	01087	VANADIUM, TOTAL (UG/L AS V)	06/05/80-06/05/80	0	1
GRSM0035	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/27/73-06/27/73	0	1
GRSM0097	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/27/73-06/27/73	0	1
GRSM0230	01088	VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/05/80-06/05/80	0	1
GRSM0011	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/29/68-07/28/71	2	7
GRSM0070	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/29/68-01/29/75	6	10
GRSM0073	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/29/68-01/29/75	6	10
GRSM0091	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/03/77-03/10/78	0	2
GRSM0182	01090	ZINC, DISSOLVED (UG/L AS ZN)	09/30/68-02/05/91	22	13
GRSM0184	01090	ZINC, DISSOLVED (UG/L AS ZN)	11/01/67-08/20/91	23	66
GRSM0186	01090	ZINC, DISSOLVED (UG/L AS ZN)	04/23/76-04/23/76	0	1
GRSM0249	01090	ZINC, DISSOLVED (UG/L AS ZN)	07/21/70-08/29/72	2	2
GRSM0256	01090	ZINC, DISSOLVED (UG/L AS ZN)	10/25/73-10/25/73	0	1
GRSM0091	01091	ZINC, SUSPENDED (UG/L ZN)	10/03/77-03/10/78	0	2
GRSM0184	01091	ZINC, SUSPENDED (UG/L ZN)	10/11/73-03/21/80	6	28
GRSM0007	01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-07/31/79	5	8
GRSM0009	01092	ZINC, TOTAL (UG/L AS ZN)	01/02/75-11/17/94	19	100
GRSM0013	01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	8	11
GRSM0014	01092	ZINC, TOTAL (UG/L AS ZN)	08/05/87-08/05/87	0	1
GRSM0016	01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	8	11
GRSM0017	01092	ZINC, TOTAL (UG/L AS ZN)	08/05/87-08/05/87	0	1
GRSM0022	01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-07/31/79	5	8
GRSM0024	01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	8	10
GRSM0025	01092	ZINC, TOTAL (UG/L AS ZN)	08/05/87-08/05/87	0	1
GRSM0027	01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	8	11
GRSM0028	01092	ZINC, TOTAL (UG/L AS ZN)	08/05/87-08/05/87	0	1
GRSM0037	01092	ZINC, TOTAL (UG/L AS ZN)	05/29/74-03/12/81	6	17
GRSM0054	01092	ZINC, TOTAL (UG/L AS ZN)	02/15/77-10/24/78	1	8
GRSM0055	01092	ZINC, TOTAL (UG/L AS ZN)	05/29/74-08/20/86	12	53
GRSM0057	01092	ZINC, TOTAL (UG/L AS ZN)	01/30/67-06/17/80	13	19
GRSM0063	01092	ZINC, TOTAL (UG/L AS ZN)	07/16/74-07/31/79	5	8
GRSM0064	01092	ZINC, TOTAL (UG/L AS ZN)	08/05/87-08/05/87	0	1
GRSM0087	01092	ZINC, TOTAL (UG/L AS ZN)	04/30/67-04/30/67	0	1
GRSM0091	01092	ZINC, TOTAL (UG/L AS ZN)	10/03/77-03/10/78	0	2
GRSM0094	01092	ZINC, TOTAL (UG/L AS ZN)	03/26/82-03/26/82	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0102	01092	ZINC, TOTAL (UG/L AS ZN)	05/21/68-07/21/68	0	2
GRSM0108	01092	ZINC, TOTAL (UG/L AS ZN)	03/26/82-03/26/82	0	1
GRSM0110	01092	ZINC, TOTAL (UG/L AS ZN)	11/12/81-03/26/82	0	3
GRSM0111	01092	ZINC, TOTAL (UG/L AS ZN)	12/01/81-12/01/81	0	3
GRSM0112	01092	ZINC, TOTAL (UG/L AS ZN)	11/12/81-06/21/82	0	47
GRSM0115	01092	ZINC, TOTAL (UG/L AS ZN)	08/11/82-08/11/82	0	1
GRSM0134	01092	ZINC, TOTAL (UG/L AS ZN)	03/26/82-03/26/82	0	1
GRSM0136	01092	ZINC, TOTAL (UG/L AS ZN)	11/12/81-11/12/81	0	1
GRSM0137	01092	ZINC, TOTAL (UG/L AS ZN)	12/02/81-04/22/82	0	3
GRSM0138	01092	ZINC, TOTAL (UG/L AS ZN)	11/12/81-03/24/82	0	3
GRSM0139	01092	ZINC, TOTAL (UG/L AS ZN)	03/22/82-03/22/82	0	1
GRSM0142	01092	ZINC, TOTAL (UG/L AS ZN)	12/02/81-12/02/81	0	1
GRSM0143	01092	ZINC, TOTAL (UG/L AS ZN)	03/22/82-03/22/82	0	1
GRSM0145	01092	ZINC, TOTAL (UG/L AS ZN)	03/22/82-03/22/82	0	1
GRSM0146	01092	ZINC, TOTAL (UG/L AS ZN)	03/24/82-03/24/82	0	1
GRSM0148	01092	ZINC, TOTAL (UG/L AS ZN)	03/24/82-03/24/82	0	1
GRSM0150	01092	ZINC, TOTAL (UG/L AS ZN)	03/26/82-03/26/82	0	1
GRSM0151	01092	ZINC, TOTAL (UG/L AS ZN)	11/28/78-11/28/78	0	2
GRSM0155	01092	ZINC, TOTAL (UG/L AS ZN)	11/28/78-11/28/78	0	1
GRSM0157	01092	ZINC, TOTAL (UG/L AS ZN)	11/28/78-11/28/78	0	2
GRSM0160	01092	ZINC, TOTAL (UG/L AS ZN)	04/20/82-04/20/82	0	1
GRSM0163	01092	ZINC, TOTAL (UG/L AS ZN)	03/23/82-04/20/82	0	2
GRSM0167	01092	ZINC, TOTAL (UG/L AS ZN)	04/21/82-04/21/82	0	1
GRSM0168	01092	ZINC, TOTAL (UG/L AS ZN)	04/21/82-04/21/82	0	1
GRSM0171	01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-07/23/81	0	1
GRSM0173	01092	ZINC, TOTAL (UG/L AS ZN)	03/25/82-03/25/82	0	1
GRSM0175	01092	ZINC, TOTAL (UG/L AS ZN)	12/02/81-03/25/82	0	2
GRSM0184	01092	ZINC, TOTAL (UG/L AS ZN)	10/11/73-09/08/82	8	33
GRSM0185	01092	ZINC, TOTAL (UG/L AS ZN)	05/26/76-11/07/94	18	97
GRSM0189	01092	ZINC, TOTAL (UG/L AS ZN)	11/28/78-11/28/78	0	2
GRSM0192	01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-07/23/81	0	1
GRSM0202	01092	ZINC, TOTAL (UG/L AS ZN)	01/08/68-03/18/75	7	18
GRSM0214	01092	ZINC, TOTAL (UG/L AS ZN)	05/05/78-05/05/78	0	1
GRSM0216	01092	ZINC, TOTAL (UG/L AS ZN)	05/04/78-05/04/78	0	1
GRSM0217	01092	ZINC, TOTAL (UG/L AS ZN)	05/06/78-05/06/78	0	1
GRSM0218	01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-08/13/81	0	2
GRSM0219	01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-08/13/81	0	2
GRSM0222	01092	ZINC, TOTAL (UG/L AS ZN)	01/08/68-07/29/68	0	5
GRSM0225	01092	ZINC, TOTAL (UG/L AS ZN)	08/13/81-08/13/81	0	1
GRSM0226	01092	ZINC, TOTAL (UG/L AS ZN)	08/13/81-08/13/81	0	1
GRSM0230	01092	ZINC, TOTAL (UG/L AS ZN)	06/05/80-06/05/80	0	1
GRSM0234	01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-08/13/81	0	2
GRSM0236	01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-08/13/81	0	2
GRSM0239	01092	ZINC, TOTAL (UG/L AS ZN)	07/23/81-08/13/81	0	2
GRSM0250	01092	ZINC, TOTAL (UG/L AS ZN)	02/08/77-02/08/77	0	1
GRSM0256	01092	ZINC, TOTAL (UG/L AS ZN)	02/04/74-12/05/94	20	103
GRSM0262	01092	ZINC, TOTAL (UG/L AS ZN)	02/23/77-10/11/78	1	8
GRSM0264	01092	ZINC, TOTAL (UG/L AS ZN)	10/20/82-12/14/92	10	76
GRSM0003	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/16/93-08/16/93	0	1
GRSM0020	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/16/93-08/16/93	0	1
GRSM0027	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/17/80-08/04/82	2	2
GRSM0035	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/27/73-06/27/73	0	1
GRSM0055	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/05/81-11/29/84	3	4
GRSM0069	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/16/93-08/16/93	0	2
GRSM0097	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/27/73-06/27/73	0	1
GRSM0184	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	03/05/74-09/01/76	2	4
GRSM0185	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/17/81-11/29/84	3	4
GRSM0230	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/05/80-06/05/80	0	1
GRSM0256	01093	ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	02/23/82-08/15/85	3	4
GRSM0009	01097	ANTIMONY, TOTAL (UG/L AS SB)	08/09/77-08/09/77	0	1
GRSM0230	01097	ANTIMONY, TOTAL (UG/L AS SB)	06/05/80-06/05/80	0	1
GRSM0035	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/27/73-06/27/73	0	1
GRSM0097	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/27/73-06/27/73	0	1
GRSM0230	01098	ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/05/80-06/05/80	0	1
GRSM0005	01099	ANTIMONY,TISSUE,WET WEIGHT,MG/KG	09/23/87-11/25/88	1	3
GRSM0035	01099	ANTIMONY,TISSUE,WET WEIGHT,MG/KG	09/23/87-11/25/88	1	3
GRSM0256	01099	ANTIMONY,TISSUE,WET WEIGHT,MG/KG	10/25/73-10/25/73	0	1
GRSM0009	01102	TIN, TOTAL (UG/L AS SN)	08/09/77-08/09/77	0	1
GRSM0230	01102	TIN, TOTAL (UG/L AS SN)	06/05/80-06/05/80	0	1
GRSM0035	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	06/27/73-06/27/73	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0053	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	06/27/73-06/27/73	0	1
GRSM0097	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	06/27/73-06/27/73	0	1
GRSM0230	01103	TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	06/05/80-06/05/80	0	1
GRSM0009	01105	ALUMINUM, TOTAL (UG/L AS AL)	09/23/75-11/17/94	19	40
GRSM0014	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/05/87-08/05/87	0	1
GRSM0017	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/05/87-08/05/87	0	1
GRSM0025	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/05/87-08/05/87	0	1
GRSM0028	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/05/87-08/05/87	0	1
GRSM0050	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	0	1
GRSM0052	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	0	1
GRSM0054	01105	ALUMINUM, TOTAL (UG/L AS AL)	02/15/77-10/24/78	1	8
GRSM0055	01105	ALUMINUM, TOTAL (UG/L AS AL)	02/15/77-08/20/86	9	12
GRSM0057	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/17/77-02/26/79	1	9
GRSM0064	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/05/87-08/05/87	0	1
GRSM0071	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/85-07/11/85	0	4
GRSM0080	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	0	1
GRSM0081	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/85-07/08/85	0	4
GRSM0086	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/20/85-07/03/85	0	4
GRSM0094	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/26/82-03/26/82	0	1
GRSM0095	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/03/85-07/03/85	0	1
GRSM0099	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/22/85-07/16/85	0	2
GRSM0100	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/08/85-07/08/85	0	1
GRSM0106	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/85-07/16/85	0	4
GRSM0108	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/26/82-03/26/82	0	1
GRSM0110	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/12/81-03/26/82	0	3
GRSM0111	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/81-07/29/82	0	4
GRSM0112	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/12/81-08/01/82	0	160
GRSM0115	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/11/82-08/11/82	0	1
GRSM0134	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/26/82-03/26/82	0	1
GRSM0136	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/12/81-11/12/81	0	1
GRSM0137	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/02/81-04/22/82	0	3
GRSM0138	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/12/81-03/24/82	0	3
GRSM0139	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/22/82-03/22/82	0	1
GRSM0142	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/02/81-12/02/81	0	1
GRSM0143	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/22/82-03/22/82	0	1
GRSM0145	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/22/82-03/22/82	0	1
GRSM0146	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/24/82-03/24/82	0	1
GRSM0148	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/24/82-03/24/82	0	1
GRSM0150	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/26/82-03/26/82	0	1
GRSM0152	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/10/85-07/10/85	0	1
GRSM0160	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/20/82-04/20/82	0	1
GRSM0163	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/23/82-04/20/82	0	2
GRSM0167	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/21/82-04/21/82	0	1
GRSM0168	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/21/82-04/21/82	0	1
GRSM0173	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/82-03/25/82	0	1
GRSM0175	01105	ALUMINUM, TOTAL (UG/L AS AL)	12/02/81-03/25/82	0	2
GRSM0177	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	0	1
GRSM0184	01105	ALUMINUM, TOTAL (UG/L AS AL)	02/01/68-07/06/70	2	7
GRSM0185	01105	ALUMINUM, TOTAL (UG/L AS AL)	02/24/83-11/07/94	11	90
GRSM0190	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/27/85-07/10/85	0	4
GRSM0191	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	0	1
GRSM0194	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/85-07/08/85	0	4
GRSM0195	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/16/85-07/16/85	0	1
GRSM0202	01105	ALUMINUM, TOTAL (UG/L AS AL)	04/24/74-01/14/75	0	5
GRSM0206	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/08/85-07/08/85	0	1
GRSM0208	01105	ALUMINUM, TOTAL (UG/L AS AL)	11/29/84-11/29/84	0	1
GRSM0213	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/28/85-07/16/85	0	4
GRSM0230	01105	ALUMINUM, TOTAL (UG/L AS AL)	06/05/80-06/05/80	0	1
GRSM0237	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/28/85-07/10/85	0	4
GRSM0249	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/28/69-08/28/69	0	1
GRSM0250	01105	ALUMINUM, TOTAL (UG/L AS AL)	02/08/77-02/08/77	0	1
GRSM0255	01105	ALUMINUM, TOTAL (UG/L AS AL)	07/07/85-07/07/85	0	1
GRSM0256	01105	ALUMINUM, TOTAL (UG/L AS AL)	08/29/83-12/05/94	11	46
GRSM0259	01105	ALUMINUM, TOTAL (UG/L AS AL)	03/24/85-07/07/85	0	4
GRSM0262	01105	ALUMINUM, TOTAL (UG/L AS AL)	02/23/77-10/11/78	1	8
GRSM0264	01105	ALUMINUM, TOTAL (UG/L AS AL)	10/20/82-12/14/92	10	70
GRSM0031	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/15/73-09/06/73	0	3
GRSM0041	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/18/82-10/18/82	0	1
GRSM0061	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/19/82-10/19/82	0	1
GRSM0072	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/20/84-06/07/85	0	28
GRSM0077	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/18/82-10/18/82	0	1
GRSM0094	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0108	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	0	1
GRSM0110	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	0	1
GRSM0111	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/29/82-07/29/82	0	1
GRSM0112	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-08/01/82	0	64
GRSM0115	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/11/82-08/11/82	0	1
GRSM0134	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	0	1
GRSM0137	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/24/82-04/22/82	0	2
GRSM0138	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/24/82-03/24/82	0	1
GRSM0139	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/22/82-03/22/82	0	1
GRSM0143	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/22/82-03/22/82	0	1
GRSM0145	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/22/82-03/22/82	0	1
GRSM0146	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/24/82-03/24/82	0	1
GRSM0148	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/24/82-03/24/82	0	1
GRSM0150	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	0	1
GRSM0160	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/20/82-04/20/82	0	1
GRSM0163	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/23/82-04/20/82	0	2
GRSM0167	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/21/82-04/21/82	0	1
GRSM0168	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	04/21/82-04/21/82	0	1
GRSM0173	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/25/82-03/25/82	0	1
GRSM0175	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/25/82-03/25/82	0	1
GRSM0182	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	10/17/85-11/22/94	9	24
GRSM0184	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	08/21/69-05/11/93	23	38
GRSM0229	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	11/19/84-06/08/85	0	50
GRSM0249	01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/21/70-08/29/72	2	2
GRSM0003	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/16/93-08/16/93	0	1
GRSM0020	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/16/93-08/16/93	0	1
GRSM0027	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/17/80-08/04/82	2	2
GRSM0035	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/27/73-06/27/73	0	1
GRSM0069	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/16/93-08/16/93	0	2
GRSM0097	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/27/73-06/27/73	0	1
GRSM0230	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/05/80-06/05/80	0	1
GRSM0256	01108	ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	02/23/82-08/15/85	3	2
GRSM0182	01130	LITHIUM, DISSOLVED (UG/L AS LI)	09/30/68-11/22/94	26	25
GRSM0184	01130	LITHIUM, DISSOLVED (UG/L AS LI)	11/01/67-05/11/93	25	46
GRSM0007	01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	1	2
GRSM0009	01132	LITHIUM, TOTAL (UG/L AS LI)	08/09/77-12/21/89	12	3
GRSM0011	01132	LITHIUM, TOTAL (UG/L AS LI)	06/25/73-12/10/74	1	4
GRSM0013	01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/31/75	1	6
GRSM0016	01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	1	2
GRSM0022	01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	1	2
GRSM0024	01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/31/75	1	6
GRSM0027	01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	1	2
GRSM0037	01132	LITHIUM, TOTAL (UG/L AS LI)	06/25/73-11/21/74	1	2
GRSM0054	01132	LITHIUM, TOTAL (UG/L AS LI)	02/15/77-08/09/77	0	3
GRSM0055	01132	LITHIUM, TOTAL (UG/L AS LI)	06/25/73-08/09/77	4	3
GRSM0057	01132	LITHIUM, TOTAL (UG/L AS LI)	03/17/77-09/19/77	0	3
GRSM0059	01132	LITHIUM, TOTAL (UG/L AS LI)	06/25/73-11/27/74	1	2
GRSM0063	01132	LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	1	2
GRSM0070	01132	LITHIUM, TOTAL (UG/L AS LI)	06/21/73-01/29/75	1	6
GRSM0073	01132	LITHIUM, TOTAL (UG/L AS LI)	06/21/73-01/29/75	1	6
GRSM0202	01132	LITHIUM, TOTAL (UG/L AS LI)	04/24/74-01/14/75	0	5
GRSM0250	01132	LITHIUM, TOTAL (UG/L AS LI)	02/08/77-02/08/77	0	1
GRSM0262	01132	LITHIUM, TOTAL (UG/L AS LI)	02/23/77-08/09/77	0	3
GRSM0035	01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	06/27/73-06/27/73	0	1
GRSM0097	01133	LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	06/27/73-06/27/73	0	1
GRSM0182	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/17/85-11/22/94	9	24
GRSM0184	01145	SELENIUM, DISSOLVED (UG/L AS SE)	10/22/79-05/11/93	13	43
GRSM0184	01146	SELENIUM, SUSPENDED (UG/L AS SE)	10/22/79-06/23/81	1	5
GRSM0009	01147	SELENIUM, TOTAL (UG/L AS SE)	11/18/75-12/08/75	0	2
GRSM0091	01147	SELENIUM, TOTAL (UG/L AS SE)	10/03/77-03/10/78	0	2
GRSM0184	01147	SELENIUM, TOTAL (UG/L AS SE)	06/18/75-09/08/82	7	12
GRSM0202	01147	SELENIUM, TOTAL (UG/L AS SE)	04/24/74-01/14/75	0	4
GRSM0214	01147	SELENIUM, TOTAL (UG/L AS SE)	05/05/78-05/05/78	0	1
GRSM0216	01147	SELENIUM, TOTAL (UG/L AS SE)	05/04/78-05/04/78	0	1
GRSM0217	01147	SELENIUM, TOTAL (UG/L AS SE)	05/06/78-05/06/78	0	1
GRSM0230	01147	SELENIUM, TOTAL (UG/L AS SE)	06/05/80-06/05/80	0	1
GRSM0250	01147	SELENIUM, TOTAL (UG/L AS SE)	02/08/77-02/08/77	0	1
GRSM0264	01147	SELENIUM, TOTAL (UG/L AS SE)	06/24/86-07/21/88	2	2
GRSM0035	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/27/73-06/27/73	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0097	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/27/73-06/27/73	0	1
GRSM0230	01148	SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/05/80-06/05/80	0	1
GRSM0005	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	09/23/87-11/16/93	6	5
GRSM0020	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	11/17/93-11/17/93	0	1
GRSM0035	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	09/23/87-11/25/88	1	3
GRSM0069	01149	SELENIUM, TOTAL IN FISH OR ANIMALS WET WGT MG/KG	12/01/92-11/18/93	0	2
GRSM0054	01152	TITANIUM, TOTAL (UG/L AS TI)	02/15/77-08/09/77	0	3
GRSM0057	01152	TITANIUM, TOTAL (UG/L AS TI)	03/17/77-09/19/77	0	3
GRSM0202	01152	TITANIUM, TOTAL (UG/L AS TI)	04/24/74-01/14/75	0	5
GRSM0230	01152	TITANIUM, TOTAL (UG/L AS TI)	06/05/80-06/05/80	0	1
GRSM0250	01152	TITANIUM, TOTAL (UG/L AS TI)	02/08/77-02/08/77	0	1
GRSM0262	01152	TITANIUM, TOTAL (UG/L AS TI)	02/23/77-08/09/77	0	3
GRSM0230	01153	TITANIUM IN BOTTOM DEPOSITS (MG/KG AS TI DRY WGT)	06/05/80-06/05/80	0	1
GRSM0230	01162	ZIRCONIUM, TOTAL (UG/L AS ZR)	06/05/80-06/05/80	0	1
GRSM0230	01163	ZIRCONIUM IN BOTTOM DEPOSITS (MG/KG AS ZR DRY WT)	06/05/80-06/05/80	0	1
GRSM0003	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/16/93-08/16/93	0	1
GRSM0020	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/16/93-08/16/93	0	1
GRSM0027	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/17/80-06/17/80	0	1
GRSM0035	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/73-06/27/73	0	1
GRSM0069	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/16/93-08/16/93	0	2
GRSM0097	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/73-06/27/73	0	1
GRSM0184	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	03/05/74-09/01/76	2	4
GRSM0230	01170	IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/05/80-06/05/80	0	1
GRSM0230	01203	YTTRIUM, TOTAL (UG/L AS Y)	06/05/80-06/05/80	0	1
GRSM0249	01501	ALPHA, TOTAL	11/23/71-11/23/71	0	1
GRSM0249	01502	ALPHA, TOTAL, COUNTING ERROR	11/23/71-11/23/71	0	1
GRSM0249	01503	ALPHA, DISSOLVED	11/23/71-11/23/71	0	1
GRSM0249	01504	ALPHA, DISSOLVED, COUNTING ERROR	11/23/71-11/23/71	0	1
GRSM0249	01505	ALPHA, SUSPENDED	11/23/71-11/23/71	0	1
GRSM0249	01506	ALPHA, SUSPENDED, COUNTING ERROR	11/23/71-11/23/71	0	1
GRSM0182	01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	10/12/67-10/25/68	1	3
GRSM0184	01515	ALPHA, DISSOLVED GROSS, AS URANIUM-NATURAL, PC/L	10/03/67-09/08/82	14	5
GRSM0182	01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	10/12/67-10/25/68	1	3
GRSM0184	01516	ALPHA, SUSPEND GROSS, AS URANIUM NATURAL, PC/L	10/03/67-10/15/80	13	4
GRSM0249	03501	BETA, TOTAL	04/28/70-11/23/71	1	4
GRSM0249	03502	BETA, TOTAL, COUNTING ERROR	11/23/71-11/23/71	0	1
GRSM0249	03503	BETA, DISSOLVED	11/23/71-11/23/71	0	1
GRSM0249	03504	BETA, DISSOLVED, COUNTING ERROR	11/23/71-11/23/71	0	1
GRSM0249	03505	BETA, SUSPENDED	11/23/71-11/23/71	0	1
GRSM0249	03506	BETA, SUSPENDED, COUNTING ERROR	11/23/71-11/23/71	0	1
GRSM0182	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/12/67-02/24/93	25	15
GRSM0184	03515	BETA, DISSOLVED GROSS, AS CS-137, PC/L	10/03/67-03/30/93	25	26
GRSM0182	03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/12/67-02/24/93	25	15
GRSM0184	03516	BETA, SUSPENDED GROSS, AS CS-137, PC/L	10/03/67-03/30/93	25	26
GRSM0182	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	08/25/92-02/24/93	0	2
GRSM0184	04126	ALPHA, DISSOLVED, WATER (AS TH-230) PCI/L	08/17/92-03/30/93	0	2
GRSM0182	04127	ALPHA, SUSPENDED, DRY WEIGHT,SED (AS TH-230) PCI/L	08/25/92-02/24/93	0	2
GRSM0184	04127	ALPHA, SUSPENDED, DRY WEIGHT,SED (AS TH-230) PCI/L	08/17/92-03/30/93	0	2
GRSM0182	09510	RADIUM 226, DISSOLVED, PLANCHET COUNT	06/24/68-06/24/68	0	1
GRSM0184	09510	RADIUM 226, DISSOLVED, PLANCHET COUNT	10/03/72-10/03/72	0	1
GRSM0182	09511	RADIUM 226, DISSOLVED, RADON METHOD	10/12/67-08/24/94	26	16
GRSM0184	09511	RADIUM 226, DISSOLVED, RADON METHOD	10/03/67-03/30/93	25	25
GRSM0249	13501	STRONTIUM 90, TOTAL	11/23/71-11/23/71	0	1
GRSM0249	15501	STRONTIUM 89, TOTAL	11/23/71-11/23/71	0	1
GRSM0182	22703	URANIUM, NATURAL, DISSOLVED	10/12/67-08/24/94	26	14
GRSM0184	22703	URANIUM, NATURAL, DISSOLVED	12/07/87-03/30/93	5	11
GRSM0188	30344	PENTACHLORODIBENZO-P-DIOXIN,12378,FISH,WET WT,PG/G	10/17/84-10/17/84	0	3
GRSM0188	30345	HEXACHLORODIBENZO-P-DIOXIN,123478,FISH,WET WT,PG/G	10/17/84-10/17/84	0	3
GRSM0188	30346	HEXACHLORODIBENZO-P-DIOXIN,123678,FISH,WET WT,PG/G	10/17/84-10/17/84	0	3
GRSM0188	30347	HEXACHLORODIBENZO-P-DIOXIN,123789,FISH,WET WT,PG/G	10/17/84-10/17/84	0	3
GRSM0188	30348	HEPTACHLORODIBENZO-P-DIOXIN,1234678,TIS,WETWT,PG/G	10/17/84-10/17/84	0	3
GRSM0188	30349	TETRACHLORODIBENZOFURAN, 2378- , FISH,WET WT.,PG/G	10/17/84-10/17/84	0	3
GRSM0188	30350	PENTACHLORODIBENZOFURAN,12378- , FISH,WET WT.,PG/G	10/17/84-10/17/84	0	3
GRSM0188	30351	PENTACHLORODIBENZOFURAN,23478- , FISH,WET WT.,PG/G	10/17/84-10/17/84	0	3
GRSM0188	30352	HEXACHLORODIBENZOFURAN,123478- , FISH,WET WT.,PG/G	10/17/84-10/17/84	0	3
GRSM0188	30353	HEXACHLORODIBENZOFURAN,123678- , FISH,WET WT.,PG/G	10/17/84-10/17/84	0	3
GRSM0188	30354	HEXACHLORODIBENZOFURAN,123789- , FISH,WET WT.,PG/G	10/17/84-10/17/84	0	3
GRSM0188	30355	HEXACHLORODIBENZOFURAN,234678- , FISH,WET WT.,PG/G	10/17/84-10/17/84	0	3
GRSM0188	30356	HEPTACHLORODIBENZOFURAN,1234678- ,FISH,WET WT,PG/G	10/17/84-10/17/84	0	3
GRSM0188	30357	HEPTACHLORODIBENZOFURAN,1234789- ,FISH,WET WT,PG/G	10/17/84-10/17/84	0	3
GRSM0054	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	02/15/77-12/27/78	1	22

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0084	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	04/30/68-03/24/69	0	8
GRSM0087	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	05/02/68-03/24/69	0	6
GRSM0102	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	04/30/68-03/24/69	0	8
GRSM0105	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	04/30/68-03/24/69	0	9
GRSM0120	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	08/05/68-08/05/68	0	1
GRSM0164	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	08/05/68-08/05/68	0	1
GRSM0182	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	10/12/67-09/30/68	0	12
GRSM0184	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	07/14/69-10/15/80	11	38
GRSM0202	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	01/08/68-03/18/75	7	19
GRSM0215	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	01/08/68-03/18/75	7	22
GRSM0222	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	01/08/68-03/18/75	7	22
GRSM0242	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	08/23/68-08/26/68	0	2
GRSM0244	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	03/13/68-12/06/68	0	10
GRSM0248	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	04/24/74-03/18/75	0	14
GRSM0249	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	07/28/71-07/25/73	1	18
GRSM0250	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	11/18/75-02/08/77	1	14
GRSM0251	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	11/18/75-09/07/76	0	12
GRSM0253	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	06/05/73-06/08/73	0	4
GRSM0258	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	11/03/71-11/03/71	0	1
GRSM0262	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	02/23/77-10/11/78	1	10
GRSM0264	31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	03/13/84-03/13/84	0	1
GRSM0184	31503	COLIFORM,TOT,MEMBR FILTER,DELAYED,M-ENDO MED,35 C	11/01/67-12/12/68	1	6
GRSM0009	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	09/23/75-10/29/75	0	2
GRSM0055	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	04/15/85-04/15/85	0	1
GRSM0185	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	05/07/74-10/15/80	6	13
GRSM0256	31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	07/02/68-06/03/70	1	5
GRSM0021	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/03/66-01/31/67	0	9
GRSM0057	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/04/66-01/30/67	0	8
GRSM0059	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	10/15/69-10/15/69	0	1
GRSM0070	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/14/69-01/29/75	5	4
GRSM0073	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/14/69-01/29/75	5	4
GRSM0087	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/23/67-05/27/67	0	9
GRSM0258	31505	COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/07/65-10/26/65	0	8
GRSM0007	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	0	1
GRSM0011	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-12/10/74	6	13
GRSM0013	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/09/75-07/31/75	0	5
GRSM0016	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	0	1
GRSM0022	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	0	1
GRSM0024	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/09/75-07/31/75	0	5
GRSM0027	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	0	1
GRSM0037	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/21/74	6	12
GRSM0055	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/21/74	6	12
GRSM0059	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/27/74	6	8
GRSM0063	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	0	1
GRSM0070	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-01/29/75	6	15
GRSM0073	31508	COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-01/29/75	6	15
GRSM0021	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	05/03/66-01/31/67	0	9
GRSM0057	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	05/04/66-01/30/67	0	8
GRSM0070	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/29/68-04/27/71	2	3
GRSM0073	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/29/68-04/27/71	2	3
GRSM0087	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/67-05/27/67	0	9
GRSM0258	31615	FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/07/65-10/26/65	0	8
GRSM0007	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	5	17
GRSM0009	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	20	169
GRSM0011	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	12/10/74-07/13/77	2	2
GRSM0013	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	8	26
GRSM0016	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	8	19
GRSM0022	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	5	17
GRSM0024	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	8	24
GRSM0027	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	8	20
GRSM0036	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-05/17/78	2	4
GRSM0037	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	7	78
GRSM0048	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-07/22/76	0	3
GRSM0054	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/15/77-12/27/78	1	22
GRSM0055	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	17	145
GRSM0056	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/21/70-10/05/71	1	3
GRSM0057	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-06/17/80	4	9
GRSM0059	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/14/68-06/25/73	4	4
GRSM0063	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	5	17
GRSM0070	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/26/71-03/24/76	4	6
GRSM0073	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/26/71-01/29/75	3	5
GRSM0078	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-05/17/78	2	5

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0079	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/10/77-05/17/78	0	2
GRSM0084	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	0	8
GRSM0085	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	0	9
GRSM0087	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/02/68-03/24/69	0	7
GRSM0088	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	0	8
GRSM0101	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	0	9
GRSM0102	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	0	8
GRSM0105	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	0	9
GRSM0109	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	0	9
GRSM0151	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	0	3
GRSM0155	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	0	3
GRSM0157	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	0	3
GRSM0184	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/07/71-07/12/78	6	67
GRSM0185	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	09/04/73-12/05/94	21	345
GRSM0189	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/11/79-10/24/79	0	3
GRSM0202	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/08/68-03/18/75	7	18
GRSM0215	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/08/68-03/18/75	7	21
GRSM0222	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	01/08/68-03/18/75	7	21
GRSM0242	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/23/68-08/26/68	0	2
GRSM0244	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/13/68-12/06/68	0	10
GRSM0245	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/20/82-06/07/83	0	9
GRSM0248	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/24/74-03/18/75	0	14
GRSM0249	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/23/71-09/29/71	0	2
GRSM0250	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/18/75-02/08/77	1	18
GRSM0251	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/18/75-09/07/76	0	13
GRSM0253	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/05/73-06/08/73	0	4
GRSM0256	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/09/70-12/05/94	24	241
GRSM0258	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	11/03/71-11/03/71	0	1
GRSM0262	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/23/77-10/11/78	1	10
GRSM0264	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/12/88-12/14/92	4	22
GRSM0182	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/17/85-11/22/94	9	39
GRSM0184	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	10/19/76-05/11/93	16	72
GRSM0196	31625	FECAL COLIFORM, MF,M-FC, 0.7 UM	08/20/91-08/28/91	0	2
GRSM0182	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	10/17/85-11/22/94	9	41
GRSM0184	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	03/05/74-05/11/93	19	71
GRSM0185	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	09/10/79-11/29/94	15	57
GRSM0196	31673	FECAL STREPTOCOCCI, MBR FILT,KF AGAR,35C,48HR	08/20/91-08/20/91	0	1
GRSM0184	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	05/07/74-09/01/76	2	7
GRSM0185	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	08/27/74-06/23/81	6	5
GRSM0245	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	10/20/82-06/07/83	0	9
GRSM0264	31679	FECAL STREPTOCOCCI,MF M-ENTEROCOCCUS AGAR,35C,48H	04/12/88-12/14/92	4	20
GRSM0041	32023	ACIDS, STRONG	10/18/82-10/18/82	0	1
GRSM0061	32023	ACIDS, STRONG	10/19/82-10/19/82	0	1
GRSM0072	32023	ACIDS, STRONG	12/13/83-05/08/85	1	26
GRSM0077	32023	ACIDS, STRONG	10/18/82-10/18/82	0	1
GRSM0094	32023	ACIDS, STRONG	03/26/82-03/26/82	0	1
GRSM0108	32023	ACIDS, STRONG	03/26/82-03/26/82	0	1
GRSM0110	32023	ACIDS, STRONG	03/26/82-03/26/82	0	1
GRSM0111	32023	ACIDS, STRONG	07/29/82-07/29/82	0	1
GRSM0112	32023	ACIDS, STRONG	01/21/82-08/01/82	0	114
GRSM0115	32023	ACIDS, STRONG	08/11/82-08/11/82	0	1
GRSM0134	32023	ACIDS, STRONG	03/26/82-03/26/82	0	1
GRSM0137	32023	ACIDS, STRONG	03/24/82-04/22/82	0	2
GRSM0138	32023	ACIDS, STRONG	03/24/82-03/24/82	0	1
GRSM0139	32023	ACIDS, STRONG	03/22/82-03/22/82	0	1
GRSM0143	32023	ACIDS, STRONG	03/22/82-03/22/82	0	1
GRSM0145	32023	ACIDS, STRONG	03/22/82-03/22/82	0	1
GRSM0146	32023	ACIDS, STRONG	03/24/82-03/24/82	0	1
GRSM0148	32023	ACIDS, STRONG	03/24/82-03/24/82	0	1
GRSM0150	32023	ACIDS, STRONG	03/26/82-03/26/82	0	1
GRSM0160	32023	ACIDS, STRONG	04/20/82-04/20/82	0	1
GRSM0163	32023	ACIDS, STRONG	03/23/82-04/20/82	0	2
GRSM0167	32023	ACIDS, STRONG	04/21/82-04/21/82	0	1
GRSM0168	32023	ACIDS, STRONG	04/21/82-04/21/82	0	1
GRSM0173	32023	ACIDS, STRONG	03/25/82-03/25/82	0	1
GRSM0175	32023	ACIDS, STRONG	03/25/82-03/25/82	0	1
GRSM0229	32023	ACIDS, STRONG	12/13/83-05/15/85	1	51
GRSM0041	32024	ACIDS, WEAK	10/18/82-10/18/82	0	1
GRSM0061	32024	ACIDS, WEAK	10/19/82-10/19/82	0	1
GRSM0072	32024	ACIDS, WEAK	12/13/83-05/08/85	1	26
GRSM0077	32024	ACIDS, WEAK	10/18/82-10/18/82	0	1
GRSM0094	32024	ACIDS, WEAK	03/26/82-03/26/82	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0108	32024	ACIDS, WEAK	03/26/82-03/26/82	0	1
GRSM0110	32024	ACIDS, WEAK	03/26/82-03/26/82	0	1
GRSM0111	32024	ACIDS, WEAK	07/29/82-07/29/82	0	1
GRSM0112	32024	ACIDS, WEAK	01/21/82-08/01/82	0	114
GRSM0115	32024	ACIDS, WEAK	08/11/82-08/11/82	0	1
GRSM0134	32024	ACIDS, WEAK	03/26/82-03/26/82	0	1
GRSM0137	32024	ACIDS, WEAK	03/24/82-04/22/82	0	2
GRSM0138	32024	ACIDS, WEAK	03/24/82-03/24/82	0	1
GRSM0139	32024	ACIDS, WEAK	03/22/82-03/22/82	0	1
GRSM0143	32024	ACIDS, WEAK	03/22/82-03/22/82	0	1
GRSM0145	32024	ACIDS, WEAK	03/22/82-03/22/82	0	1
GRSM0146	32024	ACIDS, WEAK	03/24/82-03/24/82	0	1
GRSM0148	32024	ACIDS, WEAK	03/24/82-03/24/82	0	1
GRSM0150	32024	ACIDS, WEAK	03/26/82-03/26/82	0	1
GRSM0160	32024	ACIDS, WEAK	04/20/82-04/20/82	0	1
GRSM0163	32024	ACIDS, WEAK	03/23/82-04/20/82	0	2
GRSM0167	32024	ACIDS, WEAK	04/21/82-04/21/82	0	1
GRSM0168	32024	ACIDS, WEAK	04/21/82-04/21/82	0	1
GRSM0173	32024	ACIDS, WEAK	03/25/82-03/25/82	0	1
GRSM0175	32024	ACIDS, WEAK	03/25/82-03/25/82	0	1
GRSM0229	32024	ACIDS, WEAK	12/13/83-05/15/85	1	51
GRSM0230	32101	BROMODICHLOROMETHANE,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1
GRSM0230	32102	CARBON TETRACHLORIDE,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1
GRSM0230	32103	1,2-DICHLOROETHANE,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1
GRSM0230	32104	BROMOFORM,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1
GRSM0192	32106	CHLOROFORM,WHOLE WATER,UG/L	05/06/81-05/06/81	0	1
GRSM0230	32106	CHLOROFORM,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1
GRSM0013	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	13	4
GRSM0016	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	13	4
GRSM0024	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	13	4
GRSM0027	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	13	4
GRSM0032	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	6	2
GRSM0038	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	6	2
GRSM0042	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	6	2
GRSM0045	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	6	2
GRSM0063	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/05/87-08/29/94	7	2
GRSM0066	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	6	2
GRSM0103	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	05/23/91-09/30/91	0	3
GRSM0197	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/01/90-07/28/92	1	2
GRSM0203	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/01/90-07/28/92	1	2
GRSM0210	32209	CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/01/90-07/28/92	1	2
GRSM0007	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/02/79-07/02/79	0	1
GRSM0013	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/05/77-06/17/80	3	4
GRSM0016	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/05/77-06/17/80	3	3
GRSM0022	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/05/77-07/02/79	2	2
GRSM0024	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/06/78-06/17/80	1	2
GRSM0027	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	06/17/80-06/17/80	0	1
GRSM0063	32210	CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/04/77-07/02/79	2	4
GRSM0003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/22/93-10/19/94	1	14
GRSM0007	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-07/02/79	4	3
GRSM0011	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/25/73-12/10/74	1	2
GRSM0013	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/09/75-06/17/80	4	6
GRSM0016	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/75-06/17/80	4	4
GRSM0020	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/22/93-10/19/94	1	14
GRSM0022	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/75-07/02/79	3	3
GRSM0024	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/09/75-06/17/80	4	4
GRSM0027	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/75-06/17/80	4	2
GRSM0037	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/25/73-11/21/74	1	2
GRSM0055	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/25/73-11/21/74	1	2
GRSM0059	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/25/73-11/27/74	1	2
GRSM0063	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/75-07/02/79	3	5
GRSM0069	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/21/93-10/20/94	1	18
GRSM0070	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/21/73-01/29/75	1	4
GRSM0073	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/21/73-01/29/75	1	4
GRSM0003	32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	1	14
GRSM0020	32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	1	14
GRSM0069	32212	CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	04/21/93-10/20/94	1	18
GRSM0013	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	13	4
GRSM0016	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	13	4
GRSM0024	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	13	4
GRSM0027	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	13	4
GRSM0032	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	6	2

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0038	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	6	2
GRSM0042	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	6	2
GRSM0045	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	6	2
GRSM0063	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/05/87-08/29/94	7	2
GRSM0066	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	6	2
GRSM0197	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/01/90-07/28/92	1	2
GRSM0203	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/01/90-07/28/92	1	2
GRSM0210	32213	PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/01/90-07/28/92	1	2
GRSM0003	32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	1	14
GRSM0020	32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	1	14
GRSM0069	32214	CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	04/21/93-10/20/94	1	18
GRSM0004	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/03/73-10/26/73	0	3
GRSM0013	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	13	4
GRSM0016	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	13	4
GRSM0019	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	0	3
GRSM0023	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	0	3
GRSM0024	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	13	4
GRSM0027	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	13	4
GRSM0030	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	0	3
GRSM0032	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	6	2
GRSM0038	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	6	2
GRSM0042	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	6	2
GRSM0045	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	6	2
GRSM0060	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	0	3
GRSM0063	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/05/87-08/29/94	7	2
GRSM0066	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	6	2
GRSM0126	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/27/73-11/13/73	0	3
GRSM0197	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/01/90-07/28/92	1	2
GRSM0203	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/01/90-07/28/92	1	2
GRSM0210	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/01/90-07/28/92	1	2
GRSM0247	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	03/24/73-09/20/73	0	3
GRSM0257	32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	03/24/73-09/20/73	0	3
GRSM0003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/22/93-10/19/94	1	14
GRSM0007	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-07/02/79	4	3
GRSM0009	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	01/02/75-01/02/75	0	1
GRSM0011	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/68-12/10/74	6	13
GRSM0013	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-06/17/80	5	10
GRSM0016	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-06/17/80	5	5
GRSM0020	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/22/93-10/19/94	1	14
GRSM0022	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-07/02/79	4	4
GRSM0024	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-06/17/80	5	8
GRSM0027	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-06/17/80	5	3
GRSM0037	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/20/68-11/21/74	6	12
GRSM0055	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/20/68-11/21/74	6	11
GRSM0059	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/20/68-11/27/74	6	8
GRSM0063	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-07/02/79	4	6
GRSM0069	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/21/93-10/20/94	1	18
GRSM0070	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/68-01/29/75	6	15
GRSM0073	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/68-01/29/75	6	14
GRSM0157	32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	11/02/78-11/27/78	0	2
GRSM0185	32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	11/27/78-08/06/80	1	5
GRSM0189	32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	11/27/78-11/27/78	0	2
GRSM0256	32228	CHLOROPHYLL A, PERIPHYTON, SPECTRO, MG/M2	08/06/80-08/06/80	0	3
GRSM0244	32240	TANNIN AND LIGNIN (MG/L)	10/10/67-12/06/68	1	15
GRSM0007	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5	7
GRSM0009	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	11/18/75-12/08/75	0	2
GRSM0013	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5	7
GRSM0016	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5	7
GRSM0022	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5	7
GRSM0024	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5	5
GRSM0027	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5	7
GRSM0037	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	02/28/78-02/28/78	0	1
GRSM0063	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5	6
GRSM0214	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/05/78-05/05/78	0	1
GRSM0216	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/04/78-05/04/78	0	1
GRSM0217	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	05/06/78-05/06/78	0	1
GRSM0230	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/05/80-06/05/80	0	1
GRSM0244	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	12/13/67-12/13/67	0	1
GRSM0249	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/21/70-08/29/72	2	2
GRSM0253	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	06/05/73-06/08/73	0	4
GRSM0256	32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)	10/18/68-05/17/73	4	2
GRSM0231	32734	PHENOLICS,TISSUE,WET WEIGHT,MG/KG	06/09/80-06/09/80	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0230	34010	TOLUENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	06/05/80-06/05/80	0	1
GRSM0230	34030	BENZENE IN WTR SMPLE GC-MS, HEXADECONE EXTR.(UG/L)	06/05/80-06/05/80	0	1
GRSM0230	34200	ACENAPHTHYLENE TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34203	ACENAPHTHYLENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34204	ACENAPHTHYLENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34205	ACENAPHTHENE TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34208	ACENAPHTHENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34209	ACENAPHTHENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34210	ACROLEIN TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34215	ACRYLONITRILE TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34220	ANTHRACENE TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34223	ANTHRACENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34224	ANTHRACENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34230	BENZO(B)FLUORANTHENE,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1
GRSM0230	34233	BENZO(B)FLUORANTHENE,SEDIMENTS,DRY WGT,UG/KG	06/05/80-06/05/80	0	1
GRSM0231	34234	BENZO(B)FLUORANTHENE,TISSUE,WET WGT,MG/KG	06/09/80-06/09/80	0	1
GRSM0231	34241	BENZIDINE WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34242	BENZO(K)FLUORANTHENE, TOTAL, WATER UG/L	06/05/80-06/05/80	0	1
GRSM0230	34245	BENZO(K)FLUORANTHENE, DRY WT, SEDIMENT UG/KG	06/05/80-06/05/80	0	1
GRSM0231	34246	BENZO(K)FLUORANTHENE, WET WT, TISSUE MG/KG	06/09/80-06/09/80	0	1
GRSM0230	34247	BENZO-A-PYRENE TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34250	BENZO-A-PYRENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34251	BENZO-A-PYRENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0005	34252	BERYLLIUM WET WGTTISMG/KG	09/23/87-11/25/88	1	3
GRSM0035	34252	BERYLLIUM WET WGTTISMG/KG	09/23/87-11/25/88	1	3
GRSM0231	34252	BERYLLIUM WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0003	34257	B-BHC-BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1
GRSM0020	34257	B-BHC-BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1
GRSM0069	34257	B-BHC-BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	0	2
GRSM0230	34257	B-BHC-BETA DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0005	34258	B-BHC-BETA WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34258	B-BHC-BETA WET WGTTISMG/KG	11/17/93-11/17/93	0	1
GRSM0035	34258	B-BHC-BETA WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0069	34258	B-BHC-BETA WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0231	34258	B-BHC-BETA WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34259	DELTA BENZENE HEXACHLORIDE TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0003	34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1
GRSM0020	34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1
GRSM0069	34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	08/16/93-08/16/93	0	2
GRSM0230	34262	DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0005	34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	11/17/93-11/17/93	0	1
GRSM0035	34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0069	34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0231	34263	DELTA BENZENE HEXACHLORIDE WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0231	34272	BIS (CHLOROMETHYL) ETHER WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34273	BIS (2-CHLOROETHYL) ETHER TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34276	BIS (2-CHLOROETHYL) ETHER DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34277	BIS (2-CHLOROETHYL) ETHER WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34278	BIS (2-CHLOROETHOXY) METHANE TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34281	BIS (2-CHLOROETHOXY) METHANE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34282	BIS (2-CHLOROETHOXY) METHANE WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34283	BIS (2-CHLOROISOPROPYL) ETHER TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34286	BIS (2-CHLOROISOPROPYL) ETHER DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34287	BIS (2-CHLOROISOPROPYL) ETHER WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34292	N-BUTYL BENZYL PHTHALATE,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1
GRSM0230	34295	N-BUTYL BENZYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	06/05/80-06/05/80	0	1
GRSM0231	34296	N-BUTYL BENZYL PHTHALATE,TISSUE,WET WGT,MG/KG	06/09/80-06/09/80	0	1
GRSM0230	34301	CHLOROBENZENE TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34306	CHLORODIBROMOMETHANE TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34311	CHLOROETHANE TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34320	CHRYSENE TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34323	CHRYSENE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34324	CHRYSENE WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0231	34326	CYANIDE WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34336	DIETHYL PHTHALATE TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34339	DIETHYL PHTHALATE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34340	DIETHYL PHTHALATE WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34341	DIMETHYL PHTHALATE TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34344	DIMETHYL PHTHALATE DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34345	DIMETHYL PHTHALATE WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34346	1,2-DIPHENYLHYDRAZINE TOTWUG/L	06/05/80-06/05/80	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0230	34349	1,2-DIPHENYLHYDRAZINE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34350	1,2-DIPHENYLHYDRAZINE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34351	ENDOSULFAN SULFATE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0003	34354	ENDOSULFAN SULFATE	DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1
GRSM0020	34354	ENDOSULFAN SULFATE	DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1
GRSM0069	34354	ENDOSULFAN SULFATE	DRY WGTBOTUG/KG	08/16/93-08/16/93	0	2
GRSM0230	34354	ENDOSULFAN SULFATE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0005	34355	ENDOSULFAN SULFATE	WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34355	ENDOSULFAN SULFATE	WET WGTTISMG/KG	11/17/93-11/17/93	0	1
GRSM0035	34355	ENDOSULFAN SULFATE	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0069	34355	ENDOSULFAN SULFATE	WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0231	34355	ENDOSULFAN SULFATE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34356	ENDOSULFAN, BETA	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0003	34359	ENDOSULFAN, BETA	DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1
GRSM0020	34359	ENDOSULFAN, BETA	DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1
GRSM0069	34359	ENDOSULFAN, BETA	DRY WGTBOTUG/KG	08/16/93-08/16/93	0	2
GRSM0230	34359	ENDOSULFAN, BETA	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0005	34360	ENDOSULFAN, BETA	WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34360	ENDOSULFAN, BETA	WET WGTTISMG/KG	11/17/93-11/17/93	0	1
GRSM0035	34360	ENDOSULFAN, BETA	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0069	34360	ENDOSULFAN, BETA	WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0231	34360	ENDOSULFAN, BETA	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34361	ENDOSULFAN, ALPHA	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0003	34364	ENDOSULFAN, ALPHA	DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1
GRSM0020	34364	ENDOSULFAN, ALPHA	DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1
GRSM0069	34364	ENDOSULFAN, ALPHA	DRY WGTBOTUG/KG	08/16/93-08/16/93	0	2
GRSM0230	34364	ENDOSULFAN, ALPHA	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0005	34365	ENDOSULFAN, ALPHA	WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34365	ENDOSULFAN, ALPHA	WET WGTTISMG/KG	11/17/93-11/17/93	0	1
GRSM0035	34365	ENDOSULFAN, ALPHA	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0069	34365	ENDOSULFAN, ALPHA	WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0231	34365	ENDOSULFAN, ALPHA	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34366	ENDRIN ALDEHYDE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0003	34369	ENDRIN ALDEHYDE	DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1
GRSM0020	34369	ENDRIN ALDEHYDE	DRY WGTBOTUG/KG	08/16/93-08/16/93	0	1
GRSM0069	34369	ENDRIN ALDEHYDE	DRY WGTBOTUG/KG	08/16/93-08/16/93	0	2
GRSM0230	34369	ENDRIN ALDEHYDE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0005	34370	ENDRIN ALDEHYDE	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0035	34370	ENDRIN ALDEHYDE	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0231	34370	ENDRIN ALDEHYDE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34371	ETHYLBENZENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34376	FLUORANTHENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34379	FLUORANTHENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34380	FLUORANTHENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34381	FLUORENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34384	FLUORENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34385	FLUORENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34386	HEXACHLOROCYCLOPENTADIENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34389	HEXACHLOROCYCLOPENTADIENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34390	HEXACHLOROCYCLOPENTADIENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0188	34395	HEXACHLOROBUTADIENE	WET WGTTISMG/KG	10/17/84-10/17/84	0	1
GRSM0231	34395	HEXACHLOROBUTADIENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34396	HEXACHLOROETHANE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34399	HEXACHLOROETHANE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34400	HEXACHLOROETHANE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34403	INDENO (1,2,3-CD) PYRENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34406	INDENO (1,2,3-CD) PYRENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34407	INDENO (1,2,3-CD) PYRENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34411	ISOPHORONE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34412	ISOPHORONE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34413	METHYL BROMIDE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34418	METHYL CHLORIDE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34423	METHYLENE CHLORIDE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34428	N-NITROSODI-N-PROPYLAMINE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34431	N-NITROSODI-N-PROPYLAMINE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34432	N-NITROSODI-N-PROPYLAMINE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34433	N-NITROSODIPHENYLAMINE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34436	N-NITROSODIPHENYLAMINE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34437	N-NITROSODIPHENYLAMINE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0231	34442	N-NITROSODIMETHYLAMINE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34445	NAPHTHALENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34446	NAPHTHALENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0230	34447	NITROBENZENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34450	NITROBENZENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34451	NITROBENZENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34452	PARACHLOROMETA CRESOL	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34455	PARACHLOROMETA CRESOL	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34456	PARACHLOROMETA CRESOL	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34461	PHENANTHRENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34464	PHENANTHRENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34465	PHENANTHRENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0231	34468	PHENOL	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34469	PYRENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34472	PYRENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34473	PYRENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0005	34474	SILVER	WET WGTTISMG/KG	09/23/87-11/25/88	1	3
GRSM0035	34474	SILVER	WET WGTTISMG/KG	09/23/87-11/25/88	1	3
GRSM0231	34474	SILVER	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34475	TETRACHLOROETHYLENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34488	TRICHLOROFLUOROMETHANE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34496	1,1-DICHLOROETHANE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34501	1,1-DICHLOROETHYLENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34506	1,1,1-TRICHLOROETHANE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34511	1,1,2-TRICHLOROETHANE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34516	1,1,2,2-TETRACHLOROETHANE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34521	BENZO(GHI)PERYLENE1,12-BENZOPERYLENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34524	BENZO(GHI)PERYLENE1,12-BENZOPERYLENDRY	WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34525	BENZO(GHI)PERYLENE1,12-BENZOPERYLENWET	WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34526	BENZO(A)ANTHRACENE1,2-BENZANTHRACENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34529	BENZO(A)ANTHRACENE1,2-BENZANTHRACENDRY	WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34530	BENZO(A)ANTHRACENE1,2-BENZANTHRACENWET	WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34536	1,2-DICHLOROBENZENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34539	1,2-DICHLOROBENZENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34540	1,2-DICHLOROBENZENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34541	1,2-DICHLOROPROPANE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34546	TRANS-1,2-DICHLOROETHENE, TOTAL, IN WATER	UG/L	06/05/80-06/05/80	0	1
GRSM0230	34551	1,2,4-TRICHLOROBENZENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34554	1,2,4-TRICHLOROBENZENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0188	34555	1,2,4-TRICHLOROBENZENE	WET WGTTISMG/KG	10/17/84-10/17/84	0	1
GRSM0231	34555	1,2,4-TRICHLOROBENZENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34556	1,2,5,6-DIBENZANTHRACENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34559	1,2,5,6-DIBENZANTHRACENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34560	1,2,5,6-DIBENZANTHRACENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34561	1,3-DICHLOROPROPENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34566	1,3-DICHLOROBENZENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34569	1,3-DICHLOROBENZENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34570	1,3-DICHLOROBENZENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34571	1,4-DICHLOROBENZENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34574	1,4-DICHLOROBENZENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34575	1,4-DICHLOROBENZENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34576	2-CHLOROETHYL VINYL ETHER	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34581	2-CHLORONAPHTHALENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34584	2-CHLORONAPHTHALENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34585	2-CHLORONAPHTHALENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34586	2-CHLOROPHENOL	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34589	2-CHLOROPHENOL	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34590	2-CHLOROPHENOL	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34591	2-NITROPHENOL	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34594	2-NITROPHENOL	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34595	2-NITROPHENOL	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34596	DI-N-OCTYL PHTHALATE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34599	DI-N-OCTYL PHTHALATE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34600	DI-N-OCTYL PHTHALATE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34601	2,4-DICHLOROPHENOL	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34604	2,4-DICHLOROPHENOL	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34605	2,4-DICHLOROPHENOL	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34606	2,4-DIMETHYLPHENOL	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34609	2,4-DIMETHYLPHENOL	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34610	2,4-DIMETHYLPHENOL	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34611	2,4-DINITROTOLUENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34614	2,4-DINITROTOLUENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34615	2,4-DINITROTOLUENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34616	2,4-DINITROPHENOL	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34619	2,4-DINITROPHENOL	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0231	34620	2,4-DINITROPHENOL	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34621	2,4,6-TRICHLOROPHENOL	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34624	2,4,6-TRICHLOROPHENOL	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34625	2,4,6-TRICHLOROPHENOL	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34626	2,6-DINITROTOLUENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34629	2,6-DINITROTOLUENE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34630	2,6-DINITROTOLUENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34631	3,3'-DICHLOROBENZIDINE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34634	3,3'-DICHLOROBENZIDINE	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34635	3,3'-DICHLOROBENZIDINE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34636	4-BROMOPHENYL PHENYL ETHER	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34639	4-BROMOPHENYL PHENYL ETHER	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34640	4-BROMOPHENYL PHENYL ETHER	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34641	4-CHLOROPHENYL PHENYL ETHER	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34644	4-CHLOROPHENYL PHENYL ETHER	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34645	4-CHLOROPHENYL PHENYL ETHER	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34646	4-NITROPHENOL	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34649	4-NITROPHENOL	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34650	4-NITROPHENOL	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34657	DNOC (4,6-DINITRO-ORTHO-CRESOL)	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34660	DNOC (4,6-DINITRO-ORTHO-CRESOL)	DRY WGTBOTUG/KG	06/05/80-06/05/80	0	1
GRSM0231	34661	DNOC (4,6-DINITRO-ORTHO-CRESOL)	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0005	34664	PCB - 1221	WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34664	PCB - 1221	WET WGTTISMG/KG	11/17/93-11/17/93	0	1
GRSM0035	34664	PCB - 1221	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0069	34664	PCB - 1221	WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0083	34664	PCB - 1221	WET WGTTISMG/KG	02/25/87-02/25/87	0	5
GRSM0096	34664	PCB - 1221	WET WGTTISMG/KG	02/11/87-02/11/87	0	1
GRSM0231	34664	PCB - 1221	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0005	34667	PCB - 1232	WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34667	PCB - 1232	WET WGTTISMG/KG	11/17/93-11/17/93	0	1
GRSM0035	34667	PCB - 1232	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0069	34667	PCB - 1232	WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0083	34667	PCB - 1232	WET WGTTISMG/KG	02/25/87-02/25/87	0	5
GRSM0096	34667	PCB - 1232	WET WGTTISMG/KG	02/11/87-02/11/87	0	1
GRSM0231	34667	PCB - 1232	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34668	DICHLORODIFUOROMETHANE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0005	34669	PCB - 1248	WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34669	PCB - 1248	WET WGTTISMG/KG	11/17/93-11/17/93	0	1
GRSM0035	34669	PCB - 1248	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0069	34669	PCB - 1248	WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0083	34669	PCB - 1248	WET WGTTISMG/KG	02/25/87-02/25/87	0	5
GRSM0096	34669	PCB - 1248	WET WGTTISMG/KG	02/11/87-02/11/87	0	1
GRSM0231	34669	PCB - 1248	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0005	34670	PCB - 1260	WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34670	PCB - 1260	WET WGTTISMG/KG	11/17/93-11/17/93	0	1
GRSM0035	34670	PCB - 1260	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0069	34670	PCB - 1260	WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0083	34670	PCB - 1260	WET WGTTISMG/KG	02/25/87-02/25/87	0	5
GRSM0096	34670	PCB - 1260	WET WGTTISMG/KG	02/11/87-02/11/87	0	1
GRSM0231	34670	PCB - 1260	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34671	PCB - 1016	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0005	34674	PCB - 1016	WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34674	PCB - 1016	WET WGTTISMG/KG	11/17/93-11/17/93	0	1
GRSM0035	34674	PCB - 1016	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0069	34674	PCB - 1016	WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0083	34674	PCB - 1016	WET WGTTISMG/KG	02/25/87-02/25/87	0	5
GRSM0096	34674	PCB - 1016	WET WGTTISMG/KG	02/11/87-02/11/87	0	1
GRSM0231	34674	PCB - 1016	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0005	34680	ALDRIN IN FISH TISSUE	WET WEIGHT MG/KG	09/23/87-11/16/93	6	4
GRSM0020	34680	ALDRIN IN FISH TISSUE	WET WEIGHT MG/KG	11/17/93-11/17/93	0	1
GRSM0035	34680	ALDRIN IN FISH TISSUE	WET WEIGHT MG/KG	09/23/87-11/25/88	1	2
GRSM0055	34680	ALDRIN IN FISH TISSUE	WET WEIGHT MG/KG	02/22/82-02/22/82	0	2
GRSM0069	34680	ALDRIN IN FISH TISSUE	WET WEIGHT MG/KG	12/01/92-11/18/93	0	2
GRSM0231	34680	ALDRIN IN FISH TISSUE	WET WEIGHT MG/KG	06/09/80-06/09/80	0	1
GRSM0256	34680	ALDRIN IN FISH TISSUE	WET WEIGHT MG/KG	02/23/82-02/23/82	0	1
GRSM0231	34682	CHLORDANE(TECH MIX & METABS),TISSUEWET	WGTT,MG/KG	06/09/80-06/09/80	0	1
GRSM0231	34683	DI-N-BUTYL PHTHALATE,TISSUE,WET	WGTWET WGT	06/09/80-06/09/80	0	1
GRSM0055	34684	DIELDRIN	TISMG/KG	02/22/82-02/22/82	0	2
GRSM0256	34684	DIELDRIN	TISMG/KG	02/23/82-02/23/82	0	1
GRSM0005	34685	ENDRIN	WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34685	ENDRIN	WET WGTTISMG/KG	11/17/93-11/17/93	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0035	34685	ENDRIN	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0055	34685	ENDRIN	WET WGTTISMG/KG	07/15/81-02/22/82	0	3
GRSM0069	34685	ENDRIN	WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0188	34685	ENDRIN	WET WGTTISMG/KG	10/17/84-10/17/84	0	1
GRSM0231	34685	ENDRIN	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0256	34685	ENDRIN	WET WGTTISMG/KG	02/23/82-02/23/82	0	1
GRSM0005	34686	HEPTACHLOR EPOXIDE	WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34686	HEPTACHLOR EPOXIDE	WET WGTTISMG/KG	11/17/93-11/17/93	0	1
GRSM0035	34686	HEPTACHLOR EPOXIDE	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0069	34686	HEPTACHLOR EPOXIDE	WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0188	34686	HEPTACHLOR EPOXIDE	WET WGTTISMG/KG	10/17/84-10/17/84	0	1
GRSM0231	34686	HEPTACHLOR EPOXIDE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0005	34687	HEPTACHLOR	WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34687	HEPTACHLOR	WET WGTTISMG/KG	11/17/93-11/17/93	0	1
GRSM0035	34687	HEPTACHLOR	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0069	34687	HEPTACHLOR	WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0188	34687	HEPTACHLOR	WET WGTTISMG/KG	10/17/84-10/17/84	0	1
GRSM0231	34687	HEPTACHLOR	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0055	34688	HEXACHLOROBENZENE	WET WGTTISMG/KG	07/15/81-02/22/82	0	3
GRSM0188	34688	HEXACHLOROBENZENE	WET WGTTISMG/KG	10/17/84-10/17/84	0	1
GRSM0231	34688	HEXACHLOROBENZENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0256	34688	HEXACHLOROBENZENE	WET WGTTISMG/KG	02/23/82-02/23/82	0	1
GRSM0005	34689	PCB - 1242	WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34689	PCB - 1242	WET WGTTISMG/KG	11/17/93-11/17/93	0	1
GRSM0035	34689	PCB - 1242	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0069	34689	PCB - 1242	WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0083	34689	PCB - 1242	WET WGTTISMG/KG	02/25/87-02/25/87	0	5
GRSM0096	34689	PCB - 1242	WET WGTTISMG/KG	02/11/87-02/11/87	0	1
GRSM0231	34689	PCB - 1242	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0005	34690	PCB - 1254	WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34690	PCB - 1254	WET WGTTISMG/KG	11/17/93-11/17/93	0	1
GRSM0035	34690	PCB - 1254	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0069	34690	PCB - 1254	WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0083	34690	PCB - 1254	WET WGTTISMG/KG	02/25/87-02/25/87	0	5
GRSM0096	34690	PCB - 1254	WET WGTTISMG/KG	02/11/87-02/11/87	0	1
GRSM0231	34690	PCB - 1254	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0005	34691	TOXAPHENE	WET WGTTISMG/KG	09/23/87-11/16/93	6	4
GRSM0020	34691	TOXAPHENE	WET WGTTISMG/KG	11/17/93-11/17/93	0	1
GRSM0035	34691	TOXAPHENE	WET WGTTISMG/KG	09/23/87-11/25/88	1	2
GRSM0069	34691	TOXAPHENE	WET WGTTISMG/KG	12/01/92-11/18/93	0	2
GRSM0231	34691	TOXAPHENE	WET WGTTISMG/KG	06/09/80-06/09/80	0	1
GRSM0230	34694	PHENOL(C6H5OH)-SINGLE COMPOUND	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0230	34695	PHENOL(C6H5OH)-SINGLE COMPOUND	DRY WGTTUG/KG	06/05/80-06/05/80	0	1
GRSM0230	34696	NAPHTHALENE	TOTWUG/L	06/05/80-06/05/80	0	1
GRSM0188	34754	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	TISWETWTPG/G	10/17/84-10/17/84	0	3
GRSM0056	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)		05/21/68-05/24/72	4	11
GRSM0184	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)		11/17/70-05/29/79	8	37
GRSM0214	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)		05/05/78-05/05/78	0	1
GRSM0216	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)		05/04/78-05/04/78	0	1
GRSM0217	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)		05/06/78-05/06/78	0	1
GRSM0249	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)		09/11/68-03/28/73	4	27
GRSM0256	38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)		05/16/68-11/14/73	5	30
GRSM0188	38824	ISOPROPALIN	TISWETWGTMG/KG	10/17/84-10/17/84	0	1
GRSM0230	39032	PCP (PENTACHLOROPHENOL) WHOLE WATER SAMPLE	UG/L	06/05/80-06/05/80	0	1
GRSM0184	39034	PERTHANE IN WHOLE WATER SAMPLE (UG/L)		11/29/78-09/08/82	3	4
GRSM0055	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT	UG/G	07/15/81-02/22/82	0	3
GRSM0231	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT	UG/G	06/09/80-06/09/80	0	1
GRSM0256	39060	PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT	UG/G	02/23/82-02/23/82	0	1
GRSM0185	39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL	UG/KG	06/26/81-06/26/81	0	1
GRSM0230	39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL	UG/KG	06/05/80-06/05/80	0	1
GRSM0256	39061	PCP (PENTACHLOROPHENOL) IN BOT DEPOS DRY SOL	UG/KG	06/26/81-02/23/82	0	2
GRSM0005	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)		09/23/87-11/25/88	1	2
GRSM0035	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)		09/23/87-11/25/88	1	2
GRSM0055	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)		02/22/82-02/22/82	0	2
GRSM0188	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)		10/17/84-10/17/84	0	1
GRSM0256	39063	CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)		02/23/82-02/23/82	0	1
GRSM0055	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL		07/15/81-07/15/81	0	1
GRSM0151	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL		11/28/78-11/28/78	0	1
GRSM0155	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL		11/28/78-11/28/78	0	1
GRSM0157	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL		11/28/78-11/28/78	0	1
GRSM0185	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL		11/28/78-10/17/84	5	3
GRSM0189	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL		11/28/78-11/28/78	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0256	39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	06/26/81-02/23/82	0	2
GRSM0005	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	09/23/87-11/16/93	6	4
GRSM0020	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	11/17/93-11/17/93	0	1
GRSM0035	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	09/23/87-11/25/88	1	2
GRSM0055	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	02/22/82-02/22/82	0	2
GRSM0069	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	12/01/92-11/18/93	0	2
GRSM0188	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	10/17/84-10/17/84	0	1
GRSM0256	39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	02/23/82-02/23/82	0	1
GRSM0055	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	07/15/81-07/15/81	0	1
GRSM0151	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	11/28/78-11/28/78	0	1
GRSM0155	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	11/28/78-11/28/78	0	1
GRSM0157	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	11/28/78-11/28/78	0	1
GRSM0185	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	11/28/78-10/17/84	5	3
GRSM0189	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	11/28/78-11/28/78	0	1
GRSM0256	39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	06/26/81-02/23/82	0	2
GRSM0005	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	09/23/87-09/23/87	0	1
GRSM0035	39069	CHLORDANE-NONACHLOR,CIS ISO,TISSUE WET WGT(UG/G)	09/23/87-09/23/87	0	1
GRSM0005	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	09/23/87-09/23/87	0	1
GRSM0035	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	09/23/87-09/23/87	0	1
GRSM0055	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	02/22/82-02/22/82	0	2
GRSM0256	39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	02/23/82-02/23/82	0	1
GRSM0055	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	07/15/81-07/15/81	0	1
GRSM0151	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	11/28/78-11/28/78	0	1
GRSM0155	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	11/28/78-11/28/78	0	1
GRSM0157	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	11/28/78-11/28/78	0	1
GRSM0185	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	11/28/78-10/17/84	5	3
GRSM0189	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	11/28/78-11/28/78	0	1
GRSM0256	39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	06/26/81-02/23/82	0	2
GRSM0005	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	09/23/87-11/16/93	6	4
GRSM0020	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	11/17/93-11/17/93	0	1
GRSM0035	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	09/23/87-11/25/88	1	2
GRSM0055	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	07/15/81-02/22/82	0	3
GRSM0069	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	12/01/92-11/18/93	0	2
GRSM0188	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	10/17/84-10/17/84	0	1
GRSM0231	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	06/09/80-06/09/80	0	1
GRSM0256	39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	02/23/82-02/23/82	0	1
GRSM0055	39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	07/15/81-02/22/82	0	3
GRSM0256	39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	02/23/82-02/23/82	0	1
GRSM0003	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	08/16/93-08/16/93	0	1
GRSM0020	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	08/16/93-08/16/93	0	1
GRSM0069	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	08/16/93-08/16/93	0	2
GRSM0151	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	11/28/78-11/28/78	0	1
GRSM0155	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	11/28/78-11/28/78	0	1
GRSM0157	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	11/28/78-11/28/78	0	1
GRSM0185	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	11/28/78-10/17/84	5	3
GRSM0189	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	11/28/78-11/28/78	0	1
GRSM0230	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	06/05/80-06/05/80	0	1
GRSM0256	39076	BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	06/26/81-02/23/82	0	2
GRSM0182	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	10/29/86-11/22/94	8	31
GRSM0184	39086	ALKALINITY,WATER,DISS,INCR TIT,FIELD,AS CACO3,MG/L	12/07/87-05/11/93	5	23
GRSM0231	39099	BIS(2-ETHYLHEXYL)PHTHALATE,TISSUE,WET WGT,MG/KG	06/09/80-06/09/80	0	1
GRSM0230	39100	BIS(2-ETHYLHEXYL) PHTHALATE,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1
GRSM0230	39102	BIS(2-ETHYLHEXYL) PHTHALATE,SEDIMENT,DRY WGT,UG/KG	06/05/80-06/05/80	0	1
GRSM0230	39110	DI-N-BUTYL PHTHALATE,WHOLE WATER,UG/L	06/05/80-06/05/80	0	1
GRSM0230	39112	DI-N-BUTYL PHTHALATE,SEDIMENTS,DRY WGT,UG/KG	06/05/80-06/05/80	0	1
GRSM0230	39120	BENZIDINE IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1
GRSM0230	39121	BENZIDINE IN BOTTOM DEPOS UG/KG DRY SOLIDS	06/05/80-06/05/80	0	1
GRSM0230	39175	VINYL CHLORIDE-WHOLE WATER SAMPLE-UG/L	06/05/80-06/05/80	0	1
GRSM0230	39180	TRICHLOROETHYLENE-WHOLE WATER SAMPLE-UG/L	06/05/80-06/05/80	0	1
GRSM0184	39250	NAPTHALENES, POLYCHLORINATED (UG/L)	10/19/76-09/08/82	5	6
GRSM0184	39251	PCNS IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	10/15/80-09/08/82	1	2
GRSM0055	39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	02/22/82-02/22/82	0	2
GRSM0256	39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	02/23/82-02/23/82	0	1
GRSM0230	39300	P,P' DDT IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1
GRSM0003	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	1
GRSM0020	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	1
GRSM0055	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	0	1
GRSM0069	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	2
GRSM0151	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0155	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0157	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0185	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0189	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0230	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/05/80-06/05/80	0	1
GRSM0256	39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2
GRSM0005	39302	P P DDT IN TISSUE WET WGT (UG/G)	09/23/87-11/16/93	6	4
GRSM0020	39302	P P DDT IN TISSUE WET WGT (UG/G)	11/17/93-11/17/93	0	1
GRSM0035	39302	P P DDT IN TISSUE WET WGT (UG/G)	09/23/87-11/25/88	1	2
GRSM0055	39302	P P DDT IN TISSUE WET WGT (UG/G)	02/22/82-02/22/82	0	2
GRSM0069	39302	P P DDT IN TISSUE WET WGT (UG/G)	12/01/92-11/18/93	0	2
GRSM0231	39302	P P DDT IN TISSUE WET WGT (UG/G)	06/09/80-06/09/80	0	1
GRSM0256	39302	P P DDT IN TISSUE WET WGT (UG/G)	02/23/82-02/23/82	0	1
GRSM0055	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	0	1
GRSM0151	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0155	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0157	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0185	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3
GRSM0189	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0256	39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2
GRSM0230	39310	P,P' DDD IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1
GRSM0003	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	1
GRSM0020	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	1
GRSM0055	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	0	1
GRSM0069	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	2
GRSM0151	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0155	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0157	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0185	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3
GRSM0189	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0230	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/05/80-06/05/80	0	1
GRSM0256	39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2
GRSM0005	39312	P P DDD IN TISSUE WET WGT (UG/G)	09/23/87-11/16/93	6	4
GRSM0020	39312	P P DDD IN TISSUE WET WGT (UG/G)	11/17/93-11/17/93	0	1
GRSM0035	39312	P P DDD IN TISSUE WET WGT (UG/G)	09/23/87-11/25/88	1	2
GRSM0055	39312	P P DDD IN TISSUE WET WGT (UG/G)	02/22/82-02/22/82	0	2
GRSM0069	39312	P P DDD IN TISSUE WET WGT (UG/G)	12/01/92-11/18/93	0	2
GRSM0231	39312	P P DDD IN TISSUE WET WGT (UG/G)	06/09/80-06/09/80	0	1
GRSM0256	39312	P P DDD IN TISSUE WET WGT (UG/G)	02/23/82-02/23/82	0	1
GRSM0055	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	0	1
GRSM0151	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0155	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0157	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0185	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3
GRSM0189	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0256	39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2
GRSM0055	39318	O,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	02/22/82-02/22/82	0	2
GRSM0256	39318	O,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	02/23/82-02/23/82	0	1
GRSM0188	39319	MONOCHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0230	39320	P,P' DDE IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1
GRSM0003	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	1
GRSM0020	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	1
GRSM0055	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	0	1
GRSM0069	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	0	2
GRSM0151	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0155	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0157	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0185	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3
GRSM0189	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0230	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/05/80-06/05/80	0	1
GRSM0256	39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2
GRSM0005	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	09/23/87-11/16/93	6	4
GRSM0020	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	11/17/93-11/17/93	0	1
GRSM0035	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	09/23/87-11/25/88	1	2
GRSM0055	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	02/22/82-02/22/82	0	2
GRSM0069	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	12/01/92-11/18/93	0	2
GRSM0188	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	10/17/84-10/17/84	0	1
GRSM0231	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	06/09/80-06/09/80	0	1
GRSM0256	39322	P,P'-DDE IN TISSUE WET WGT MG/KG	02/23/82-02/23/82	0	1
GRSM0055	39325	O,P DDD IN TISSUE WET WGT (UG/G)	02/22/82-02/22/82	0	2
GRSM0256	39325	O,P DDD IN TISSUE WET WGT (UG/G)	02/23/82-02/23/82	0	1
GRSM0055	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	0	1
GRSM0151	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0155	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0157	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0185	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3
GRSM0189	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0256	39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2
GRSM0055	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	02/22/82-02/22/82	0	2
GRSM0256	39329	O,P DDE IN TISSUE, WET WGT(UG/G)	02/23/82-02/23/82	0	1
GRSM0184	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	13
GRSM0230	39330	ALDRIN IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1
GRSM0003	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	1
GRSM0020	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	1
GRSM0055	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/15/81-07/15/81	0	1
GRSM0069	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	2
GRSM0151	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0155	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0157	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0184	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	11	10
GRSM0185	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-10/17/84	5	3
GRSM0189	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0230	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/05/80-06/05/80	0	1
GRSM0256	39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/26/81-02/23/82	0	2
GRSM0188	39335	DICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0230	39337	ALPHA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/05/80-06/05/80	0	1
GRSM0230	39338	BETA BENZENE HEXACHLORIDE IN WHOLE WATER SAMP	06/05/80-06/05/80	0	1
GRSM0188	39339	TRICHLOROBIPHENYL,TOTAL, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0184	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	04/15/69-09/08/82	13	11
GRSM0230	39340	GAMMA-BHC(LINDANE),WHOLE WATER,UG/L	06/05/80-06/05/80	0	1
GRSM0003	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	0	1
GRSM0020	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	0	1
GRSM0069	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	0	2
GRSM0184	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	10/13/70-09/08/82	11	10
GRSM0230	39343	GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	06/05/80-06/05/80	0	1
GRSM0188	39345	TETRACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0188	39347	PENTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0184	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	10/13/70-09/08/82	11	10
GRSM0230	39350	CHLORDANE(TECH MIX & METABS),WHOLE WATER,UG/L	06/05/80-06/05/80	0	1
GRSM0003	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	0	1
GRSM0020	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	0	1
GRSM0069	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	0	2
GRSM0184	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	10/13/70-09/08/82	11	10
GRSM0230	39351	CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	06/05/80-06/05/80	0	1
GRSM0188	39354	HEPTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0188	39355	OCTACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0184	39360	DDD IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	13
GRSM0184	39363	DDD IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	11	10
GRSM0184	39365	DDE IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	13
GRSM0184	39368	DDE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	11	10
GRSM0184	39370	DDT IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	13
GRSM0055	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/15/81-07/15/81	0	1
GRSM0184	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	11	10
GRSM0185	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/26/81-10/17/84	3	2
GRSM0256	39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/26/81-02/23/82	0	2
GRSM0184	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	13
GRSM0230	39380	DIELDRIN IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1
GRSM0003	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	0	1
GRSM0020	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	0	1
GRSM0055	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/15/81-07/15/81	0	1
GRSM0069	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	0	2
GRSM0151	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/28/78-11/28/78	0	1
GRSM0155	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/28/78-11/28/78	0	1
GRSM0157	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/28/78-11/28/78	0	1
GRSM0184	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/13/70-09/08/82	11	10
GRSM0185	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/28/78-10/17/84	5	3
GRSM0189	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	11/28/78-11/28/78	0	1
GRSM0230	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/05/80-06/05/80	0	1
GRSM0256	39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/26/81-02/23/82	0	2
GRSM0184	39388	ENDOSULFAN IN WHOLE WATER SAMPLE (UG/L)	09/08/78-09/08/82	4	5
GRSM0184	39389	ENDOSULFAN IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/15/80-09/08/82	1	2
GRSM0184	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	13
GRSM0230	39390	ENDRIN IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1
GRSM0003	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	1
GRSM0020	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	1
GRSM0069	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	2
GRSM0151	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0155	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0157	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0184	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	11	10
GRSM0185	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-10/17/84	5	3
GRSM0189	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0230	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/05/80-06/05/80	0	1
GRSM0256	39393	ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	06/26/81-02/23/82	0	2
GRSM0184	39398	ETHION IN WHOLE WATER SAMPLE (UG/L)	10/02/75-09/08/82	6	6
GRSM0184	39399	ETHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	09/08/78-11/29/78	0	2
GRSM0184	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	10/02/75-09/08/82	6	7
GRSM0230	39400	TOXAPHENE IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1
GRSM0003	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	0	1
GRSM0020	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	0	1
GRSM0069	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	0	2
GRSM0184	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	10/02/75-09/08/82	6	7
GRSM0230	39403	TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	06/05/80-06/05/80	0	1
GRSM0005	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	09/23/87-11/16/93	6	4
GRSM0020	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	11/17/93-11/17/93	0	1
GRSM0035	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	09/23/87-11/25/88	1	2
GRSM0069	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	12/01/92-11/18/93	0	2
GRSM0188	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	10/17/84-10/17/84	0	1
GRSM0231	39404	DIELDRIN IN TISSUE WET WGT (UG/G)	06/09/80-06/09/80	0	1
GRSM0188	39408	NONACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0188	39409	DECACHLOROBIPHENYL,TOT, TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0184	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	13
GRSM0230	39410	HEPTACHLOR IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1
GRSM0003	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	1
GRSM0020	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	1
GRSM0069	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	0	2
GRSM0184	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	10/13/70-09/08/82	11	10
GRSM0230	39413	HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	06/05/80-06/05/80	0	1
GRSM0184	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	10/03/67-09/08/82	14	12
GRSM0230	39420	HEPTACHLOR EPOXIDE IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1
GRSM0003	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/16/93-08/16/93	0	1
GRSM0020	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/16/93-08/16/93	0	1
GRSM0069	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/16/93-08/16/93	0	2
GRSM0184	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	10/13/70-09/08/82	11	10
GRSM0230	39423	HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	06/05/80-06/05/80	0	1
GRSM0184	39480	METHOXYCHLOR IN WHOLE WATER SAMPLE (UG/L)	09/08/78-09/08/82	4	5
GRSM0003	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/16/93-08/16/93	0	1
GRSM0020	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/16/93-08/16/93	0	1
GRSM0069	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/16/93-08/16/93	0	2
GRSM0151	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/28/78-11/28/78	0	1
GRSM0155	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/28/78-11/28/78	0	1
GRSM0157	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/28/78-11/28/78	0	1
GRSM0184	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	10/19/76-09/08/82	5	6
GRSM0185	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/28/78-10/17/84	5	3
GRSM0189	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	11/28/78-11/28/78	0	1
GRSM0256	39481	METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	06/26/81-02/23/82	0	2
GRSM0055	39482	METHOXYCHLOR IN FISH - UG/KG	07/15/81-02/22/82	0	3
GRSM0256	39482	METHOXYCHLOR IN FISH - UG/KG	02/23/82-02/23/82	0	1
GRSM0230	39488	PCB - 1221 IN THE WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	0	1
GRSM0003	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	1
GRSM0020	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	1
GRSM0069	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	2
GRSM0082	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/06/86-10/06/86	0	1
GRSM0104	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/06/86-10/06/86	0	2
GRSM0230	39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	06/05/80-06/05/80	0	1
GRSM0230	39492	PCB - 1232 PCB SERIES WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	0	1
GRSM0003	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	1
GRSM0020	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	1
GRSM0069	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	2
GRSM0082	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	0	1
GRSM0104	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	0	2
GRSM0230	39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	06/05/80-06/05/80	0	1
GRSM0230	39496	PCB - 1242 PCB SERIES WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	0	1
GRSM0003	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	1
GRSM0020	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	1
GRSM0069	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	0	2
GRSM0082	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	0	1
GRSM0104	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	0	2
GRSM0230	39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	06/05/80-06/05/80	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0230	39500	PCB - 1248 PCB SERIES WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	0	1
GRSM0003	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	1
GRSM0020	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	1
GRSM0069	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	2
GRSM0082	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	0	1
GRSM0104	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	0	2
GRSM0230	39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/05/80-06/05/80	0	1
GRSM0230	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	0	1
GRSM0249	39504	PCB - 1254 PCB SERIES WHOLE WATER SAMPLE UG/L	07/02/70-07/02/70	0	1
GRSM0003	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	1
GRSM0020	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	1
GRSM0069	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	2
GRSM0082	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	0	1
GRSM0104	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	0	2
GRSM0230	39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/05/80-06/05/80	0	1
GRSM0230	39508	PCB - 1260 PCB SERIES WHOLE WATER SAMPLE UG/L	06/05/80-06/05/80	0	1
GRSM0003	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	1
GRSM0020	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	1
GRSM0069	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	0	2
GRSM0082	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	0	1
GRSM0104	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	0	2
GRSM0230	39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	06/05/80-06/05/80	0	1
GRSM0003	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	08/16/93-08/16/93	0	1
GRSM0020	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	08/16/93-08/16/93	0	1
GRSM0069	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	08/16/93-08/16/93	0	2
GRSM0082	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/06/86-10/06/86	0	1
GRSM0104	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/06/86-10/06/86	0	2
GRSM0230	39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	06/05/80-06/05/80	0	1
GRSM0005	39515	PCBS (MG/KG) FISH TISSUE MG/KG	09/23/87-11/25/88	1	2
GRSM0035	39515	PCBS (MG/KG) FISH TISSUE MG/KG	09/23/87-11/25/88	1	2
GRSM0055	39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/15/81-02/22/82	0	3
GRSM0083	39515	PCBS (MG/KG) FISH TISSUE MG/KG	02/25/87-02/25/87	0	5
GRSM0096	39515	PCBS (MG/KG) FISH TISSUE MG/KG	02/11/87-02/11/87	0	1
GRSM0256	39515	PCBS (MG/KG) FISH TISSUE MG/KG	02/23/82-02/23/82	0	1
GRSM0184	39516	PCBS IN WHOLE WATER SAMPLE (UG/L)	10/11/73-09/08/82	8	8
GRSM0082	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/06/86-10/06/86	0	1
GRSM0104	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/06/86-10/06/86	0	2
GRSM0151	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0155	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0157	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0184	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/11/73-09/08/82	8	8
GRSM0185	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3
GRSM0189	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0256	39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2
GRSM0184	39530	MALATHION IN WHOLE WATER SAMPLE (UG/L)	10/13/70-09/08/82	11	9
GRSM0184	39531	MALATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-11/29/78	8	3
GRSM0184	39540	PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/13/70-09/08/82	11	9
GRSM0184	39541	PARATHION IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-11/29/78	8	3
GRSM0184	39570	DIAZINON IN WHOLE WATER SAMPLE (UG/L)	10/13/70-09/08/82	11	9
GRSM0184	39571	DIAZINON IN BOT. DEPOS. (UG/KILOGRAM DRY SOLIDS)	10/13/70-11/29/78	8	3
GRSM0184	39600	METHYL PARATHION IN WHOLE WATER SAMPLE (UG/L)	10/13/70-09/08/82	11	9
GRSM0184	39601	METHYL PARATHION IN BOT. DEPOS.(UG/KG DRY SOLIDS)	10/13/70-11/29/78	8	3
GRSM0230	39700	HEXACHLOROBENZENE IN WHOLE WATER SAMPLE (UG/L)	06/05/80-06/05/80	0	1
GRSM0151	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0155	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0157	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0185	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	11/28/78-10/17/84	5	3
GRSM0189	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	11/28/78-11/28/78	0	1
GRSM0230	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	05/05/80-06/05/80	0	1
GRSM0256	39701	HEXACHLOROBENZENE IN BOT DEPOS (UG/KG DRY SOLIDS)	06/26/81-02/23/82	0	2
GRSM0230	39702	HEXACHLOROBUTADIENE IN WHOLE WATER SAMPLE(UG/L)	06/05/80-06/05/80	0	1
GRSM0230	39705	HEXACHLOROBUTADIENE BOT. DEPOS.(UG/KG DRY WGT)	06/05/80-06/05/80	0	1
GRSM0184	39730	2,4-D IN WHOLE WATER SAMPLE (UG/L)	06/13/68-09/08/82	14	10
GRSM0184	39740	2,4,5-T IN WHOLE WATER SAMPLE (UG/L)	06/13/68-09/08/82	14	10
GRSM0184	39755	MIREX, TOTAL (UG/L)	09/08/78-09/08/82	4	5
GRSM0184	39758	MIREX, BOTTOM MATERIAL (UG/KG DRY SOLIDS)	10/15/80-09/08/82	1	2
GRSM0184	39760	SILVEX IN WHOLE WATER SAMPLE (UG/L)	06/13/68-09/08/82	14	10
GRSM0005	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	09/23/87-11/16/93	6	4
GRSM0020	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	11/17/93-11/17/93	0	1
GRSM0035	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	09/23/87-11/25/88	1	2
GRSM0069	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	12/01/92-11/18/93	0	2
GRSM0188	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG	10/17/84-10/17/84	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0231	39785	GAMMA-BHC(LINDANE),TISSUE,WET WEIGHT,MG/KG		06/09/80-06/09/80	0	1
GRSM0184	39786	TRITHION IN WHOLE WATER SAMPLE (UG/L)		10/02/75-09/08/82	6	6
GRSM0184	39787	TRITHION IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)		09/08/78-11/29/78	0	2
GRSM0184	39790	METHYL TRITHION IN WHOLE WATER SAMPLE (UG/L)		10/02/75-09/08/82	6	6
GRSM0184	39791	METHYL TRITHION IN BOT DEPOS (UG/KG DRY SOLIDS)		09/08/78-11/29/78	0	2
GRSM0151	39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)		11/28/78-11/28/78	0	1
GRSM0155	39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)		11/28/78-11/28/78	0	1
GRSM0157	39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)		11/28/78-11/28/78	0	1
GRSM0185	39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)		11/28/78-11/28/78	0	1
GRSM0189	39811	CHLORDANE,GAMMA,IN BOTTOM DEPOS(UG/KG DRY SOLIDS)		11/28/78-11/28/78	0	1
GRSM0230	45513	TELLURIUM IN SEDIMENT (MG/KG AS TE DRY WT)		06/05/80-06/05/80	0	1
GRSM0230	45514	YTTRIUM IN SEDIMENT (MG/KG AS YTTRIUM DRY WT)		06/05/80-06/05/80	0	1
GRSM0005	45579	PERCENT LIPID EXTRACTABLE MATERIAL		09/23/87-11/16/93	6	4
GRSM0020	45579	PERCENT LIPID EXTRACTABLE MATERIAL		11/17/93-11/17/93	0	1
GRSM0035	45579	PERCENT LIPID EXTRACTABLE MATERIAL		09/23/87-11/25/88	1	2
GRSM0069	45579	PERCENT LIPID EXTRACTABLE MATERIAL		12/01/92-11/18/93	0	2
GRSM0083	45579	PERCENT LIPID EXTRACTABLE MATERIAL		02/25/87-02/25/87	0	5
GRSM0096	45579	PERCENT LIPID EXTRACTABLE MATERIAL		02/11/87-02/11/87	0	1
GRSM0188	46333	PENTACHLORONITROBENZENE (PCNB) IN TISSUE WET MG/KG		10/17/84-10/17/84	0	1
GRSM0021	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		06/06/66-01/31/67	0	7
GRSM0036	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		02/04/74-01/17/77	2	37
GRSM0041	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		10/18/82-10/18/82	0	1
GRSM0048	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		03/03/74-01/17/77	2	36
GRSM0054	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		02/15/77-10/24/78	1	8
GRSM0057	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		05/04/66-02/26/79	12	54
GRSM0061	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		10/19/82-10/19/82	0	1
GRSM0072	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		12/13/83-05/16/84	0	3
GRSM0077	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		10/18/82-10/18/82	0	1
GRSM0078	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		01/28/74-01/24/77	2	37
GRSM0084	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		12/02/68-12/02/68	0	1
GRSM0087	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		02/23/67-05/04/67	0	2
GRSM0094	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		03/26/82-03/26/82	0	1
GRSM0102	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		10/21/68-12/02/68	0	2
GRSM0108	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		03/26/82-03/26/82	0	1
GRSM0110	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		11/12/81-03/26/82	0	3
GRSM0111	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		12/01/81-12/01/81	0	3
GRSM0112	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		11/12/81-08/01/82	0	130
GRSM0115	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		08/11/82-08/11/82	0	1
GRSM0134	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		03/26/82-03/26/82	0	1
GRSM0136	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		11/12/81-11/12/81	0	1
GRSM0137	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		12/02/81-04/22/82	0	3
GRSM0138	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		11/12/81-03/24/82	0	3
GRSM0139	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		03/22/82-03/22/82	0	1
GRSM0142	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		12/02/81-12/02/81	0	1
GRSM0143	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		03/22/82-03/22/82	0	1
GRSM0145	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		03/22/82-03/22/82	0	1
GRSM0146	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		03/24/82-03/24/82	0	1
GRSM0148	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		03/24/82-03/24/82	0	1
GRSM0150	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		03/26/82-03/26/82	0	1
GRSM0160	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		04/20/82-04/20/82	0	1
GRSM0163	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		03/23/82-04/20/82	0	2
GRSM0167	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		04/21/82-04/21/82	0	1
GRSM0168	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		04/21/82-04/21/82	0	1
GRSM0173	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		03/25/82-03/25/82	0	1
GRSM0175	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		12/02/81-03/25/82	0	2
GRSM0202	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		01/08/68-03/18/75	7	16
GRSM0222	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		01/08/68-07/29/68	0	5
GRSM0229	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		12/13/83-05/15/84	0	3
GRSM0250	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		10/21/75-02/08/77	1	17
GRSM0258	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		11/03/71-11/03/71	0	1
GRSM0262	46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		02/23/77-10/11/78	1	8
GRSM0007	50086	SETTLEABLE MATTER (ML/L/HR)		07/25/78-07/25/78	0	1
GRSM0184	60050	ALGAE, TOTAL (CELLS/ML)		04/12/74-03/21/79	4	9
GRSM0050	70151	SURFACE AREA OF LAKE OR RESERVOIR	SQ KM	11/20/84-11/20/84	0	1
GRSM0052	70151	SURFACE AREA OF LAKE OR RESERVOIR	SQ KM	11/20/84-11/20/84	0	1
GRSM0080	70151	SURFACE AREA OF LAKE OR RESERVOIR	SQ KM	11/20/84-11/20/84	0	1
GRSM0177	70151	SURFACE AREA OF LAKE OR RESERVOIR	SQ KM	11/20/84-11/20/84	0	1
GRSM0191	70151	SURFACE AREA OF LAKE OR RESERVOIR	SQ KM	11/20/84-11/20/84	0	1
GRSM0208	70151	SURFACE AREA OF LAKE OR RESERVOIR	SQ KM	11/29/84-11/29/84	0	1
GRSM0006	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		04/25/79-09/26/79	0	12
GRSM0007	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		07/16/74-07/29/75	1	2
GRSM0008	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		04/25/79-09/26/79	0	12

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0010	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	15	72
GRSM0011	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/28/71-12/10/74	3	6
GRSM0013	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/31/75	1	8
GRSM0016	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	1	2
GRSM0022	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	1	2
GRSM0024	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/31/75	1	6
GRSM0027	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	1	2
GRSM0031	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/23/73-09/06/73	0	4
GRSM0036	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/04/74-01/17/77	2	37
GRSM0037	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/28/71-11/21/74	3	5
GRSM0048	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/03/74-12/13/76	2	35
GRSM0054	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/15/77-10/24/78	1	8
GRSM0055	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/25/73-11/21/74	1	2
GRSM0056	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/21/68-05/24/72	4	10
GRSM0057	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/28/74-06/17/80	6	55
GRSM0059	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/25/73-11/27/74	1	2
GRSM0063	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	1	3
GRSM0069	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/25/79-09/26/79	0	12
GRSM0070	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/21/73-01/29/75	1	6
GRSM0073	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/21/73-01/29/75	1	6
GRSM0074	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/06/56-04/13/62	5	8
GRSM0076	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	0	1
GRSM0078	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/28/74-01/24/77	2	37
GRSM0091	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/23/73-08/08/74	0	2
GRSM0094	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/82-03/26/82	0	1
GRSM0107	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/24/68-09/24/68	0	1
GRSM0108	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/82-03/26/82	0	1
GRSM0110	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/12/81-03/26/82	0	3
GRSM0112	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/12/81-06/21/82	0	96
GRSM0120	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/24/68-09/24/68	0	1
GRSM0134	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/82-03/26/82	0	1
GRSM0136	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/12/81-11/12/81	0	1
GRSM0137	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/02/81-04/22/82	0	3
GRSM0138	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/12/81-03/24/82	0	3
GRSM0139	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/22/82-03/22/82	0	1
GRSM0142	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/02/81-12/02/81	0	1
GRSM0143	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/22/82-03/22/82	0	1
GRSM0144	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	0	1
GRSM0145	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/22/82-03/22/82	0	1
GRSM0146	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/82-03/24/82	0	1
GRSM0148	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/24/82-03/24/82	0	1
GRSM0150	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/82-03/26/82	0	1
GRSM0160	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/20/82-04/20/82	0	1
GRSM0161	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	0	1
GRSM0163	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/23/82-04/20/82	0	2
GRSM0164	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	0	1
GRSM0167	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/82-04/21/82	0	1
GRSM0168	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/21/82-04/21/82	0	1
GRSM0173	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/25/82-03/25/82	0	1
GRSM0175	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	12/02/81-03/25/82	0	2
GRSM0178	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/24/68-09/24/68	0	1
GRSM0182	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	08/10/63-11/22/94	31	57
GRSM0184	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/18/62-05/11/93	30	121
GRSM0193	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/11/83-08/31/83	0	6
GRSM0200	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/11/83-08/31/83	0	6
GRSM0202	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/24/74-03/18/75	0	13
GRSM0214	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/05/78-05/05/78	0	1
GRSM0215	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/24/74-03/18/75	0	14
GRSM0216	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/04/78-05/04/78	0	1
GRSM0217	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/06/78-05/06/78	0	1
GRSM0221	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	0	1
GRSM0222	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/24/74-03/18/75	0	14
GRSM0223	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/06/67-08/01/68	0	4
GRSM0227	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/25/68-09/25/68	0	1
GRSM0240	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/24/68-09/24/68	0	1
GRSM0248	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/24/74-03/18/75	0	14
GRSM0249	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/17/57-03/28/73	15	74
GRSM0250	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/21/75-02/08/77	1	17
GRSM0251	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/21/75-09/07/76	0	13
GRSM0258	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	05/12/83-09/06/83	0	2
GRSM0262	70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/23/77-10/11/78	1	8
GRSM0031	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/23/73-09/06/73	0	4

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0056	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/21/68-05/24/72	4	11
GRSM0076	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	0	1
GRSM0091	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/23/73-08/08/74	0	2
GRSM0107	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/24/68-09/24/68	0	1
GRSM0120	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/24/68-09/24/68	0	1
GRSM0144	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	0	1
GRSM0161	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	0	1
GRSM0164	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	0	1
GRSM0178	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/24/68-09/24/68	0	1
GRSM0182	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/05/66-12/10/85	19	15
GRSM0184	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	11/01/67-02/11/86	18	69
GRSM0186	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	04/23/76-04/23/76	0	1
GRSM0214	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/05/78-05/05/78	0	1
GRSM0216	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/04/78-05/04/78	0	1
GRSM0217	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	05/06/78-05/06/78	0	1
GRSM0221	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	0	1
GRSM0227	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/25/68-09/25/68	0	1
GRSM0240	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/24/68-09/24/68	0	1
GRSM0249	70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	06/27/68-03/28/73	4	15
GRSM0010	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/06/70-05/09/72	1	10
GRSM0056	70302	SOLIDS, DISSOLVED-TONS PER DAY	05/21/68-05/24/72	4	8
GRSM0076	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	0	1
GRSM0107	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/24/68-09/24/68	0	1
GRSM0120	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/24/68-09/24/68	0	1
GRSM0144	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	0	1
GRSM0161	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	0	1
GRSM0164	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	0	1
GRSM0178	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/24/68-09/24/68	0	1
GRSM0182	70302	SOLIDS, DISSOLVED-TONS PER DAY	08/10/63-09/30/68	5	16
GRSM0184	70302	SOLIDS, DISSOLVED-TONS PER DAY	11/01/67-01/03/83	15	71
GRSM0186	70302	SOLIDS, DISSOLVED-TONS PER DAY	04/23/76-04/23/76	0	1
GRSM0221	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	0	1
GRSM0223	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/06/67-08/01/68	0	4
GRSM0227	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/25/68-09/25/68	0	1
GRSM0240	70302	SOLIDS, DISSOLVED-TONS PER DAY	09/24/68-09/24/68	0	1
GRSM0249	70302	SOLIDS, DISSOLVED-TONS PER DAY	06/27/68-03/28/73	4	14
GRSM0251	70302	SOLIDS, DISSOLVED-TONS PER DAY	10/21/75-06/07/76	0	10
GRSM0010	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/06/70-05/09/72	1	10
GRSM0031	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/23/73-09/06/73	0	4
GRSM0056	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/21/68-05/24/72	4	11
GRSM0076	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	0	1
GRSM0091	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/23/73-08/08/74	0	2
GRSM0107	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/24/68-09/24/68	0	1
GRSM0120	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/24/68-09/24/68	0	1
GRSM0144	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	0	1
GRSM0161	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	0	1
GRSM0164	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	0	1
GRSM0178	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/24/68-09/24/68	0	1
GRSM0182	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	08/10/63-09/30/68	5	14
GRSM0184	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	11/01/67-01/03/83	15	71
GRSM0186	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	04/23/76-04/23/76	0	1
GRSM0214	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/05/78-05/05/78	0	1
GRSM0216	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/04/78-05/04/78	0	1
GRSM0217	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	05/06/78-05/06/78	0	1
GRSM0221	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	0	1
GRSM0223	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/06/67-08/01/68	0	4
GRSM0227	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/25/68-09/25/68	0	1
GRSM0240	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/24/68-09/24/68	0	1
GRSM0249	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	06/27/68-03/28/73	4	15
GRSM0251	70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/21/75-09/07/76	0	13
GRSM0007	70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/19/78	4	3
GRSM0009	70305	SALINITY BASED ON CONDUCTIVITY	08/18/74-02/15/77	2	4
GRSM0013	70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/19/78	4	3
GRSM0016	70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	1	2
GRSM0022	70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	1	2
GRSM0024	70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/19/78	4	3
GRSM0027	70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	1	2
GRSM0037	70305	SALINITY BASED ON CONDUCTIVITY	05/29/74-12/08/75	1	4
GRSM0055	70305	SALINITY BASED ON CONDUCTIVITY	02/27/74-12/08/75	1	5
GRSM0063	70305	SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	1	2
GRSM0085	70305	SALINITY BASED ON CONDUCTIVITY	08/18/74-08/19/74	0	2
GRSM0088	70305	SALINITY BASED ON CONDUCTIVITY	08/19/74-08/19/74	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0101	70305	SALINITY BASED ON CONDUCTIVITY	08/18/74-08/19/74	0	2
GRSM0109	70305	SALINITY BASED ON CONDUCTIVITY	08/18/74-08/19/74	0	2
GRSM0185	70305	SALINITY BASED ON CONDUCTIVITY	01/29/74-02/09/77	3	18
GRSM0256	70305	SALINITY BASED ON CONDUCTIVITY	03/11/74-02/09/77	2	10
GRSM0003	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/16/93-08/16/93	0	1
GRSM0020	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/16/93-08/16/93	0	1
GRSM0069	70318	SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/16/93-08/16/93	0	2
GRSM0230	70320	MOISTURE CONTENT (PERCENT OF TOTAL WET WEIGHT)	06/05/80-06/05/80	0	1
GRSM0003	70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/16/93-08/16/93	0	1
GRSM0020	70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/16/93-08/16/93	0	1
GRSM0069	70322	SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/16/93-08/16/93	0	2
GRSM0182	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	03/25/65-08/24/94	29	35
GRSM0184	70331	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .062MM	10/17/77-03/30/93	15	98
GRSM0182	70332	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .125MM	03/25/65-03/25/65	0	1
GRSM0182	70333	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .250MM	03/25/65-03/25/65	0	1
GRSM0182	70334	SUSPENDED SED SIEVE DIAMETER,% FINER THAN .500MM	03/25/65-03/25/65	0	1
GRSM0010	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	02/24/79-02/24/79	0	1
GRSM0182	70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM	03/25/65-03/25/65	0	1
GRSM0010	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	02/24/79-03/21/80	1	2
GRSM0182	70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM	03/25/65-03/25/65	0	1
GRSM0010	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	02/24/79-03/21/80	1	2
GRSM0182	70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM	03/25/65-03/25/65	0	1
GRSM0010	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	02/24/79-03/21/80	1	2
GRSM0182	70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM	03/25/65-03/25/65	0	1
GRSM0010	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	02/24/79-03/21/80	1	2
GRSM0182	70341	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	03/25/65-03/25/65	0	1
GRSM0010	70342	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	02/24/79-03/21/80	1	2
GRSM0010	70343	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	02/24/79-03/21/80	1	2
GRSM0010	70344	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	02/24/79-03/21/80	1	2
GRSM0010	70345	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	03/21/80-03/21/80	0	1
GRSM0010	70346	SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	03/21/80-03/21/80	0	1
GRSM0007	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-07/02/79	1	5
GRSM0009	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/23/76-06/18/91	14	57
GRSM0013	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	10	9
GRSM0015	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	0	1
GRSM0016	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	10	9
GRSM0018	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	0	1
GRSM0022	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-07/02/79	1	5
GRSM0024	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/77-08/05/87	10	8
GRSM0026	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	0	1
GRSM0027	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	10	9
GRSM0029	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	0	1
GRSM0032	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1
GRSM0034	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1
GRSM0037	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/14/76-03/12/81	4	28
GRSM0038	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1
GRSM0040	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1
GRSM0042	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1
GRSM0044	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1
GRSM0045	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1
GRSM0047	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1
GRSM0055	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	9	91
GRSM0063	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	10	5
GRSM0065	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	0	1
GRSM0066	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1
GRSM0068	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	0	1
GRSM0091	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/03/77-03/10/78	0	2
GRSM0151	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/28/78-04/11/79	0	2
GRSM0155	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/28/78-04/11/79	0	2
GRSM0157	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/28/78-04/11/79	0	2
GRSM0182	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/15/90-12/07/92	2	12
GRSM0184	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/07/73-11/17/92	19	41
GRSM0185	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	02/09/77-09/25/91	14	106
GRSM0189	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	11/28/78-04/11/79	0	2
GRSM0196	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/20/91-08/20/91	0	1
GRSM0197	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/01/90-08/01/90	0	1
GRSM0199	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/01/90-08/01/90	0	1
GRSM0203	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/01/90-08/01/90	0	1
GRSM0205	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/01/90-08/01/90	0	1
GRSM0210	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/01/90-08/01/90	0	1
GRSM0212	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/01/90-08/01/90	0	1
GRSM0256	70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/20/77-09/19/91	14	87

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0110	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	0	1
GRSM0112	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	11/30/81-01/03/82	0	34
GRSM0137	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	0	1
GRSM0138	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	0	1
GRSM0142	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	0	1
GRSM0175	70508	ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	0	1
GRSM0016	70511	PHOSPHORUS,ORTHO,IN BOTTOM DEPOS.(MG/KG-P DRY WT)	06/17/80-08/12/81	1	2
GRSM0027	70511	PHOSPHORUS,ORTHO,IN BOTTOM DEPOS.(MG/KG-P DRY WT)	06/17/80-06/17/80	0	1
GRSM0188	70977	INSTRUMENT RATIO, LAB/FIELD CONCENTRATIONS, NUMBER	10/17/84-10/17/84	0	3
GRSM0094	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	0	1
GRSM0108	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	0	1
GRSM0110	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	0	1
GRSM0111	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	07/29/82-07/29/82	0	1
GRSM0112	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/17/82-08/01/82	0	91
GRSM0115	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/11/82-08/11/82	0	1
GRSM0134	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	0	1
GRSM0137	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/24/82-04/22/82	0	2
GRSM0138	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/24/82-03/24/82	0	1
GRSM0139	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/22/82-03/22/82	0	1
GRSM0143	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/22/82-03/22/82	0	1
GRSM0145	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/22/82-03/22/82	0	1
GRSM0146	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/24/82-03/24/82	0	1
GRSM0148	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/24/82-03/24/82	0	1
GRSM0150	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	0	1
GRSM0160	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/20/82-04/20/82	0	1
GRSM0163	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/23/82-04/20/82	0	2
GRSM0167	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/21/82-04/21/82	0	1
GRSM0168	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	04/21/82-04/21/82	0	1
GRSM0173	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/25/82-03/25/82	0	1
GRSM0175	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/25/82-03/25/82	0	1
GRSM0184	71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	05/29/79-02/09/81	1	3
GRSM0031	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	01/23/73-09/06/73	0	3
GRSM0072	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	12/13/83-05/08/85	1	24
GRSM0091	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/03/77-03/10/78	0	2
GRSM0182	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	12/10/85-02/21/86	0	2
GRSM0184	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	11/07/73-02/11/86	12	46
GRSM0229	71846	NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	12/13/83-05/15/85	1	51
GRSM0010	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	5	49
GRSM0074	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	11/06/56-04/13/62	5	8
GRSM0094	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	0	1
GRSM0108	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	0	1
GRSM0110	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	0	1
GRSM0111	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/29/82-07/29/82	0	1
GRSM0112	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/17/82-08/01/82	0	91
GRSM0115	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/11/82-08/11/82	0	1
GRSM0134	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	0	1
GRSM0137	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/24/82-04/22/82	0	2
GRSM0138	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/24/82-03/24/82	0	1
GRSM0139	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/22/82-03/22/82	0	1
GRSM0143	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/22/82-03/22/82	0	1
GRSM0145	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/22/82-03/22/82	0	1
GRSM0146	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/24/82-03/24/82	0	1
GRSM0148	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/24/82-03/24/82	0	1
GRSM0150	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	0	1
GRSM0160	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/20/82-04/20/82	0	1
GRSM0163	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/23/82-04/20/82	0	2
GRSM0167	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/21/82-04/21/82	0	1
GRSM0168	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	04/21/82-04/21/82	0	1
GRSM0173	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/25/82-03/25/82	0	1
GRSM0175	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/25/82-03/25/82	0	1
GRSM0249	71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/17/57-09/17/62	4	48
GRSM0010	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/24/61-09/24/63	1	24
GRSM0031	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	01/23/73-09/06/73	0	4
GRSM0041	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/18/82-10/18/82	0	1
GRSM0050	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	0	1
GRSM0052	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	0	1
GRSM0056	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	05/21/68-03/16/71	2	8
GRSM0061	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/19/82-10/19/82	0	1
GRSM0071	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/25/85-07/11/85	0	4
GRSM0072	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/13/83-05/08/85	1	24
GRSM0076	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	0	1
GRSM0077	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/18/82-10/18/82	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0080	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	0	1
GRSM0081	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/25/85-07/08/85	0	4
GRSM0086	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/20/85-07/03/85	0	4
GRSM0095	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/03/85-07/03/85	0	1
GRSM0099	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/22/85-07/16/85	0	2
GRSM0100	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/08/85-07/08/85	0	1
GRSM0106	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/25/85-07/16/85	0	4
GRSM0107	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/24/68-09/24/68	0	1
GRSM0120	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/24/68-09/24/68	0	1
GRSM0144	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	0	1
GRSM0152	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/10/85-07/10/85	0	1
GRSM0161	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	0	1
GRSM0164	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	0	1
GRSM0177	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	0	1
GRSM0178	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/24/68-09/24/68	0	1
GRSM0182	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	08/10/63-09/30/68	5	20
GRSM0184	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/18/62-08/02/71	8	24
GRSM0186	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	04/23/76-04/23/76	0	1
GRSM0190	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/27/85-07/10/85	0	4
GRSM0191	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	0	1
GRSM0194	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/25/85-07/08/85	0	4
GRSM0195	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/16/85-07/16/85	0	1
GRSM0206	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/08/85-07/08/85	0	1
GRSM0208	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/29/84-11/29/84	0	1
GRSM0213	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/28/85-07/16/85	0	4
GRSM0221	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	0	1
GRSM0223	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/06/67-08/01/68	0	4
GRSM0227	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/25/68-09/25/68	0	1
GRSM0229	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/13/83-05/15/85	1	51
GRSM0237	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/28/85-07/10/85	0	4
GRSM0240	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/24/68-09/24/68	0	1
GRSM0249	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/17/61-03/28/73	11	37
GRSM0255	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/07/85-07/07/85	0	1
GRSM0259	71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/24/85-07/07/85	0	4
GRSM0125	71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	0	1
GRSM0129	71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	0	1
GRSM0132	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1
GRSM0135	71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	0	1
GRSM0140	71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	0	1
GRSM0147	71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	0	1
GRSM0149	71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	0	1
GRSM0153	71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	0	1
GRSM0154	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1
GRSM0156	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1
GRSM0158	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1
GRSM0159	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1
GRSM0162	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1
GRSM0165	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1
GRSM0170	71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	0	1
GRSM0172	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1
GRSM0174	71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	0	1
GRSM0176	71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	0	1
GRSM0179	71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	0	1
GRSM0180	71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	0	1
GRSM0182	71870	BROMIDE (MG/L AS BR)	10/30/91-10/30/91	0	1
GRSM0183	71870	BROMIDE (MG/L AS BR)	10/29/91-10/29/91	0	1
GRSM0184	71870	BROMIDE (MG/L AS BR)	10/31/91-10/31/91	0	1
GRSM0009	71876	SOAPS, RESIN ACID (MG/L)	11/18/75-12/08/75	0	2
GRSM0256	71876	SOAPS, RESIN ACID (MG/L)	04/06/72-04/06/72	0	1
GRSM0009	71880	FORMALDEHYDE (MG/L)	11/18/75-12/08/75	0	2
GRSM0010	71885	IRON (UG/L AS FE)	10/24/61-09/24/63	1	24
GRSM0050	71885	IRON (UG/L AS FE)	11/20/84-11/20/84	0	1
GRSM0052	71885	IRON (UG/L AS FE)	11/20/84-11/20/84	0	1
GRSM0071	71885	IRON (UG/L AS FE)	03/25/85-07/11/85	0	4
GRSM0080	71885	IRON (UG/L AS FE)	11/20/84-11/20/84	0	1
GRSM0081	71885	IRON (UG/L AS FE)	03/25/85-07/08/85	0	4
GRSM0086	71885	IRON (UG/L AS FE)	03/20/85-07/03/85	0	4
GRSM0095	71885	IRON (UG/L AS FE)	07/03/85-07/03/85	0	1
GRSM0099	71885	IRON (UG/L AS FE)	04/22/85-07/16/85	0	2
GRSM0100	71885	IRON (UG/L AS FE)	07/08/85-07/08/85	0	1
GRSM0106	71885	IRON (UG/L AS FE)	03/25/85-07/16/85	0	4
GRSM0152	71885	IRON (UG/L AS FE)	07/10/85-07/10/85	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0177	71885	IRON (UG/L AS FE)	11/20/84-11/20/84	0	1
GRSM0184	71885	IRON (UG/L AS FE)	10/18/62-09/06/63	0	11
GRSM0190	71885	IRON (UG/L AS FE)	03/27/85-07/10/85	0	4
GRSM0191	71885	IRON (UG/L AS FE)	11/20/84-11/20/84	0	1
GRSM0194	71885	IRON (UG/L AS FE)	03/25/85-07/08/85	0	4
GRSM0195	71885	IRON (UG/L AS FE)	07/16/85-07/16/85	0	1
GRSM0206	71885	IRON (UG/L AS FE)	07/08/85-07/08/85	0	1
GRSM0208	71885	IRON (UG/L AS FE)	11/29/84-11/29/84	0	1
GRSM0213	71885	IRON (UG/L AS FE)	03/28/85-07/16/85	0	4
GRSM0237	71885	IRON (UG/L AS FE)	03/28/85-07/10/85	0	4
GRSM0249	71885	IRON (UG/L AS FE)	10/17/61-09/16/63	1	23
GRSM0255	71885	IRON (UG/L AS FE)	07/07/85-07/07/85	0	1
GRSM0259	71885	IRON (UG/L AS FE)	03/24/85-07/07/85	0	4
GRSM0091	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	03/10/78-03/10/78	0	1
GRSM0182	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	10/17/85-02/21/86	0	2
GRSM0184	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	01/26/78-11/18/85	7	31
GRSM0214	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/05/78-05/05/78	0	1
GRSM0216	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/04/78-05/04/78	0	1
GRSM0217	71886	PHOSPHORUS, TOTAL, AS PO4 - MG/L	05/06/78-05/06/78	0	1
GRSM0091	71887	NITROGEN, TOTAL, AS NO3 - MG/L	10/03/77-03/10/78	0	2
GRSM0184	71887	NITROGEN, TOTAL, AS NO3 - MG/L	10/11/73-09/08/82	8	42
GRSM0056	71890	MERCURY, DISSOLVED (UG/L AS HG)	09/21/70-09/21/70	0	1
GRSM0182	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/17/85-02/05/91	5	11
GRSM0184	71890	MERCURY, DISSOLVED (UG/L AS HG)	10/11/73-08/20/91	17	43
GRSM0186	71890	MERCURY, DISSOLVED (UG/L AS HG)	04/23/76-04/23/76	0	1
GRSM0184	71895	MERCURY, SUSPENDED (UG/L AS HG)	10/11/73-03/21/80	6	12
GRSM0007	71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-07/31/79	5	8
GRSM0009	71900	MERCURY, TOTAL (UG/L AS HG)	01/02/75-11/17/94	19	93
GRSM0011	71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-12/08/70	0	1
GRSM0012	71900	MERCURY, TOTAL (UG/L AS HG)	08/05/70-08/05/70	0	1
GRSM0013	71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	8	11
GRSM0014	71900	MERCURY, TOTAL (UG/L AS HG)	08/05/87-08/05/87	0	1
GRSM0016	71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	8	11
GRSM0017	71900	MERCURY, TOTAL (UG/L AS HG)	08/05/87-08/05/87	0	1
GRSM0022	71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-07/31/79	5	8
GRSM0024	71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	8	10
GRSM0025	71900	MERCURY, TOTAL (UG/L AS HG)	08/05/87-08/05/87	0	1
GRSM0027	71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	8	11
GRSM0028	71900	MERCURY, TOTAL (UG/L AS HG)	08/05/87-08/05/87	0	1
GRSM0037	71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-03/12/81	10	18
GRSM0054	71900	MERCURY, TOTAL (UG/L AS HG)	02/15/77-10/24/78	1	8
GRSM0055	71900	MERCURY, TOTAL (UG/L AS HG)	08/04/70-08/20/86	16	49
GRSM0056	71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-12/08/70	0	1
GRSM0057	71900	MERCURY, TOTAL (UG/L AS HG)	03/17/77-06/17/80	3	17
GRSM0063	71900	MERCURY, TOTAL (UG/L AS HG)	07/16/74-07/31/79	5	8
GRSM0064	71900	MERCURY, TOTAL (UG/L AS HG)	08/05/87-08/05/87	0	1
GRSM0070	71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-12/08/70	0	1
GRSM0073	71900	MERCURY, TOTAL (UG/L AS HG)	12/08/70-12/08/70	0	1
GRSM0091	71900	MERCURY, TOTAL (UG/L AS HG)	10/03/77-03/10/78	0	2
GRSM0094	71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	0	1
GRSM0108	71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	0	1
GRSM0110	71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	0	1
GRSM0112	71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-06/21/82	0	12
GRSM0134	71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	0	1
GRSM0137	71900	MERCURY, TOTAL (UG/L AS HG)	03/24/82-04/22/82	0	2
GRSM0138	71900	MERCURY, TOTAL (UG/L AS HG)	03/24/82-03/24/82	0	1
GRSM0139	71900	MERCURY, TOTAL (UG/L AS HG)	03/22/82-03/22/82	0	1
GRSM0143	71900	MERCURY, TOTAL (UG/L AS HG)	03/22/82-03/22/82	0	1
GRSM0145	71900	MERCURY, TOTAL (UG/L AS HG)	03/22/82-03/22/82	0	1
GRSM0146	71900	MERCURY, TOTAL (UG/L AS HG)	03/24/82-03/24/82	0	1
GRSM0148	71900	MERCURY, TOTAL (UG/L AS HG)	03/24/82-03/24/82	0	1
GRSM0150	71900	MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	0	1
GRSM0151	71900	MERCURY, TOTAL (UG/L AS HG)	11/28/78-11/28/78	0	1
GRSM0155	71900	MERCURY, TOTAL (UG/L AS HG)	11/28/78-11/28/78	0	1
GRSM0157	71900	MERCURY, TOTAL (UG/L AS HG)	11/28/78-11/28/78	0	1
GRSM0160	71900	MERCURY, TOTAL (UG/L AS HG)	04/20/82-04/20/82	0	1
GRSM0163	71900	MERCURY, TOTAL (UG/L AS HG)	03/23/82-04/20/82	0	2
GRSM0167	71900	MERCURY, TOTAL (UG/L AS HG)	04/21/82-04/21/82	0	1
GRSM0168	71900	MERCURY, TOTAL (UG/L AS HG)	04/21/82-04/21/82	0	1
GRSM0173	71900	MERCURY, TOTAL (UG/L AS HG)	03/25/82-03/25/82	0	1
GRSM0175	71900	MERCURY, TOTAL (UG/L AS HG)	03/25/82-03/25/82	0	1
GRSM0182	71900	MERCURY, TOTAL (UG/L AS HG)	10/08/70-10/08/70	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0184	71900	MERCURY, TOTAL (UG/L AS HG)	10/11/73-09/08/82	8	22
GRSM0185	71900	MERCURY, TOTAL (UG/L AS HG)	05/26/76-11/07/94	18	92
GRSM0189	71900	MERCURY, TOTAL (UG/L AS HG)	11/28/78-11/28/78	0	1
GRSM0202	71900	MERCURY, TOTAL (UG/L AS HG)	04/24/74-01/14/75	0	4
GRSM0214	71900	MERCURY, TOTAL (UG/L AS HG)	05/05/78-05/05/78	0	1
GRSM0216	71900	MERCURY, TOTAL (UG/L AS HG)	05/04/78-05/04/78	0	1
GRSM0217	71900	MERCURY, TOTAL (UG/L AS HG)	05/06/78-05/06/78	0	1
GRSM0218	71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	0	1
GRSM0219	71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	0	1
GRSM0225	71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	0	1
GRSM0226	71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	0	1
GRSM0230	71900	MERCURY, TOTAL (UG/L AS HG)	06/05/80-06/05/80	0	1
GRSM0236	71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	0	1
GRSM0239	71900	MERCURY, TOTAL (UG/L AS HG)	08/13/81-08/13/81	0	1
GRSM0249	71900	MERCURY, TOTAL (UG/L AS HG)	03/23/71-03/23/71	0	1
GRSM0250	71900	MERCURY, TOTAL (UG/L AS HG)	02/08/77-02/08/77	0	1
GRSM0256	71900	MERCURY, TOTAL (UG/L AS HG)	07/09/70-12/05/94	24	107
GRSM0262	71900	MERCURY, TOTAL (UG/L AS HG)	02/23/77-10/11/78	1	8
GRSM0264	71900	MERCURY, TOTAL (UG/L AS HG)	10/20/82-12/14/92	10	77
GRSM0003	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/16/93-08/16/93	0	1
GRSM0012	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/05/70-08/05/70	0	1
GRSM0020	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/16/93-08/16/93	0	1
GRSM0027	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/17/80-08/04/82	2	2
GRSM0035	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/73-06/27/73	0	1
GRSM0053	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/73-06/27/73	0	1
GRSM0055	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/15/81-11/29/84	3	5
GRSM0069	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/16/93-08/16/93	0	2
GRSM0097	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/73-06/27/73	0	1
GRSM0151	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/28/78-11/28/78	0	1
GRSM0155	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/28/78-11/28/78	0	1
GRSM0157	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/28/78-11/28/78	0	1
GRSM0182	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	10/17/85-10/17/85	0	1
GRSM0184	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	03/05/74-06/14/74	0	2
GRSM0185	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/28/78-04/18/85	6	7
GRSM0189	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	11/28/78-11/28/78	0	1
GRSM0230	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/05/80-06/05/80	0	1
GRSM0256	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/26/81-08/15/85	4	5
GRSM0263	71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	10/29/70-10/29/70	0	1
GRSM0005	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/23/87-11/16/93	6	6
GRSM0020	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	11/17/93-11/17/93	0	3
GRSM0035	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/23/87-11/25/88	1	3
GRSM0055	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	02/22/82-02/22/82	0	2
GRSM0069	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	12/01/92-11/18/93	0	4
GRSM0185	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/24/84-10/24/84	0	9
GRSM0231	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/09/80-06/09/80	0	1
GRSM0256	71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	02/23/82-08/28/84	2	6
GRSM0188	71935	MERCURY, TOTAL IN FISH (PPM,WET WEIGHT BASIS)	10/17/84-10/17/84	0	2
GRSM0005	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/16/93	6	5
GRSM0020	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	11/17/93-11/17/93	0	1
GRSM0035	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/25/88	1	3
GRSM0055	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	0	2
GRSM0069	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	12/01/92-11/18/93	0	2
GRSM0185	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/24/84-10/24/84	0	9
GRSM0231	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	06/09/80-06/09/80	0	1
GRSM0256	71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/23/82-08/28/84	2	6
GRSM0005	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/25/88	1	3
GRSM0035	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/25/88	1	3
GRSM0055	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	0	2
GRSM0185	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/24/84-10/24/84	0	9
GRSM0231	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	06/09/80-06/09/80	0	1
GRSM0256	71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/23/82-08/28/84	2	6
GRSM0005	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/25/88	1	3
GRSM0035	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/25/88	1	3
GRSM0055	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	0	2
GRSM0185	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	10/24/84-10/24/84	0	9
GRSM0231	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	06/09/80-06/09/80	0	1
GRSM0256	71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/23/82-08/28/84	2	6
GRSM0005	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/25/88	1	3
GRSM0035	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	09/23/87-11/25/88	1	3
GRSM0055	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	0	2
GRSM0185	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	10/24/84-10/24/84	0	9
GRSM0231	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	06/09/80-06/09/80	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0256	71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	02/23/82-08/28/84	2	6
GRSM0005	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/23/87-11/16/93	6	5
GRSM0020	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	11/17/93-11/17/93	0	1
GRSM0035	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	09/23/87-11/25/88	1	3
GRSM0055	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	02/22/82-02/22/82	0	2
GRSM0069	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	12/01/92-11/18/93	0	2
GRSM0185	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	10/24/84-10/24/84	0	9
GRSM0231	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	06/09/80-06/09/80	0	1
GRSM0256	71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	02/23/82-08/28/84	2	6
GRSM0050	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	0	1
GRSM0052	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	0	1
GRSM0071	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/25/85-07/11/85	0	4
GRSM0080	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	0	1
GRSM0081	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/25/85-07/08/85	0	4
GRSM0086	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/20/85-07/03/85	0	4
GRSM0095	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/03/85-07/03/85	0	1
GRSM0099	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	04/22/85-07/16/85	0	2
GRSM0100	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/08/85-07/08/85	0	1
GRSM0106	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/25/85-07/16/85	0	4
GRSM0152	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/10/85-07/10/85	0	1
GRSM0177	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	0	1
GRSM0190	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/27/85-07/10/85	0	4
GRSM0191	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	0	1
GRSM0194	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/25/85-07/08/85	0	4
GRSM0195	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/16/85-07/16/85	0	1
GRSM0206	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/08/85-07/08/85	0	1
GRSM0208	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/29/84-11/29/84	0	1
GRSM0213	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/28/85-07/16/85	0	4
GRSM0237	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/28/85-07/10/85	0	4
GRSM0255	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/07/85-07/07/85	0	1
GRSM0259	72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/24/85-07/07/85	0	4
GRSM0004	72025	DEPTH OF POND OR RESERVOIR IN FEET	06/03/73-10/26/73	0	3
GRSM0019	72025	DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	0	3
GRSM0023	72025	DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	0	3
GRSM0030	72025	DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	0	3
GRSM0055	72025	DEPTH OF POND OR RESERVOIR IN FEET	03/06/84-03/06/84	0	1
GRSM0060	72025	DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	0	3
GRSM0126	72025	DEPTH OF POND OR RESERVOIR IN FEET	06/27/73-11/13/73	0	3
GRSM0247	72025	DEPTH OF POND OR RESERVOIR IN FEET	03/24/73-09/20/73	0	3
GRSM0257	72025	DEPTH OF POND OR RESERVOIR IN FEET	03/24/73-09/20/73	0	3
GRSM0009	72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	02/15/77-12/06/77	0	4
GRSM0037	72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	12/08/75-03/12/81	5	53
GRSM0055	72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	10	120
GRSM0185	72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	02/09/77-12/29/77	0	13
GRSM0256	72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	08/24/84-08/24/84	0	1
GRSM0230	74010	IRON, TOTAL (MG/L AS FE)	06/05/80-06/05/80	0	1
GRSM0182	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	02/27/89-02/24/93	3	9
GRSM0184	75986	ALPHA GROSS,1 SIGMA PRC EST AS NAT U,DISS,WTR UG/L	06/20/89-03/30/93	3	8
GRSM0182	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	02/27/89-02/24/93	3	9
GRSM0184	75987	ALPHA GROSS,DISS,1 SIGMA PRC EST AS TH230,WTR PC/L	06/20/89-03/30/93	3	8
GRSM0182	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	02/27/89-02/24/93	3	9
GRSM0184	75988	BETA GROSS,DISS,1 SIGMA PRC EST AS SR90/Y90 PC/L	06/20/89-03/30/93	3	8
GRSM0182	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	02/27/89-02/24/93	3	9
GRSM0184	75989	BETA GROSS,1 SIGMA PRC EST AS CS-137,DISS,WTR PC/L	06/20/89-03/30/93	3	8
GRSM0182	75990	URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	02/21/90-08/24/94	4	9
GRSM0184	75990	URANIUM,NATURAL,1 SIGMA PRC EST,DISS,WATER UG/L	05/21/90-03/30/93	2	6
GRSM0182	76001	RADIUM 226,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	02/21/90-08/24/94	4	9
GRSM0184	76001	RADIUM 226,1 SIGMA PRC EST,DISSOLVED,WATER PC/L	05/21/90-03/30/93	2	6
GRSM0182	76004	ALPHA GROSS,SUSP,1 SIGMA PRC EST AS TH230,WTR PC/L	02/27/89-02/24/93	3	9
GRSM0184	76004	ALPHA GROSS,SUSP,1 SIGMA PRC EST AS TH230,WTR PC/L	06/20/89-03/30/93	3	8
GRSM0182	76005	BETA GROSS,SUSP,1 SIGMA PRC EST AS SR90/Y90 PC/L	02/27/89-02/24/93	3	9
GRSM0184	76005	BETA GROSS,SUSP,1 SIGMA PRC EST AS SR90/Y90 PC/L	06/20/89-03/30/93	3	8
GRSM0188	76530	BIPHENYL TISSUE ,WET WGT,MG/KG	10/17/84-10/17/84	0	1
GRSM0005	78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	11/25/88-11/16/93	4	3
GRSM0020	78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	11/17/93-11/17/93	0	1
GRSM0035	78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	11/25/88-11/25/88	0	1
GRSM0069	78457	CHLORDENE, ALPHA-, FISH TISSUE, WET WEIGHT, MG/KG	12/01/92-11/18/93	0	2
GRSM0005	78458	CHLORDENE, BETA-, FISH TISSUE, WET WEIGHT, MG/KG	11/25/88-11/25/88	0	1
GRSM0035	78458	CHLORDENE, BETA-, FISH TISSUE, WET WEIGHT, MG/KG	11/25/88-11/25/88	0	1
GRSM0005	78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	11/25/88-11/16/93	4	3
GRSM0020	78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	11/17/93-11/17/93	0	1
GRSM0035	78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT, MG/KG	11/25/88-11/25/88	0	1

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name		Start - End	Years	Obs
GRSM0069	78459	CHLORDENE, GAMMA-, FISH TISSUE, WET WEIGHT,	MG/KG	12/01/92-11/18/93	0	2
GRSM0188	78907	HEXACHLOROBIPHENYLS IN FISH TISSUE WET WGT.	MG/KG	10/17/84-10/17/84	0	1
GRSM0005	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT	MG/KG	11/25/88-11/16/93	4	3
GRSM0020	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT	MG/KG	11/17/93-11/17/93	0	1
GRSM0035	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT	MG/KG	11/25/88-11/25/88	0	1
GRSM0069	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT	MG/KG	12/01/92-11/18/93	0	2
GRSM0188	78922	NONACHLOR, TRANS, TISSUE, WET WEIGHT	MG/KG	10/17/84-10/17/84	0	1
GRSM0005	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT	MG/KG	11/25/88-11/16/93	4	3
GRSM0020	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT	MG/KG	11/17/93-11/17/93	0	1
GRSM0035	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT	MG/KG	11/25/88-11/25/88	0	1
GRSM0069	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT	MG/KG	12/01/92-11/18/93	0	2
GRSM0188	78923	NONACHLOR, CIS, TISSUE, WET WEIGHT	MG/KG	10/17/84-10/17/84	0	1
GRSM0005	79006	CHLORDENE IN FISH UG/KG		09/23/87-11/16/93	6	4
GRSM0020	79006	CHLORDENE IN FISH UG/KG		11/17/93-11/17/93	0	1
GRSM0035	79006	CHLORDENE IN FISH UG/KG		09/23/87-11/25/88	1	2
GRSM0069	79006	CHLORDENE IN FISH UG/KG		12/01/92-11/18/93	0	2
GRSM0188	79026	1,2,3,4,-TETRACHLOROBENZENE IN FISH WET WGT	MG/KG	10/17/84-10/17/84	0	1
GRSM0182	80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD		10/25/68-02/25/87	18	3
GRSM0184	80020	URANIUM,DISS.,BY EXTRACTION FLUOROMETRIC METHOD		10/03/67-06/08/87	19	15
GRSM0182	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L		10/12/67-02/24/93	25	15
GRSM0184	80030	ALPHA,DISSOLVED GROSS,AS URANIUM-NATURAL,UG/L		10/03/67-03/30/93	25	26
GRSM0182	80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L		10/12/67-02/24/93	25	15
GRSM0184	80040	ALPHA,SUSPENDED GROSS, AS URANIUM-NATURAL, UG/L		10/03/67-03/30/93	25	26
GRSM0182	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L		10/12/67-02/24/93	25	15
GRSM0184	80050	BETA,DISSOLVED GROSS,AS SR-Y-90, PC/L		10/03/67-03/30/93	25	26
GRSM0182	80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L		10/12/67-02/24/93	25	15
GRSM0184	80060	BETA,SUSPENDED GROSS,AS SR-Y-90, PC/L		10/03/67-03/30/93	25	26
GRSM0035	80111	NITROGEN, TOTAL IN DRIED MATERIAL (MG/KG)		06/27/73-06/27/73	0	1
GRSM0053	80111	NITROGEN, TOTAL IN DRIED MATERIAL (MG/KG)		06/27/73-06/27/73	0	1
GRSM0097	80111	NITROGEN, TOTAL IN DRIED MATERIAL (MG/KG)		06/27/73-06/27/73	0	1
GRSM0010	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)		03/31/77-01/04/82	4	30
GRSM0091	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)		10/03/77-03/10/78	0	2
GRSM0182	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)		03/25/65-08/24/94	29	68
GRSM0184	80154	SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)		10/11/73-05/11/93	19	150
GRSM0010	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)		03/31/77-01/04/82	4	30
GRSM0182	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)		03/25/65-09/16/82	17	33
GRSM0184	80155	SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)		10/11/73-09/08/82	8	101
GRSM0258	81253	BOD, 31 DAY, 20 DEG C	MG/L	05/12/83-05/12/83	0	1
GRSM0193	81254	BOD, 32 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	81254	BOD, 32 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	81255	BOD, 33 DAY, 20 DEG C	MG/L	05/12/83-05/12/83	0	1
GRSM0193	81256	BOD, 34 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	81256	BOD, 34 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0193	81257	BOD, 36 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	81257	BOD, 36 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	81257	BOD, 36 DAY, 20 DEG C	MG/L	09/06/83-09/06/83	0	1
GRSM0258	81259	BOD, 38 DAY, 20 DEG C	MG/L	05/12/83-05/12/83	0	1
GRSM0193	81260	BOD, 39 DAY, 20 DEG C	MG/L	05/11/83-05/11/83	0	3
GRSM0200	81260	BOD, 39 DAY, 20 DEG C	MG/L	05/11/83-05/11/83	0	3
GRSM0193	81261	BOD, 41 DAY, 20 DEG C	MG/L	05/11/83-05/11/83	0	3
GRSM0200	81261	BOD, 41 DAY, 20 DEG C	MG/L	05/11/83-05/11/83	0	3
GRSM0193	81262	BOD, 43 DAY, 20 DEG C	MG/L	05/11/83-05/11/83	0	3
GRSM0200	81262	BOD, 43 DAY, 20 DEG C	MG/L	05/11/83-05/11/83	0	3
GRSM0258	81264	BOD, 45 DAY, 20 DEG C	MG/L	05/12/83-05/12/83	0	1
GRSM0193	81265	BOD, 46 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	81265	BOD, 46 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	81266	BOD, 47 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2
GRSM0193	81267	BOD, 48 DAY, 20 DEG C	MG/L	05/11/83-05/11/83	0	3
GRSM0200	81267	BOD, 48 DAY, 20 DEG C	MG/L	05/11/83-05/11/83	0	3
GRSM0200	81268	BOD, 51 DAY, 20 DEG C	MG/L	05/11/83-05/11/83	0	2
GRSM0258	81268	BOD, 51 DAY, 20 DEG C	MG/L	09/06/83-09/06/83	0	1
GRSM0258	81269	BOD, 52 DAY, 20 DEG C	MG/L	05/12/83-05/12/83	0	1
GRSM0193	81270	BOD, 53 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	81270	BOD, 53 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0258	81270	BOD, 53 DAY, 20 DEG C	MG/L	05/12/83-05/12/83	0	1
GRSM0258	81271	BOD, 54 DAY, 20 DEG C	MG/L	09/06/83-09/06/83	0	1
GRSM0193	81272	BOD, 55 DAY, 20 DEG C	MG/L	05/11/83-05/11/83	0	2
GRSM0200	81272	BOD, 55 DAY, 20 DEG C	MG/L	05/11/83-05/11/83	0	3
GRSM0193	81273	BOD, 57 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	6
GRSM0200	81273	BOD, 57 DAY, 20 DEG C	MG/L	05/11/83-08/31/83	0	5
GRSM0200	81274	BOD, 58 DAY, 20 DEG C	MG/L	08/31/83-08/31/83	0	1
GRSM0258	81275	BOD, 59 DAY, 20 DEG C	MG/L	05/12/83-09/06/83	0	2

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0193	81276	BOD, 60 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6
GRSM0200	81276	BOD, 60 DAY, 20 DEG C MG/L	05/11/83-08/31/83	0	6
GRSM0258	81276	BOD, 60 DAY, 20 DEG C MG/L	05/12/83-05/12/83	0	1
GRSM0188	81312	POLYCHLORINATEDBIPHENYLS FISH TISSUE WET WGT MG/KG	10/17/84-10/17/84	0	1
GRSM0188	81644	METHOXYCHLOR IN FISH TISSUE,UG/G WET WEIGHT	10/17/84-10/17/84	0	1
GRSM0005	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	12/01/92-11/16/93	0	2
GRSM0020	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	11/17/93-11/17/93	0	1
GRSM0069	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	12/01/92-11/18/93	0	2
GRSM0188	81645	MIREX IN FISH TISSUE WET WEIGHT UG/G	10/17/84-10/17/84	0	1
GRSM0055	81647	REFERENCE POINT READING(LINEAR FEET)	10/17/78-10/17/78	0	1
GRSM0256	81647	REFERENCE POINT READING(LINEAR FEET)	10/23/78-10/21/92	13	96
GRSM0188	81652	TREFLAN IN FISH TISSUE WET WEIGHT MG/KG	10/17/84-10/17/84	0	1
GRSM0055	81656	MAGNESIUM IN FISH TISSUE WET WEIGHT MG/KG	02/22/82-02/22/82	0	2
GRSM0256	81656	MAGNESIUM IN FISH TISSUE WET WEIGHT MG/KG	02/23/82-02/23/82	0	2
GRSM0055	81666	ALUMINUM IN FISH TISSUE WET WEIGHT MG/KG	02/22/82-02/22/82	0	2
GRSM0256	81666	ALUMINUM IN FISH TISSUE WET WEIGHT MG/KG	02/23/82-02/23/82	0	2
GRSM0188	81807	DURSBAN IN FISH TISSUE WET WEIGHT MG/KG	10/17/84-10/17/84	0	1
GRSM0188	81823	PENTACHLOROANISOLE(PCA)INFISH TISSUE WET WGT MG/KG	10/17/84-10/17/84	0	1
GRSM0184	81886	PERTHANE IN SEDIMENT DRY WEIGHT UG/KG	10/15/80-09/08/82	1	2
GRSM0104	81900	SEDIMENT CORE SAMPLE,UPPER DEPTH,REPORT IN INCHES	10/06/86-10/06/86	0	2
GRSM0104	81901	SEDIMENT CORE SAMPLE, LOWER DEPTH,REPORT IN INCHES	10/06/86-10/06/86	0	2
GRSM0005	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	09/23/87-11/25/88	1	2
GRSM0035	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	09/23/87-11/25/88	1	2
GRSM0188	82029	OXYCHLORDANE IN TISSUE SAMPLE WET WEIGHT MG/KG	10/17/84-10/17/84	0	1
GRSM0050	82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	0	1
GRSM0052	82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	0	1
GRSM0080	82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	0	1
GRSM0177	82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	0	1
GRSM0191	82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	0	1
GRSM0208	82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/29/84-11/29/84	0	1
GRSM0184	82068	POTASSIUM 40, DISSOLVED, K-40 PC/LITER	02/09/81-08/31/81	0	5
GRSM0182	82073	STARTING TIME (BASED ON A 24 HOUR CLOCK)	12/30/93-12/30/93	0	1
GRSM0003	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/19/94-10/19/94	0	7
GRSM0020	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/19/94-10/19/94	0	7
GRSM0069	82078	TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/18/94-10/20/94	0	7
GRSM0050	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	0	1
GRSM0052	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	0	1
GRSM0071	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/25/85-07/11/85	0	4
GRSM0080	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	0	1
GRSM0081	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/25/85-07/08/85	0	4
GRSM0086	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/20/85-07/03/85	0	4
GRSM0095	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/03/85-07/03/85	0	1
GRSM0099	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	04/22/85-07/16/85	0	2
GRSM0100	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/08/85-07/08/85	0	1
GRSM0106	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/25/85-07/16/85	0	4
GRSM0114	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/15/94	0	7
GRSM0117	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/15/94	0	7
GRSM0118	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/16/93-06/15/94	0	6
GRSM0119	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	12/15/93-06/15/94	0	6
GRSM0121	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/15/94	0	8
GRSM0122	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-04/13/94	0	6
GRSM0127	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/16/93-06/16/94	0	3
GRSM0128	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/16/94	0	9
GRSM0130	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	01/24/94-06/15/94	0	4
GRSM0131	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/16/94	0	7
GRSM0133	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/16/93-06/16/94	0	7
GRSM0152	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/10/85-07/10/85	0	1
GRSM0177	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	0	1
GRSM0190	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/27/85-07/10/85	0	4
GRSM0191	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	0	1
GRSM0194	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/25/85-07/08/85	0	4
GRSM0195	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/16/85-07/16/85	0	1
GRSM0206	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/08/85-07/08/85	0	1
GRSM0208	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/29/84-11/29/84	0	1
GRSM0213	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/28/85-07/16/85	0	4
GRSM0237	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/28/85-07/10/85	0	4
GRSM0255	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/07/85-07/07/85	0	1
GRSM0259	82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/24/85-07/07/85	0	4
GRSM0184	82183	2,4-DP (DICHLORPROP) TOTAL UG/L	10/15/80-09/08/82	1	2
GRSM0041	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	10/18/82-10/18/82	0	1
GRSM0061	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	10/19/82-10/19/82	0	1
GRSM0072	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	12/13/83-05/08/85	1	24

Station/Parameter Period of Record Tabulation
From 08/02/46 To 01/09/95

Station	Code	Name	Start - End	Years	Obs
GRSM0077	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	10/18/82-10/18/82	0	1
GRSM0229	82295	CHLORIDE DISSOLVED AS CL IN WATER UG/L	12/13/83-05/15/85	1	51
GRSM0112	82381	PRECIPITATION, TOTAL IN INCHES PER STORM	11/30/81-03/16/82	0	6
GRSM0256	82547	CHLOROPHYLL A,PERIPHYTON,FLUOROMETRIC MG/M2	06/23/81-06/23/81	0	2
GRSM0071	83509	STREAM, WIDTH METER	03/25/85-07/11/85	0	4
GRSM0081	83509	STREAM, WIDTH METER	03/25/85-07/08/85	0	4
GRSM0086	83509	STREAM, WIDTH METER	03/20/85-07/03/85	0	4
GRSM0095	83509	STREAM, WIDTH METER	07/03/85-07/03/85	0	1
GRSM0099	83509	STREAM, WIDTH METER	04/22/85-07/16/85	0	2
GRSM0100	83509	STREAM, WIDTH METER	07/08/85-07/08/85	0	1
GRSM0106	83509	STREAM, WIDTH METER	03/25/85-07/16/85	0	4
GRSM0152	83509	STREAM, WIDTH METER	07/10/85-07/10/85	0	1
GRSM0190	83509	STREAM, WIDTH METER	03/27/85-07/10/85	0	4
GRSM0194	83509	STREAM, WIDTH METER	03/25/85-07/08/85	0	4
GRSM0195	83509	STREAM, WIDTH METER	07/16/85-07/16/85	0	1
GRSM0206	83509	STREAM, WIDTH METER	07/08/85-07/08/85	0	1
GRSM0213	83509	STREAM, WIDTH METER	03/28/85-07/16/85	0	4
GRSM0237	83509	STREAM, WIDTH METER	03/28/85-07/10/85	0	4
GRSM0255	83509	STREAM, WIDTH METER	07/07/85-07/07/85	0	1
GRSM0259	83509	STREAM, WIDTH METER	03/24/85-07/07/85	0	4
GRSM0011	85001	BOD, 5 DAY LBS/DAY	07/29/68-12/08/70	2	5
GRSM0070	85001	BOD, 5 DAY LBS/DAY	07/29/68-06/18/70	1	4
GRSM0073	85001	BOD, 5 DAY LBS/DAY	07/29/68-06/18/70	1	4
GRSM0005	85664	WEIGHT, WET, OF FISH LIVER GRAMS	12/01/92-11/16/93	0	15
GRSM0020	85664	WEIGHT, WET, OF FISH LIVER GRAMS	11/17/93-11/17/93	0	10
GRSM0069	85664	WEIGHT, WET, OF FISH LIVER GRAMS	12/01/92-11/18/93	0	14
GRSM0005	85665	WEIGHT, WET, FISH, RIGHT FILLET GRAMS	12/01/92-11/16/93	0	15
GRSM0020	85665	WEIGHT, WET, FISH, RIGHT FILLET GRAMS	11/17/93-11/17/93	0	10
GRSM0069	85665	WEIGHT, WET, FISH, RIGHT FILLET GRAMS	12/01/92-11/18/93	0	14
GRSM0005	85666	WEIGHT, WET, FISH, LEFT FILLET GRAMS	12/01/92-11/16/93	0	15
GRSM0020	85666	WEIGHT, WET, FISH, LEFT FILLET GRAMS	11/17/93-11/17/93	0	10
GRSM0069	85666	WEIGHT, WET, FISH, LEFT FILLET GRAMS	12/01/92-11/18/93	0	14
GRSM0188	85675	TRICHLOROBENZENE,1,3,5- TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0188	85676	TRICHLOROBENZENE,1,2,3- TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0188	85677	TETRACHLOROBENZENE,1,2,4,5- TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0188	85678	TETRACHLOROBENZENE,1,2,3,5- TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0188	85679	PENTACHLOROBENZENE TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0188	85680	DIPHENYL DISULFIDE TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0188	85681	OCTACHLOROSTYRENE TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0188	85682	NITROFEN TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0188	85683	PERTHANE TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1
GRSM0188	85684	DICOFOL (KELTHANE) TISSUE,WET,WT,MG/KG	10/17/84-10/17/84	0	1

Station-By-Station Results

Station Inventory for Station: GRSM0001

NPS Station ID: GRSM0001 LAT/LON: 35.400004/ -83.625005 Agency: 11EPALES Date Created: / /
Location: PANTHER CREEK
Station Type: /TYPA/AMBNT/STREAM
FIPS State/County: 37000 NORTH CAROLINA/
STORET Station ID(s): 3704E1 /LS3704E1
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: T/FONTANA LAKE Elevation: 0 Water Body Id:
Minor Basin: HWY 28 BRDG 6.5 MI W JCT WITH HWY 19 ECO Region:
RF1 Index: 06010202003 RF1 Mile Point: 27.970 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202041000.00 RF3 Mile Point: 0.00 Distance from RF3: 0.04 On/Off RF3:
Description:
AT ST HWY 28 BRDG ABOUT 6.5 MI W OF JCT WITH US HWY 19

Parameter Inventory for Station: GRSM0001

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	12	0.028	0.052	0.198	0.015	0.003	0.055	0.015	0.017	0.067	0.175
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	12##	0.001	0.001	0.002	0.001	0.	0.001	0.001	0.001	0.001	0.002
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	12	0.057	0.068	0.138	0.017	0.001	0.037	0.022	0.041	0.087	0.136
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	12	0.265	0.208	0.44	0.05	0.019	0.139	0.05	0.05	0.3	0.407
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	12	0.055	0.067	0.14	0.02	0.001	0.038	0.023	0.043	0.09	0.137
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	12	0.015	0.015	0.025	0.01	0.	0.005	0.01	0.01	0.02	0.024
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	12	0.007	0.006	0.012	0.003	0.	0.004	0.003	0.003	0.008	0.012

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

EPA Water Quality Criteria Analysis for Station: GRSM0001

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	12	0	0.00	8	0	0.00	4	0	0.00						
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	12	0	0.00	8	0	0.00	4	0	0.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	12	0	0.00	8	0	0.00	4	0	0.00						

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

Station Inventory for Station: GRSM0002

NPS Station ID: GRSM0002 LAT/LON: 35.400004/ -83.675004 Agency: 11EPALES Date Created: / /
Location: STECOAH CREEK FIPS State/County: 37000 NORTH CAROLINA/
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 3704F1 /LS3704F1
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: T/FONTANA LAKE Elevation: 0 Water Body Id:
Minor Basin: RD 1236 BRDG 3 MI NNE OF STECOAH ECO Region:
RF1 Index: 06010202003 RF1 Mile Point: 15.970 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202000100.54 RF3 Mile Point: 0.54 Distance from RF3: 0.03 On/Off RF3:
Description:
AT SECONDARY RD #1236 BRDG ABOUT 3 MI NNE OF STECOAH

Parameter Inventory for Station: GRSM0002

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.024	0.049	0.15	0.015	0.002	0.046	0.016	0.022	0.07	0.145
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13##	0.001	0.001	0.002	0.001	0.	0.	0.001	0.001	0.001	0.002
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.23	0.233	0.39	0.14	0.005	0.072	0.144	0.164	0.27	0.366
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	13	0.33	0.659	2.52	0.1	0.575	0.758	0.1	0.175	0.8	2.304
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	13	0.23	0.235	0.39	0.14	0.005	0.072	0.144	0.17	0.275	0.366
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	13	0.03	0.034	0.065	0.02	0.	0.013	0.02	0.025	0.045	0.057
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	13	0.011	0.011	0.015	0.006	0.	0.002	0.007	0.01	0.012	0.014

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

EPA Water Quality Criteria Analysis for Station: GRSM0002

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	13	0	0.00	8	0	0.00	5	0	0.00						
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						

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

Station Inventory for Station: GRSM0003

NPS Station ID: GRSM0003 LAT/LON: 35.410003/ -83.556671 Agency: 131TVAC Date Created: 05/01/93
Location: FONTANA RESERVOIR - ABOVE GREASY BRANCH
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/FISH/STREAM
STORET Station ID(s): 370177 /LTRM 081.50
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 081.50
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 81.5 ECO Region:
RF1 Index: 06010202 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010201002800.00 RF3 Mile Point: 2.05 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0003

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/22/93-10/19/94	245	19.2	18.596	29.8	8.4	28.671	5.355	11.	14.	22.55	26.02
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/24/93-09/24/93	1	3.4	3.4	3.4	3.4	0.	0.	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	05/19/93-10/19/94	12	3.26	3.243	4.1	1.1	0.751	0.867	1.49	2.95	4.05	4.1
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/22/93-10/19/94	245	26.	26.869	39.	20.	18.589	4.312	21.6	23.5	30.	33.
00300 OXYGEN, DISSOLVED MG/L	04/22/93-10/19/94	245	7.3	7.469	11.4	2.6	3.188	1.785	5.3	6.3	8.6	9.94
00400 PH (STANDARD UNITS)	04/22/93-10/19/94	245	6.7	6.865	9.	6.	0.397	0.63	6.3	6.5	7.	7.904
00400 CONVERTED PH (STANDARD UNITS)	04/22/93-10/19/94	245	6.7	6.601	9.	6.	0.467	0.683	6.3	6.5	7.	7.904
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/22/93-10/19/94	245	0.2	0.251	1.	0.001	0.048	0.218	0.012	0.1	0.316	0.501
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/22/93-08/18/94	4	0.11	0.105	0.16	0.04	0.003	0.052	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/22/93-08/18/94	5##	0.005	0.033	0.1	0.005	0.002	0.042	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/22/93-08/18/94	5	0.1	0.066	0.11	0.005	0.003	0.056	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/22/93-08/18/94	4	0.01	0.011	0.02	0.003	0.	0.007	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/22/93-08/18/94	4	0.005	0.005	0.008	0.001	0.	0.003	**	**	**	**
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	04/22/93-08/18/94	4	1.15	1.125	1.4	0.8	0.076	0.275	**	**	**	**
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/16/93-08/16/93	1	1500.	1500.	1500.	1500.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/16/93-08/16/93	1	6900.	6900.	6900.	6900.	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	1	45.	45.	45.	45.	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/16/93-08/16/93	1	38.	38.	38.	38.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/16/93-08/16/93	1	22.	22.	22.	22.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/16/93-08/16/93	1	790.	790.	790.	790.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/16/93-08/16/93	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/16/93-08/16/93	1	4800.	4800.	4800.	4800.	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/16/93-08/16/93	1	47000.	47000.	47000.	47000.	0.	0.	**	**	**	**
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/22/93-10/19/94	14	3.	3.143	7.	1.	2.44	1.562	1.5	2.	4.	6.
32212 CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	14##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
32214 CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	14##	0.5	0.643	1.	0.5	0.055	0.234	0.5	0.5	1.	1.
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/22/93-10/19/94	14##	0.5	0.714	1.	0.5	0.066	0.257	0.5	0.5	1.	1.
34257 B-BHC-BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
34262 DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
34354 ENDOSULFAN SULFATE DRY WGTBOTUG/KG	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
34359 ENDOSULFAN, BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
34364 ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
34369 ENDRIN ALDEHYDE DRY WGTBOTUG/KG	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39076 BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39301 P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39311 P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0003

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39321 P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39333 ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39343 GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39351 CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39383 DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39393 ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39403 TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	1##	250.	250.	250.	250.	0.	0.	**	**	**	**
39413 HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39423 HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39481 METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39491 PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	08/16/93-08/16/93	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39495 PCB - 1232 BOT. DEP..PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39499 PCB - 1242 BOT. DEP..PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39503 PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39507 PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39511 PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39514 PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	08/16/93-08/16/93	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
70318 SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/16/93-08/16/93	1	41.3	41.3	41.3	41.3	0.	0.	**	**	**	**
70322 SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/16/93-08/16/93	1	11.6	11.6	11.6	11.6	0.	0.	**	**	**	**
71921 MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/16/93-08/16/93	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
82078 TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/19/94-10/19/94	7	2.2	4.114	10.3	1.4	13.668	3.697	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0003

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	245	9	0.04	27	0	0.00	218	9	0.04						
00400 PH	Other-Hi Lim.	9.	245	1	0.00	27	0	0.00	218	1	0.00						
	Other-Lo Lim.	6.5	245	87	0.36	27	9	0.33	218	78	0.36						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00				5	0	0.00						
82078 TURBIDITY, FIELD	Other-Hi Lim.	50.	7	0	0.00	1	0	0.00	6	0	0.00						

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

Station Inventory for Station: GRSM0004

NPS Station ID: GRSM0004 LAT/LON: 35.413060/ -83.558060 Agency: 11EPALES Date Created: / /
Location: FONTANA LAKE FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 370405
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 159 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010202006 RF1 Mile Point: 4.910 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203000100.00 RF3 Mile Point: 0.00 Distance from RF3: 0.04 On/Off RF3:
Description:

JUST DOWNLAKE FROM MOUTH OF THE STEVENSON RIVER ENTERING FROM THE EAST, LOCATED IN OLD RIVER CHANNEL NORTHEAST OF LARGE IRREGULAR-SHAPED ISLAND ABOUT 250 YDS AWAY. MILE 3 3/4 TUCKASEGEE RIVER. COMMENTS: 6-3, ULE 16, MUCH DEBRIS ON SURFACE (STICKS, PINE NEEDLES, ETC.); DOUBLE HEAVY TURBIDITY PEAKS ON PROFILE; TEMPERATURE STEEP SLOPE

Parameter Inventory for Station: GRSM0004

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/03/73-10/26/73	23	20.5	19.374	27.4	9.8	22.417	4.735	11.14	16.6	22.3	26.12
00074 TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/03/73-10/26/73	23	92.	78.522	98.	6.	843.806	29.048	20.4	84.	95.	97.6
00077 TRANSPARENCY, SECCHI DISC (INCHES)	06/03/73-10/26/73	3	84.	90.	156.	30.	3996.	63.214	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	14	24.5	25.071	28.	22.	2.841	1.685	23.	24.	27.	27.5
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/03/73-06/03/73	9	20.	19.444	21.	17.	2.028	1.424	17.	18.	20.5	21.
00300 OXYGEN, DISSOLVED MG/L	06/03/73-10/26/73	20	6.9	7.05	10.	2.2	2.922	1.709	5.8	6.	8.15	9.
00400 PH (STANDARD UNITS)	06/03/73-10/26/73	23	6.6	6.743	8.2	5.4	0.584	0.764	5.68	6.2	7.3	7.94
00400 CONVERTED PH (STANDARD UNITS)	06/03/73-10/26/73	23	6.6	6.213	8.2	5.4	0.879	0.937	5.68	6.2	7.3	7.94
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/03/73-10/26/73	23	0.251	0.613	3.981	0.006	0.965	0.982	0.013	0.05	0.631	2.141
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/03/73-10/26/73	23##	5.	8.261	16.	5.	18.565	4.309	5.	5.	13.	14.6
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/03/73-10/26/73	23	0.12	0.12	0.2	0.06	0.002	0.039	0.064	0.08	0.15	0.17
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/03/73-10/26/73	23	0.4	0.383	1.	0.1	0.038	0.195	0.1	0.3	0.5	0.56
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/03/73-10/26/73	23	0.21	0.23	0.41	0.08	0.009	0.093	0.12	0.17	0.29	0.406
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/03/73-10/26/73	23	0.017	0.029	0.082	0.007	0.001	0.024	0.01	0.011	0.034	0.078
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/03/73-10/26/73	23	0.007	0.008	0.016	0.004	0.	0.003	0.005	0.006	0.009	0.012
32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/03/73-10/26/73	3	3.6	4.1	6.	2.7	2.91	1.706	**	**	**	**
72025 DEPTH OF POND OR RESERVOIR IN FEET	06/03/73-10/26/73	3	130.	133.	159.	110.	607.	24.637	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0004

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	20	1	0.05	5	0	0.00	15	1	0.07						
00400 PH	Other-Hi Lim.	9.	23	0	0.00	6	0	0.00	17	0	0.00						
	Other-Lo Lim.	6.5	23	10	0.43	6	4	0.67	17	6	0.35						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	23	0	0.00	6	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

Station Inventory for Station: GRSM0005

NPS Station ID: GRSM0005 LAT/LON: 35.413616/ -83.560559 Agency: 131TVAC Date Created: / /
Location: FONTANA RESERVOIR
Station Type: /TYPA/AMBNT/FISH/STREAM
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
STORET Station ID(s): 360230 /3959
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 081.00
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 81.0 ECO Region:
RF1 Index: 06010202 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010203000901.21 RF3 Mile Point: 1.21 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0005

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		09/29/70-09/29/70	8	23.9	23.3	24.4	21.1	1.757	1.326	**	**	**	**
00019 SAMPLE WEIGHT IN GRAMS		09/23/87-11/16/93	25	716.	828.12	2148.	296.	235954.277	485.751	359.8	439.	996.	1702.8
00039 SAMPLE LENGTH IN MILLIMETERS		09/23/87-11/16/93	25	406.	438.68	651.	300.	7990.893	89.392	344.2	365.	490.	594.
00300 OXYGEN, DISSOLVED	MG/L	09/29/70-09/29/70	5	5.7	5.72	6.4	5.2	0.197	0.444	**	**	**	**
00326 BOD, 28 DAY, 20 DEG C	MG/L	09/29/70-09/29/70	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)		09/29/70-09/29/70	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)		09/29/70-09/29/70	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)		09/29/70-09/29/70	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		09/29/70-09/29/70	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
85664 WEIGHT, WET, OF FISH LIVER	GRAMS	12/01/92-11/16/93	15	12.	13.533	30.	2.	72.267	8.501	3.2	8.	20.	28.8
85665 WEIGHT, WET, FISH, RIGHT FILLET	GRAMS	12/01/92-11/16/93	15	205.	210.267	341.	87.	4847.495	69.624	113.4	148.	258.	314.6
85666 WEIGHT, WET, FISH, LEFT FILLET	GRAMS	12/01/92-11/16/93	15	200.	199.6	343.	87.	4850.829	69.648	96.6	162.	250.	316.

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

EPA Water Quality Criteria Analysis for Station: GRSM0005

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00				5	0	0.00						
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00				1	0	0.00						

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

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00019 SAMPLE WEIGHT IN GRAMS	09/23/87-11/16/93	20	779.	782.7	1734.	346.	136752.432	369.801	372.1	434.	963.75	1380.6
00039 SAMPLE LENGTH IN MILLIMETERS	09/23/87-11/16/93	20	405.	428.3	603.	300.	5951.379	77.145	340.7	359.75	479.	525.6

** - 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: 4/01 to 9/30 - Station GRSM0005

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00019 SAMPLE WEIGHT IN GRAMS	09/23/87-11/16/93	5	471.	1009.8	2148.	296.	714577.2	845.327	**	**	**	**
00039 SAMPLE LENGTH IN MILLIMETERS	09/23/87-11/16/93	5	407.	480.2	651.	359.	16982.7	130.318	**	**	**	**

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

Station Inventory for Station: GRSM0006

NPS Station ID: GRSM0006 LAT/LON: 35.420559/ -83.574449 Agency: 131TVAC Date Created: 05/05/79
Location: FONTANA RESERVOIR
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370005
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 080.00
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 80.0 ECO Region:
RF1 Index: 06010202003 RF1 Mile Point: 38.760 Distance from RF1: 0.80 On/Off RF1: OFF
RF3 Index: 06010203004102.44 RF3 Mile Point: 3.29 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0006

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/25/79-09/26/79	101	18.	17.494	26.8	8.	27.762	5.269	10.52	12.6	22.2	23.96
00070 TURBIDITY, (JACKSON CANDLE UNITS)		04/25/79-09/26/79	12##	1.2	1.575	3.9	0.5	1.549	1.245	0.5	0.5	2.625	3.69
00080 COLOR (PLATINUM-COBALT UNITS)		04/25/79-09/26/79	4	5.	5.25	8.	3.	4.25	2.062	**	**	**	**
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		04/25/79-04/25/79	26	587.5	566.731	615.	470.	2095.885	45.781	477.	552.5	600.	610.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/13/79-09/26/79	75	27.	25.12	30.	10.	36.431	6.036	18.	20.	30.	30.
00300 OXYGEN, DISSOLVED	MG/L	04/25/79-09/26/79	101	8.8	8.094	10.4	2.7	2.747	1.657	5.72	7.	9.4	9.8
00310 BOD, 5 DAY, 20 DEG C	MG/L	04/25/79-09/26/79	8##	0.75	0.788	1.2	0.5	0.098	0.314	**	**	**	**
00400 PH (STANDARD UNITS)		04/25/79-09/26/79	101	6.4	6.682	8.6	5.9	0.56	0.749	6.1	6.2	6.7	8.1
00400 CONVERTED PH (STANDARD UNITS)		04/25/79-09/26/79	101	6.4	6.364	8.6	5.9	0.663	0.814	6.1	6.2	6.7	8.1
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/25/79-09/26/79	101	0.398	0.433	1.259	0.003	0.102	0.32	0.008	0.2	0.631	0.794
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		04/25/79-09/26/79	20	6.	5.8	7.	4.	1.116	1.056	4.	5.	7.	7.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		04/25/79-09/26/79	19	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		04/25/79-09/26/79	12##	0.5	0.958	3.	0.5	0.612	0.782	0.5	0.5	1.	2.7
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)		04/25/79-09/26/79	20	0.06	0.063	0.13	0.01	0.002	0.042	0.01	0.02	0.103	0.129
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		04/25/79-09/26/79	20	0.04	0.038	0.12	0.005	0.001	0.026	0.006	0.02	0.05	0.06
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		04/25/79-09/26/79	20	0.04	0.051	0.13	0.005	0.002	0.042	0.005	0.005	0.08	0.12
00665 PHOSPHORUS, TOTAL (MG/L AS P)		04/25/79-09/26/79	20	0.01	0.011	0.02	0.005	0.	0.004	0.006	0.01	0.01	0.02
00677 PHOSPHORUS,HYDROLYZABLE + ORTHO,DIS,AUTOANALYZER		04/25/79-09/26/79	15##	0.005	0.005	0.01	0.005	0.	0.001	0.005	0.005	0.005	0.007
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		04/25/79-09/26/79	12	20.	21.667	30.	20.	15.152	3.892	20.	20.	20.	30.

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

EPA Water Quality Criteria Analysis for Station: GRSM0006

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	12	0	0.00				12	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	101	2	0.02				101	2	0.02						
00400 PH	Other-Hi Lim.	9.	101	0	0.00				101	0	0.00						
	Other-Lo Lim.	6.5	101	71	0.70				101	71	0.70						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	20	0	0.00				20	0	0.00						

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

Station Inventory for Station: GRSM0007

NPS Station ID: GRSM0007 LAT/LON: 35.420837/ -83.572226 Agency: 21NC01WQ Date Created: 02/24/76
Location: FONTANA LAKE NR ALMONDS NC INACT-790713
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G3840000 /LTN014B
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 999 Aquifer:
Major Basin: SE Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010202012 RF1 Mile Point: 1.710 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202000100.56 RF3 Mile Point: 0.56 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0007

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-07/31/79	16	27.	25.456	29.	8.3	24.237	4.923	17.89	25.	28.	29.
00023 SAMPLE WEIGHT IN POUNDS	07/16/74-07/29/75	2	26.	26.	27.	25.	2.	1.414	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-07/25/78	6	4.8	8.2	31.	1.6	126.924	11.266	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-07/31/79	15	2.	5.653	50.	1.2	154.089	12.413	1.23	1.5	3.	25.4
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-07/31/79	13	25.	26.308	30.	22.	12.564	3.545	22.	22.5	30.	30.
00300 OXYGEN, DISSOLVED MG/L	07/16/74-07/31/79	16	8.25	8.356	9.6	7.	0.417	0.646	7.42	8.025	8.8	9.25
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	4	101.	96.5	104.	80.	129.	11.358	**	**	**	**
00308 BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/29/75	2	26.	26.	30.	22.	32.	5.657	**	**	**	**
00400 PH (STANDARD UNITS)	07/29/75-07/31/79	16	8.35	7.888	9.2	1.	3.71	1.926	5.41	7.725	8.875	9.06
00400 CONVERTED PH (STANDARD UNITS)	07/29/75-07/31/79	16	8.325	2.204	9.2	1.	38.165	6.178	5.41	7.725	8.875	9.06
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-07/31/79	16	0.005	6250.01	100000.	0.001	624999871.429	24999.997	0.001	0.001	0.019	30000.035
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/75-07/31/79	15	8.	8.333	10.	7.	0.524	0.724	7.6	8.	9.	9.4
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	16	1.	1.188	8.	0.	4.029	2.007	0.	0.	1.	4.5
00500 RESIDUE, TOTAL (MG/L)	07/31/78-07/31/78	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00520 RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	2##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-07/31/78	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-07/31/79	8##	0.025	0.042	0.16	0.025	0.002	0.048	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-07/31/79	8	0.2	0.238	0.6	0.1	0.023	0.151	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-07/31/79	8##	0.025	0.048	0.21	0.025	0.004	0.065	**	**	**	**
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	2	8.3	8.3	8.4	8.2	0.02	0.141	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-07/31/79	8##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	2##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00740 SULFITE (MG/L AS SO3)	07/29/75-07/29/75	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	2	165.	165.	270.	60.	22050.	148.492	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	07/07/77-07/31/79	6##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	07/29/75-07/31/79	7##	25.	25.	25.	25.	0.	0.	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-07/31/79	7##	25.	25.	25.	25.	0.	0.	**	**	**	**
01037 COBALT, TOTAL (UG/L AS CO)	07/29/75-07/31/79	7##	50.	50.	50.	50.	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	2##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	07/16/74-07/31/79	8##	20.	46.25	110.	20.	1655.357	40.686	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	07/29/75-07/31/79	7##	50.	75.714	130.	50.	1128.571	33.594	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	07/16/74-07/31/79	8##	50.	50.	50.	50.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	07/29/75-07/31/79	7##	25.	25.	25.	25.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	1##	50.	50.	50.	50.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0007

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075 SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	07/16/74-07/31/79	8##	25.	56.875	180.	25.	3049.554	55.223	**	**	**	**
01132 LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	2	15.	15.	20.	10.	50.	7.071	**	**	**	**
31508 COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	8.	8.	8.	8.	0.	0.	**	**	**	**
31508 LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	0.903	0.903	0.903	0.903	0.	0.	**	**	**	**
31508 GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.			GEOMETRIC MEAN =	8.								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	17##	2.5	2.735	5.	0.5	4.316	2.078	0.5	0.5	5.	5.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	17##	0.398	0.252	0.699	-0.301	0.21	0.458	-0.301	-0.301	0.699	0.699
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	1.786								
32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/02/79-07/02/79	1	34.	34.	34.	34.	0.	0.	**	**	**	**
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-07/02/79	3	1.	10.333	30.	0.	290.333	17.039	**	**	**	**
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-07/02/79	3	98.	69.	104.	5.	3081.	55.507	**	**	**	**
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	7##	2.5	7.571	38.	2.5	180.036	13.418	**	**	**	**
50086 SETTLEABLE MATTER (ML/L/HR)	07/25/78-07/25/78	1	30.	30.	30.	30.	0.	0.	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	2	50.	50.	50.	50.	0.	0.	**	**	**	**
70305 SALINITY BASED ON CONDUCTIVITY	07/16/74-07/19/78	3	0.	0.267	0.8	0.	0.213	0.462	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-07/02/79	5##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	07/16/74-07/31/79	8##	0.25	0.344	1.	0.25	0.07	0.265	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRSM0007

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	6	0	0.00				6	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	16	0	0.00				16	0	0.00						
00400 PH	Other-Hi Lim.	9.	16	3	0.19				16	3	0.19						
	Other-Lo Lim.	6.5	16	1	0.06				16	1	0.06						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00				8	0	0.00						
00720 CYANIDE, TOTAL	Fresh Acute	0.022	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	2	1.00				2	2	1.00						
01002 ARSENIC, TOTAL	Fresh Acute	360.	6	0	0.00				6	0	0.00						
	Drinking Water	50.	6	0	0.00				6	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0&	0	0.00												
	Drinking Water	5.	0&	0	0.00												
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00				2	0	0.00						
01034 CHROMIUM, TOTAL	Drinking Water	100.	7	0	0.00				7	0	0.00						
01040 COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00				2	0	0.00						
	Drinking Water	1300.	2	0	0.00				2	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	3&	3	1.00				3	3	1.00						
	Drinking Water	1300.	8	0	0.00				8	0	0.00						
01051 LEAD, TOTAL	Fresh Acute	82.	8	0	0.00				8	0	0.00						
	Drinking Water	5.	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						
01075 SILVER, DISSOLVED	Fresh Acute	4.1	0&	0	0.00												
	Drinking Water	50.	2	0	0.00				2	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	8	1	0.13				8	1	0.13						
31508 COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	1	0	0.00				1	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	17	0	0.00				17	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00				8	0	0.00						
	Drinking Water	2.	8	0	0.00				8	0	0.00						

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

Station Inventory for Station: GRSM0008

NPS Station ID: GRSM0008 LAT/LON: 35.427503/ -83.648060 Agency: 131TVAC Date Created: / /
Location: FONTANA RESERVOIR FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 360229 /3953
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 071.00
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 71.0 ECO Region:
RF1 Index: 06010202 RF1 Mile Point: 0.000 Distance from RF1: 7.60 On/Off RF1:
RF3 Index: 06010204047200.00 RF3 Mile Point: 0.99 Distance from RF3: 0.28 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0008

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		09/29/70-09/26/79	171	15.	15.381	26.3	5.7	31.77	5.636	7.52	11.	20.	23.08
00070 TURBIDITY, (JACKSON CANDLE UNITS)		04/25/79-09/26/79	12	1.55	1.667	3.6	0.5	1.088	1.043	0.5	0.625	2.525	3.33
00080 COLOR (PLATINUM-COBALT UNITS)		04/25/79-09/26/79	4	5.	5.25	7.	4.	1.583	1.258	**	**	**	**
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		04/25/79-04/25/79	40	610.	604.875	630.	555.	541.651	23.273	560.5	590.	625.	630.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/13/79-09/26/79	103	25.	22.417	40.	10.	53.324	7.302	10.	15.	30.	30.
00300 OXYGEN, DISSOLVED	MG/L	09/29/70-09/26/79	156	8.15	7.374	10.4	0.1	7.55	2.748	3.21	5.625	9.6	10.
00310 BOD, 5 DAY, 20 DEG C	MG/L	04/25/79-09/26/79	8##	0.8	0.838	1.3	0.5	0.134	0.366	**	**	**	**
00326 BOD, 28 DAY, 20 DEG C	MG/L	09/29/70-09/29/70	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		04/25/79-09/26/79	144	6.25	6.412	8.3	5.8	0.373	0.611	5.9	6.	6.4	7.7
00400 CONVERTED PH (STANDARD UNITS)		04/25/79-09/26/79	144	6.247	6.207	8.3	5.8	0.416	0.645	5.9	6.	6.4	7.7
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/25/79-09/26/79	144	0.566	0.621	1.585	0.005	0.151	0.389	0.02	0.398	1.	1.259
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		04/25/79-09/26/79	20	5.	5.15	6.	4.	0.661	0.813	4.	4.25	6.	6.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		04/25/79-09/26/79	20	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		04/25/79-09/26/79	12	1.	1.542	4.	0.5	1.748	1.322	0.5	0.625	2.5	4.
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)		09/29/70-09/26/79	21	0.05	0.056	0.12	0.01	0.001	0.027	0.02	0.035	0.08	0.09
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		04/25/79-09/26/79	20	0.02	0.02	0.05	0.005	0.	0.013	0.005	0.01	0.028	0.04
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)		09/29/70-09/29/70	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)		09/29/70-09/29/70	1	0.42	0.42	0.42	0.42	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		04/25/79-09/26/79	20	0.105	0.082	0.26	0.005	0.006	0.074	0.005	0.005	0.138	0.16
00665 PHOSPHORUS, TOTAL (MG/L AS P)		09/29/70-09/26/79	21	0.01	0.008	0.01	0.003	0.	0.003	0.005	0.005	0.01	0.01
00677 PHOSPHORUS,HYDROLYZABLE + ORTHO,DIS,AUTOANALYZER		04/25/79-09/26/79	17##	0.005	0.005	0.01	0.005	0.	0.001	0.005	0.005	0.005	0.006
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		04/25/79-09/26/79	12	20.	25.	40.	10.	118.182	10.871	10.	20.	37.5	40.

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

EPA Water Quality Criteria Analysis for Station: GRSM0008

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	12	0	0.00				12	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	156	19	0.12				156	19	0.12						
00400 PH	Other-Hi Lim.	9.	144	0	0.00				144	0	0.00						
	Other-Lo Lim.	6.5	144	119	0.83				144	119	0.83						
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	1	0	0.00				1	0	0.00						
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	1	0	0.00				1	0	0.00						

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EPA Water Quality Criteria Analysis for Station: GRSM0008

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	20	0	0.00				20	0	0.00						

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

Station Inventory for Station: GRSM0009

NPS Station ID: GRSM0009 LAT/LON: 35.427781/ -83.447226 Agency: 21NC01WQ Date Created: 02/24/76
Location: TUCKASEGEE RIVER AT BRYSON CITY
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): G8600000 /LTN029A /03513000
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010203008 RF1 Mile Point: 5.250 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202000100.49 RF3 Mile Point: 0.49 Distance from RF3: 0.07 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)		02/15/83-01/09/95	94	166.	165.713	275.	3.	9190.852	95.869	60.	75.	275.	275.
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		08/13/74-01/09/95	230	13.	13.	26.	-1.	43.721	6.612	4.	8.	19.	21.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/29/75-09/09/93	168	1305.	1599.744	9330.	355.	1299007.174	1139.74	650.1	861.	1930.	2954.
00064 DEPTH OF STREAM, MEAN (FT)		02/15/83-01/09/95	93	3.	3.595	50.	2.	25.316	5.032	2.	2.	4.	5.
00065 STAGE, STREAM (FEET)		09/23/75-09/09/93	175	2.56	2.69	6.83	0.98	0.627	0.792	1.88	2.12	3.05	3.748
00076p TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		08/19/74-01/09/95	170	4.6	9.108	130.	0.5	336.044	18.332	1.72	2.8	7.	15.
00080 COLOR (PLATINUM-COBALT UNITS)		08/09/77-07/18/78	2	17.5	17.5	20.	15.	12.5	3.536	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/10/81-01/09/95	137	26.	26.547	47.	5.	43.97	6.631	20.	23.	30.	35.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		08/18/74-02/14/90	61	22.	41.426	920.	4.	13336.182	115.482	15.4	20.	29.5	43.
00300p OXYGEN, DISSOLVED	MG/L	08/13/74-01/09/95	231	9.7	10.074	16.8	6.5	2.701	1.643	8.3	8.7	11.2	12.2
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	08/13/74-09/05/85	83	92.	93.593	116.	80.	40.766	6.385	87.	89.4	97.	103.
00310 BOD, 5 DAY, 20 DEG C	MG/L	08/13/74-06/08/93	156	0.6	0.726	2.8	0.1	0.15	0.388	0.3	0.5	0.9	1.2
00335 COD, .025N K2CR2O7	MG/L	05/10/81-11/20/84	18##	5.	8.194	56.	2.5	150.092	12.251	2.5	2.5	7.75	16.4
00340 COD, .25N K2CR2O7	MG/L	01/02/75-04/16/81	63##	5.	7.079	51.	5.	42.316	6.505	5.	5.	5.	12.5
00400p PH (STANDARD UNITS)		08/13/74-01/09/95	210	6.8	6.829	8.65	5.2	0.189	0.435	6.4	6.7	7.	7.2
00400p CONVERTED PH (STANDARD UNITS)		08/13/74-01/09/95	210	6.8	6.542	8.65	5.2	0.272	0.521	6.4	6.7	7.	7.2
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		08/13/74-01/09/95	210	0.158	0.287	6.31	0.002	0.533	0.73	0.063	0.1	0.2	0.398
00403 PH, LAB, STANDARD UNITS	SU	12/10/79-12/01/94	118	6.8	6.809	7.3	6.5	0.025	0.157	6.6	6.7	6.9	7.
00403 CONVERTED PH, LAB, STANDARD UNITS		12/10/79-12/01/94	118	6.8	6.782	7.3	6.5	0.026	0.16	6.6	6.7	6.9	7.
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/10/79-12/01/94	118	0.158	0.165	0.316	0.05	0.003	0.057	0.1	0.126	0.2	0.251
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		08/13/74-02/09/93	166	7.	7.342	13.	0.8	3.564	1.888	5.	6.	8.	10.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		08/13/74-01/11/90	52	0.	1.375	25.	0.	25.587	5.058	0.	0.	0.	4.35
00430 ALKALINITY, CARBONATE (MG/L AS CACO3)		08/28/80-09/08/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)		06/25/80-10/05/93	132	8.	8.098	28.	2.	9.296	3.049	5.	6.	9.	10.7
00480 SALINITY - PARTS PER THOUSAND		12/21/89-12/21/89	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)		08/13/74-07/26/93	181	42.	49.31	500.	0.025	2393.443	48.923	25.	32.	53.	65.8
00505 RESIDUE, TOTAL VOLATILE (MG/L)		08/13/74-04/21/76	15	16.	21.473	99.	0.1	566.532	23.802	2.44	10.	21.	65.4
00510 RESIDUE, TOTAL FIXED (MG/L)		08/13/74-04/21/76	15	13.	34.88	284.	0.	5187.13	72.022	0.	1.	30.	161.6
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		08/13/74-01/09/95	196	9.	16.174	420.	0.025	1515.519	38.93	2.	4.	14.75	26.3
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)		08/13/74-04/21/76	14	3.5	6.645	34.	0.025	78.068	8.836	0.513	1.75	9.	23.5
00540 RESIDUE, FIXED NONFILTRABLE (MG/L)		08/13/74-04/21/76	14	4.5	24.5	216.	0.	3427.346	58.544	0.	0.75	9.75	146.5
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		08/18/74-11/17/94	104##	0.025	0.035	0.25	0.01	0.001	0.033	0.02	0.025	0.03	0.05
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		08/18/74-11/17/94	104	0.2	0.19	0.8	0.05	0.017	0.13	0.05	0.1	0.2	0.3
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		08/18/74-11/17/94	103	0.16	0.19	1.8	0.025	0.037	0.193	0.09	0.12	0.21	0.272
00660 PHOSPHATE, ORTHO (MG/L AS PO4)		02/24/75-04/21/76	9##	0.025	1.359	12.	0.025	15.922	3.99	0.025	0.025	0.043	12.
00665 PHOSPHORUS, TOTAL (MG/L AS P)		08/18/74-11/17/94	103	0.025	0.045	0.46	0.005	0.004	0.062	0.02	0.025	0.05	0.076
00680 CARBON, TOTAL ORGANIC (MG/L AS C)		01/02/75-12/11/80	11##	5.	6.818	25.	5.	36.364	6.03	5.	5.	5.	21.
00745 SULFIDE, TOTAL (MG/L AS S)		12/08/75-12/08/75	1##	25.	25.	25.	25.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0009

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00900	HARDNESS, TOTAL (MG/L AS CACO3)		01/02/75-01/09/95	75	8.	13.147	410.	4.	2162.884	46.507	6.	6.	9.	11.
00916	CALCIUM, TOTAL (MG/L AS CA)		02/15/77-12/21/89	7	1.6	6.429	25.	1.2	79.379	8.909	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)		12/08/75-12/21/89	11	0.8	240.309	600.	0.5	76656.895	276.87	0.5	0.5	510.	588.
00929	SODIUM, TOTAL (MG/L AS NA)		02/15/77-12/21/89	5	1.7	1.54	1.8	1.2	0.098	0.313	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER	MG/L	09/23/75-08/09/77	19	1.	2.184	11.	0.5	8.895	2.982	0.5	1.	1.	8.
00945	SULFATE, TOTAL (MG/L AS SO4)		09/23/75-08/09/77	18##	5.	4.583	5.	2.5	0.919	0.959	2.5	5.	5.	5.
00951	FLUORIDE, TOTAL (MG/L AS F)		09/23/75-08/09/77	18##	0.05	0.189	1.2	0.05	0.087	0.294	0.05	0.05	0.15	0.66
01002	ARSENIC, TOTAL (UG/L AS AS)		01/02/75-11/17/94	98##	5.	6.	30.	5.	14.082	3.753	5.	5.	5.	5.5
01007	BARIUM, TOTAL (UG/L AS BA)		08/09/77-08/09/77	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)		08/18/76-12/21/89	4##	18.75	18.75	25.	12.5	52.083	7.217	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)		01/02/75-11/17/94	100##	10.	12.34	50.	1.	133.196	11.541	1.	1.	25.	25.
01032	CHROMIUM, HEXAVALENT (UG/L AS CR)		01/02/75-01/02/75	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01034	CHROMIUM, TOTAL (UG/L AS CR)		09/23/75-11/17/94	100##	25.	20.2	130.	2.5	164.227	12.815	12.5	12.5	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)		01/02/75-12/21/89	29##	50.	48.276	50.	25.	41.564	6.447	50.	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)		01/02/75-11/17/94	101##	10.	47.96	3600.	1.	127574.398	357.176	1.	4.	20.	20.
01045	IRON, TOTAL (UG/L AS FE)		01/02/75-11/17/94	55	380.	809.127	20000.	8.	7041199.076	2653.526	142.	250.	660.	1034.
01051	LEAD, TOTAL (UG/L AS PB)		01/02/75-11/17/94	100##	50.	33.05	200.	5.	877.22	29.618	5.	5.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)		01/02/75-11/17/94	42##	25.	47.863	540.	0.25	7625.336	87.323	12.5	25.	25.	88.
01062	MOLYBDENUM, TOTAL (UG/L AS MO)		01/02/75-08/09/77	3##	50.	33.35	50.	0.05	831.668	28.839	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)		09/23/75-11/17/94	83##	25.	33.133	300.	5.	1800.433	42.432	5.	5.	50.	50.
01077	SILVER, TOTAL (UG/L AS AG)		11/18/75-12/21/89	7##	4.	12.429	25.	2.5	138.536	11.77	**	**	**	**
01087	VANADIUM, TOTAL (UG/L AS V)		12/08/75-08/09/77	2##	100.	100.	100.	100.	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)		01/02/75-11/17/94	100##	10.	113.455	9000.	0.5	807502.076	898.611	5.	5.	25.	25.
01097	ANTIMONY, TOTAL (UG/L AS SB)		08/09/77-08/09/77	1##	500.	500.	500.	500.	0.	0.	**	**	**	**
01102	TIN, TOTAL (UG/L AS SN)		08/09/77-08/09/77	1##	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)		09/23/75-11/17/94	40	300.	912.15	19000.	50.	8779538.541	2963.029	98.	167.5	700.	1080.
01132	LITHIUM, TOTAL (UG/L AS LI)		08/09/77-12/21/89	3##	12.5	16.667	25.	12.5	52.083	7.217	**	**	**	**
01147	SELENIUM, TOTAL (UG/L AS SE)		11/18/75-12/08/75	2	4.5	4.5	6.	3.	4.5	2.121	**	**	**	**
31504	COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C		09/23/75-10/29/75	2	37300.	37300.	70000.	4600.	2138580000.	46244.783	**	**	**	**
31504	LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,		09/23/75-10/29/75	2	4.254	4.254	4.845	3.663	0.699	0.836	**	**	**	**
31504	GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3				GEOMETRIC MEAN =	17944.358								
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		08/13/74-01/09/95	169	270.	543.707	4600.	0.5	688550.421	829.789	10.	100.	555.	1400.
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		08/13/74-01/09/95	169	2.431	2.254	3.663	-0.301	0.717	0.847	1.	2.	2.744	3.146
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C				GEOMETRIC MEAN =	179.48								
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID, METH.		01/02/75-01/02/75	1##	20.	20.	20.	20.	0.	0.	**	**	**	**
32730	PHENOLICS, TOTAL, RECOVERABLE (UG/L)		11/18/75-12/08/75	2	37.5	37.5	39.	36.	4.5	2.121	**	**	**	**
70305	SALINITY BASED ON CONDUCTIVITY		08/18/74-02/15/77	4	0.2	0.2	0.4	0.	0.053	0.231	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)		06/23/76-06/18/91	57##	0.025	0.018	0.025	0.005	0.	0.009	0.005	0.005	0.025	0.025
71876	SOAPS, RESIN ACID (MG/L)		11/18/75-12/08/75	2	8.	8.	9.	7.	2.	1.414	**	**	**	**
71880	FORMALDEHYDE (MG/L)		11/18/75-12/08/75	2##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)		01/02/75-11/17/94	93##	0.1	0.252	5.4	0.1	0.351	0.592	0.1	0.1	0.25	0.25
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE	CFS	02/15/77-12/06/77	4	1420.	1782.25	3350.	939.	1146186.917	1070.601	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0009

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	170	4	0.02	85	2	0.02	85	2	0.02						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	231	0	0.00	113	0	0.00	118	0	0.00						
00400	PH	Other-Hi Lim.	9.	210	0	0.00	101	0	0.00	109	0	0.00						
		Other-Lo Lim.	6.5	210	34	0.16	101	27	0.27	109	7	0.06						
00403	PH, LAB	Other-Hi Lim.	9.	118	0	0.00	63	0	0.00	55	0	0.00						
		Other-Lo Lim.	6.5	118	4	0.03	63	4	0.06	55	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	103	0	0.00	50	0	0.00	53	0	0.00						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	19	0	0.00	10	0	0.00	9	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	18	0	0.00	9	0	0.00	9	0	0.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	98	0	0.00	52	0	0.00	46	0	0.00						
		Drinking Water	50.	98	0	0.00	52	0	0.00	46	0	0.00						

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

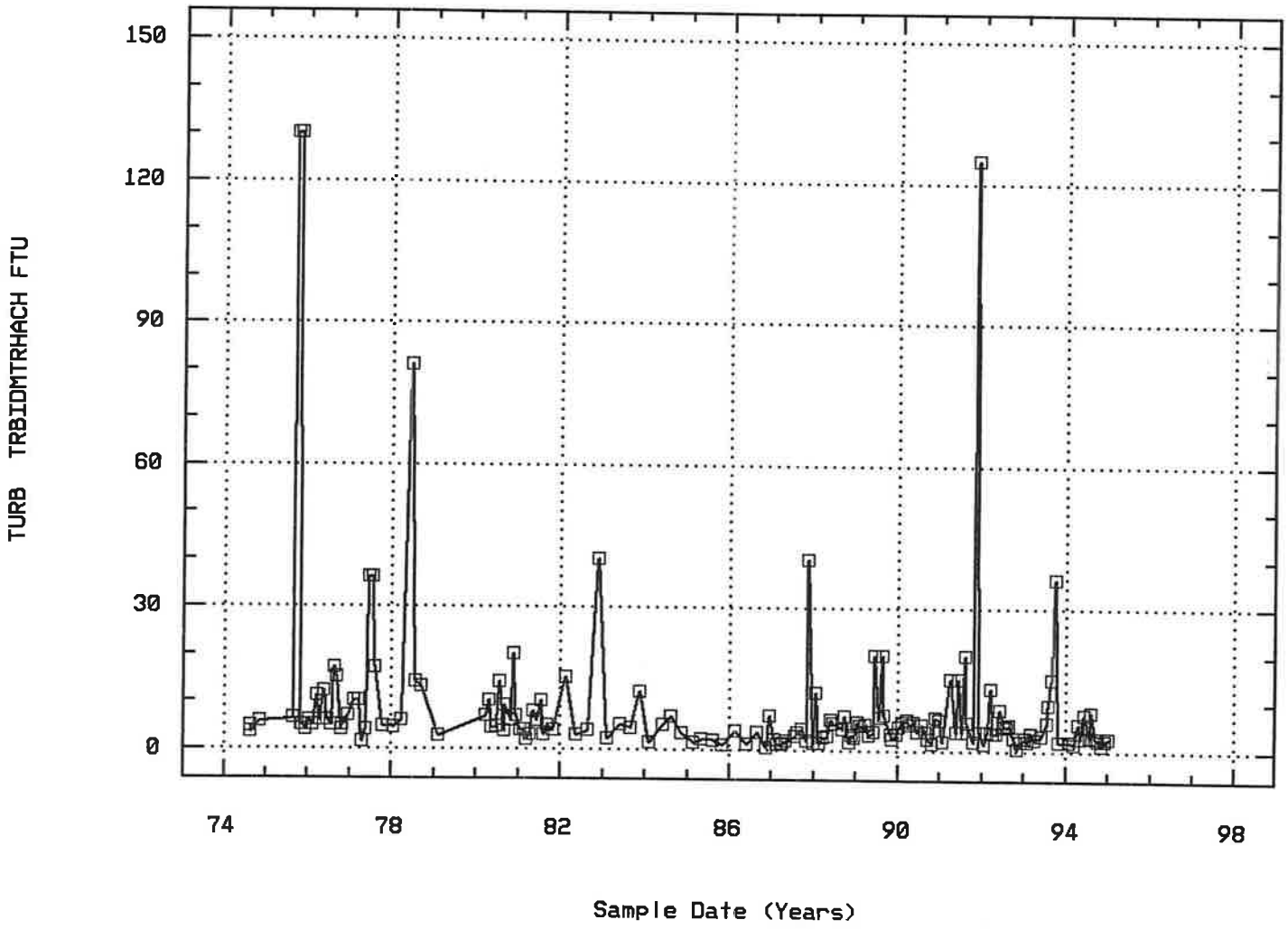
EPA Water Quality Criteria Analysis for Station: GRSM0009

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01007 BARIUM, TOTAL	Drinking Water	2000.	1	0	0.00				1	0	0.00						
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	4	0	0.00	2	0	0.00	2	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	40&	1	0.03	20	1	0.05	20	0	0.00						
	Drinking Water	5.	40&	1	0.03	20	1	0.05	20	0	0.00						
01032 CHROMIUM, HEXAVALENT	Fresh Acute	16.	0&	0	0.00												
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01034 CHROMIUM, TOTAL	Drinking Water	100.	100	1	0.01	53	0	0.00	47	1	0.02						
01042 COPPER, TOTAL	Fresh Acute	18.	64&	5	0.08	31	1	0.03	33	4	0.12						
	Drinking Water	1300.	101	1	0.01	54	0	0.00	47	1	0.02						
01051 LEAD, TOTAL	Fresh Acute	82.	100	4	0.04	53	3	0.06	47	1	0.02						
	Drinking Water	5.	5&	5	1.00	4	4	1.00	1	1	1.00						
01067 NICKEL, TOTAL	Fresh Acute	1400.	83	0	0.00	43	0	0.00	40	0	0.00						
	Drinking Water	100.	83	2	0.02	43	0	0.00	40	2	0.05						
01077 SILVER, TOTAL	Fresh Acute	4.1	4&	0	0.00	4	0	0.00									
	Drinking Water	50.	7	0	0.00	6	0	0.00	1	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	100	5	0.05	53	2	0.04	47	3	0.06						
01097 ANTIMONY, TOTAL	Fresh Acute	88.	0&	0	0.00												
	Drinking Water	10.	0&	0	0.00												
01147 SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	2	0	0.00									
	Drinking Water	50.	2	0	0.00	2	0	0.00									
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	169	100	0.59	79	34	0.43	90	66	0.73						
71900 MERCURY, TOTAL	Fresh Acute	2.4	93	1	0.01	48	0	0.00	45	1	0.02						
	Drinking Water	2.	93	2	0.02	48	0	0.00	45	2	0.04						

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

Station: GRSM0009 Parameter Code: 00076

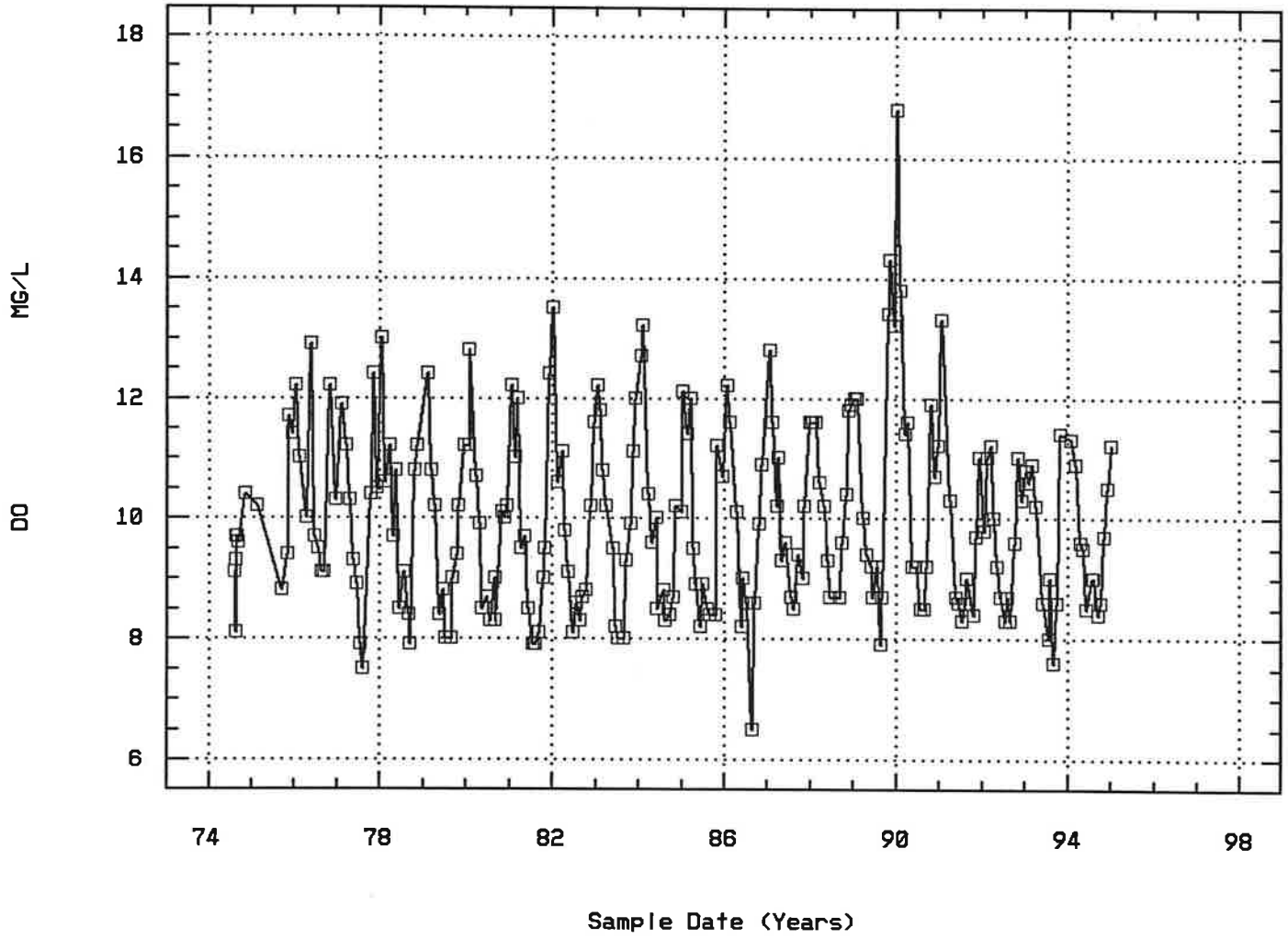
TURBIDITY,HACH TURBIDIMETER (FORMAZIN T



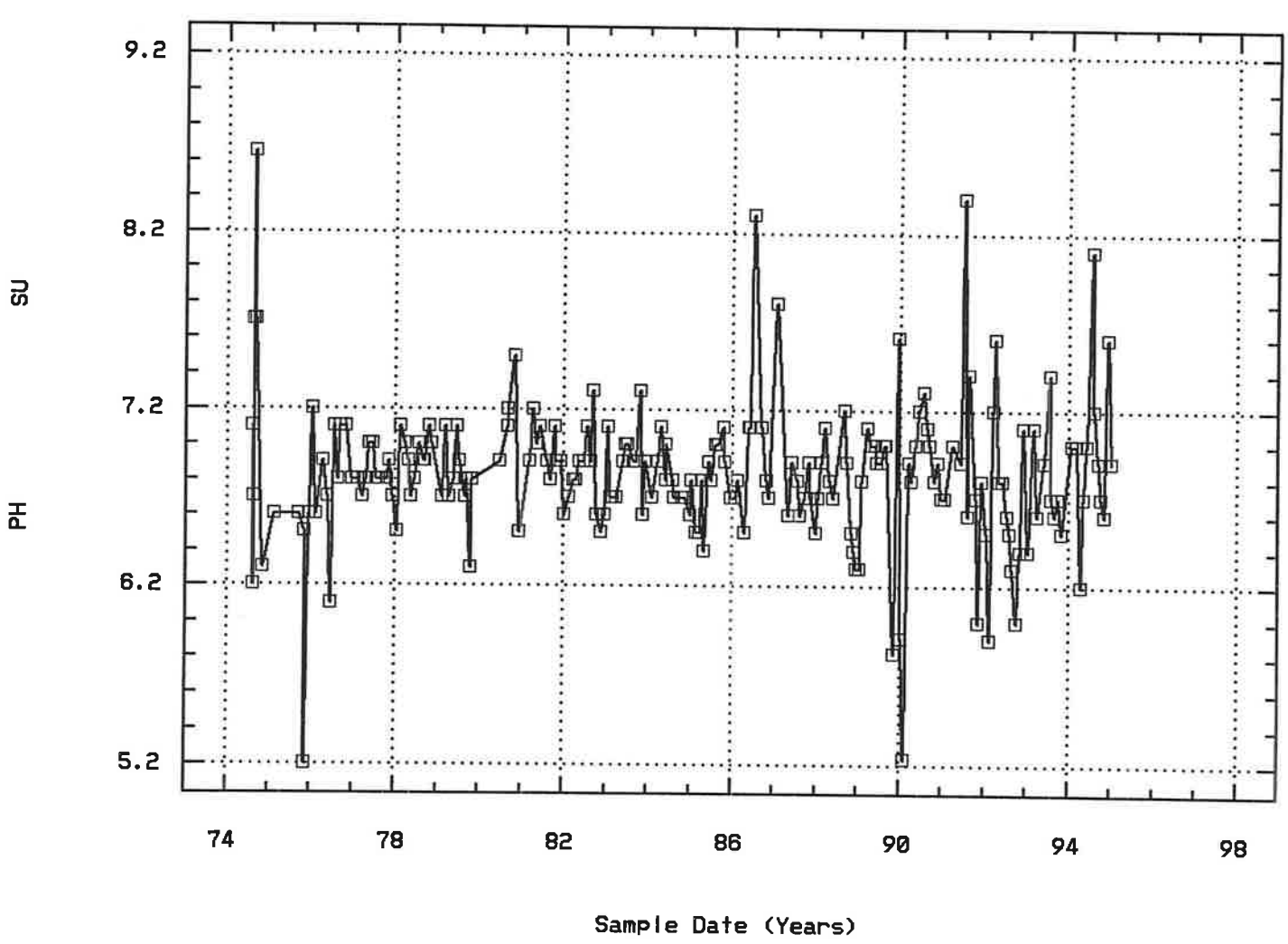
TUCKASEGEE RIVER AT BRYSON CITY

Station: GRSM0009 Parameter Code: 00300

OXYGEN, DISSOLVED



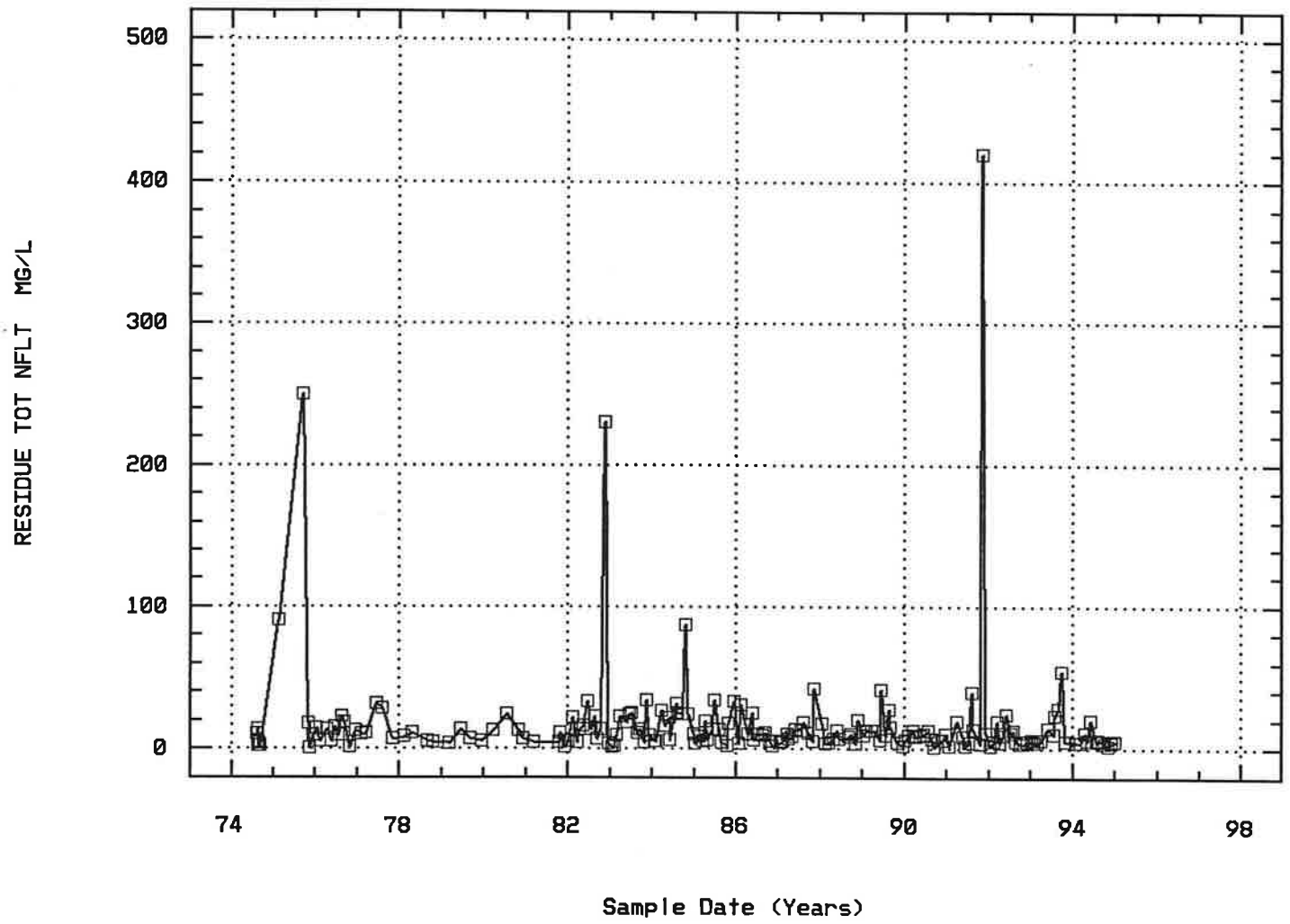
TUCKASEGEE RIVER AT BRYSON CITY



TUCKASEGEE RIVER AT BRYSON CITY

Station: GRSM0009 Parameter Code: 00530

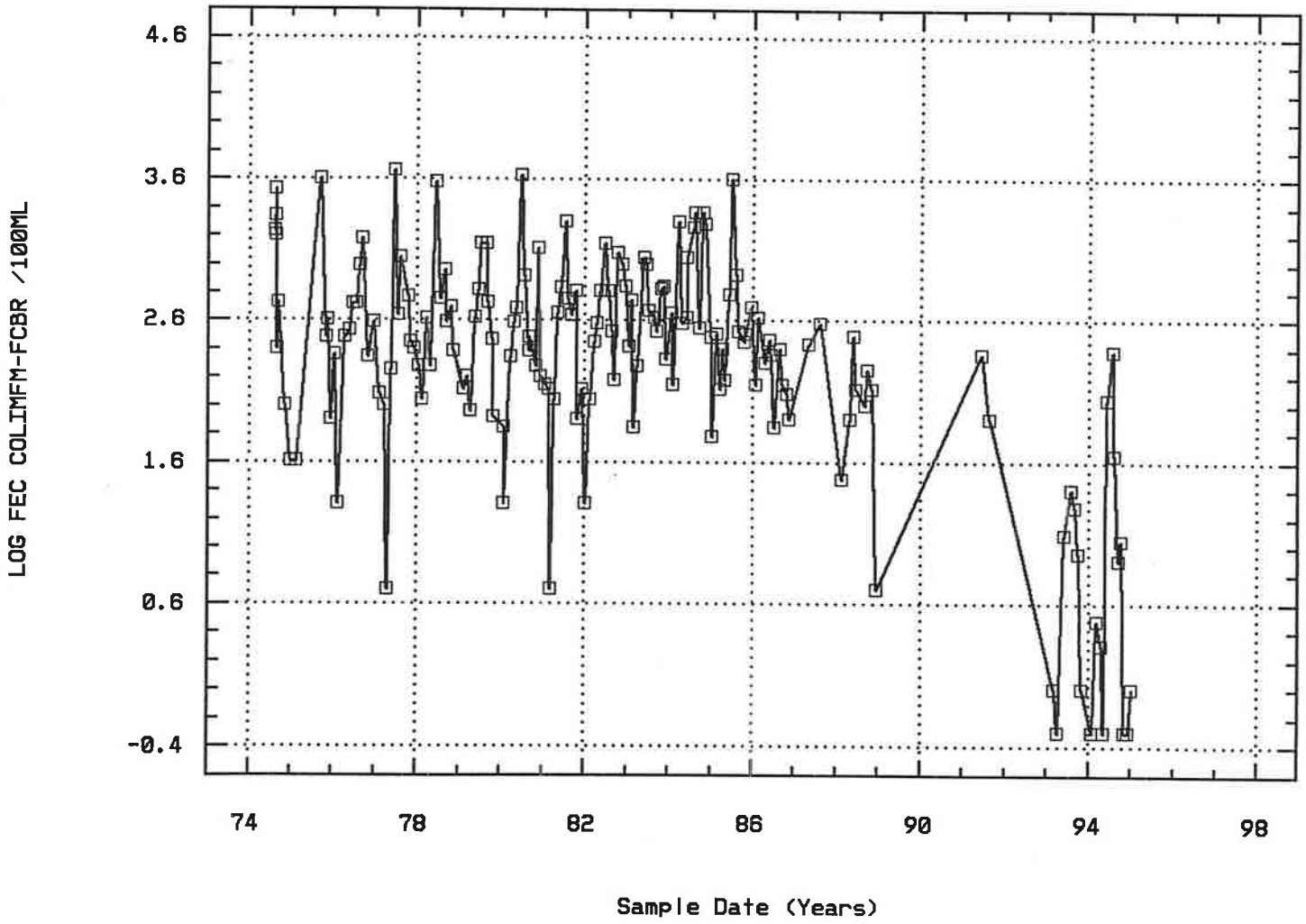
RESIDUE, TOTAL NONFILTRABLE (MG/L)



TUCKASEGEE RIVER AT BRYSON CITY

Station: GRSM0009 Parameter Code: 31616

LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



TUCKASEGEE RIVER AT BRYSON CITY

Annual Analysis for 1974 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	7	21.	18.643	22.	8.	23.726	4.871	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	3	4.6	4.6	5.7	3.5	1.21	1.1	**	**	**	**
00300p OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	7	9.6	9.414	10.4	8.1	0.501	0.708	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	5	101.	100.	108.	87.	61.	7.81	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	7	0.9	1.057	1.8	0.5	0.29	0.538	**	**	**	**
00400p PH (STANDARD UNITS)	08/13/74-01/09/95	7	7.1	7.193	8.65	6.2	0.779	0.882	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	7	7.1	6.683	8.65	6.2	1.082	1.04	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	7	0.079	0.208	0.631	0.002	0.066	0.256	**	**	**	**
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	7	6.	5.714	8.	4.	1.571	1.254	**	**	**	**
00500p RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	7	32.	28.714	43.	4.	171.905	13.111	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	6	3.5	5.667	13.	2.	21.867	4.676	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	2##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	2	0.275	0.275	0.34	0.21	0.008	0.092	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	2##	0.048	0.048	0.07	0.025	0.001	0.032	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	7	1600.	1397.143	3400.	100.	1423223.81	1192.989	**	**	**	**
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	7	3.204	2.919	3.531	2.	0.314	0.561	**	**	**	**
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		829.219									

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

Annual Analysis for 1975 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	5	11.	12.	17.	8.	18.5	4.301	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	3	1230.	1261.667	1750.	805.	224008.333	473.295	**	**	**	**
00065 STAGE, STREAM (FEET)	09/23/75-09/09/93	4	2.695	2.983	4.48	2.06	1.117	1.057	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	6	5.65	46.717	130.	4.	4162.202	64.515	**	**	**	**
00300p OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	5	10.2	10.3	11.7	8.8	1.56	1.249	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	5	94.	94.4	103.	86.	42.3	6.504	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	6	0.4	0.567	1.2	0.1	0.223	0.472	**	**	**	**
00340 COD, .25N K2CR2O7 MG/L	01/02/75-04/16/81	5##	12.5	20.2	51.	12.5	296.45	17.218	**	**	**	**
00400p PH (STANDARD UNITS)	08/13/74-01/09/95	5	6.6	6.3	6.6	5.2	0.38	0.616	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	5	6.6	5.831	6.6	5.2	0.655	0.809	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	5	0.251	1.476	6.31	0.251	7.302	2.702	**	**	**	**
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	5	6.	6.2	12.	1.	17.2	4.147	**	**	**	**
00500p RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	6	31.5	90.675	383.	0.025	21806.054	147.669	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	5	17.	73.205	250.	0.025	11043.785	105.089	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	5##	0.025	0.07	0.25	0.025	0.01	0.101	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	5	0.1	0.21	0.5	0.05	0.036	0.188	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	5	0.23	0.218	0.39	0.06	0.015	0.124	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	5##	0.025	0.143	0.46	0.025	0.036	0.189	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	6	190.	810.	4000.	40.	2464600.	1569.904	**	**	**	**
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	6	2.19	2.298	3.602	1.602	0.59	0.768	**	**	**	**
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		198.644									

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	10	14.	12.7	20.	5.	38.9	6.237	5.	5.	17.75	20.
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	6	1400.	1625.667	3250.	805.	784362.667	885.643	**	**	**	**
00065 STAGE, STREAM (FEET)	09/23/75-09/09/93	7	2.66	2.743	3.92	2.06	0.371	0.609	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	12	6.	8.25	17.	4.	19.114	4.372	4.3	5.	11.75	16.4

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Annual Analysis for 1976 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300p OXYGEN, DISSOLVED	MG/L	08/13/74-01/09/95	10	10.15	10.6	12.9	9.1	1.949	1.396	9.1	9.4	12.2	12.83
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	08/13/74-09/05/85	10	98.	98.2	116.	80.	81.956	9.053	81.4	94.75	103.	114.7
00310 BOD, 5 DAY, 20 DEG C	MG/L	08/13/74-06/08/93	10	0.6	0.81	2.8	0.2	0.577	0.759	0.21	0.375	0.9	2.64
00340 COD, .25N K2CR2O7	MG/L	01/02/75-04/16/81	10##	5.	5.7	12.	5.	4.9	2.214	5.	5.	5.	11.3
00400p PH (STANDARD UNITS)		08/13/74-01/09/95	10	6.85	6.84	7.2	6.1	0.107	0.327	6.15	6.675	7.1	7.19
00400p CONVERTED PH (STANDARD UNITS)		08/13/74-01/09/95	10	6.847	6.701	7.2	6.1	0.128	0.358	6.15	6.675	7.1	7.19
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		08/13/74-01/09/95	10	0.142	0.199	0.794	0.063	0.047	0.218	0.065	0.079	0.212	0.74
00410p ALKALINITY, TOTAL (MG/L AS CACO3)		08/13/74-02/09/93	10	7.5	7.6	10.	6.	2.044	1.43	6.	6.	9.	9.9
00500p RESIDUE, TOTAL (MG/L)		08/13/74-07/26/93	9	32.	36.333	52.	26.	78.25	8.846	26.	30.	44.5	52.
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		08/13/74-01/09/95	10	12.5	11.35	22.	0.5	42.781	6.541	0.95	5.	15.75	21.6
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		08/18/74-11/17/94	12##	0.025	0.03	0.06	0.025	0.	0.012	0.025	0.025	0.025	0.057
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		08/18/74-11/17/94	12	0.2	0.238	0.6	0.05	0.035	0.187	0.065	0.1	0.3	0.6
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		08/18/74-11/17/94	11	0.13	0.148	0.25	0.09	0.003	0.053	0.09	0.11	0.18	0.244
00665 PHOSPHORUS, TOTAL (MG/L AS P)		08/18/74-11/17/94	12##	0.025	0.035	0.1	0.025	0.001	0.023	0.025	0.025	0.044	0.085
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		08/13/74-01/09/95	10	365.	501.	1500.	20.	186787.778	432.19	40.	227.5	632.5	1447.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		08/13/74-01/09/95	10	2.561	2.52	3.176	1.301	0.253	0.503	1.405	2.357	2.784	3.157
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		331.109									

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Annual Analysis for 1977 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		08/13/74-01/09/95	10	14.5	14.8	26.	8.	47.067	6.861	8.	8.	22.	25.6
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/29/75-09/09/93	3	1480.	1923.	3350.	939.	1600417.	1265.076	**	**	**	**
00065 STAGE, STREAM (FEET)		09/23/75-09/09/93	4	2.66	2.868	3.95	2.2	0.571	0.756	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		08/19/74-01/09/95	8	10.	14.913	36.	1.5	191.89	13.852	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	08/13/74-01/09/95	10	10.35	10.03	12.4	7.5	2.629	1.621	7.54	8.65	11.375	12.35
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	08/13/74-09/05/85	10	98.5	96.7	106.	85.	58.233	7.631	85.2	87.75	103.25	105.8
00310 BOD, 5 DAY, 20 DEG C	MG/L	08/13/74-06/08/93	10	0.7	0.75	1.2	0.2	0.154	0.392	0.2	0.425	1.2	1.2
00340 COD, .25N K2CR2O7	MG/L	01/02/75-04/16/81	10##	5.	6.5	20.	5.	22.5	4.743	5.	5.	5.	18.5
00400p PH (STANDARD UNITS)		08/13/74-01/09/95	10	6.8	6.83	7.	6.7	0.011	0.106	6.7	6.775	6.925	7.
00400p CONVERTED PH (STANDARD UNITS)		08/13/74-01/09/95	10	6.8	6.819	7.	6.7	0.011	0.107	6.7	6.775	6.925	7.
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		08/13/74-01/09/95	10	0.158	0.152	0.2	0.1	0.001	0.035	0.1	0.119	0.169	0.2
00410p ALKALINITY, TOTAL (MG/L AS CACO3)		08/13/74-02/09/93	10	7.	7.1	9.	5.	1.656	1.287	5.	6.5	8.	8.9
00500p RESIDUE, TOTAL (MG/L)		08/13/74-07/26/93	6	35.	41.667	69.	22.	371.067	19.263	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		08/13/74-01/09/95	6	10.5	14.667	31.	1.	145.067	12.044	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		08/18/74-11/17/94	8##	0.025	0.033	0.06	0.025	0.	0.014	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		08/18/74-11/17/94	8	0.15	0.144	0.2	0.05	0.004	0.062	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		08/18/74-11/17/94	8	0.175	0.247	0.97	0.025	0.09	0.299	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		08/18/74-11/17/94	8##	0.025	0.034	0.07	0.025	0.	0.017	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		08/13/74-01/09/95	10	265.	764.5	4600.	5.	1916046.944	1384.213	14.5	115.	710.	4250.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		08/13/74-01/09/95	10	2.423	2.398	3.663	0.699	0.597	0.773	0.829	2.059	2.833	3.601
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		250.01									

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Annual Analysis for 1978 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		08/13/74-01/09/95	11	10.	13.364	26.	4.	52.055	7.215	4.2	8.	20.	25.2
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/29/75-09/09/93	6	824.	1068.167	2290.	484.	450857.767	671.459	**	**	**	**
00065 STAGE, STREAM (FEET)		09/23/75-09/09/93	6	2.13	2.283	3.31	1.68	0.356	0.597	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		08/19/74-01/09/95	5	13.	23.68	81.	4.5	1044.337	32.316	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	08/13/74-01/09/95	11	10.6	10.109	13.	7.9	2.351	1.533	8.	8.5	11.2	12.64

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Annual Analysis for 1978 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	2	100.5	100.5	102.	99.	4.5	2.121	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	11	0.5	0.545	1.7	0.1	0.209	0.457	0.12	0.2	0.8	1.54
00340 COD, .25N K2CR2O7 MG/L	01/02/75-04/16/81	11##	5.	5.545	11.	5.	3.273	1.809	5.	5.	5.	9.8
00400p PH (STANDARD UNITS)	08/13/74-01/09/95	11	6.9	6.9	7.1	6.5	0.032	0.179	6.54	6.8	7.	7.1
00400p CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	11	6.9	6.862	7.1	6.5	0.034	0.183	6.54	6.8	7.	7.1
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	11	0.126	0.137	0.316	0.079	0.005	0.069	0.079	0.1	0.158	0.293
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	11	8.	7.818	11.	6.	3.364	1.834	6.	6.	10.	10.8
00500p RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	4	39.	37.5	43.	29.	35.667	5.972	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	4	6.5	7.	11.	4.	10.	3.162	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	11##	0.025	0.035	0.08	0.025	0.	0.018	0.025	0.025	0.05	0.074
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	11	0.2	0.164	0.4	0.05	0.01	0.1	0.05	0.1	0.2	0.36
00630 NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)	08/18/74-11/17/94	11	0.14	0.145	0.21	0.08	0.002	0.042	0.084	0.12	0.19	0.206
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	11##	0.025	0.038	0.14	0.025	0.001	0.035	0.025	0.025	0.025	0.122
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	400.	728.	3800.	110.	1218440.	1103.83	118.	190.	645.	3510.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	2.602	2.616	3.58	2.041	0.187	0.432	2.065	2.279	2.8	3.517
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		412.607									

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Annual Analysis for 1979 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	11	13.	12.545	21.	2.	42.273	6.502	2.6	6.	18.	21.
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	10	1755.	1852.9	4110.	909.	841032.989	917.079	919.1	1092.5	2180.	3920.
00065 STAGE, STREAM (FEET)	09/23/75-09/09/93	10	2.915	2.934	4.4	2.18	0.41	0.64	2.189	2.353	3.228	4.285
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00300p OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	11	9.4	9.673	12.4	8.	2.01	1.418	8.	8.4	10.8	12.16
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	11	0.6	0.636	0.9	0.4	0.023	0.15	0.42	0.5	0.8	0.88
00340 COD, .25N K2CR2O7 MG/L	01/02/75-04/16/81	11##	5.	5.818	14.	5.	7.364	2.714	5.	5.	5.	12.2
00400p PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.8	6.79	7.1	6.3	0.052	0.228	6.34	6.7	6.95	7.1
00400p CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.8	6.73	7.1	6.3	0.056	0.237	6.34	6.7	6.95	7.1
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	10	0.158	0.186	0.501	0.079	0.014	0.119	0.079	0.114	0.2	0.471
00403 PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	11	6.	6.727	11.	5.	3.418	1.849	5.	5.	8.	10.4
00500p RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	4	20.5	23.5	40.	13.	161.667	12.715	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	4	6.	7.	13.	3.	18.667	4.32	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	10##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	10	0.1	0.145	0.4	0.05	0.012	0.109	0.05	0.05	0.2	0.38
00630 NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)	08/18/74-11/17/94	10	0.115	0.123	0.19	0.06	0.002	0.041	0.063	0.09	0.16	0.187
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	10##	0.025	0.034	0.11	0.025	0.001	0.027	0.025	0.025	0.025	0.102
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	11	290.	470.273	1400.	10.	252186.818	502.182	24.6	90.	660.	1400.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	11	2.462	2.374	3.146	1.	0.395	0.629	1.184	1.954	2.82	3.146
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		236.548									

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Annual Analysis for 1980 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	12	10.5	12.	21.	3.	41.273	6.424	3.3	6.5	19.25	20.7
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	11	2030.	2036.545	5310.	642.	1852847.273	1361.193	645.6	1010.	2670.	4846.
00065 STAGE, STREAM (FEET)	09/23/75-09/09/93	11	3.12	3.008	5.01	1.88	0.877	0.937	1.884	2.27	3.56	4.76
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	10	6.95	8.56	20.	3.7	25.676	5.067	3.77	4.55	11.	19.4

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

Annual Analysis for 1980 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300p OXYGEN, DISSOLVED	MG/L	08/13/74-01/09/95	12	9.95	9.808	12.8	8.3	1.828	1.352	8.3	8.55	10.575	12.32
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	08/13/74-09/05/85	3	86.2	85.733	89.4	81.6	15.373	3.921	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C	MG/L	08/13/74-06/08/93	12	0.9	0.792	1.2	0.3	0.07	0.264	0.33	0.6	0.975	1.14
00340 COD, .25N K2CR2O7	MG/L	01/02/75-04/16/81	12##	5.	6.5	15.	5.	12.455	3.529	5.	5.	5.	14.4
00400p PH (STANDARD UNITS)		08/13/74-01/09/95	5	7.1	7.04	7.5	6.5	0.138	0.371	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)		08/13/74-01/09/95	5	7.1	6.909	7.5	6.5	0.159	0.399	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		08/13/74-01/09/95	5	0.079	0.123	0.316	0.032	0.013	0.113	**	**	**	**
00403 PH, LAB, STANDARD UNITS	SU	12/10/79-12/01/94	12	6.9	6.867	7.1	6.7	0.013	0.115	6.7	6.8	6.9	7.07
00403 CONVERTED PH, LAB, STANDARD UNITS		12/10/79-12/01/94	12	6.9	6.853	7.1	6.7	0.014	0.116	6.7	6.8	6.9	7.07
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/10/79-12/01/94	12	0.126	0.14	0.2	0.079	0.001	0.036	0.086	0.126	0.158	0.2
00410p ALKALINITY, TOTAL (MG/L AS CACO3)		08/13/74-02/09/93	12	7.	7.25	10.	2.	4.932	2.221	3.2	6.	9.	10.
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)		06/25/80-10/05/93	5	9.	11.8	28.	5.	85.7	9.257	**	**	**	**
00500p RESIDUE, TOTAL (MG/L)		08/13/74-07/26/93	4	47.	47.	57.	37.	120.667	10.985	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		08/13/74-01/09/95	4	12.	13.75	24.	7.	52.25	7.228	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		08/18/74-11/17/94	11##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		08/18/74-11/17/94	11	0.1	0.145	0.3	0.05	0.01	0.099	0.05	0.05	0.2	0.3
00630 NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)		08/18/74-11/17/94	11	0.15	0.161	0.26	0.07	0.003	0.051	0.08	0.12	0.2	0.25
00665 PHOSPHORUS, TOTAL (MG/L AS P)		08/18/74-11/17/94	11##	0.025	0.038	0.11	0.025	0.001	0.027	0.025	0.025	0.05	0.1
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		08/13/74-01/09/95	12	270.	699.167	4200.	20.	1343808.333	1159.227	35.	167.5	735.	3330.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		08/13/74-01/09/95	12	2.429	2.479	3.623	1.301	0.353	0.595	1.464	2.223	2.856	3.47
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		301.536									

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

Annual Analysis for 1981 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		08/13/74-01/09/95	12	14.5	12.625	22.	2.	50.778	7.126	2.15	5.25	18.75	21.7
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/29/75-09/09/93	12	843.	899.5	1610.	484.	140398.273	374.698	488.8	546.75	1247.5	1535.
00065 STAGE, STREAM (FEET)		09/23/75-09/09/93	11	2.17	2.169	2.8	1.68	0.137	0.37	1.692	1.83	2.52	2.758
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		08/19/74-01/09/95	10	4.	4.9	10.	2.	6.1	2.47	2.1	3.	6.5	9.8
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/10/81-01/09/95	4	30.	29.	32.	24.	12.667	3.559	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	08/13/74-01/09/95	12	9.5	9.808	12.4	7.9	2.857	1.69	7.9	8.2	11.75	12.34
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	08/13/74-09/05/85	12	89.9	89.833	96.	85.3	10.497	3.24	85.48	87.85	91.075	95.73
00310 BOD, 5 DAY, 20 DEG C	MG/L	08/13/74-06/08/93	12	0.85	0.883	1.8	0.5	0.122	0.349	0.53	0.6	1.05	1.59
00340 COD, .25N K2CR2O7	MG/L	01/02/75-04/16/81	4##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400p PH (STANDARD UNITS)		08/13/74-01/09/95	9	6.9	6.978	7.2	6.8	0.017	0.13	6.8	6.9	7.1	7.2
00400p CONVERTED PH (STANDARD UNITS)		08/13/74-01/09/95	9	6.9	6.961	7.2	6.8	0.017	0.131	6.8	6.9	7.1	7.2
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		08/13/74-01/09/95	9	0.126	0.109	0.158	0.063	0.001	0.031	0.063	0.079	0.126	0.158
00403 PH, LAB, STANDARD UNITS	SU	12/10/79-12/01/94	12	6.8	6.817	7.1	6.6	0.023	0.153	6.6	6.7	6.9	7.07
00403 CONVERTED PH, LAB, STANDARD UNITS		12/10/79-12/01/94	12	6.8	6.793	7.1	6.6	0.024	0.155	6.6	6.7	6.9	7.07
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/10/79-12/01/94	12	0.158	0.161	0.251	0.079	0.003	0.055	0.086	0.126	0.2	0.251
00410p ALKALINITY, TOTAL (MG/L AS CACO3)		08/13/74-02/09/93	12	8.	7.667	10.	6.	1.697	1.303	6.	6.25	8.75	9.7
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)		06/25/80-10/05/93	9	8.	9.333	17.	7.	9.5	3.082	7.	7.5	10.	17.
00500p RESIDUE, TOTAL (MG/L)		08/13/74-07/26/93	4	36.	35.75	40.	31.	19.583	4.425	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		08/13/74-01/09/95	4	4.	4.875	11.	0.5	19.396	4.404	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		08/18/74-11/17/94	4##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		08/18/74-11/17/94	4	0.15	0.15	0.2	0.1	0.003	0.058	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)		08/18/74-11/17/94	4	0.145	0.138	0.16	0.1	0.001	0.029	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		08/18/74-11/17/94	3##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		08/13/74-01/09/95	12	285.	446.25	2000.	5.	295932.386	543.997	27.5	115.	620.	1604.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		08/13/74-01/09/95	12	2.39	2.333	3.301	0.699	0.441	0.664	1.06	2.06	2.792	3.16
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		215.115									

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	12	14.	13.833	26.	-1.	53.061	7.284	7.3	2.	19.5	24.2
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	12	1250.	1964.917	6800.	625.	3268472.811	1807.892	676.	956.75	1917.5	6059.
00065 STAGE, STREAM (FEET)	09/23/75-09/09/93	12	2.495	2.907	5.72	1.86	1.264	1.124	1.917	2.218	3.038	5.36
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	4	9.5	15.5	40.	3.	296.333	17.214	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	12	23.	23.	30.	14.	17.091	4.134	15.5	21.	25.	29.4
00300p OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	12	9.45	9.867	13.5	8.1	2.604	1.614	8.16	8.625	10.975	12.93
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	12	91.5	92.917	105.	88.	20.083	4.481	88.6	90.25	94.5	102.6
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	12	0.7	0.825	1.6	0.4	0.164	0.405	0.43	0.5	1.125	1.57
00400p PH (STANDARD UNITS)	08/13/74-01/09/95	12	6.8	6.808	7.3	6.5	0.054	0.231	6.53	6.6	6.9	7.24
00400p CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	12	6.8	6.758	7.3	6.5	0.056	0.237	6.53	6.6	6.9	7.24
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	12	0.158	0.174	0.316	0.05	0.006	0.08	0.059	0.126	0.251	0.297
00403 PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	12	6.75	6.783	7.	6.5	0.023	0.153	6.56	6.7	6.95	7.
00403 CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	12	6.747	6.759	7.	6.5	0.024	0.155	6.56	6.7	6.95	7.
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	12	0.179	0.174	0.316	0.1	0.004	0.061	0.1	0.115	0.2	0.281
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	12	7.5	7.417	10.	4.	4.083	2.021	4.3	6.	9.	10.
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	12	7.	6.667	10.	4.	3.515	1.875	4.	5.	8.	9.4
00500p RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	12	50.5	67.667	290.	25.	5110.424	71.487	25.9	34.25	62.75	224.
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	12	13.	31.667	230.	3.	3976.606	63.06	3.3	5.5	21.75	170.9
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	4##	0.025	0.026	0.03	0.025	0.	0.002	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	4	0.2	0.3	0.6	0.2	0.04	0.2	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	4	0.2	0.225	0.4	0.1	0.021	0.146	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	4	0.05	0.136	0.42	0.025	0.036	0.19	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	510.	570.	1400.	20.	196654.545	443.457	47.	182.5	922.5	1340.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	2.693	2.562	3.146	1.301	0.275	0.524	1.523	2.244	2.96	3.126
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		364.508									

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

Annual Analysis for 1983 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)	02/15/83-01/09/95	1	182.	182.	182.	182.	0.	0.	**	**	**	**
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	12	11.5	11.958	20.	5.	32.112	5.667	5.	6.625	18.	20.
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	12	1440.	1627.583	3120.	704.	680316.992	824.813	712.4	966.75	2310.	3069.
00064 DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
00065 STAGE, STREAM (FEET)	09/23/75-09/09/93	12	2.66	2.668	3.84	0.98	0.636	0.798	1.271	2.228	3.313	3.81
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	4	4.85	6.	12.	2.3	17.527	4.186	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	12	28.5	30.333	42.	25.	29.152	5.399	25.	25.25	34.	39.9
00300p OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	12	10.05	10.083	12.2	8.	2.352	1.534	8.	8.475	11.625	12.14
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	12	91.5	91.5	100.	87.	15.909	3.989	87.	87.25	93.75	98.8
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	12	0.5	0.592	1.2	0.2	0.084	0.291	0.23	0.35	0.85	1.11
00400p PH (STANDARD UNITS)	08/13/74-01/09/95	12	6.9	6.892	7.3	6.6	0.039	0.198	6.63	6.7	7.	7.24
00400p CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	12	6.9	6.853	7.3	6.6	0.041	0.202	6.63	6.7	7.	7.24
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	12	0.126	0.14	0.251	0.05	0.004	0.059	0.059	0.1	0.2	0.236
00403 PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	12	6.7	6.675	6.8	6.5	0.009	0.097	6.53	6.6	6.775	6.8
00403 CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	12	6.7	6.665	6.8	6.5	0.009	0.097	6.53	6.6	6.775	6.8
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	12	0.2	0.216	0.316	0.158	0.002	0.049	0.158	0.169	0.251	0.297
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	12	6.	6.583	9.	5.	2.811	1.676	5.	5.	8.	9.
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	12	6.5	6.667	10.	5.	2.242	1.497	5.	5.25	7.75	9.4
00500p RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	12	41.5	43.167	66.	21.	231.606	15.219	21.9	27.75	58.	63.9
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	12	12.	14.292	34.	0.5	107.839	10.385	0.95	5.25	23.5	31.3
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	4	0.01	0.013	0.02	0.01	0.	0.005	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	4	0.2	0.175	0.2	0.1	0.003	0.05	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	4	0.175	0.198	0.28	0.16	0.003	0.056	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	4	0.05	0.053	0.08	0.03	0.	0.021	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	445.	496.667	1100.	70.	103296.97	321.398	106.	222.5	685.	1070.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	2.648	2.593	3.041	1.845	0.116	0.341	1.975	2.345	2.836	3.029

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

Annual Analysis for 1983 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		392.162									

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)	02/15/83-01/09/95	1	182.	182.	182.	182.	0.	0.	**	**	**	**
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	12	12.	12.167	19.	1.	35.97	5.997	1.6	9.25	17.75	19.
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	12	1510.	1626.833	3250.	842.	476156.697	690.041	904.4	1080.	2042.5	2941.
00064 DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	1	4.9	4.9	4.9	4.9	0.	0.	**	**	**	**
00065 STAGE, STREAM (FEET)	09/23/75-09/09/93	12	2.76	2.785	3.92	2.1	0.28	0.529	2.169	2.348	3.133	3.722
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	4	4.35	4.3	7.	1.5	5.527	2.351	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	12	26.	27.583	35.	21.	21.356	4.621	21.6	24.25	33.	34.7
00300p OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	12	9.8	9.908	13.2	8.3	2.603	1.613	8.33	8.55	10.35	13.05
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	6	91.5	91.333	94.	88.	4.667	2.16	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	12	0.55	0.6	0.9	0.3	0.049	0.222	0.3	0.425	0.85	0.9
00400p PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.75	6.8	7.1	6.6	0.024	0.156	6.61	6.7	6.925	7.09
00400p CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.747	6.777	7.1	6.6	0.025	0.158	6.61	6.7	6.925	7.09
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	10	0.179	0.167	0.251	0.079	0.003	0.053	0.081	0.119	0.2	0.246
00403 PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	12	6.8	6.758	6.9	6.6	0.014	0.116	6.6	6.625	6.875	6.9
00403 CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	12	6.8	6.744	6.9	6.6	0.014	0.117	6.6	6.625	6.875	6.9
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	12	0.158	0.18	0.251	0.126	0.002	0.049	0.126	0.134	0.238	0.251
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	12	7.	6.917	10.	4.	2.629	1.621	4.3	6.	7.75	9.7
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	10	6.5	6.9	10.	6.	1.656	1.287	6.	6.	7.25	9.8
00500p RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	12	53.	58.167	130.	29.	648.879	25.473	31.7	43.25	63.75	111.7
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	12	22.5	23.333	87.	5.	484.788	22.018	5.	7.	25.75	70.2
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	4	0.02	0.035	0.08	0.02	0.001	0.03	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	4	0.15	0.163	0.3	0.05	0.012	0.111	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	4	0.185	0.188	0.28	0.1	0.007	0.082	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	4	0.035	0.038	0.06	0.02	0.	0.021	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	775.	1120.	2300.	140.	758418.182	870.872	188.	357.5	1975.	2300.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	2.847	2.885	3.362	2.146	0.181	0.425	2.245	2.553	3.295	3.362
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		767.872									

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

Annual Analysis for 1985 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	12	15.	13.5	22.	0.	44.455	6.667	1.8	8.5	19.25	21.7
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	12	809.	1001.083	1930.	355.	241566.992	491.495	428.5	662.	1392.5	1876.
00065 STAGE, STREAM (FEET)	09/23/75-09/09/93	12	2.065	2.218	3.05	1.49	0.222	0.471	1.592	1.903	2.618	3.005
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	4	1.7	1.7	2.3	1.1	0.267	0.516	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	11	26.	26.273	34.	20.	16.418	4.052	20.2	23.	28.	33.4
00300p OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	12	9.2	9.85	12.1	8.2	2.301	1.517	8.26	8.425	11.35	12.07
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	6	91.5	91.667	95.	89.	3.867	1.966	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	4	0.75	0.725	0.8	0.6	0.009	0.096	**	**	**	**
00400p PH (STANDARD UNITS)	08/13/74-01/09/95	12	6.8	6.783	7.1	6.4	0.049	0.221	6.43	6.55	6.975	7.07
00400p CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	12	6.8	6.73	7.1	6.4	0.052	0.228	6.43	6.55	6.975	7.07
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	12	0.158	0.186	0.398	0.079	0.01	0.102	0.086	0.106	0.287	0.374
00403 PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	12	6.9	6.867	7.	6.6	0.019	0.137	6.63	6.725	7.	7.
00403 CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	12	6.9	6.846	7.	6.6	0.019	0.139	6.63	6.725	7.	7.
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	12	0.126	0.143	0.251	0.1	0.002	0.049	0.1	0.1	0.189	0.236
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	12	8.	7.833	11.	5.	2.515	1.586	5.3	7.	9.	10.4

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Annual Analysis for 1985 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	11	9.	8.091	10.	4.	3.491	1.868	4.4	7.	9.	10.
00500p RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	12	34.5	40.083	71.	12.	286.265	16.919	15.9	29.5	55.75	68.
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	12	10.5	13.083	34.	2.	121.174	11.008	2.3	4.25	18.5	33.7
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	4	0.035	0.03	0.04	0.01	0.	0.014	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	4	0.15	0.175	0.3	0.1	0.009	0.096	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)	08/18/74-11/17/94	4	0.19	0.19	0.23	0.15	0.001	0.034	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	4	0.04	0.035	0.04	0.02	0.	0.01	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	320.	648.333	4000.	60.	1161033.333	1077.513	81.	175.	580.	3052.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	12	2.505	2.537	3.602	1.778	0.208	0.456	1.879	2.232	2.762	3.399
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		344.347									

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Annual Analysis for 1986 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	10	14.5	14.8	25.	1.	61.511	7.843	1.7	9.5	22.	24.7
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	9	823.	1051.667	2670.	552.	452242.75	672.49	552.	634.	1320.	2670.
00065 STAGE, STREAM (FEET)	09/23/75-09/09/93	9	2.06	2.227	3.56	1.74	0.336	0.58	1.74	1.835	2.53	3.56
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	5	3.7	3.34	7.2	0.5	6.923	2.631	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	6	27.5	26.667	32.	21.	21.467	4.633	**	**	**	**
00300p OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	10	9.45	9.56	12.2	6.5	2.967	1.723	6.67	8.5	11.075	12.14
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	4	0.65	0.725	1.1	0.5	0.083	0.287	**	**	**	**
00400p PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.8	7.011	8.3	6.5	0.279	0.528	6.5	6.7	7.1	8.3
00400p CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.8	6.849	8.3	6.5	0.308	0.555	6.5	6.7	7.1	8.3
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	9	0.158	0.142	0.316	0.005	0.009	0.092	0.005	0.079	0.2	0.316
00403 PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	10	6.85	6.87	7.3	6.7	0.04	0.2	6.7	6.7	6.95	7.28
00403 CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	10	6.847	6.835	7.3	6.7	0.042	0.204	6.7	6.7	6.95	7.28
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	10	0.142	0.146	0.2	0.05	0.003	0.054	0.053	0.114	0.2	0.2
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	10	8.	7.7	9.	5.	1.344	1.16	5.2	7.	8.25	9.
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	9	9.	8.889	13.	5.	8.361	2.892	5.	6.	11.5	13.
00500p RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	10	45.5	45.8	79.	14.	324.4	18.011	15.8	33.5	58.25	77.
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	10	9.5	11.1	30.	2.	85.433	9.243	2.1	4.5	14.5	29.5
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	3	0.07	0.063	0.09	0.03	0.001	0.031	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	3	0.2	0.267	0.4	0.2	0.013	0.115	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)	08/18/74-11/17/94	3	0.24	0.277	0.39	0.2	0.01	0.1	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	3	0.05	0.057	0.09	0.03	0.001	0.031	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	170.	194.	420.	70.	11604.444	107.724	71.	110.	260.	407.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	2.224	2.227	2.623	1.845	0.061	0.247	1.851	2.035	2.414	2.607
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		168.499									

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)	02/15/83-01/09/95	12	100.	85.25	150.	3.	1249.841	35.353	20.1	63.75	100.	135.
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	12	11.5	12.5	22.	3.	43.545	6.599	3.6	6.	19.	22.
00064 DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	12	3.	6.792	50.	2.	185.384	13.616	2.	2.625	3.375	36.05
00065 STAGE, STREAM (FEET)	09/23/75-09/09/93	5	2.3	2.388	3.3	1.7	0.37	0.608	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	11	2.1	5.718	40.	1.2	130.408	11.42	1.22	1.4	3.8	32.9
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	11	32.	30.	42.	13.	107.4	10.363	13.	24.	39.	42.
00300p OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	12	9.9	10.158	12.8	8.5	1.79	1.338	8.56	9.075	11.45	12.44
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	4	0.9	0.9	1.4	0.4	0.173	0.416	**	**	**	**
00400p PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.7	6.833	7.8	6.5	0.15	0.387	6.5	6.6	6.9	7.8

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

Annual Analysis for 1987 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400p CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.7	6.738	7.8	6.5	0.16	0.4	6.5	6.6	6.9	7.8
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	9	0.2	0.183	0.316	0.016	0.008	0.088	0.016	0.126	0.251	0.316
00403 PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	10	6.75	6.75	6.8	6.7	0.003	0.053	6.7	6.7	6.8	6.8
00403 CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	10	6.747	6.747	6.8	6.7	0.003	0.053	6.7	6.7	6.8	6.8
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	10	0.179	0.179	0.2	0.158	0.	0.022	0.158	0.158	0.2	0.2
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	10	7.5	8.	11.	5.	4.222	2.055	5.1	6.75	10.25	11.
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	8	9.5	9.	11.	6.	3.429	1.852	**	**	**	**
00500p RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	12	43.5	45.833	86.	31.	188.879	13.743	33.1	38.5	45.75	76.1
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	12	9.	11.333	42.	1.	114.606	10.705	1.9	5.	12.75	34.8
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	3	0.03	0.037	0.06	0.02	0.	0.021	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	3	0.2	0.2	0.3	0.1	0.01	0.1	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	3	0.19	0.18	0.23	0.12	0.003	0.056	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	3	0.02	0.023	0.04	0.01	0.	0.015	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	2	325.	325.	380.	270.	6050.	77.782	**	**	**	**
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	2	2.506	2.506	2.58	2.431	0.011	0.105	**	**	**	**
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		320.312									

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Annual Analysis for 1988 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)	02/15/83-01/09/95	11	60.	66.364	100.	40.	425.455	20.627	41.	50.	75.	100.
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	11	12.	11.636	22.	3.	50.655	7.117	3.2	4.	19.	21.8
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	6	823.5	768.5	969.	374.	43049.9	207.485	**	**	**	**
00064 DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	11	3.	3.455	4.5	3.	0.323	0.568	3.	3.	4.	4.4
00065 STAGE, STREAM (FEET)	09/23/75-09/09/93	6	2.07	1.982	2.15	1.52	0.057	0.238	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	11	3.1	4.564	12.	1.4	9.635	3.104	1.46	2.6	6.5	11.02
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	8	35.	31.125	45.	16.	117.839	10.855	**	**	**	**
00300p OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	11	10.4	10.4	11.9	8.7	1.48	1.217	8.7	9.3	11.6	11.88
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	10	0.9	0.79	1.2	0.3	0.101	0.318	0.31	0.475	1.1	1.19
00400p PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.75	6.75	7.2	6.3	0.085	0.292	6.31	6.475	6.95	7.19
00400p CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	10	6.747	6.664	7.2	6.3	0.093	0.305	6.31	6.475	6.95	7.19
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	10	0.179	0.217	0.501	0.063	0.021	0.144	0.065	0.114	0.337	0.491
00403 PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	11	6.8	6.809	7.1	6.5	0.027	0.164	6.54	6.7	6.9	7.08
00403 CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	11	6.8	6.781	7.1	6.5	0.028	0.167	6.54	6.7	6.9	7.08
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	11	0.158	0.166	0.316	0.079	0.004	0.064	0.084	0.126	0.2	0.293
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	10	9.	8.38	13.	0.8	9.711	3.116	1.42	7.75	10.	12.7
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	9	8.	9.111	15.	7.	6.361	2.522	7.	7.5	10.	15.
00500p RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	11	46.	47.091	75.	22.	193.691	13.917	24.4	39.	58.	71.6
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	11	7.	8.364	20.	1.	36.055	6.005	1.4	3.	12.	19.4
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	3	0.04	0.033	0.05	0.01	0.	0.021	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	3	0.2	0.167	0.2	0.1	0.003	0.058	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	3	0.21	0.237	0.38	0.12	0.017	0.132	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	3	0.04	0.04	0.06	0.02	0.	0.02	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	90.	98.5	310.	5.	9200.278	95.918	5.5	10.	142.5	297.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	10	1.952	1.705	2.491	0.699	0.382	0.618	0.729	1.	2.149	2.468
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		50.742									

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Annual Analysis for 1989 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	14	75.	113.571	200.	50.	4524.725	67.266	55.	60.	200.	200.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	13	14.	10.808	20.	0.5	62.647	7.915	0.7	2.5	18.5	19.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	11	1930.	2031.818	3270.	1270.	325436.364	570.47	1336.	1610.	2310.	3150.
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	13	4.	4.346	10.	2.5	3.891	1.973	2.7	3.	5.	8.
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	11	3.05	3.106	3.93	2.57	0.156	0.395	2.614	2.8	3.32	3.856
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	14	4.6	6.693	20.	2.5	34.162	5.845	2.5	3.45	7.125	20.
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	9	22.	22.667	28.	20.	5.75	2.398	20.	21.	23.5	28.
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	14	11.	11.107	14.3	7.9	5.33	2.309	8.3	9.075	13.25	14.3
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	6	0.6	0.7	1.4	0.4	0.124	0.352	**	**	**	**
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	13	7.	6.835	7.61	5.82	0.311	0.558	5.82	6.55	7.05	7.61
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	13	7.	6.464	7.61	5.82	0.461	0.679	5.82	6.55	7.05	7.61
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	13	0.1	0.344	1.514	0.025	0.284	0.532	0.025	0.09	0.33	1.514
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	5	7.1	6.98	7.1	6.8	0.027	0.164	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	5	7.1	6.954	7.1	6.8	0.028	0.167	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	5	0.079	0.111	0.158	0.079	0.002	0.043	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	5	8.	8.	8.	8.	0.	0.	**	**	**	**
00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	9	8.	8.222	11.	5.	3.444	1.856	5.	7.	9.5	11.
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	14	47.	45.786	80.	23.	285.412	16.894	23.	31.75	57.	73.
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	14	9.	10.929	41.	1.	124.533	11.159	1.	2.	12.75	34.

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Annual Analysis for 1990 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	14	75.	108.929	200.	60.	3604.533	60.038	60.	75.	200.	200.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	14	11.	10.214	22.	1.	55.104	7.423	1.	1.	15.75	21.5
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	11	1580.	1669.545	4700.	608.	1305827.673	1142.728	647.4	823.	2060.	4208.
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	14	3.25	3.75	5.	3.	0.798	0.893	3.	3.	5.	5.
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	11	2.46	2.68	4.71	1.84	0.672	0.82	1.884	2.08	3.14	4.422
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	14	5.5	5.064	7.	1.5	2.512	1.585	2.	3.975	6.125	6.75
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	9	24.	21.778	32.	5.	57.694	7.596	5.	19.	26.5	32.
00300p	OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	14	11.3	11.614	16.8	8.5	7.797	2.792	8.5	9.2	13.8	16.8
00310	BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	4	0.7	0.85	1.5	0.5	0.203	0.451	**	**	**	**
00400p	PH (STANDARD UNITS)	08/13/74-01/09/95	14	6.85	6.57	7.3	5.23	0.491	0.701	5.23	5.91	7.025	7.25
00400p	CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	14	6.847	5.959	7.3	5.23	0.894	0.945	5.23	5.91	7.025	7.25
00400p	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	14	0.142	1.1	5.888	0.05	4.276	2.068	0.057	0.095	1.23	5.888
00403	PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	5	6.8	6.74	6.9	6.6	0.018	0.134	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	5	6.8	6.723	6.9	6.6	0.018	0.135	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	5	0.158	0.189	0.251	0.126	0.003	0.058	**	**	**	**
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	3	7.	7.333	8.	7.	0.333	0.577	**	**	**	**
00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	9	8.	8.889	14.	6.	6.111	2.472	6.	7.	10.	14.
00500p	RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	14	40.5	40.929	67.	11.	252.071	15.877	17.5	30.	52.25	64.5
00530p	RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	14	8.5	7.536	12.	0.5	12.172	3.489	0.75	6.	10.	12.

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Annual Analysis for 1991 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004	STREAM WIDTH (FEET)	02/15/83-01/09/95	10	275.	199.5	275.	75.	9669.167	98.332	75.	75.	275.	275.
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	10	17.5	15.7	23.	2.	39.567	6.29	2.8	12.25	19.75	22.9
00061	FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	11	1490.	2562.091	9330.	732.	6049823.691	2459.639	757.8	1060.	3280.	8176.
00064	DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	10	2.	3.1	5.	2.	2.1	1.449	2.	2.	5.	5.
00065	STAGE, STREAM (FEET)	09/23/75-09/09/93	11	2.7	3.285	6.83	1.98	1.936	1.392	2.008	2.32	3.94	6.284

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Annual Analysis for 1991 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		08/19/74-01/09/95	10	5.	19.7	125.	2.	1409.567	37.544	2.	3.5	16.25	114.5
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/10/81-01/09/95	9	27.	29.111	47.	12.	84.361	9.185	12.	26.	33.	47.
00300p OXYGEN, DISSOLVED	MG/L	08/13/74-01/09/95	10	8.85	9.59	13.3	8.3	2.494	1.579	8.31	8.55	10.475	13.07
00310 BOD, 5 DAY, 20 DEG C	MG/L	08/13/74-06/08/93	3	0.4	0.5	0.7	0.4	0.03	0.173	**	**	**	**
00400p PH (STANDARD UNITS)		08/13/74-01/09/95	9	6.8	6.944	8.4	6.	0.435	0.66	6.	6.65	7.2	8.4
00400p CONVERTED PH (STANDARD UNITS)		08/13/74-01/09/95	9	6.8	6.637	8.4	6.	0.542	0.736	6.	6.65	7.2	8.4
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		08/13/74-01/09/95	9	0.158	0.231	1.	0.004	0.089	0.299	0.004	0.07	0.225	1.
00403 PH, LAB, STANDARD UNITS	SU	12/10/79-12/01/94	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		12/10/79-12/01/94	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/10/79-12/01/94	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00410p ALKALINITY, TOTAL (MG/L AS CACO3)		08/13/74-02/09/93	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)		06/25/80-10/05/93	9	8.	8.333	15.	2.	12.	3.464	2.	7.	10.	15.
00500p RESIDUE, TOTAL (MG/L)		08/13/74-07/26/93	10	51.	98.8	500.	36.	20084.622	141.72	36.6	44.25	74.	458.6
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		08/13/74-01/09/95	10	9.5	52.1	420.	2.	16836.1	129.754	2.	2.75	24.	381.9
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		08/18/74-11/17/94	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		08/18/74-11/17/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		08/18/74-11/17/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		08/18/74-11/17/94	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		08/13/74-01/09/95	2	155.	155.	230.	80.	11250.	106.066	**	**	**	**
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		08/13/74-01/09/95	2	2.132	2.132	2.362	1.903	0.105	0.324	**	**	**	**
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		135.647									

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Annual Analysis for 1992 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)		02/15/83-01/09/95	11	275.	275.	275.	275.	0.	0.	275.	275.	275.	275.
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		08/13/74-01/09/95	12	14.	13.667	21.	7.	28.061	5.297	7.	8.25	19.	20.4
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/29/75-09/09/93	13	1360.	1624.923	3180.	814.	533168.41	730.184	900.4	1055.	2130.	3020.
00064 DEPTH OF STREAM, MEAN (FT)		02/15/83-01/09/95	11	2.	2.182	4.	2.	0.364	0.603	2.	2.	2.	3.6
00065 STAGE, STREAM (FEET)		09/23/75-09/09/93	13	2.59	2.765	3.88	2.07	0.311	0.558	2.158	2.315	3.195	3.78
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		08/19/74-01/09/95	12	3.9	4.608	13.	0.5	11.404	3.377	0.8	2.2	5.425	11.65
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/10/81-01/09/95	12	24.5	25.333	31.	22.	7.152	2.674	22.3	23.25	27.	30.4
00300p OXYGEN, DISSOLVED	MG/L	08/13/74-01/09/95	12	9.7	9.675	11.2	8.3	1.115	1.056	8.3	8.7	10.825	11.14
00310 BOD, 5 DAY, 20 DEG C	MG/L	08/13/74-06/08/93	4	0.55	0.525	0.6	0.4	0.009	0.096	**	**	**	**
00400p PH (STANDARD UNITS)		08/13/74-01/09/95	12	6.55	6.642	7.6	5.9	0.243	0.493	5.93	6.325	7.025	7.48
00400p CONVERTED PH (STANDARD UNITS)		08/13/74-01/09/95	12	6.547	6.423	7.6	5.9	0.295	0.543	5.93	6.325	7.025	7.48
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		08/13/74-01/09/95	12	0.284	0.377	1.259	0.025	0.146	0.383	0.037	0.099	0.475	1.181
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)		06/25/80-10/05/93	12	7.	7.667	16.	3.	12.606	3.551	3.	5.5	9.5	14.5
00500p RESIDUE, TOTAL (MG/L)		08/13/74-07/26/93	12	40.5	42.417	53.	28.	52.992	7.28	30.7	38.	49.5	52.4
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)		08/13/74-01/09/95	12	5.	8.5	24.	2.	48.091	6.935	2.3	3.25	11.75	22.5

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Annual Analysis for 1993 - Station GRSM0009

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)		02/15/83-01/09/95	8	275.	253.125	275.	100.	3828.125	61.872	**	**	**	**
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		08/13/74-01/09/95	10	11.	12.9	26.	4.	62.1	7.88	4.1	5.75	20.	25.4
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/29/75-09/09/93	8	1455.	1571.5	2920.	642.	719486.857	848.226	**	**	**	**
00064 DEPTH OF STREAM, MEAN (FT)		02/15/83-01/09/95	8	2.	2.125	3.	2.	0.125	0.354	**	**	**	**
00065 STAGE, STREAM (FEET)		09/23/75-09/09/93	8	2.675	2.704	3.72	1.88	0.451	0.671	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		08/19/74-01/09/95	10	3.4	8.23	36.	1.9	112.665	10.614	1.9	2.35	10.95	33.9
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/10/81-01/09/95	10	26.5	28.9	41.	23.	32.544	5.705	23.2	25.	33.5	40.4

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Annual Analysis for 1993 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00300p OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	10	9.6	9.57	11.4	7.6	1.849	1.36	7.64	8.45	10.825	11.35
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	2	0.5	0.5	0.8	0.2	0.18	0.424	**	**	**	**
00400p PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.7	6.767	7.4	6.4	0.1	0.316	6.4	6.55	7.	7.4
00400p CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	9	6.7	6.685	7.4	6.4	0.108	0.328	6.4	6.55	7.	7.4
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	9	0.2	0.207	0.398	0.04	0.013	0.114	0.04	0.103	0.284	0.398
00403 PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	8	6.5	6.625	10.	3.	5.696	2.387	**	**	**	**
00500p RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	6	47.5	47.	65.	29.	166.8	12.915	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	10	8.	15.4	54.	4.	253.6	15.925	4.	4.75	24.25	51.4
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	5	0.05	0.084	0.25	0.03	0.009	0.093	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	5	0.2	0.32	0.8	0.1	0.077	0.277	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)	08/18/74-11/17/94	5	0.19	0.184	0.23	0.13	0.002	0.043	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	5	0.05	0.054	0.09	0.03	0.	0.022	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	7	9.	9.643	25.	0.5	93.726	9.681	**	**	**	**
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	7	0.954	0.63	1.398	-0.301	0.496	0.705	**	**	**	**
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		4.265									

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

Annual Analysis for 1994 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)	02/15/83-01/09/95	11	275.	275.	275.	275.	0.	0.	275.	275.	275.	275.
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	11	14.	14.636	21.	3.	31.855	5.644	3.8	13.	19.	20.8
00064 DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	11	2.	2.	2.	2.	0.	0.	2.	2.	2.	2.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	11	2.6	3.518	8.1	1.3	5.878	2.424	1.34	1.9	5.6	8.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	11	23.	22.364	26.	15.	11.855	3.443	15.4	22.	24.	26.
00300p OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	11	9.5	9.545	11.3	8.4	0.975	0.987	8.42	8.6	10.5	11.22
00400p PH (STANDARD UNITS)	08/13/74-01/09/95	11	7.	7.	8.1	6.2	0.26	0.51	6.28	6.7	7.2	8.
00400p CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	11	7.	6.785	8.1	6.2	0.311	0.557	6.28	6.7	7.2	8.
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	11	0.1	0.164	0.631	0.008	0.03	0.172	0.011	0.063	0.2	0.555
00403 PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	2	6.85	6.85	7.2	6.5	0.245	0.495	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	2	6.722	6.722	7.2	6.5	0.278	0.527	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	2	0.19	0.19	0.316	0.063	0.032	0.179	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	11	5.	6.364	20.	2.	25.855	5.085	2.2	4.	6.	18.2
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	10	0.03	0.032	0.04	0.01	0.	0.009	0.012	0.03	0.04	0.04
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	10	0.2	0.2	0.3	0.1	0.004	0.067	0.1	0.175	0.225	0.3
00630 NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)	08/18/74-11/17/94	10	0.115	0.279	1.8	0.05	0.287	0.536	0.051	0.082	0.163	1.64
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	10	0.01	0.017	0.05	0.005	0.	0.014	0.005	0.009	0.023	0.048
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	11	3.	38.182	240.	0.5	5579.864	74.698	0.5	0.5	44.	214.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	11	0.477	0.689	2.38	-0.301	0.989	0.994	-0.301	-0.301	1.643	2.312
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		4.891									

** - 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 1995 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)	02/15/83-01/09/95	1	275.	275.	275.	275.	0.	0.	**	**	**	**
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00064 DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**

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

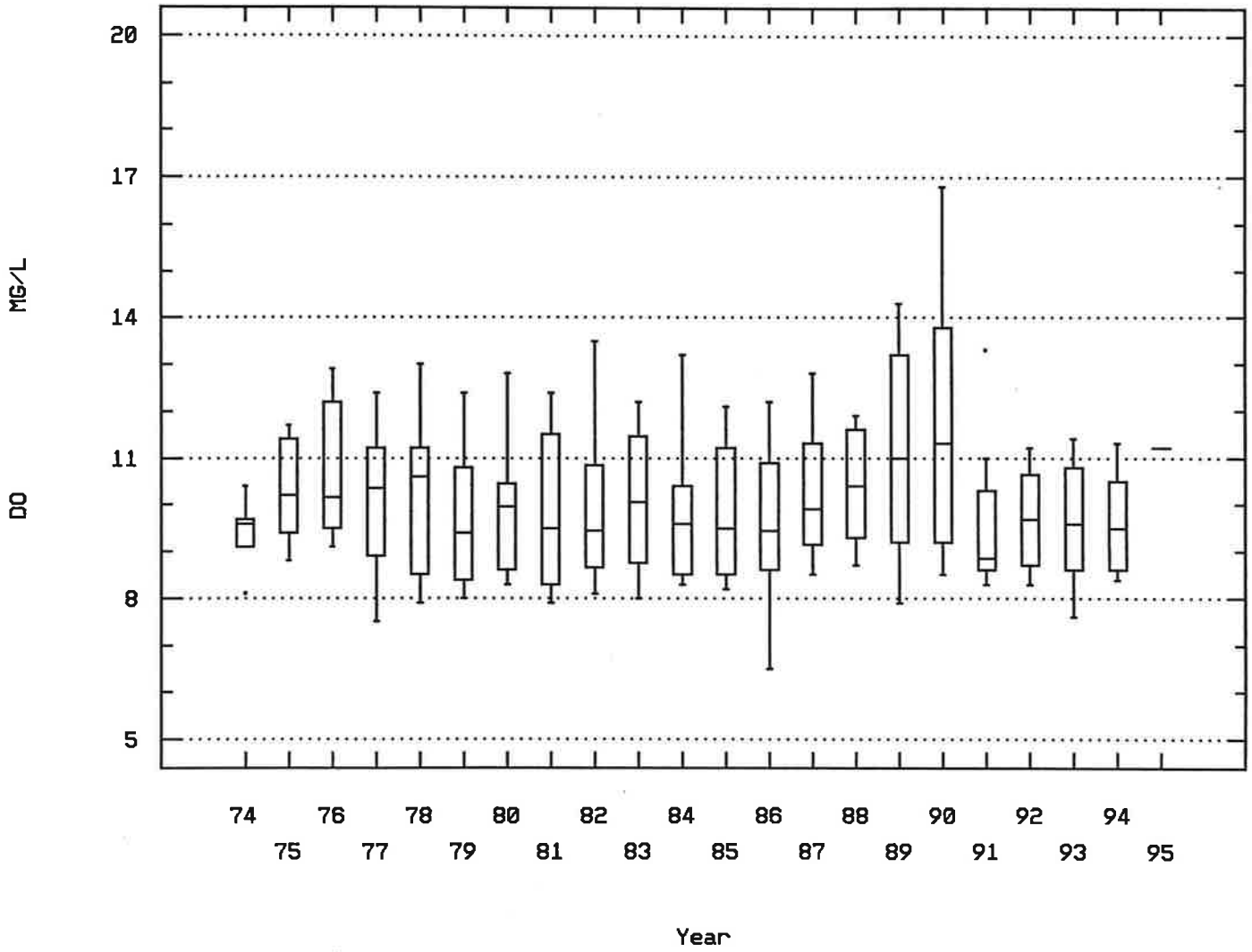
Annual Analysis for 1995 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00300p OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	1	11.2	11.2	11.2	11.2	0.	0.	**	**	**	**
00400p PH (STANDARD UNITS)	08/13/74-01/09/95	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400p CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00400p MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00530p RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	1	5.	5.	5.	5.	0.	0.	**	**	**	**
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	1	1.	1.	1.	1.	0.	0.	**	**	**	**
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	1	0.	0.	0.	0.	0.	0.	**	**	**	**
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN =		1.									

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

Station: GRSM0009 Parameter Code: 00300

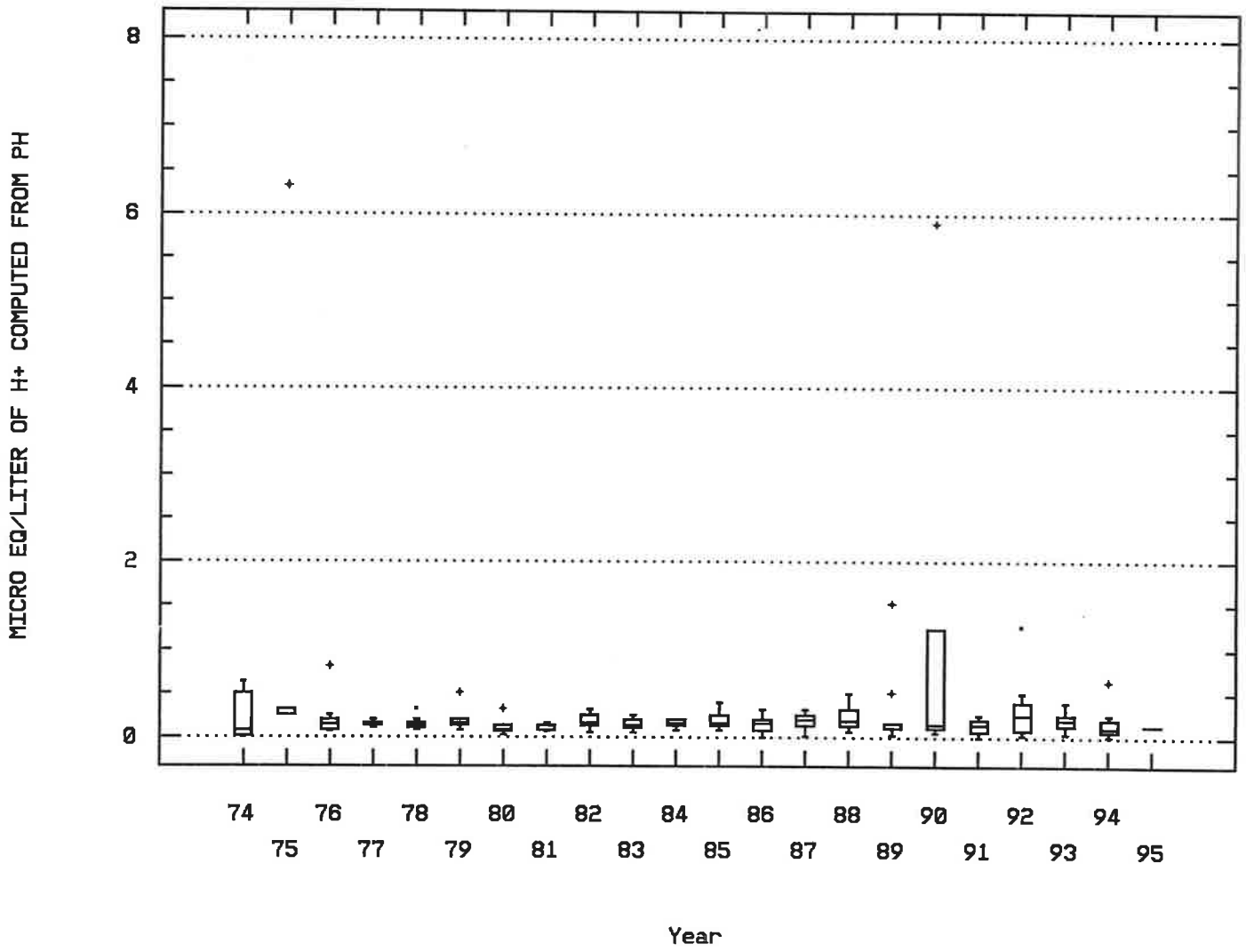
OXYGEN, DISSOLVED



TUCKASEGEE RIVER AT BRYSON CITY

Station: GRSM0009 Parameter Code: 00400

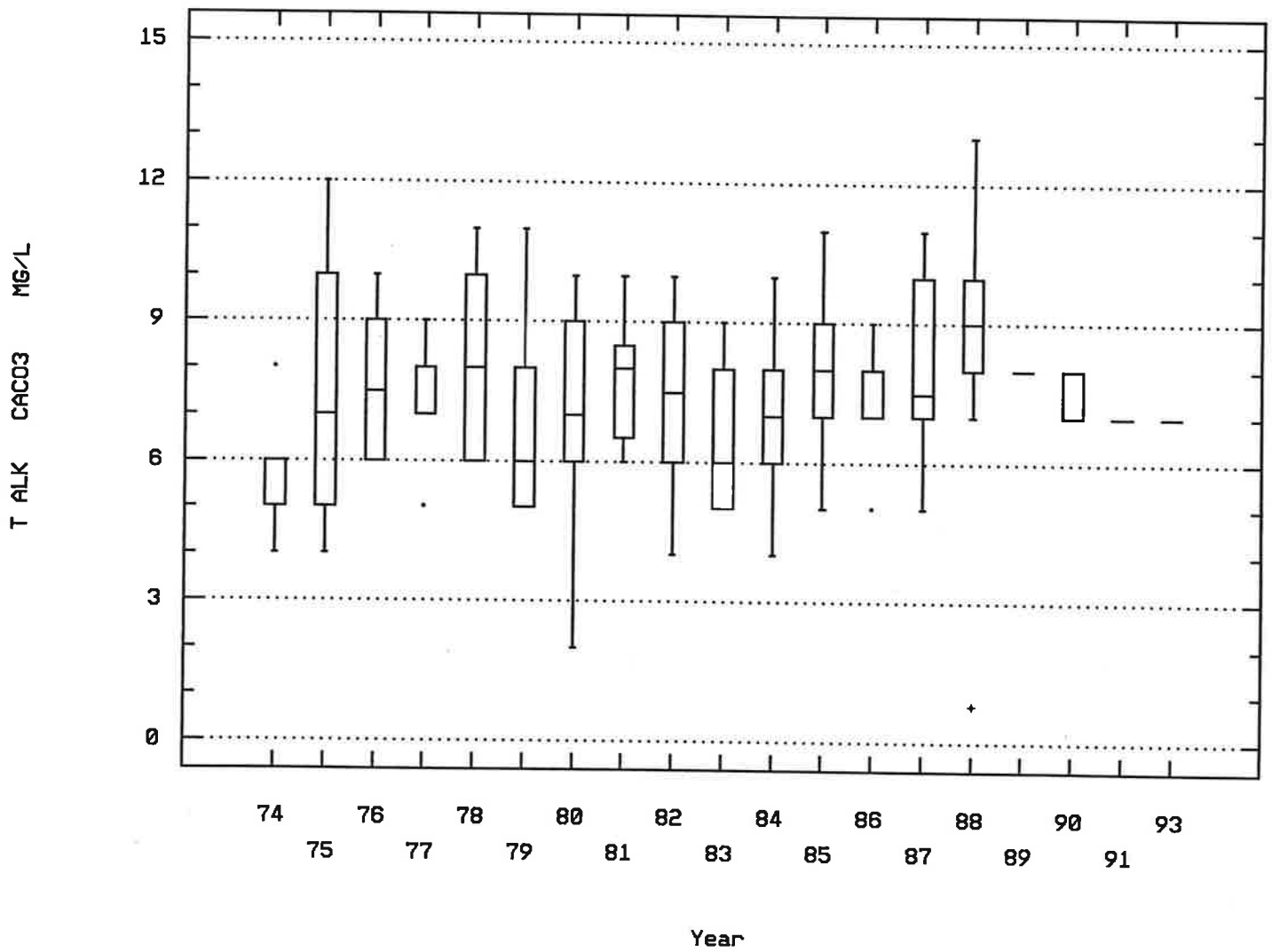
MICRO EQ/LITER OF H+ COMPUTED FROM PH



TUCKASEGEE RIVER AT BRYSON CITY

Station: GRSM0009 Parameter Code: 00410

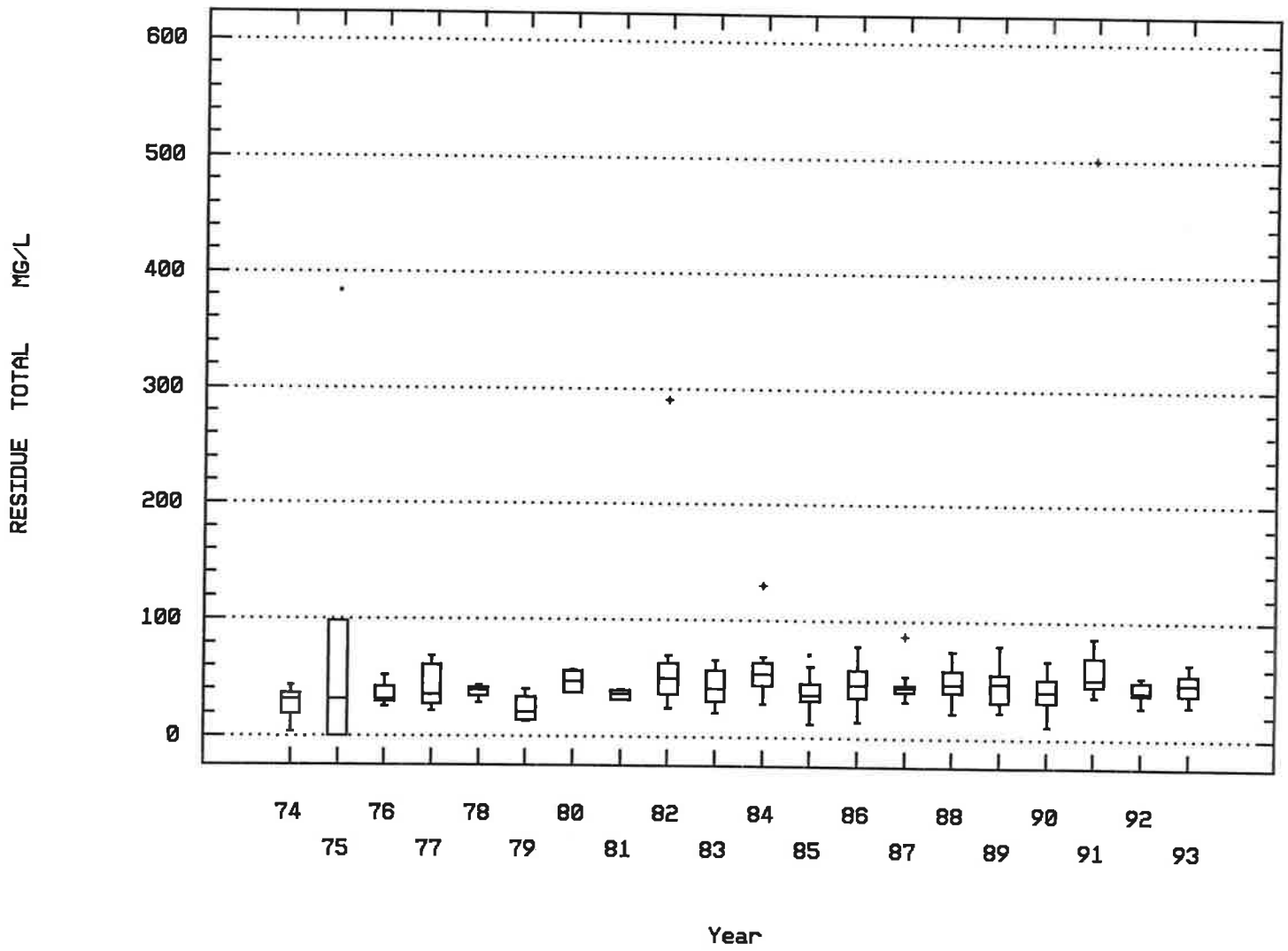
ALKALINITY, TOTAL (MG/L AS CACO3)



TUCKASEGEE RIVER AT BRYSON CITY

Station: GRSM0009 Parameter Code: 00500

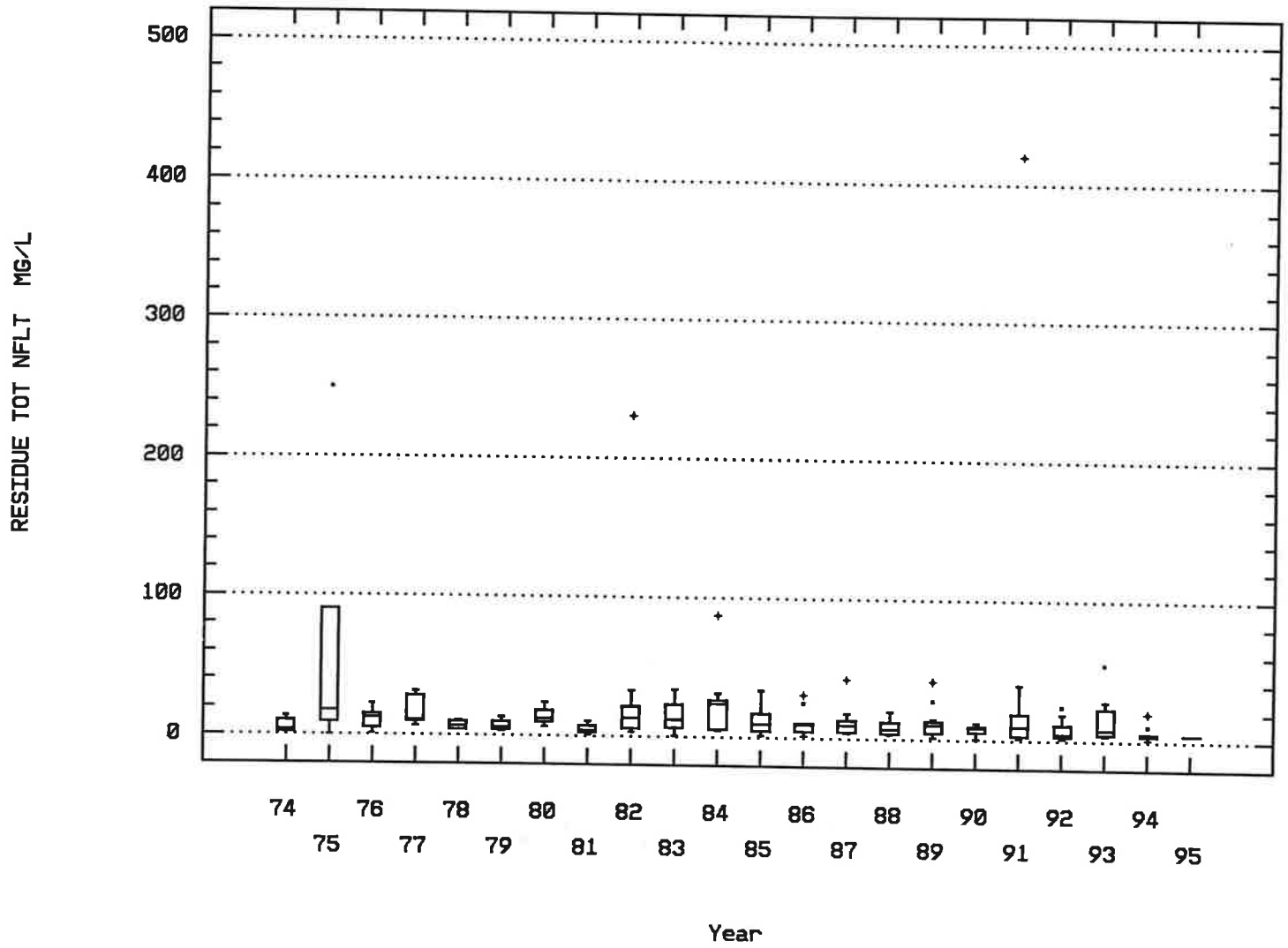
RESIDUE, TOTAL (MG/L)



TUCKASEGEE RIVER AT BRYSON CITY

Station: GRSM0009 Parameter Code: 00530

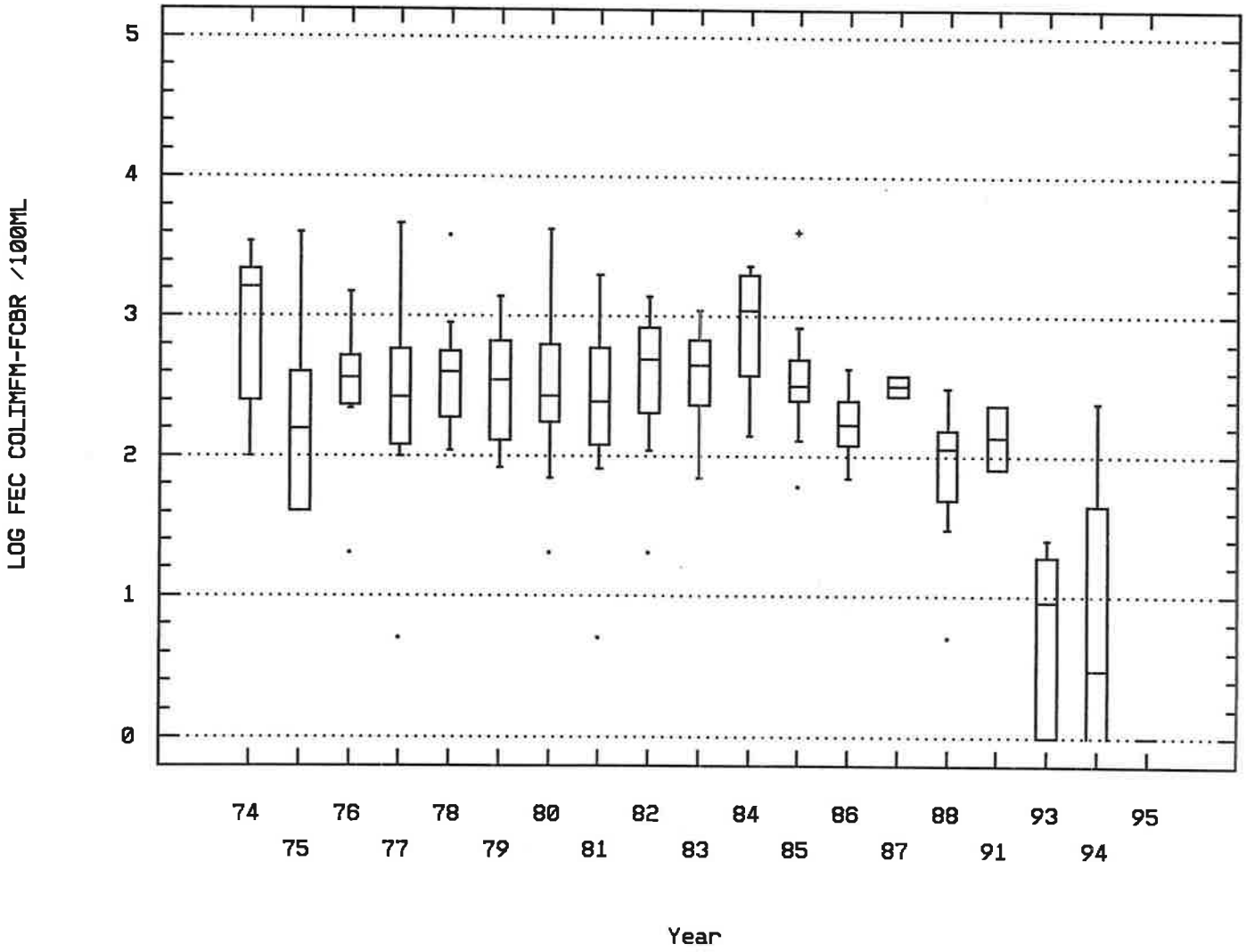
RESIDUE, TOTAL NONFILTRABLE (MG/L)



TUCKASEGEE RIVER AT BRYSON CITY

Station: GRSM0009 Parameter Code: 31616

LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



TUCKASEGEE RIVER AT BRYSON CITY

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)	02/15/83-01/09/95	50	200.	179.48	275.	45.	7978.459	89.322	60.	75.	275.	275.
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	112	8.	7.656	18.	-1.	18.68	4.322	2.	5.	10.75	13.
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	80	1550.	1833.513	9330.	355.	2035572.835	1426.735	662.6	939.	2232.5	3243.
00064 DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	49	3.	3.333	10.	2.	2.418	1.555	2.	2.	4.9	5.
00065 STAGE, STREAM (FEET)	09/23/75-09/09/93	82	2.73	2.845	6.83	1.49	0.838	0.915	1.909	2.2	3.255	3.908
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	85	4.	8.588	130.	0.5	396.57	19.914	1.5	2.	6.	12.4
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	63	26.	26.079	42.	5.	54.074	7.354	16.4	22.	30.	35.6
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/14/90	35	22.	53.114	920.	4.	23149.692	152.15	13.4	20.	28.	57.4
00300 OXYGEN, DISSOLVED MG/L	08/13/74-01/09/95	113	11.1	11.224	16.8	8.4	2.169	1.473	9.54	10.25	12.	13.2
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-09/05/85	39	93.	92.782	106.	80.	35.092	5.924	86.	88.	96.	102.
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-06/08/93	76	0.6	0.589	1.5	0.1	0.084	0.289	0.2	0.4	0.8	0.93
00340 COD, .25N K2CR2O7 MG/L	01/02/75-04/16/81	32##	5.	6.25	15.	5.	8.871	2.978	5.	5.	5.	12.5
00400 PH (STANDARD UNITS)	08/13/74-01/09/95	101	6.7	6.699	7.8	5.2	0.203	0.45	6.06	6.5	6.9	7.1
00400 CONVERTED PH (STANDARD UNITS)	08/13/74-01/09/95	101	6.7	6.36	7.8	5.2	0.319	0.565	6.06	6.5	6.9	7.1
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-01/09/95	101	0.2	0.436	6.31	0.016	1.055	1.027	0.079	0.126	0.316	0.9
00403 PH, LAB, STANDARD UNITS SU	12/10/79-12/01/94	63	6.8	6.767	7.1	6.5	0.02	0.141	6.6	6.7	6.8	7.
00403 CONVERTED PH, LAB, STANDARD UNITS	12/10/79-12/01/94	63	6.8	6.745	7.1	6.5	0.02	0.143	6.6	6.7	6.8	7.
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/10/79-12/01/94	63	0.158	0.18	0.316	0.079	0.003	0.057	0.1	0.158	0.2	0.251
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/09/93	82	7.	6.988	13.	1.	4.062	2.015	5.	6.	8.	10.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/11/90	22	0.	3.227	25.	0.	55.898	7.477	0.	0.	1.5	20.2
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/05/93	61	7.	7.443	28.	2.	13.417	3.663	4.	5.5	8.5	10.8
00500 RESIDUE, TOTAL (MG/L)	08/13/74-07/26/93	93	38.	47.839	500.	0.025	3257.498	57.074	23.4	29.5	49.5	61.6
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-01/09/95	99	5.	16.47	420.	0.025	2375.195	48.736	2.	3.	12.	26.
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-11/17/94	51##	0.025	0.04	0.25	0.01	0.002	0.046	0.025	0.025	0.04	0.076
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-11/17/94	51	0.1	0.174	0.8	0.05	0.023	0.151	0.05	0.1	0.2	0.3
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-11/17/94	50	0.18	0.203	0.97	0.05	0.02	0.142	0.071	0.12	0.23	0.376
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-11/17/94	50##	0.025	0.043	0.42	0.005	0.004	0.062	0.02	0.025	0.043	0.089
00900 HARDNESS, TOTAL (MG/L AS CACO3)	01/02/75-01/09/95	40	8.	17.95	410.	4.	4049.074	63.632	6.	6.	9.	11.
01002 ARSENIC, TOTAL (UG/L AS AS)	01/02/75-11/17/94	52##	5.	5.923	20.	5.	10.19	3.192	5.	5.	5.	8.5
01027 CADMIUM, TOTAL (UG/L AS CD)	01/02/75-11/17/94	53##	10.	13.377	50.	1.	145.855	12.077	1.	1.	25.	25.
01034 CHROMIUM, TOTAL (UG/L AS CR)	09/23/75-11/17/94	53##	25.	19.387	25.	2.5	43.727	6.613	12.5	12.5	25.	25.
01037 COBALT, TOTAL (UG/L AS CO)	01/02/75-12/21/89	17##	50.	47.059	50.	25.	68.934	8.303	25.	50.	50.	50.
01042 COPPER, TOTAL (UG/L AS CU)	01/02/75-11/17/94	54##	10.	12.241	60.	1.	108.715	10.427	1.	4.75	20.	20.
01045 IRON, TOTAL (UG/L AS FE)	01/02/75-11/17/94	30	300.	342.067	1100.	8.	55877.375	236.384	72.	177.5	477.5	699.
01051 LEAD, TOTAL (UG/L AS PB)	01/02/75-11/17/94	53##	50.	35.943	200.	5.	1146.208	33.856	5.	5.	50.	50.
01055 MANGANESE, TOTAL (UG/L AS MN)	01/02/75-11/17/94	25##	25.	31.61	250.	0.25	2146.907	46.335	11.2	21.5	25.	35.
01067 NICKEL, TOTAL (UG/L AS NI)	09/23/75-11/17/94	43##	25.	29.186	50.	5.	432.06	20.786	5.	5.	50.	50.
01092 ZINC, TOTAL (UG/L AS ZN)	01/02/75-11/17/94	53##	10.	25.311	320.	0.5	2580.656	50.8	5.	5.	25.	25.
01105 ALUMINUM, TOTAL (UG/L AS AL)	09/23/75-11/17/94	21	200.	364.571	2100.	50.	210452.457	458.751	58.	104.	400.	800.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	79	140.	300.766	2300.	0.5	194143.685	440.617	5.	40.	320.	690.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-01/09/95	79	2.146	1.982	3.362	-0.301	0.759	0.871	0.699	1.602	2.505	2.839
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	96.016								
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	06/23/76-06/18/91	27##	0.025	0.019	0.025	0.005	0.	0.009	0.005	0.005	0.025	0.025
71900 MERCURY, TOTAL (UG/L AS HG)	01/02/75-11/17/94	48##	0.1	0.164	0.3	0.1	0.006	0.076	0.1	0.1	0.25	0.25

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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0009

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00004 STREAM WIDTH (FEET)	02/15/83-01/09/95	44	87.5	150.068	275.	3.	10315.321	101.564	60.	75.	275.	275.
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-01/09/95	118	19.	18.072	26.	8.	14.57	3.817	11.9	16.	21.	22.
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/29/75-09/09/93	88	1205.	1387.227	4110.	484.	549169.557	741.06	641.2	825.5	1832.5	2329.
00064 DEPTH OF STREAM, MEAN (FT)	02/15/83-01/09/95	44	3.	3.886	50.	2.	51.301	7.162	2.	2.	3.	4.25
00065 STAGE, STREAM (FEET)	09/23/75-09/09/93	93	2.45	2.554	4.48	0.98	0.408	0.639	1.868	2.075	3.005	3.398
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-01/09/95	85	5.2	9.627	130.	1.3	278.974	16.703	2.56	3.7	8.75	17.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-01/09/95	74	25.	26.946	47.	13.	35.641	5.97	21.	23.75	30.25	34.

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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0009

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		08/18/74-02/14/90	26	23.	25.692	60.	15.	74.542	8.634	20.	20.	30.	32.2
00300	OXYGEN, DISSOLVED	MG/L	08/13/74-01/09/95	118	8.85	8.973	12.9	6.5	0.734	0.857	8.	8.4	9.5	10.01
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	08/13/74-09/05/85	44	91.65	94.311	116.	85.	45.604	6.753	87.	90.	99.75	103.
00310	BOD, 5 DAY, 20 DEG C	MG/L	08/13/74-06/08/93	80	0.8	0.855	2.8	0.2	0.18	0.425	0.4	0.5	1.075	1.4
00340	COD, .25N K2CR2O7	MG/L	01/02/75-04/16/81	31##	5.	7.935	51.	5.	76.796	8.763	5.	5.	5.	13.8
00400	PH (STANDARD UNITS)		08/13/74-01/09/95	109	6.9	6.949	8.65	6.1	0.148	0.384	6.6	6.8	7.1	7.3
00400	CONVERTED PH (STANDARD UNITS)		08/13/74-01/09/95	109	6.9	6.826	8.65	6.1	0.163	0.404	6.6	6.8	7.1	7.3
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		08/13/74-01/09/95	109	0.126	0.149	0.794	0.002	0.014	0.12	0.05	0.079	0.158	0.251
00403	PH, LAB, STANDARD UNITS	SU	12/10/79-12/01/94	55	6.9	6.858	7.3	6.6	0.026	0.162	6.66	6.7	7.	7.1
00403	CONVERTED PH, LAB, STANDARD UNITS		12/10/79-12/01/94	55	6.9	6.83	7.3	6.6	0.027	0.164	6.66	6.7	7.	7.1
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/10/79-12/01/94	55	0.126	0.148	0.251	0.05	0.003	0.052	0.079	0.1	0.2	0.22
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		08/13/74-02/09/93	84	8.	7.688	12.	0.8	2.876	1.696	6.	7.	9.	10.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		08/13/74-01/11/90	30	0.	0.017	0.5	0.	0.008	0.091	0.	0.	0.	0.
00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)		06/25/80-10/05/93	71	8.	8.662	17.	5.	5.198	2.28	6.	7.	10.	10.8
00500	RESIDUE, TOTAL (MG/L)		08/13/74-07/26/93	88	46.5	50.864	383.	4.	1502.487	38.762	29.9	38.25	58.	67.2
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)		08/13/74-01/09/95	97	11.	15.871	250.	0.5	653.538	25.564	4.	7.	19.	27.2
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		08/18/74-11/17/94	53##	0.025	0.029	0.07	0.01	0.	0.012	0.02	0.025	0.03	0.05
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		08/18/74-11/17/94	53	0.2	0.206	0.6	0.05	0.011	0.104	0.1	0.1	0.2	0.3
00630	NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)		08/18/74-11/17/94	53	0.14	0.178	1.8	0.025	0.054	0.232	0.09	0.11	0.185	0.22
00665	PHOSPHORUS, TOTAL (MG/L AS P)		08/18/74-11/17/94	53	0.025	0.047	0.46	0.005	0.004	0.063	0.02	0.025	0.05	0.07
00900	HARDNESS, TOTAL (MG/L AS CACO3)		01/02/75-01/09/95	35	8.	7.657	14.	4.	4.761	2.182	5.2	6.	8.	10.4
01002	ARSENIC, TOTAL (UG/L AS AS)		01/02/75-11/17/94	46##	5.	6.087	30.	5.	18.792	4.335	5.	5.	5.	6.5
01027	CADMIUM, TOTAL (UG/L AS CD)		01/02/75-11/17/94	47##	5.	11.17	25.	1.	119.144	10.915	1.	1.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)		09/23/75-11/17/94	47##	25.	21.117	130.	12.5	302.394	17.389	12.5	12.5	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)		01/02/75-12/21/89	12##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)		01/02/75-11/17/94	47##	10.	89.	3600.	1.	273991.739	523.442	1.	3.	20.	23.
01045	IRON, TOTAL (UG/L AS FE)		01/02/75-11/17/94	25	540.	1369.6	20000.	190.	15175279.	3895.546	200.	290.	815.	1260.
01051	LEAD, TOTAL (UG/L AS PB)		01/02/75-11/17/94	47##	25.	29.787	100.	5.	571.693	23.91	5.	5.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)		01/02/75-11/17/94	17##	25.	71.765	540.	25.	15299.816	123.692	25.	25.	60.	196.
01067	NICKEL, TOTAL (UG/L AS NI)		09/23/75-11/17/94	40##	25.	37.375	300.	5.	3284.599	57.311	5.	5.	50.	50.
01092	ZINC, TOTAL (UG/L AS ZN)		01/02/75-11/17/94	47##	10.	212.851	9000.	5.	1715921.695	1309.932	5.	5.	25.	100.
01105	ALUMINUM, TOTAL (UG/L AS AL)		09/23/75-11/17/94	19	500.	1517.368	19000.	100.	18052042.69	4248.77	190.	260.	870.	1500.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		08/13/74-01/09/95	90	385.	756.956	4600.	0.5	1031212.419	1015.486	46.6	187.5	855.	1980.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		08/13/74-01/09/95	90	2.585	2.492	3.663	-0.301	0.566	0.752	1.664	2.273	2.932	3.296
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C				GEOMETRIC MEAN =	310.803								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)		06/23/76-06/18/91	30##	0.025	0.017	0.025	0.005	0.	0.009	0.005	0.005	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)		01/02/75-11/17/94	45##	0.1	0.347	5.4	0.1	0.71	0.843	0.1	0.1	0.25	0.48

** - 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

Station Inventory for Station: GRSM0010

NPS Station ID: GRSM0010 LAT/LON: 35.427781/ -83.447504 Agency: 112WRD Date Created: / /
Location: TUCKASEGEE RIVER AT BRYSON CITY, N. C.
Station Type: /TYPA/AMBNT/STREAM
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
STORET Station ID(s): 03513000
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010203008 RF1 Mile Point: 5.250 Distance from RF1: 0.80 On/Off RF1: OFF
RF3 Index: 06010202008500.00 RF3 Mile Point: 2.05 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0010

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		11/06/70-10/02/72	12	12.25	12.725	22.1	3.	34.824	5.901	3.6	9.	18.275	21.32
00060	FLOW, STREAM, MEAN DAILY	CFS	10/18/57-10/02/72	70	1285.	1509.557	5610.	500.	874229.062	935.002	704.2	884.5	1915.	2506.
00061	FLOW, STREAM, INSTANTANEOUS	CFS	10/19/56-01/04/82	32	3320.	5191.313	19100.	524.	25446277.577	5044.43	746.6	1360.	8500.	13790.
00080	COLOR (PLATINUM-COBALT UNITS)		10/19/56-05/09/72	70	30.	44.214	240.	1.	2013.533	44.872	5.	10.	60.	109.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/19/56-05/09/72	70	41.5	52.429	160.	19.	886.335	29.771	24.	31.75	68.25	99.4
00400	PH (STANDARD UNITS)		10/19/56-05/09/72	70	6.2	6.174	7.2	4.6	0.24	0.49	5.71	6.	6.4	6.8
00400	CONVERTED PH (STANDARD UNITS)		10/19/56-05/09/72	70	6.2	5.768	7.2	4.6	0.407	0.638	5.71	6.	6.4	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/19/56-05/09/72	70	0.631	1.705	25.119	0.063	16.976	4.12	0.158	0.398	1.	1.954
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		11/06/70-05/09/72	10	2.	3.7	8.	1.	6.456	2.541	1.1	2.	6.25	7.9
00440	BICARBONATE ION (MG/L AS HCO3)		10/19/56-05/09/72	70	13.	14.914	43.	1.	66.253	8.14	6.1	10.	19.	25.9
00445	CARBONATE ION (MG/L AS CO3)		11/06/70-05/09/72	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)		11/06/70-05/09/72	9	0.53	0.583	1.1	0.2	0.079	0.281	0.2	0.38	0.8	1.1
00608	NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)		11/06/70-05/09/72	9	1.4	1.522	3.	1.	0.377	0.614	1.	1.1	1.7	3.
00613	NITRITE NITROGEN, DISSOLVED (MG/L AS N)		11/03/70-05/09/72	9##	0.005	0.009	0.02	0.005	0.	0.006	0.005	0.005	0.015	0.02
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)		11/06/70-05/09/72	8	0.185	0.179	0.23	0.12	0.002	0.043	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)		11/06/70-11/08/71	5	0.12	0.166	0.4	0.09	0.017	0.132	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)		05/26/71-05/09/72	3	0.09	0.097	0.12	0.08	0.	0.021	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)		10/19/56-05/09/72	70	6.	6.743	10.	5.	1.295	1.138	6.	6.	8.	8.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)		10/19/56-05/09/72	70	0.	0.443	8.	0.	2.047	1.431	0.	0.	0.	1.
00915	CALCIUM, DISSOLVED (MG/L AS CA)		10/19/56-05/09/72	70	1.9	1.936	2.8	1.	0.154	0.392	1.51	1.675	2.2	2.6
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		10/19/56-05/09/72	70	0.5	0.473	1.	0.2	0.031	0.177	0.21	0.3	0.6	0.7
00930	SODIUM, DISSOLVED (MG/L AS NA)		10/19/56-05/09/72	70	5.6	7.331	29.	1.	41.387	6.433	1.3	1.775	10.	17.9
00931	SODIUM ADSORPTION RATIO		11/06/70-05/09/72	10	0.2	0.24	0.3	0.2	0.003	0.052	0.2	0.2	0.3	0.3
00932	SODIUM, PERCENT		11/06/70-05/09/72	10	26.5	26.7	35.	21.	18.233	4.27	21.1	22.75	30.	34.5
00935	POTASSIUM, DISSOLVED (MG/L AS K)		10/19/56-05/09/72	70	0.8	0.906	2.3	0.2	0.12	0.346	0.51	0.7	1.125	1.3
00940	CHLORIDE,TOTAL IN WATER	MG/L	10/19/56-05/09/72	70	1.	1.44	3.	0.4	0.468	0.684	0.5	1.	2.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)		10/19/56-05/09/72	70	7.	9.174	34.	0.5	60.84	7.8	2.	3.	12.	20.
00950	FLUORIDE, DISSOLVED (MG/L AS F)		10/19/56-09/24/63	60	0.1	0.082	0.3	0.	0.007	0.085	0.	0.	0.1	0.2
00955	SILICA, DISSOLVED (MG/L AS SI02)		10/19/56-05/09/72	70	7.6	7.681	9.7	5.2	0.765	0.874	6.7	7.1	8.3	8.89
01045	IRON, TOTAL (UG/L AS FE)		10/19/56-11/08/71	52	35.	58.269	760.	0.	11642.044	107.898	0.	20.	60.	128.
01046	IRON, DISSOLVED (UG/L AS FE)		11/06/70-05/09/72	7	110.	110.	170.	40.	2133.333	46.188	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		10/19/56-05/09/72	70	39.	46.571	137.	19.	711.147	26.667	21.1	26.	56.5	83.9
70302	SOLIDS, DISSOLVED-TONS PER DAY		11/06/70-05/09/72	10	106.5	122.11	191.	72.6	1873.957	43.289	73.48	87.55	174.5	189.5
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT		11/06/70-05/09/72	10	0.04	0.038	0.05	0.03	0.	0.008	0.03	0.03	0.043	0.05
70337	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .002MM		02/24/79-02/24/79	1	10.	10.	10.	10.	0.	0.	**	**	**	**
70338	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .004MM		02/24/79-03/21/80	2	14.	14.	16.	12.	8.	2.828	**	**	**	**
70339	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .008MM		02/24/79-03/21/80	2	18.5	18.5	19.	18.	0.5	0.707	**	**	**	**
70340	SUS SED FALL DIA(DISTLD WATER)%FINER THAN .016MM		02/24/79-03/21/80	2	26.	26.	29.	23.	18.	4.243	**	**	**	**

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

Parameter Inventory for Station: GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70341 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .031MM	02/24/79-03/21/80	2	35.5	35.5	41.	30.	60.5	7.778	**	**	**	**
70342 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .062MM	02/24/79-03/21/80	2	48.5	48.5	59.	38.	220.5	14.849	**	**	**	**
70343 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .125MM	02/24/79-03/21/80	2	70.	70.	74.	66.	32.	5.657	**	**	**	**
70344 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .250MM	02/24/79-03/21/80	2	92.	92.	93.	91.	2.	1.414	**	**	**	**
70345 SUS SED FALL DIA(DISTLD WATER)%FINER THAN .500MM	03/21/80-03/21/80	1	98.	98.	98.	98.	0.	0.	**	**	**	**
70346 SUS SED FALL DIA(DISTLD WATER)%FINER THAN 1.00MM	03/21/80-03/21/80	1	100.	100.	100.	100.	0.	0.	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	49	0.5	0.657	2.1	0.	0.185	0.43	0.2	0.35	0.9	1.3
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/24/61-09/24/63	22	0.8	0.805	1.7	0.	0.2	0.448	0.26	0.5	1.025	1.61
71885 IRON (UG/L AS FE)	10/24/61-09/24/63	22	35.	39.091	90.	0.	751.515	27.414	0.	20.	62.5	84.
80154 SUSP. SEDIMENT CONCENTRATION-EVAP. AT 110C (MG/L)	03/31/77-01/04/82	30	100.5	254.2	1650.	4.	142187.545	377.078	6.1	21.5	326.75	701.3
80155 SUSPENDED SEDIMENT DISCHARGE (TONS/DAY)	03/31/77-01/04/82	30	666.5	8216.947	72600.	5.7	304152152.61	17439.959	24.	71.75	8967.5	26600.

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

EPA Water Quality Criteria Analysis for Station: GRSM0010

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Other-Hi Lim.	9.	70	0	0.00	36	0	0.00	34	0	0.00						
	Other-Lo Lim.	6.5	70	56	0.80	36	28	0.78	34	28	0.82						
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	9	0	0.00	6	0	0.00	3	0	0.00						
00618 NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	8	0	0.00	5	0	0.00	3	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	70	0	0.00	36	0	0.00	34	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	70	0	0.00	36	0	0.00	34	0	0.00						
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	49	0	0.00	25	0	0.00	24	0	0.00						
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	22	0	0.00	10	0	0.00	12	0	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 1956 - Station GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00080 COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	1	110.	110.	110.	110.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	1	68.	68.	68.	68.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	10/19/56-05/09/72	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	1	0.794	0.794	0.794	0.794	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	1	7.9	7.9	7.9	7.9	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	1	760.	760.	760.	760.	0.	0.	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	1	49.	49.	49.	49.	0.	0.	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**

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

Annual Analysis for 1957 - Station GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	3	1970.	2166.667	3110.	1420.	743033.333	861.994	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	4	35.	30.	40.	10.	200.	14.142	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	4	36.5	36.25	39.	33.	7.583	2.754	**	**	**	**
00400 PH (STANDARD UNITS)	10/19/56-05/09/72	4	6.15	6.225	6.8	5.8	0.216	0.465	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	4	6.082	6.071	6.8	5.8	0.248	0.498	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	4	0.829	0.85	1.585	0.158	0.463	0.681	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	4	11.5	11.5	14.	9.	5.667	2.38	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	4	6.	6.25	7.	6.	0.25	0.5	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	4	1.7	1.75	2.	1.6	0.037	0.191	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	4	0.4	0.425	0.7	0.2	0.049	0.222	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	4	4.6	4.525	5.4	3.5	0.669	0.818	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	4	0.55	0.525	0.6	0.4	0.009	0.096	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	4	2.	1.75	2.	1.	0.25	0.5	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	4	6.5	6.5	8.	5.	1.667	1.291	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	4	0.	0.025	0.1	0.	0.003	0.05	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	4	7.5	7.125	8.3	5.2	1.896	1.377	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	4	25.	25.	40.	10.	166.667	12.91	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	4	31.5	31.	35.	26.	15.333	3.916	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	4	0.4	0.475	0.9	0.2	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 1958 - Station GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	9	1610.	1533.667	2180.	753.	274338.5	523.773	753.	1085.	2010.	2180.
00080 COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	9	40.	45.556	100.	5.	959.028	30.968	5.	20.	70.	100.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	9	39.	43.	71.	19.	255.5	15.984	19.	33.	57.	71.
00400 PH (STANDARD UNITS)	10/19/56-05/09/72	9	6.2	6.211	6.3	6.1	0.006	0.078	6.1	6.15	6.3	6.3

** - 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 1958 - Station GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400 CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	9	6.2	6.205	6.3	6.1	0.006	0.078	6.1	6.15	6.3	6.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	9	0.631	0.624	0.794	0.501	0.013	0.114	0.501	0.501	0.713	0.794
00440 BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	9	12.	14.222	24.	8.	26.944	5.191	8.	11.	19.	24.
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	9	7.	7.	10.	5.	3.	1.732	5.	5.5	8.5	10.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	9	2.	2.089	2.8	1.6	0.281	0.53	1.6	1.6	2.7	2.8
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	9	0.5	0.422	0.7	0.2	0.027	0.164	0.2	0.25	0.5	0.7
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	9	5.7	6.067	11.	1.3	10.933	3.306	1.3	3.3	9.2	11.
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	9	0.6	0.778	1.4	0.2	0.159	0.399	0.2	0.55	1.2	1.4
00940 CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	9	1.	1.511	3.	0.6	0.601	0.775	0.6	1.	2.	3.
00945 SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	9	8.	7.878	15.	0.9	22.034	4.694	0.9	4.	11.5	15.
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	9	0.	0.033	0.1	0.	0.003	0.05	0.	0.	0.1	0.1
00955 SILICA, DISSOLVED (MG/L AS SIO2)	10/19/56-05/09/72	9	8.1	8.133	9.7	6.8	0.852	0.923	6.8	7.4	8.85	9.7
01045 IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	9	30.	40.	100.	0.	1125.	33.541	0.	15.	70.	100.
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	9	39.	42.333	69.	19.	251.5	15.859	19.	30.5	57.	69.
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	9	0.7	0.711	1.3	0.3	0.136	0.369	0.3	0.4	1.05	1.3

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

Annual Analysis for 1959 - Station GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	4	1685.	1687.5	2160.	1220.	201425.	448.804	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	4	25.	38.75	95.	10.	1472.917	38.379	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	4	36.5	49.5	100.	25.	1183.	34.395	**	**	**	**
00400 PH (STANDARD UNITS)	10/19/56-05/09/72	4	6.05	6.15	6.6	5.9	0.097	0.311	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	4	6.047	6.083	6.6	5.9	0.103	0.32	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	4	0.897	0.826	1.259	0.251	0.183	0.428	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	4	13.	13.5	20.	8.	24.333	4.933	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	4	6.5	6.5	7.	6.	0.333	0.577	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	4	2.	1.95	2.5	1.3	0.27	0.52	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	4	0.35	0.375	0.6	0.2	0.029	0.171	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	4	4.65	7.2	18.	1.5	55.647	7.46	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	4	0.85	0.925	1.2	0.8	0.036	0.189	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	4	1.	1.175	2.	0.7	0.323	0.568	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	4	5.	10.45	31.	0.8	197.61	14.057	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	4	0.1	0.125	0.2	0.1	0.003	0.05	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SIO2)	10/19/56-05/09/72	4	8.05	8.15	8.9	7.6	0.377	0.614	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	4	50.	70.	140.	40.	2200.	46.904	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	4	30.5	40.75	83.	19.	836.25	28.918	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	4	0.9	0.9	1.3	0.5	0.133	0.365	**	**	**	**

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

Annual Analysis for 1960 - Station GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	10	1058.	1227.9	2160.	527.	342502.322	585.237	540.5	720.5	1745.	2144.
00080 COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	10	45.	67.	240.	5.	5595.556	74.803	5.	8.75	112.5	228.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	10	66.	70.8	160.	21.	2530.622	50.305	21.	23.25	114.25	157.
00400 PH (STANDARD UNITS)	10/19/56-05/09/72	10	6.7	6.6	7.2	6.	0.133	0.365	6.01	6.25	6.8	7.16
00400 CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	10	6.7	6.458	7.2	6.	0.156	0.395	6.01	6.25	6.8	7.16
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	10	0.2	0.348	1.	0.063	0.099	0.314	0.073	0.158	0.574	0.979
00440 BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	10	18.5	20.6	43.	9.	132.933	11.53	9.1	10.	28.	42.1

** - 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 1960 - Station GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	10	6.5	6.8	8.	6.	0.844	0.919	6.	6.	8.	8.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	10	2.05	1.95	2.6	1.3	0.183	0.428	1.31	1.625	2.2	2.59
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	10	0.5	0.53	1.	0.2	0.058	0.241	0.22	0.4	0.6	0.99
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	10	10.6	11.21	29.	1.2	102.828	10.14	1.22	1.55	19.5	28.5
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	10	0.9	0.92	1.3	0.4	0.088	0.297	0.42	0.75	1.225	1.3
00940 CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	10	0.65	1.02	2.	0.4	0.488	0.699	0.41	0.5	2.	2.
00945 SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	10	12.5	13.45	34.	0.5	160.136	12.654	0.55	1.75	23.	33.8
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	10	0.1	0.11	0.2	0.	0.008	0.088	0.	0.	0.2	0.2
00955 SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	10	8.35	8.44	9.5	7.6	0.42	0.648	7.6	7.9	8.975	9.47
01045 IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	10	15.	16.	40.	0.	204.444	14.298	0.	0.	30.	39.
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	10	53.5	64.4	137.	19.	1975.378	44.445	19.1	23.	113.	135.5
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	10	0.35	0.52	1.2	0.2	0.126	0.355	0.2	0.275	0.85	1.18

** - 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 1961 - Station GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	12	1075.	1162.	1800.	665.	194547.818	441.076	676.7	722.25	1655.	1791.
00080 COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	12	31.5	35.167	100.	1.	1037.606	32.212	2.2	5.	47.5	97.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	12	50.5	50.833	94.	22.	560.333	23.671	22.6	25.25	71.	87.7
00400 PH (STANDARD UNITS)	10/19/56-05/09/72	12	6.25	6.267	6.9	5.5	0.153	0.392	5.59	6.05	6.5	6.87
00400 CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	12	6.247	6.099	6.9	5.5	0.184	0.429	5.59	6.05	6.5	6.87
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	12	0.566	0.797	3.162	0.126	0.712	0.844	0.136	0.316	0.908	2.689
00440 BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	12	14.	14.667	23.	9.	22.242	4.716	9.	10.25	18.25	22.7
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	12	6.5	6.667	8.	6.	0.606	0.778	6.	6.	7.	8.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	12	1.75	1.8	2.5	1.6	0.06	0.245	1.6	1.625	1.875	2.32
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	12	0.45	0.508	0.8	0.3	0.023	0.151	0.33	0.4	0.6	0.77
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	12	7.65	6.992	14.	1.3	18.932	4.351	1.39	1.875	9.875	13.4
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	12	0.95	0.975	1.5	0.6	0.084	0.29	0.6	0.725	1.2	1.44
00940 CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	12	2.	1.742	3.	0.4	0.721	0.849	0.46	0.925	2.	3.
00945 SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	12	8.5	8.5	20.	1.	35.	5.916	1.3	2.25	12.25	18.8
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	12	0.05	0.058	0.2	0.	0.004	0.067	0.	0.	0.1	0.17
00955 SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	12	7.6	7.658	9.5	6.9	0.439	0.663	6.93	7.3	7.875	9.02
01045 IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	12	35.	34.167	70.	0.	553.788	23.533	0.	12.5	57.5	67.
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	12	47.5	46.5	84.	19.	455.545	21.344	19.3	23.75	63.5	79.8
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	12	0.5	0.608	1.6	0.2	0.141	0.375	0.2	0.5	0.675	1.42

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	12	1089.	2004.167	5610.	588.	3378447.061	1838.055	608.7	725.25	2985.	5562.
00080 COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	12	41.5	59.667	180.	14.	2551.697	50.514	16.1	28.5	67.5	168.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	12	61.	63.083	132.	27.	954.629	30.897	28.5	37.	73.	123.9
00400 PH (STANDARD UNITS)	10/19/56-05/09/72	12	6.2	6.208	6.8	6.	0.041	0.202	6.03	6.1	6.2	6.65
00400 CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	12	6.2	6.177	6.8	6.	0.042	0.205	6.03	6.1	6.2	6.65
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	12	0.631	0.666	1.	0.158	0.043	0.206	0.261	0.631	0.794	0.938
00440 BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	12	16.5	18.5	36.	9.	65.	8.062	9.6	12.25	23.25	34.2
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	12	6.	6.5	8.	5.	1.545	1.243	5.	5.25	8.	8..
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	12	1.85	1.8	2.2	1.	0.133	0.364	1.09	1.625	2.1	2.2

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

Annual Analysis for 1962 - Station GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	12	0.5	0.475	0.8	0.2	0.033	0.182	0.23	0.3	0.6	0.77
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	12	9.6	10.083	26.	2.5	48.585	6.97	2.62	4.725	12.	24.2
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	12	0.95	0.942	1.3	0.6	0.064	0.254	0.63	0.7	1.225	1.3
00940 CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	12	1.	1.367	2.	0.7	0.321	0.566	0.73	0.925	2.	2.
00945 SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	12	11.	11.	28.	3.	51.818	7.198	3.3	5.25	13.5	25.6
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	12	0.1	0.1	0.3	0.	0.009	0.095	0.	0.	0.175	0.27
00955 SILICA, DISSOLVED (MG/L AS SIO2)	10/19/56-05/09/72	12	7.4	7.508	8.5	6.3	0.357	0.598	6.51	7.225	7.975	8.44
01045 IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	9	40.	48.889	90.	30.	486.111	22.048	30.	30.	70.	90.
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	12	47.5	55.	118.	26.	785.636	28.029	27.8	35.25	67.75	112.3
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	10/19/56-09/25/62	9	0.7	0.633	1.4	0.	0.213	0.461	0.	0.2	0.95	1.4

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

Annual Analysis for 1963 - Station GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	8	1038.	1324.375	2580.	500.	560883.982	748.922	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	8	42.5	48.5	110.	5.	1462.286	38.24	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	8	48.5	56.25	105.	23.	773.643	27.814	**	**	**	**
00400 PH (STANDARD UNITS)	10/19/56-05/09/72	8	6.25	6.363	6.9	6.	0.126	0.354	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	8	6.247	6.263	6.9	6.	0.137	0.37	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	8	0.566	0.546	1.	0.126	0.102	0.319	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	8	15.	17.625	28.	12.	38.554	6.209	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	8	7.	6.875	8.	5.	1.268	1.126	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	8	0.	0.	0.	0.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	8	1.95	1.975	2.6	1.2	0.242	0.492	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	8	0.5	0.45	0.6	0.2	0.026	0.16	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	8	6.5	8.863	19.	2.	37.366	6.113	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	8	1.	1.213	2.3	0.7	0.321	0.567	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	8	1.5	1.438	2.	0.5	0.388	0.623	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	8	7.5	10.25	25.	2.	66.786	8.172	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/19/56-09/24/63	8	0.15	0.125	0.3	0.	0.014	0.116	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SIO2)	10/19/56-05/09/72	8	7.5	7.762	8.8	6.9	0.66	0.812	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	8	43.	50.	88.	22.	565.143	23.773	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	2	1310.	1310.	1400.	1220.	16200.	127.279	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	2	15.	15.	20.	10.	50.	7.071	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	2	35.5	35.5	39.	32.	24.5	4.95	**	**	**	**
00400 PH (STANDARD UNITS)	10/19/56-05/09/72	2	6.05	6.05	6.1	6.	0.005	0.071	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	2	6.047	6.047	6.1	6.	0.005	0.071	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	2	0.897	0.897	1.	0.794	0.021	0.145	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	2	4.5	4.5	6.	3.	4.5	2.121	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	2	6.	6.	6.	6.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	2	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	2	2.1	2.1	2.2	2.	0.02	0.141	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	2	1.45	1.45	1.5	1.4	0.005	0.071	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	2	0.95	0.95	1.2	0.7	0.125	0.354	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	2	2.	2.	2.	2.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	2	4.5	4.5	5.	4.	0.5	0.707	**	**	**	**

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

Annual Analysis for 1970 - Station GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00955 SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	2	6.6	6.6	6.7	6.5	0.02	0.141	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	2	29.5	29.5	34.	25.	40.5	6.364	**	**	**	**

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

Annual Analysis for 1971 - Station GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	5	1310.	1564.	2530.	1070.	331680.	575.917	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	5	8.	10.4	20.	6.	34.8	5.899	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	5	33.	37.6	51.	30.	72.8	8.532	**	**	**	**
00400 PH (STANDARD UNITS)	10/19/56-05/09/72	5	5.	5.06	6.	4.6	0.308	0.555	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	5	5.	4.879	6.	4.6	0.349	0.591	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	5	10.	13.214	25.119	1.	89.244	9.447	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	5	3.	4.8	10.	1.	15.7	3.962	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	5	7.	7.2	9.	6.	1.7	1.304	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	5	4.	3.4	8.	0.	9.8	3.13	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	5	2.1	2.22	2.6	1.8	0.132	0.363	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	5	0.5	0.5	0.6	0.4	0.005	0.071	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	5	1.2	1.36	1.8	1.	0.108	0.329	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	5	0.8	0.84	1.1	0.7	0.028	0.167	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	5	1.	1.4	2.	1.	0.3	0.548	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	5	5.	4.6	5.	4.	0.3	0.548	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	5	6.7	6.94	7.6	6.4	0.243	0.493	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	10/19/56-11/08/71	3	170.	173.333	180.	170.	33.333	5.774	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	5	28.	28.6	40.	21.	56.3	7.503	**	**	**	**

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

Annual Analysis for 1972 - Station GRSM0010

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY CFS	10/18/57-10/02/72	5	1620.	1461.6	2150.	808.	349022.8	590.782	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	10/19/56-05/09/72	3	7.	7.333	10.	5.	6.333	2.517	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/56-05/09/72	3	31.	29.333	35.	22.	44.333	6.658	**	**	**	**
00400 PH (STANDARD UNITS)	10/19/56-05/09/72	3	5.7	5.567	6.	5.	0.263	0.513	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/19/56-05/09/72	3	5.7	5.363	6.	5.	0.325	0.57	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/56-05/09/72	3	1.995	4.332	10.	1.	24.344	4.934	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/19/56-05/09/72	3	3.	4.333	7.	3.	5.333	2.309	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/19/56-05/09/72	3	6.	6.333	7.	6.	0.333	0.577	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/19/56-05/09/72	3	4.	3.	5.	0.	7.	2.646	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/19/56-05/09/72	3	2.	1.933	2.	1.8	0.013	0.115	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/56-05/09/72	3	0.5	0.467	0.5	0.4	0.003	0.058	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/19/56-05/09/72	3	1.2	1.367	1.9	1.	0.223	0.473	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/19/56-05/09/72	3	0.5	0.567	0.7	0.5	0.013	0.115	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/19/56-05/09/72	3	2.	1.667	2.	1.	0.333	0.577	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/19/56-05/09/72	3	3.	3.	3.	3.	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	10/19/56-05/09/72	3	6.5	6.367	6.8	5.8	0.263	0.513	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/19/56-05/09/72	3	26.	26.333	30.	23.	12.333	3.512	**	**	**	**

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

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY	CFS	10/18/57-10/02/72	36	1410.	1726.083	5610.	527.	1326189.221	1151.603	691.4	907.	2112.5	3047.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/19/56-01/04/82	21	5850.	6991.619	19100.	524.	28970175.048	5382.395	1356.	1895.	10750.	15900.
00080 COLOR (PLATINUM-COBALT UNITS)		10/19/56-05/09/72	36	30.	43.889	240.	1.	2217.416	47.089	5.7	10.5	58.75	103.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/19/56-05/09/72	36	38.	51.139	160.	21.	1014.009	31.844	24.	31.	68.	95.8
00400 PH (STANDARD UNITS)		10/19/56-05/09/72	36	6.2	6.15	7.2	4.7	0.265	0.515	5.35	6.	6.375	6.8
00400 CONVERTED PH (STANDARD UNITS)		10/19/56-05/09/72	36	6.2	5.751	7.2	4.7	0.429	0.655	5.35	6.	6.375	6.8
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/19/56-05/09/72	36	0.631	1.772	19.953	0.063	14.646	3.827	0.158	0.424	1.	5.214
00440 BICARBONATE ION (MG/L AS HCO3)		10/19/56-05/09/72	36	12.	13.806	43.	2.	76.733	8.76	3.	9.	16.75	25.
00900 HARDNESS, TOTAL (MG/L AS CACO3)		10/19/56-05/09/72	36	6.	6.472	10.	5.	1.113	1.055	5.	6.	7.	8.
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		10/19/56-05/09/72	36	0.	0.611	5.	0.	2.187	1.479	0.	0.	0.	4.
00915 CALCIUM, DISSOLVED (MG/L AS CA)		10/19/56-05/09/72	36	1.8	1.836	2.5	1.	0.125	0.353	1.3	1.6	2.075	2.36
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		10/19/56-05/09/72	36	0.5	0.486	1.	0.2	0.04	0.199	0.27	0.325	0.6	0.83
00930 SODIUM, DISSOLVED (MG/L AS NA)		10/19/56-05/09/72	36	4.75	6.972	29.	1.	45.399	6.738	1.2	1.625	10.	15.2
00935 POTASSIUM, DISSOLVED (MG/L AS K)		10/19/56-05/09/72	36	0.8	0.819	1.3	0.2	0.075	0.274	0.5	0.6	1.	1.23
00940 CHLORIDE,TOTAL IN WATER	MG/L	10/19/56-05/09/72	36	2.	1.564	3.	0.4	0.48	0.693	0.5	1.	2.	2.
00945 SULFATE, TOTAL (MG/L AS SO4)		10/19/56-05/09/72	36	7.	9.286	34.	0.5	68.616	8.283	1.7	3.25	12.	22.4
00950 FLUORIDE, DISSOLVED (MG/L AS F)		10/19/56-09/24/63	30	0.1	0.08	0.2	0.	0.006	0.076	0.	0.	0.1	0.2
00955 SILICA, DISSOLVED (MG/L AS SIO2)		10/19/56-05/09/72	36	7.45	7.494	9.5	5.2	0.852	0.923	6.47	6.825	7.9	8.9
01045 IRON, TOTAL (UG/L AS FE)		10/19/56-11/08/71	26	40.	73.846	760.	0.	21096.615	145.247	10.	20.	55.	149.
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		10/19/56-05/09/72	36	34.5	44.361	137.	19.	712.523	26.693	21.8	26.5	51.75	83.3

** - 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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0010

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY	CFS	10/18/57-10/02/72	34	1195.	1280.294	2880.	500.	316069.123	562.2	685.5	871.	1622.5	2135.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/19/56-01/04/82	11	1310.	1754.364	3820.	620.	1142913.455	1069.071	623.6	1000.	2620.	3700.
00080 COLOR (PLATINUM-COBALT UNITS)		10/19/56-05/09/72	34	30.	44.559	180.	5.	1858.072	43.105	5.	9.5	70.	110.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		10/19/56-05/09/72	34	47.5	53.794	130.	19.	774.047	27.822	22.5	33.	71.25	105.
00400 PH (STANDARD UNITS)		10/19/56-05/09/72	34	6.2	6.2	6.9	4.6	0.219	0.468	5.75	6.075	6.425	6.8
00400 CONVERTED PH (STANDARD UNITS)		10/19/56-05/09/72	34	6.2	5.787	6.9	4.6	0.395	0.628	5.75	6.075	6.425	6.8
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/19/56-05/09/72	34	0.631	1.635	25.119	0.126	19.951	4.467	0.158	0.378	0.846	1.79
00440 BICARBONATE ION (MG/L AS HCO3)		10/19/56-05/09/72	34	15.	16.088	34.	1.	54.386	7.375	8.	10.75	20.	27.
00900 HARDNESS, TOTAL (MG/L AS CACO3)		10/19/56-05/09/72	34	7.	7.029	10.	5.	1.363	1.167	6.	6.	8.	8.5
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		10/19/56-05/09/72	34	0.	0.265	8.	0.	1.898	1.377	0.	0.	0.	0.
00915 CALCIUM, DISSOLVED (MG/L AS CA)		10/19/56-05/09/72	34	2.	2.041	2.8	1.3	0.167	0.408	1.6	1.7	2.3	2.6
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		10/19/56-05/09/72	34	0.5	0.459	0.7	0.2	0.023	0.152	0.2	0.3	0.6	0.7
00930 SODIUM, DISSOLVED (MG/L AS NA)		10/19/56-05/09/72	34	6.45	7.712	24.	1.2	38.097	6.172	1.3	1.975	11.25	18.5
00935 POTASSIUM, DISSOLVED (MG/L AS K)		10/19/56-05/09/72	34	0.95	0.997	2.3	0.4	0.154	0.393	0.55	0.7	1.3	1.45
00940 CHLORIDE,TOTAL IN WATER	MG/L	10/19/56-05/09/72	34	1.	1.309	3.	0.4	0.434	0.659	0.5	0.875	2.	2.
00945 SULFATE, TOTAL (MG/L AS SO4)		10/19/56-05/09/72	34	8.	9.056	32.	0.9	54.409	7.376	1.5	3.	11.25	20.
00950 FLUORIDE, DISSOLVED (MG/L AS F)		10/19/56-09/24/63	30	0.1	0.083	0.3	0.	0.009	0.095	0.	0.	0.125	0.2
00955 SILICA, DISSOLVED (MG/L AS SIO2)		10/19/56-05/09/72	34	7.85	7.879	9.7	5.8	0.617	0.785	7.05	7.3	8.35	9.
01045 IRON, TOTAL (UG/L AS FE)		10/19/56-11/08/71	26	30.	42.692	180.	0.	2148.462	46.351	0.	10.	60.	114.
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		10/19/56-05/09/72	34	41.	48.912	122.	19.	720.265	26.838	20.5	26.	61.5	93.5

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

Station Inventory for Station: GRSM0011

NPS Station ID: GRSM0011 LAT/LON: 35.429170/ -83.475003 Agency: 21NC01WQ Date Created: / /
Location: TUCKASEGEE R NEAR BRYSON CITY NC INACT-770713
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): G9200000 /LTN031
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010203008 RF1 Mile Point: 3.220 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203000900.00 RF3 Mile Point: 0.00 Distance from RF3: 0.07 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/29/68-07/13/77	14	19.5	18.357	29.	5.	52.093	7.218	6.	14.	23.5	27.5
00023 SAMPLE WEIGHT IN POUNDS		07/29/68-12/10/74	13	19.	17.538	26.	5.	46.269	6.802	5.8	12.	22.5	25.6
00060 FLOW, STREAM, MEAN DAILY	CFS	07/29/68-08/24/71	10	712.5	981.1	2000.	575.	226321.656	475.733	580.9	647.5	1302.5	1952.
00065 STAGE, STREAM (FEET)		07/29/68-12/10/74	13	1.99	2.119	3.11	1.17	0.242	0.491	1.422	1.835	2.46	2.93
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		07/29/68-07/13/77	10##	5.	5.82	13.	4.2	6.546	2.559	4.28	5.	5.25	12.3
00078 TRANSPARENCY, SECCHI DISC (METERS)		07/13/77-07/13/77	1	1.65	1.65	1.65	1.65	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		09/12/74-07/13/77	3	52.	52.	84.	20.	1024.	32.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/29/68-07/13/77	14	8.35	8.579	12.	6.4	2.442	1.563	6.75	7.25	9.625	11.25
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	07/29/68-12/10/74	13	86.	82.923	115.	20.	483.41	21.987	39.2	80.	91.	109.4
00308 BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C	MG/L	09/12/74-11/14/74	2	68.	68.	84.	52.	512.	22.627	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C	MG/L	07/29/68-07/28/71	7	2.1	3.914	12.	1.8	13.521	3.677	**	**	**	**
00400 PH (STANDARD UNITS)		07/29/68-07/13/77	14	7.	7.064	8.8	6.5	0.324	0.569	6.5	6.7	7.225	8.1
00400 CONVERTED PH (STANDARD UNITS)		07/29/68-07/13/77	14	7.	6.879	8.8	6.5	0.361	0.601	6.5	6.7	7.225	8.1
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/68-07/13/77	14	0.1	0.132	0.316	0.002	0.009	0.096	0.021	0.06	0.2	0.316
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		07/29/68-07/13/77	14	14.	13.214	18.	7.	13.412	3.662	7.5	10.	16.5	18.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		07/29/68-07/13/77	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500 RESIDUE, TOTAL (MG/L)		05/14/69-07/28/71	5	51.	42.	57.	12.	346.5	18.615	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		06/25/73-12/10/74	4	1.	0.75	1.	0.	0.25	0.5	**	**	**	**
00520 RESIDUE, VOLATILE FILTRABLE (MG/L)		12/08/70-12/08/70	1##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00525 RESIDUE, FIXED FILTRABLE (MG/L)		07/29/68-12/10/74	13	2.	2.077	3.	1.	0.244	0.494	1.4	2.	2.	3.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		07/29/68-07/28/71	5	19.	23.2	50.	10.	241.7	15.547	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)		06/25/73-12/10/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)		07/29/68-12/10/74	13	8.4	8.6	12.	6.4	2.638	1.624	6.68	7.2	9.85	11.4
00665 PHOSPHORUS, TOTAL (MG/L AS P)		07/29/68-07/28/71	8##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00740 SULFITE (MG/L AS SO3)		06/25/73-12/10/74	4	1.5	1.25	2.	0.	0.917	0.957	**	**	**	**
00745 SULFIDE, TOTAL (MG/L AS S)		07/29/68-07/28/71	8##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)		07/29/68-12/08/70	6	663.5	660.167	729.	575.	2849.367	53.379	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		07/29/68-07/28/71	8##	5.	6.	13.	5.	8.	2.828	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)		06/25/73-12/10/74	3	225.	225.	270.	180.	2025.	45.	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)		06/25/73-12/10/74	4	0.	0.075	0.3	0.	0.023	0.15	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)		06/25/73-12/10/74	4	2.	2.25	3.	2.	0.25	0.5	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)		12/10/74-12/10/74	1	1100.	1100.	1100.	1100.	0.	0.	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)		07/29/68-07/28/71	7	2.	3.857	12.	2.	13.476	3.671	**	**	**	**
01132 LITHIUM, TOTAL (UG/L AS LI)		06/25/73-12/10/74	4	62.5	62.5	100.	25.	1041.667	32.275	**	**	**	**
31508 COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.		07/29/68-12/10/74	13	7.	7.154	9.	7.	0.308	0.555	7.	7.	7.	8.2
31508 LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.		07/29/68-12/10/74	13	0.845	0.853	0.954	0.845	0.001	0.03	0.845	0.845	0.845	0.911
31508 GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.				GEOMETRIC MEAN =	7.137								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		12/10/74-07/13/77	2##	552.5	552.5	1100.	5.	599512.5	774.282	**	**	**	**

** - Less than 9 observations ## - 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: GRSM0011

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		12/10/74-07/13/77	2##	1.87	1.87	3.041	0.699	2.743	1.656	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =		74.162								
32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.		06/25/73-12/10/74	2	1.5	1.5	3.	0.	4.5	2.121	**	**	**	**
32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.		07/29/68-12/10/74	13	86.	82.923	115.	20.	483.41	21.987	39.2	80.	91.	109.4
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		04/28/71-12/10/74	6	50.	49.667	95.	20.	642.667	25.351	**	**	**	**
71900	MERCURY, TOTAL (UG/L AS HG)		12/08/70-12/08/70	1##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
85001	BOD, 5 DAY	LBS/DAY	07/29/68-12/08/70	5	14200.	17210.	37300.	7650.	136865500.	11698.953	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0011

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	10	0	0.00	3	0	0.00	7	0	0.00						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	14	0	0.00	5	0	0.00	9	0	0.00						
00400	PH	Other-Hi Lim.	9.	14	0	0.00	5	0	0.00	9	0	0.00						
		Other-Lo Lim.	6.5	14	2	0.14	5	1	0.20	9	1	0.11						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	8	0	0.00	2	0	0.00	6	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	3	0	0.00	1	0	0.00	2	0	0.00						
		Drinking Water	50.	3	3	1.00	1	1	1.00	2	2	1.00						
01030	CHROMIUM, DISSOLVED	Drinking Water	100.	4	0	0.00	2	0	0.00	2	0	0.00						
01040	COPPER, DISSOLVED	Fresh Acute	18.	4	0	0.00	2	0	0.00	2	0	0.00						
		Drinking Water	1300.	4	0	0.00	2	0	0.00	2	0	0.00						
01075	SILVER, DISSOLVED	Fresh Acute	4.1	1	1	1.00	1	1	1.00									
		Drinking Water	50.	1	1	1.00	1	1	1.00									
01090	ZINC, DISSOLVED	Fresh Acute	120.	7	0	0.00	2	0	0.00	5	0	0.00						
31508	COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	13	0	0.00	5	0	0.00	8	0	0.00						
31616	FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	1	0.50	1	1	1.00	1	0	0.00						
71900	MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
		Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/29/68-07/13/77	5	8.	12.4	23.	5.	64.8	8.05	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/29/68-07/13/77	5	10.3	9.7	12.	6.4	4.335	2.082	**	**	**	**
00400 PH (STANDARD UNITS)		07/29/68-07/13/77	5	7.	6.98	7.4	6.5	0.107	0.327	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/29/68-07/13/77	5	7.	6.879	7.4	6.5	0.12	0.346	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/68-07/13/77	5	0.1	0.132	0.316	0.04	0.012	0.108	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		07/29/68-07/13/77	5	12.	12.4	18.	8.	14.8	3.847	**	**	**	**

** - Less than 9 observations ## - Computed 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: 4/01 to 9/30 - Station GRSM0011

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/29/68-07/13/77	9	20.	21.667	29.	16.	17.75	4.213	16.	18.5	25.5	29.
00300 OXYGEN, DISSOLVED	MG/L	07/29/68-07/13/77	9	8.	7.956	9.4	7.1	0.578	0.76	7.1	7.2	8.4	9.4
00400 PH (STANDARD UNITS)		07/29/68-07/13/77	9	7.	7.111	8.8	6.5	0.466	0.683	6.5	6.7	7.25	8.8
00400 CONVERTED PH (STANDARD UNITS)		07/29/68-07/13/77	9	7.	6.879	8.8	6.5	0.527	0.726	6.5	6.7	7.25	8.8
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/68-07/13/77	9	0.1	0.132	0.316	0.002	0.009	0.096	0.002	0.057	0.2	0.316
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		07/29/68-07/13/77	9	14.	13.667	18.	7.	13.75	3.708	7.	10.5	17.	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

Station Inventory for Station: GRSM0012

NPS Station ID: GRSM0012 LAT/LON: 35.432781/ -83.615837 Agency: 131TVAC Date Created: / /
Location: FONTANA RESERVOIR FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): 360240 /3956
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 074.00
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 74.0 ECO Region:
RF1 Index: 06010202011 RF1 Mile Point: 9.540 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010204002013.24 RF3 Mile Point: 13.24 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0012

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900 MERCURY, TOTAL (UG/L AS HG)	08/05/70-08/05/70	1##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71921 MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/05/70-08/05/70	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0012

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
	Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0013

NPS Station ID: GRSM0013 LAT/LON: 35.434726/ -83.591670 Agency: 21NC01WQ Date Created: 02/24/76
Location: FONTANA LAKE BELOW TUCKASEGEE R
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9220000 /LTN031B
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010202003 RF1 Mile Point: 36.910 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010204003200.41 RF3 Mile Point: 0.41 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0013

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	100	24.5	22.34	30.	9.5	31.031	5.571	12.53	18.5	27.	27.99
00023 SAMPLE WEIGHT IN POUNDS	07/16/74-07/31/75	6	27.	26.833	28.	25.	1.367	1.169	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	7	2.3	4.1	17.	0.5	33.06	5.75	**	**	**	**
00077 TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	2	153.	153.	180.	126.	1458.	38.184	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	21	2.5	4.907	50.	1.5	107.349	10.361	1.74	2.	3.575	4.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	78	19.	19.128	32.	2.	57.542	7.586	7.	15.75	24.	32.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	19	25.	25.632	35.	19.	26.135	5.112	19.	21.	30.	34.
00204 DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	08/05/87-08/05/87	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	101	7.6	7.066	10.8	0.5	2.722	1.65	4.6	6.2	8.2	8.5
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	8	101.5	99.875	112.	81.	78.696	8.871	**	**	**	**
00308 BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/31/75	5	31.	29.6	34.	22.	20.3	4.506	**	**	**	**
00340 COD, .25N K2CR2O7 MG/L	06/17/80-06/17/80	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/09/75-08/29/94	99	7.2	7.118	9.1	5.4	1.163	1.078	5.6	6.1	8.2	8.4
00400 CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	99	7.2	6.176	9.1	5.4	2.059	1.435	5.6	6.1	8.2	8.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	99	0.063	0.667	3.981	0.001	1.295	1.138	0.004	0.006	0.794	2.512
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	07/09/75-07/31/79	20	7.	7.1	10.	2.	3.463	1.861	6.	6.	8.	10.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/09/75-07/31/79	17	0.	0.441	2.	0.	0.496	0.705	0.	0.	1.	2.
00500 RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	5	33.	30.4	36.	21.	44.3	6.656	**	**	**	**
00505 RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	18.	18.	22.	14.	32.	5.657	**	**	**	**
00510 RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	10.5	10.5	14.	7.	24.5	4.95	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/09/75-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00520 RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	2##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	5	1.	1.2	2.	0.5	0.575	0.758	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00540 RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	07/09/75-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	13##	0.025	0.029	0.09	0.005	0.	0.02	0.007	0.025	0.028	0.07
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	13	0.2	0.215	0.6	0.1	0.026	0.163	0.1	0.1	0.25	0.56
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	13##	0.025	0.038	0.2	0.005	0.003	0.051	0.007	0.018	0.025	0.148
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/31/75	6	8.2	8.333	9.1	7.9	0.183	0.427	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	13##	0.025	0.02	0.025	0.005	0.	0.008	0.007	0.01	0.025	0.025
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	2##	0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	2##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00740 SULFITE (MG/L AS SO3)	07/09/75-07/29/75	2	2.	2.	2.	2.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/30/75	5	180.	154.	270.	60.	8480.	92.087	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	07/07/77-08/04/82	9##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01027 CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	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: GRSM0013

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/31/75	6	0.	0.003	0.02	0.	0.	0.008	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037 COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	10##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01040 COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/31/75	6	1.	0.833	1.	0.5	0.067	0.258	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	11##	20.	41.818	140.	20.	1956.364	44.231	20.	20.	40.	136.
01045 IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	10##	50.	58.	100.	50.	306.667	17.512	50.	50.	57.5	98.
01051 LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	11##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01055 MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01067 NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/30/75	7##	5.	463.571	3200.	5.	1456039.286	1206.665	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	11##	25.	40.909	100.	25.	829.091	28.794	25.	25.	60.	98.
01132 LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/31/75	6	40.	43.333	100.	10.	986.667	31.411	**	**	**	**
31508 COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/09/75-07/31/75	5	7.	7.4	8.	7.	0.3	0.548	**	**	**	**
31508 LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/09/75-07/31/75	5	0.845	0.868	0.903	0.845	0.001	0.032	**	**	**	**
31508 GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.			GEOMETRIC MEAN =	7.384								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	26##	5.	418.981	7600.	0.5	2537462.39	1592.941	0.5	0.5	5.	974.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	26##	0.699	0.637	3.881	-0.301	1.025	1.012	-0.301	-0.301	0.699	1.962
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	4.334								
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	4	4.	3.75	5.	2.	1.583	1.258	**	**	**	**
32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/05/77-06/17/80	4##	8.5	10.25	19.	5.	44.917	6.702	**	**	**	**
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/09/75-06/17/80	6	5.	6.833	21.	0.	62.167	7.885	**	**	**	**
32213 PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	4##	0.75	0.75	1.	0.5	0.083	0.289	**	**	**	**
32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	4	4.5	4.	5.	2.	2.	1.414	**	**	**	**
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-06/17/80	10	98.	64.5	112.	5.	2470.056	49.7	5.	5.	103.25	111.2
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	7##	2.5	5.643	17.	2.5	32.893	5.735	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/31/75	8	50.	43.625	50.	33.	77.411	8.798	**	**	**	**
70305 SALINITY BASED ON CONDUCTIVITY	07/16/74-07/19/78	3	0.	0.167	0.5	0.	0.083	0.289	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	9##	0.025	0.019	0.025	0.005	0.	0.008	0.005	0.01	0.025	0.025
71900 MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	11##	0.25	0.236	0.25	0.1	0.002	0.045	0.13	0.25	0.25	0.25

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EPA Water Quality Criteria Analysis for Station: GRSM0013

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	7	0	0.00				7	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	101	4	0.04				101	4	0.04						
00400 PH	Other-Hi Lim.	9.	99	2	0.02				99	2	0.02						
	Other-Lo Lim.	6.5	99	32	0.32				99	32	0.32						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00				13	0	0.00						
00720 CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00				2	0	0.00						
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	5	0	0.00				5	0	0.00						
	Drinking Water	50.	5	5	1.00				5	5	1.00						
01002 ARSENIC, TOTAL	Fresh Acute	360.	9	0	0.00				9	0	0.00						
	Drinking Water	50.	9	0	0.00				9	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0&	0	0.00												
	Drinking Water	5.	0&	0	0.00												
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	6	0	0.00				6	0	0.00						
01034 CHROMIUM, TOTAL	Drinking Water	100.	10	0	0.00				10	0	0.00						
01040 COPPER, DISSOLVED	Fresh Acute	18.	6	0	0.00				6	0	0.00						
	Drinking Water	1300.	6	0	0.00				6	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	3&	3	1.00				3	3	1.00						
	Drinking Water	1300.	11	0	0.00				11	0	0.00						
01051 LEAD, TOTAL	Fresh Acute	82.	11	0	0.00				11	0	0.00						
	Drinking Water	5.	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						
01075 SILVER, DISSOLVED	Fresh Acute	4.1	2&	2	1.00				2	2	1.00						
	Drinking Water	50.	7	1	0.14				7	1	0.14						

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

EPA Water Quality Criteria Analysis for Station: GRSM0013

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01092 ZINC, TOTAL	Fresh Acute	120.	11	0	0.00				11	0	0.00						
31508 COLIFORM, TOTAL, MPN, COMP, TEST, TUBE C	Other-Hi Lim.	1000.	5	0	0.00				5	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	26	2	0.08				26	2	0.08						
71900 MERCURY, TOTAL	Fresh Acute	2.4	11	0	0.00				11	0	0.00						
	Drinking Water	2.	11	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

Annual Analysis for 1974 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**

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

Annual Analysis for 1975 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	5	27.	27.2	28.	26.	0.7	0.837	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	5	8.3	8.38	9.1	7.9	0.212	0.46	**	**	**	**
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	5	7.3	7.32	7.6	6.9	0.072	0.268	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	5	7.3	7.247	7.6	6.9	0.079	0.28	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	5	0.05	0.057	0.126	0.025	0.002	0.04	**	**	**	**

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

Annual Analysis for 1977 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	6	28.	24.25	30.	9.5	62.375	7.898	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	6	8.1	8.483	10.8	7.3	1.49	1.221	**	**	**	**
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	5	7.9	7.86	8.4	7.2	0.203	0.451	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	5	7.9	7.667	8.4	7.2	0.249	0.499	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	5	0.013	0.022	0.063	0.004	0.001	0.024	**	**	**	**

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

Annual Analysis for 1978 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	5	27.	27.2	28.	27.	0.2	0.447	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	5	8.3	8.08	8.5	7.4	0.217	0.466	**	**	**	**
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	5	8.9	8.88	9.1	8.5	0.062	0.249	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	5	8.9	8.818	9.1	8.5	0.067	0.258	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	5	0.001	0.002	0.003	0.001	0.	0.001	**	**	**	**

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

Annual Analysis for 1979 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	4	24.5	25.	27.	24.	2.	1.414	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	5	8.7	8.6	8.8	8.2	0.065	0.255	**	**	**	**
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	5	7.6	7.4	8.6	6.	0.88	0.938	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	5	7.6	6.651	8.6	6.	1.581	1.257	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	5	0.025	0.223	1.	0.003	0.189	0.435	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	1	0.006	0.006	0.006	0.006	0.	0.	**	**	**	**

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

Annual Analysis for 1981 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	19	24.6	22.221	27.7	10.3	34.052	5.835	12.5	17.2	27.2	27.7
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	19	31.	27.579	32.	16.	32.146	5.67	17.	23.	32.	32.
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	19	6.5	6.442	8.3	0.5	3.793	1.947	4.6	5.3	8.2	8.3
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	19	6.1	6.826	8.4	5.6	1.475	1.215	5.7	5.8	8.3	8.4
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	19	6.1	6.059	8.4	5.6	2.096	1.448	5.7	5.8	8.3	8.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	19	0.794	0.872	2.512	0.004	0.719	0.848	0.004	0.005	1.585	1.995

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

Annual Analysis for 1982 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	19	23.8	21.105	26.3	11.5	28.741	5.361	12.2	15.8	25.7	26.3
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	19	21.	19.632	25.	12.	18.357	4.284	12.	17.	24.	24.
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	19	6.2	6.153	8.2	3.5	2.555	1.598	4.2	4.6	8.	8.1
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	19	6.8	7.232	8.5	6.5	0.637	0.798	6.5	6.6	8.2	8.5
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	19	6.8	6.844	8.5	6.5	0.795	0.892	6.5	6.6	8.2	8.5
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	19	0.158	0.143	0.316	0.003	0.014	0.118	0.003	0.006	0.251	0.316

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

Annual Analysis for 1987 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	22	21.55	20.077	28.2	10.1	49.07	7.005	10.36	12.675	27.625	28.07
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	22	13.	11.091	18.	2.	32.848	5.731	3.	5.5	16.25	17.7
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	22	7.3	6.736	8.9	2.	3.213	1.792	3.17	5.975	8.025	8.2
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	22	5.65	6.209	7.7	5.4	0.938	0.969	5.4	5.475	7.5	7.67
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	22	5.647	5.702	7.7	5.4	1.208	1.099	5.4	5.475	7.5	7.67
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	22	2.254	1.988	3.981	0.02	2.599	1.612	0.022	0.032	3.367	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 1994 - Station GRSM0013

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	18	22.1	22.311	25.8	17.3	8.67	2.945	18.29	19.65	25.725	25.8
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	18	19.	19.5	24.	17.	2.735	1.654	17.9	18.75	20.25	22.2
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	18	7.6	7.389	8.4	6.2	0.676	0.822	6.29	6.475	8.1	8.31
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	18	7.5	7.528	8.4	6.5	0.484	0.696	6.59	6.85	8.3	8.31

** - 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 1994 - Station GRSM0013

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400 CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	18	7.489	7.097	8.4	6.5	0.681	0.825	6.59	6.85	8.3	8.31
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	18	0.032	0.08	0.316	0.004	0.01	0.098	0.005	0.005	0.144	0.258

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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0013

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	100	24.5	22.34	30.	9.5	31.031	5.571	12.53	18.5	27.	27.99
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	21	2.5	4.907	50.	1.5	107.349	10.361	1.74	2.	3.575	4.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	78	19.	19.128	32.	2.	57.542	7.586	7.	15.75	24.	32.
00300 OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	101	7.6	7.066	10.8	0.5	2.722	1.65	4.6	6.2	8.2	8.5
00400 PH (STANDARD UNITS)	07/09/75-08/29/94	99	7.2	7.118	9.1	5.4	1.163	1.078	5.6	6.1	8.2	8.4
00400 CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	99	7.2	6.176	9.1	5.4	2.059	1.435	5.6	6.1	8.2	8.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	99	0.063	0.667	3.981	0.001	1.295	1.138	0.004	0.006	0.794	2.512
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	13##	0.025	0.029	0.09	0.005	0.	0.02	0.007	0.025	0.028	0.07
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	13	0.2	0.215	0.6	0.1	0.026	0.163	0.1	0.1	0.25	0.56
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	13##	0.025	0.038	0.2	0.005	0.003	0.051	0.007	0.018	0.025	0.148
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	13##	0.025	0.02	0.025	0.005	0.	0.008	0.007	0.01	0.025	0.025
01027 CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01034 CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037 COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	10##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01042 COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	11##	20.	41.818	140.	20.	1956.364	44.231	20.	20.	40.	136.
01045 IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	10##	50.	58.	100.	50.	306.667	17.512	50.	50.	57.5	98.
01051 LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	11##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01055 MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01092 ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	11##	25.	40.909	100.	25.	829.091	28.794	25.	25.	60.	98.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	26##	5.	418.981	7600.	0.5	2537462.39	1592.941	0.5	0.5	5.	974.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	26##	0.699	0.637	3.881	-0.301	1.025	1.012	-0.301	-0.301	0.699	1.962
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	4.334								
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	9##	0.025	0.019	0.025	0.005	0.	0.008	0.005	0.01	0.025	0.025
71900 MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	11##	0.25	0.236	0.25	0.1	0.002	0.045	0.13	0.25	0.25	0.25

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

Station Inventory for Station: GRSM0014

NPS Station ID: GRSM0014 LAT/LON: 35.434726/ -83.591670 Agency: 21NC01WQ Date Created: 07/11/87
Location: FONTANA LAKE BELOW TUCKASEGEE R
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9220010 /LTN031BSUR
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010202 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010204036800.00 RF3 Mile Point: 0.45 Distance from RF3: 0.06 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0014

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	08/05/87-08/05/87	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		08/05/87-08/05/87	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		08/05/87-08/05/87	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		08/05/87-08/05/87	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00435 ACIDITY, TOTAL (MG/L AS CACO3)		08/05/87-08/05/87	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)		08/05/87-08/05/87	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)		08/05/87-08/05/87	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)		08/05/87-08/05/87	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)		08/05/87-08/05/87	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	08/05/87-08/05/87	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		08/05/87-08/05/87	1##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)		08/05/87-08/05/87	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)		08/05/87-08/05/87	1##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)		08/05/87-08/05/87	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)		08/05/87-08/05/87	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)		08/05/87-08/05/87	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)		08/05/87-08/05/87	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)		08/05/87-08/05/87	1	50.	50.	50.	50.	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)		08/05/87-08/05/87	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0014

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0&	0	0.00												
	Drinking Water	5.	0&	0	0.00												
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00				1	0	0.00						
	Drinking Water	1300.	1	0	0.00				1	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRSM0014

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
	Drinking Water	5.	0&	0	0.00												
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
	Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0015

NPS Station ID: GRSM0015 LAT/LON: 35.434726/ -83.591670 Agency: 21NC01WQ Date Created: 07/11/87
Location: FONTANA LAKE BELOW TUCKASEEGEE R FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9220020 /LTN031BBOT
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010202 RF1 Mile Point: 0.000 Distance from RF1: 1.00 On/Off RF1:
RF3 Index: 06010202008100.00 RF3 Mile Point: 0.00 Distance from RF3: 0.12 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0015

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/05/87-08/29/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0015

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0 00						

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

Station Inventory for Station: GRSM0016

NPS Station ID: GRSM0016 LAT/LON: 35.434726/ -83.647227 Agency: 21NC01WQ Date Created: 02/24/76
Location: FONTANA LAKE ABOVE STECOAH CRK
Station Type: /TYPA/AMBNT/LAKE
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
STORET Station ID(s): G9240000 /LTN031D
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010202011 RF1 Mile Point: 6.940 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202008100.00 RF3 Mile Point: 0.00 Distance from RF3: 0.12 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0016

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	84	25.15	23.407	31.	9.4	24.897	4.99	15.65	21.	27.	28.2
00023 SAMPLE WEIGHT IN POUNDS	07/16/74-07/29/75	2	26.5	26.5	27.	26.	0.5	0.707	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/07/77-08/29/94	6	4.25	9.567	42.	0.5	256.119	16.004	**	**	**	**
00077 TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	2	139.5	139.5	177.	102.	2812.5	53.033	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	17	2.3	5.371	50.	1.6	132.832	11.525	1.92	2.1	3.05	13.6
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	67	20.	19.	30.	2.	60.121	7.754	5.6	16.	23.	30.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	15	22.	22.667	32.	11.	25.381	5.038	15.8	20.	25.	30.8
00204 DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	08/05/87-08/05/87	1	9.9	9.9	9.9	9.9	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	85	7.8	7.468	27.5	3.9	6.616	2.572	5.2	6.3	8.2	8.44
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	4	99.5	95.5	101.	82.	81.667	9.037	**	**	**	**
00308 BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/29/75	2	26.	26.	30.	22.	32.	5.657	**	**	**	**
00340 COD, .25N K2CR2O7 MG/L	06/17/80-06/17/80	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/29/75-08/29/94	83	7.2	7.148	8.9	5.4	0.914	0.956	5.7	6.3	8.	8.3
00400 CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	83	7.2	6.324	8.9	5.4	1.601	1.265	5.7	6.3	8.	8.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	83	0.063	0.474	3.981	0.001	0.741	0.861	0.005	0.01	0.501	1.995
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/75-07/31/79	15	7.	6.8	11.	6.	1.6	1.265	6.	6.	7.	8.6
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	15	0.	0.333	1.	0.	0.238	0.488	0.	0.	1.	1.
00500 RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	5	27.	26.8	36.	15.	74.7	8.643	**	**	**	**
00505 RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	15.5	15.5	17.	14.	4.5	2.121	**	**	**	**
00510 RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	9.	9.	17.	1.	128.	11.314	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00520 RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	2##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	5	1.	1.5	3.	0.5	1.	1.	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
00540 RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	13##	0.025	0.03	0.12	0.005	0.001	0.029	0.007	0.018	0.025	0.088
00611 NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	06/17/80-08/12/81	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	13	0.2	0.185	0.6	0.1	0.018	0.134	0.1	0.1	0.2	0.44
00627 NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	06/17/80-08/12/81	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	13##	0.025	0.035	0.2	0.005	0.003	0.05	0.007	0.02	0.025	0.13
00633 NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	06/17/80-08/12/81	1##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	2	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	13##	0.025	0.02	0.025	0.005	0.	0.009	0.005	0.01	0.025	0.025
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	2##	0.013	0.013	0.02	0.005	0.	0.011	**	**	**	**
00668 PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/17/80-08/12/81	1	170.	170.	170.	170.	0.	0.	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	2##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**

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Parameter Inventory for Station: GRSM0016

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00740 SULFITE (MG/L AS SO3)	07/29/75-07/29/75	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	2	165.	165.	270.	60.	22050.	148.492	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	07/07/77-08/04/82	9##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01027 CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037 COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	10##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01040 COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	2##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	11##	20.	27.273	100.	20.	581.818	24.121	20.	20.	20.	84.
01045 IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	10##	50.	58.	100.	50.	306.667	17.512	50.	50.	57.5	98.
01051 LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	11##	50.	54.545	100.	50.	227.273	15.076	50.	50.	50.	90.
01055 MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01067 NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	11##	25.	38.636	110.	25.	940.455	30.667	25.	25.	25.	106.
01132 LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	2	17.5	17.5	20.	15.	12.5	3.536	**	**	**	**
31508 COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
31508 LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	0.845	0.845	0.845	0.845	0.	0.	**	**	**	**
31508 GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.			GEOMETRIC MEAN =	7.								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	19##	5.	3.737	13.	0.5	8.649	2.941	0.5	1.	5.	5.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	19##	0.699	0.41	1.114	-0.301	0.191	0.437	-0.301	0.	0.699	0.699
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	2.571								
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	4	3.	2.75	4.	1.	1.583	1.258	**	**	**	**
32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/05/77-06/17/80	3	11.	10.667	16.	5.	30.333	5.508	**	**	**	**
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID, METH.	07/29/75-06/17/80	4##	5.	5.75	13.	0.	28.917	5.377	**	**	**	**
32213 PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	4##	1.25	1.25	2.	0.5	0.75	0.866	**	**	**	**
32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	4	4.	3.75	5.	2.	1.583	1.258	**	**	**	**
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID, METH.	07/16/74-06/17/80	5	10.	44.2	101.	5.	2645.7	51.436	**	**	**	**
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	7##	2.5	5.786	17.	2.5	34.488	5.873	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	2	50.	50.	50.	50.	0.	0.	**	**	**	**
70305 SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	2	0.3	0.3	0.6	0.	0.18	0.424	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	9##	0.025	0.019	0.025	0.005	0.	0.009	0.005	0.008	0.025	0.025
70511 PHOSPHORUS,ORTHO,IN BOTTOM DEPOS.(MG/KG-P DRY WT)	06/17/80-08/12/81	1##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	11##	0.25	0.355	1.2	0.1	0.093	0.305	0.13	0.25	0.25	1.08

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EPA Water Quality Criteria Analysis for Station: GRSM0016

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	6	0	0.00				6	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	85	1	0.01				85	1	0.01						
00400 PH	Other-Hi Lim.	9.	83	0	0.00				83	0	0.00						
	Other-Lo Lim.	6.5	83	24	0.29				83	24	0.29						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00				13	0	0.00						
00720 CYANIDE, TOTAL	Fresh Acute	0.022	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	2	1.00				2	2	1.00						
01002 ARSENIC, TOTAL	Fresh Acute	360.	9	0	0.00				9	0	0.00						
	Drinking Water	50.	9	0	0.00				9	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0&	0	0.00												
	Drinking Water	5.	0&	0	0.00												
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00				2	0	0.00						
01034 CHROMIUM, TOTAL	Drinking Water	100.	10	0	0.00				10	0	0.00						
01040 COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00				2	0	0.00						
	Drinking Water	1300.	2	0	0.00				2	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	1&	1	1.00				1	1	1.00						
	Drinking Water	1300.	11	0	0.00				11	0	0.00						
01051 LEAD, TOTAL	Fresh Acute	82.	11	1	0.09				11	1	0.09						
	Drinking Water	5.	1&	1	1.00				1	1	1.00						

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

EPA Water Quality Criteria Analysis for Station: GRSM0016

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01075 SILVER, DISSOLVED	Fresh Acute	4.1	0&	0	0.00												
	Drinking Water	50.	2	0	0.00				2	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	11	0	0.00				11	0	0.00						
31508 COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	1	0	0.00				1	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	19	0	0.00				19	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	11	0	0.00				11	0	0.00						
	Drinking Water	2.	11	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

Annual Analysis for 1974 - Station GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**

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

Annual Analysis for 1975 - Station GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	5	27.	23.6	31.	10.	71.8	8.473	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	5	8.	8.42	11.	7.4	2.232	1.494	**	**	**	**
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	4	7.3	7.275	7.4	7.1	0.016	0.126	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	4	7.3	7.261	7.4	7.1	0.016	0.127	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	4	0.05	0.055	0.079	0.04	0.	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 1978 - Station GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	5	28.	27.6	28.	27.	0.3	0.548	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	5	8.1	8.1	8.4	7.9	0.035	0.187	**	**	**	**
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	5	8.8	8.8	8.9	8.7	0.01	0.1	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	5	8.8	8.791	8.9	8.7	0.01	0.101	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	5	0.002	0.002	0.002	0.001	0.	0.	**	**	**	**

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

Annual Analysis for 1979 - Station GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	4	25.	25.	26.	24.	0.667	0.816	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	5	8.7	8.52	8.8	8.1	0.092	0.303	**	**	**	**
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	5	7.4	7.46	8.2	7.	0.198	0.445	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	5	7.4	7.326	8.2	7.	0.22	0.47	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	5	0.04	0.047	0.1	0.006	0.001	0.034	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	1	25.1	25.1	25.1	25.1	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	1	8.5	8.5	8.5	8.5	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	13	26.9	25.754	27.7	20.2	5.063	2.25	21.24	24.5	27.35	27.66
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	13	30.	29.154	30.	25.	2.141	1.463	26.2	28.5	30.	30.
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	13	8.	6.946	8.2	4.2	2.438	1.561	4.32	5.4	8.1	8.2
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	13	8.1	7.354	8.3	5.6	1.221	1.105	5.68	6.05	8.2	8.3
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	13	8.1	6.321	8.3	5.6	2.376	1.541	5.68	6.05	8.2	8.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	13	0.008	0.477	2.512	0.005	0.656	0.81	0.005	0.006	0.945	2.141

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

Annual Analysis for 1982 - Station GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	15	25.2	23.593	26.4	16.	11.949	3.457	16.9	21.2	26.3	26.4
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	15	22.	20.867	24.	14.	9.838	3.137	14.6	19.	23.	24.
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	15	6.2	6.74	8.3	4.8	1.875	1.369	5.04	5.4	8.3	8.3
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	15	6.4	7.	8.	6.2	0.729	0.854	6.2	6.2	8.	8.
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	15	6.4	6.514	8.	6.2	0.981	0.991	6.2	6.2	8.	8.
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	15	0.398	0.306	0.631	0.01	0.079	0.282	0.01	0.01	0.631	0.631

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	22	22.85	20.941	28.7	9.4	51.729	7.192	10.2	13.925	28.425	28.6
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	22	12.	10.636	18.	2.	37.195	6.099	2.	3.75	16.25	17.7
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	22	7.4	7.	9.1	3.9	1.808	1.344	4.37	6.325	7.825	8.56
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	22	6.2	6.336	7.5	5.4	0.545	0.738	5.53	5.675	7.025	7.34
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	22	6.155	5.911	7.5	5.4	0.735	0.857	5.53	5.675	7.025	7.34
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	22	0.699	1.228	3.981	0.032	1.561	1.249	0.047	0.095	2.124	2.967

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0016

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	17	22.5	22.512	26.1	18.	7.587	2.755	18.4	20.	25.55	26.1
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	17	20.	20.412	25.	18.	3.632	1.906	18.	19.	22.	23.4
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	17	6.7	8.194	27.5	5.2	25.834	5.083	5.28	6.5	8.1	12.14
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	17	7.5	7.553	8.3	6.7	0.333	0.577	6.78	7.05	8.2	8.3

** - 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 1994 - Station GRSM0016

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400 CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	17	7.5	7.247	8.3	6.7	0.432	0.657	6.78	7.05	8.2	8.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	17	0.032	0.057	0.2	0.005	0.004	0.062	0.005	0.006	0.09	0.167

** - Less than 9 observations ## - Computed 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: 4/01 to 9/30 - Station GRSM0016

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	84	25.15	23.407	31.	9.4	24.897	4.99	15.65	21.	27.	28.2
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	17	2.3	5.371	50.	1.6	132.832	11.525	1.92	2.1	3.05	13.6
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	67	20.	19.	30.	2.	60.121	7.754	5.6	16.	23.	30.
00300 OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	85	7.8	7.468	27.5	3.9	6.616	2.572	5.2	6.3	8.2	8.44
00400 PH (STANDARD UNITS)	07/29/75-08/29/94	83	7.2	7.148	8.9	5.4	0.914	0.956	5.7	6.3	8.	8.3
00400 CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	83	7.2	6.324	8.9	5.4	1.601	1.265	5.7	6.3	8.	8.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	83	0.063	0.474	3.981	0.001	0.741	0.861	0.005	0.01	0.501	1.995
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	13##	0.025	0.03	0.12	0.005	0.001	0.029	0.007	0.018	0.025	0.088
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	13	0.2	0.185	0.6	0.1	0.018	0.134	0.1	0.1	0.2	0.44
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	13##	0.025	0.035	0.2	0.005	0.003	0.05	0.007	0.02	0.025	0.13
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	13##	0.025	0.02	0.025	0.005	0.	0.009	0.005	0.01	0.025	0.025
01027 CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01034 CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037 COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	10##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01042 COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	11##	20.	27.273	100.	20.	581.818	24.121	20.	20.	20.	84.
01045 IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	10##	50.	58.	100.	50.	306.667	17.512	50.	50.	57.5	98.
01051 LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	11##	50.	54.545	100.	50.	227.273	15.076	50.	50.	50.	90.
01055 MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01092 ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	11##	25.	38.636	110.	25.	940.455	30.667	25.	25.	25.	106.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	19##	5.	3.737	13.	0.5	8.649	2.941	0.5	1.	5.	5.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	19##	0.699	0.41	1.114	-0.301	0.191	0.437	-0.301	0.	0.699	0.699
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	2.571								
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	9##	0.025	0.019	0.025	0.005	0.	0.009	0.005	0.008	0.025	0.025
71900 MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	11##	0.25	0.355	1.2	0.1	0.093	0.305	0.13	0.25	0.25	1.08

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

Station Inventory for Station: GRSM0017

NPS Station ID: GRSM0017 LAT/LON: 35.434726/ -83.647227 Agency: 21NC01WQ Date Created: 07/11/87
Location: FONTANA LAKE ABOVE STECOAH CRK
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9240010 /LTN031DSUR
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010202 RF1 Mile Point: 0.000 Distance from RF1: 1.00 On/Off RF1:
RF3 Index: 06010202008100.00 RF3 Mile Point: 0.00 Distance from RF3: 0.12 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0017

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	08/05/87-08/05/87	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		08/05/87-08/05/87	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		08/05/87-08/05/87	1	0.398	0.398	0.398	0.398	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		08/05/87-08/05/87	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00435 ACIDITY, TOTAL (MG/L AS CACO3)		08/05/87-08/05/87	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)		08/05/87-08/05/87	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)		08/05/87-08/05/87	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)		08/05/87-08/05/87	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)		08/05/87-08/05/87	1	0.63	0.63	0.63	0.63	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	08/05/87-08/05/87	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		08/05/87-08/05/87	1##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)		08/05/87-08/05/87	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)		08/05/87-08/05/87	1##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)		08/05/87-08/05/87	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)		08/05/87-08/05/87	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)		08/05/87-08/05/87	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)		08/05/87-08/05/87	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)		08/05/87-08/05/87	1	50.	50.	50.	50.	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)		08/05/87-08/05/87	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0017

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0&	0	0.00												
	Drinking Water	5.	0&	0	0.00												
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00				1	0	0.00						
	Drinking Water	1300.	1	0	0.00				1	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRSM0017

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
	Drinking Water	5.	0&	0	0.00												
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
	Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0018

NPS Station ID: GRSM0018 LAT/LON: 35.434726/ -83.647227 Agency: 21NC01WQ Date Created: 07/11/87
Location: FONTANA LAKE ABOVE STECOAH CRK
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9240020 /LTN031DBOT
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010202 RF1 Mile Point: 0.000 Distance from RF1: 0.30 On/Off RF1:
RF3 Index: 06010202007800.00 RF3 Mile Point: 0.00 Distance from RF3: 0.04 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0018

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	1	0.15	0.15	0.15	0.15	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/05/87-08/29/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0018

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0019

NPS Station ID: GRSM0019 LAT/LON: 35.435837/ -83.585560 Agency: 11EPALES Date Created: / /
Location: FONTANA LAKE
Station Type: /TYPA/AMBNT/LAKE FIPS State/County: 37173 NORTH CAROLINA/SWAIN
RMI-Indexes: STORET Station ID(s): 370403
RMI-Miles:
HUC: 06010202 Depth of Water: 240 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010202012 RF1 Mile Point: 0.100 Distance from RF1: 0.20 On/Off RF1: OFF
RF3 Index: 06010202000100.02 RF3 Mile Point: 0.02 Distance from RF3: 0.06 On/Off RF3:
Description:
EASTERN AREA, AT JUNCTION OF TUSKASEGEE AND LITTLE TENNESSEE RIVERS. NEAR LANDMARKER NO. 10, ABOUT 200 YDS. MILE 76 1/10 LITTLE TENNESSEE RIVER.
COMMENTS: ULE 14: ONE PER CENT LIGHT AT 17 FT: CHANNEL A OFFSET EQUALS 28.11, PLUS 2.75: WATER SLIGHTLY TURBID (NOT AS CLEAR AS OTHER SITES)

Parameter Inventory for Station: GRSM0019

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	27	18.9	19.067	27.4	10.5	21.311	4.616	11.36	16.4	21.8	26.66
00074 TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	27	88.	79.	96.	23.	437.154	20.908	35.4	80.	91.	96.
00077 TRANSPARENCY, SECCHI DISC (INCHES)	06/02/73-10/26/73	3	136.	128.667	180.	70.	3065.333	55.365	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	16	28.5	27.875	37.	20.	33.583	5.795	20.	22.25	32.5	36.3
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	10	48.	45.7	60.	25.	168.011	12.962	25.	36.25	56.5	59.8
00300 OXYGEN, DISSOLVED MG/L	06/02/73-10/26/73	24	5.6	5.808	9.6	1.6	5.376	2.319	2.5	4.	8.	8.85
00400 PH (STANDARD UNITS)	06/02/73-10/26/73	27	6.3	6.385	7.8	5.6	0.29	0.538	5.8	5.9	6.7	7.18
00400 CONVERTED PH (STANDARD UNITS)	06/02/73-10/26/73	27	6.3	6.152	7.8	5.6	0.346	0.588	5.8	5.9	6.7	7.18
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/02/73-10/26/73	27	0.501	0.705	2.512	0.016	0.408	0.639	0.07	0.2	1.259	1.585
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/02/73-10/26/73	21##	5.	7.	14.	5.	9.1	3.017	5.	5.	10.	11.8
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	21	0.21	0.36	1.72	0.04	0.186	0.432	0.06	0.07	0.365	1.17
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	20	0.35	0.485	1.9	0.1	0.263	0.513	0.1	0.1	0.6	1.46
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/02/73-10/26/73	21	0.36	0.412	0.83	0.12	0.051	0.226	0.136	0.24	0.605	0.76
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/02/73-10/26/73	20	0.01	0.015	0.053	0.006	0.	0.012	0.007	0.008	0.017	0.04
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	21	0.007	0.009	0.032	0.004	0.	0.007	0.005	0.005	0.009	0.022
32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	3	2.3	2.567	3.2	2.2	0.303	0.551	**	**	**	**
72025 DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	3	230.	216.667	240.	180.	1033.333	32.146	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0019

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	24	7	0.29	5	4	0.80	19	3	0.16						
00400 PH	Other-Hi Lim.	9.	27	0	0.00	6	0	0.00	21	0	0.00						
	Other-Lo Lim.	6.5	27	17	0.63	6	6	1.00	21	11	0.52						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	21	0	0.00	6	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

Station Inventory for Station: GRSM0020

NPS Station ID: GRSM0020 LAT/LON: 35.440837/ -83.566670 Agency: 131TVAC Date Created: 04/06/91
Location: FONTANA RESERVOIR - BELOW FORNEY CREEK FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 370162
RMI-Indexes: 1021500 007720 00920 8540 4030
RMI-Miles: 0953.80 0046.50 601.10 076.20 003.00
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: TUCKASEEGEE RIVER 3.0 ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 1.20 On/Off RF1:
RF3 Index: 06010202000100.86 RF3 Mile Point: 0.86 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0020

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/22/93-10/19/94	247	18.7	17.865	29.	7.3	30.247	5.5	10.5	13.	21.9	25.42
00019 SAMPLE WEIGHT IN GRAMS	11/17/93-11/17/93	10	537.	945.4	2774.	378.	611586.711	782.04	383.6	459.5	1404.5	2672.6
00039 SAMPLE LENGTH IN MILLIMETERS	11/17/93-11/17/93	10	391.5	417.4	567.	309.	8178.267	90.434	311.	347.	510.	565.2
00078 TRANSPARENCY, SECCHI DISC (METERS)	04/22/93-10/19/94	14	4.25	3.786	4.9	1.1	1.292	1.137	1.6	3.1	4.675	4.9
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/22/93-10/19/94	247	22.	22.834	38.	17.	9.667	3.109	19.	21.	24.	27.
00300 OXYGEN, DISSOLVED MG/L	04/22/93-10/19/94	247	7.4	7.351	11.1	0.1	5.31	2.304	4.7	6.6	8.8	10.12
00400 PH (STANDARD UNITS)	04/22/93-10/19/94	247	6.7	6.83	8.8	5.9	0.431	0.656	6.1	6.4	7.1	8.
00400 CONVERTED PH (STANDARD UNITS)	04/22/93-10/19/94	247	6.7	6.523	8.8	5.9	0.526	0.725	6.1	6.4	7.1	8.
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/22/93-10/19/94	247	0.2	0.3	1.259	0.002	0.087	0.295	0.01	0.079	0.398	0.794
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/22/93-08/18/94	4	0.105	0.118	0.2	0.06	0.004	0.062	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/22/93-08/18/94	5##	0.005	0.035	0.12	0.005	0.002	0.05	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	04/22/93-08/18/94	5	0.1	0.075	0.13	0.005	0.004	0.063	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/22/93-08/18/94	4	0.007	0.009	0.02	0.001	0.	0.008	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	04/22/93-08/18/94	4	0.004	0.004	0.005	0.001	0.	0.002	**	**	**	**
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	04/22/93-08/18/94	4	1.25	1.2	1.4	0.9	0.06	0.245	**	**	**	**
00745 SULFIDE, TOTAL (MG/L AS S)	08/18/94-08/18/94	3##	0.	0.	0.	0.	0.	0.	**	**	**	**
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)	08/16/93-08/16/93	1	2000.	2000.	2000.	2000.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	08/16/93-08/16/93	1	8700.	8700.	8700.	8700.	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	1	4.	4.	4.	4.	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	1	50.	50.	50.	50.	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	08/16/93-08/16/93	1	33.	33.	33.	33.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	08/16/93-08/16/93	1	24.	24.	24.	24.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	08/16/93-08/16/93	1	690.	690.	690.	690.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	08/16/93-08/16/93	1	41.	41.	41.	41.	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	08/16/93-08/16/93	1	1600.	1600.	1600.	1600.	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	08/16/93-08/16/93	1	39000.	39000.	39000.	39000.	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	08/16/93-08/16/93	1	46000.	46000.	46000.	46000.	0.	0.	**	**	**	**
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID, METH.	04/22/93-10/19/94	14	2.5	2.714	5.	1.	1.143	1.069	1.5	2.	3.25	4.5
32212 CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	14##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
32214 CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	04/22/93-10/19/94	14##	0.5	0.643	1.	0.5	0.055	0.234	0.5	0.5	1.	1.
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID, METH.	04/22/93-10/19/94	14##	0.5	0.643	1.	0.5	0.055	0.234	0.5	0.5	1.	1.
34257 B-BHC-BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
34262 DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
34354 ENDOSULFAN SULFATE DRY WGTBOTUG/KG	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
34359 ENDOSULFAN, BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
34364 ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
34369 ENDRIN ALDEHYDE DRY WGTBOTUG/KG	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39076 BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0020

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39301 P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39311 P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39321 P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39333 ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39343 GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39351 CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	1	14.	14.	14.	14.	0.	0.	**	**	**	**
39383 DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39393 ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39403 TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	1##	250.	250.	250.	250.	0.	0.	**	**	**	**
39413 HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39423 HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39481 METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/16/93-08/16/93	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
39491 PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	08/16/93-08/16/93	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39495 PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39499 PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39503 PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39507 PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39511 PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39514 PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	08/16/93-08/16/93	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
70318 SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/16/93-08/16/93	1	39.2	39.2	39.2	39.2	0.	0.	**	**	**	**
70322 SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/16/93-08/16/93	1	13.1	13.1	13.1	13.1	0.	0.	**	**	**	**
71921 MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/16/93-08/16/93	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71930 MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	11/17/93-11/17/93	1	0.94	0.94	0.94	0.94	0.	0.	**	**	**	**
82078 TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/19/94-10/19/94	7	2.3	4.014	8.9	1.8	9.548	3.09	**	**	**	**
85664 WEIGHT, WET, OF FISH LIVER GRAMS	11/17/93-11/17/93	10	5.	12.8	44.	2.	214.4	14.642	2.	3.5	25.5	42.6
85665 WEIGHT, WET, FISH, RIGHT FILLET GRAMS	11/17/93-11/17/93	10	150.	241.2	696.	96.	35346.844	188.008	98.2	125.5	336.	667.2
85666 WEIGHT, WET, FISH, LEFT FILLET GRAMS	11/17/93-11/17/93	10	152.	237.4	678.	100.	32645.378	180.68	101.4	120.	331.	648.4

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

EPA Water Quality Criteria Analysis for Station: GRSM0020

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	247	21	0.09	26	0	0.00	221	21	0.10						
00400 PH	Other-Hi Lim.	9.	247	0	0.00	26	0	0.00	221	0	0.00						
	Other-Lo Lim.	6.5	247	97	0.39	26	17	0.65	221	80	0.36						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00				5	0	0.00						
82078 TURBIDITY, FIELD	Other-Hi Lim.	50.	7	0	0.00	1	0	0.00	6	0	0.00						

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

Station Inventory for Station: GRSM0021

NPS Station ID: GRSM0021 LAT/LON: 35.441393/ -83.490837 Agency: 131TVAC Date Created: / /
Location: HEADWATER OF FONTANA DAM
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360124 /4025
RMI-Indexes: 1021500 007720 00920 8540 4030
RMI-Miles: 0953.80 0046.50 601.10 076.20 009.00
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: TUCKASEGEE RIVER 9 APPROXIMATE, VARIES ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010203000901.21 RF3 Mile Point: 1.21 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0021

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/03/66-01/31/67	9	19.	17.322	26.5	5.9	47.457	6.889	5.9	11.4	22.95	26.5
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/03/66-01/31/67	9	910.	1211.111	3040.	640.	557986.111	746.985	640.	720.	1405.	3040.
00070 TURBIDITY, (JACKSON CANDLE UNITS)		05/03/66-01/31/67	7	15.	22.857	50.	10.	190.476	13.801	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)		05/03/66-01/31/67	9	50.	57.778	120.	25.	875.694	29.592	25.	32.5	75.	120.
00085 ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)		05/03/66-01/31/67	9##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/03/66-01/31/67	9	49.	51.222	69.	32.	158.944	12.607	32.	42.	64.	69.
00300 OXYGEN, DISSOLVED	MG/L	05/03/66-01/31/67	8	8.4	8.575	11.5	6.5	3.368	1.835	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C	MG/L	05/03/66-01/31/67	9	3.4	3.544	5.7	1.	2.405	1.551	1.	2.25	4.95	5.7
00335 COD, .025N K2CR2O7	MG/L	01/31/67-01/31/67	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		05/03/66-01/31/67	9	7.4	7.389	7.7	7.2	0.024	0.154	7.2	7.25	7.45	7.7
00400 CONVERTED PH (STANDARD UNITS)		05/03/66-01/31/67	9	7.4	7.366	7.7	7.2	0.024	0.156	7.2	7.25	7.45	7.7
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/03/66-01/31/67	9	0.04	0.043	0.063	0.02	0.	0.014	0.02	0.036	0.057	0.063
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		05/03/66-01/31/67	9	10.	12.	18.	6.	24.	4.899	6.	7.5	17.	18.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		05/03/66-01/31/67	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500 RESIDUE, TOTAL (MG/L)		05/03/66-01/31/67	9	70.	73.333	110.	30.	775.	27.839	30.	50.	100.	110.
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		05/03/66-01/31/67	9	30.	46.667	90.	20.	675.	25.981	20.	25.	70.	90.
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)		05/03/66-01/31/67	9	0.24	0.254	0.45	0.01	0.019	0.137	0.01	0.16	0.35	0.45
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/03/66-01/31/67	9	0.02	0.032	0.06	0.005	0.001	0.023	0.005	0.01	0.055	0.06
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)		05/03/66-01/31/67	9##	0.005	0.007	0.01	0.005	0.	0.003	0.005	0.005	0.01	0.01
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)		05/03/66-01/31/67	9	0.03	0.037	0.11	0.005	0.001	0.033	0.005	0.015	0.055	0.11
00665 PHOSPHORUS, TOTAL (MG/L AS P)		05/03/66-01/31/67	9	0.029	0.031	0.049	0.016	0.	0.012	0.016	0.021	0.043	0.049
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)		05/03/66-01/31/67	9	0.013	0.012	0.026	0.003	0.	0.007	0.003	0.005	0.015	0.026
00916 CALCIUM, TOTAL (MG/L AS CA)		05/03/66-01/31/67	9	2.	2.	3.	1.5	0.25	0.5	1.5	1.5	2.25	3.
00927 MAGNESIUM, TOTAL (MG/L AS MG)		05/03/66-01/31/67	9	1.5	1.389	3.	0.25	0.783	0.885	0.25	0.625	2.	3.
00929 SODIUM, TOTAL (MG/L AS NA)		05/03/66-01/31/67	9	9.8	7.422	11.1	3.4	13.062	3.614	3.4	3.4	10.7	11.1
00937 POTASSIUM, TOTAL MG/L AS K)		05/03/66-01/31/67	9	1.1	1.111	1.9	0.8	0.121	0.348	0.8	0.8	1.25	1.9
00940 CHLORIDE,TOTAL IN WATER	MG/L	05/03/66-01/31/67	9	3.	6.	28.	2.	68.75	8.292	2.	3.	4.5	28.
00945 SULFATE, TOTAL (MG/L AS SO4)		05/03/66-01/31/67	9	1.	1.556	6.	0.5	2.965	1.722	0.5	0.75	1.5	6.
00956 SILICA, TOTAL (MG/L AS SIO2)		05/03/66-01/31/67	9	7.5	7.622	9.3	6.3	0.967	0.983	6.3	6.75	8.45	9.3
01045 IRON, TOTAL (UG/L AS FE)		05/03/66-01/31/67	9	760.	717.778	1100.	380.	65569.444	256.065	380.	495.	935.	1100.
01047 IRON, FERROUS (UG/L AS FE)		05/03/66-01/31/67	9	150.	144.444	250.	50.	4027.778	63.465	50.	100.	200.	250.
01055 MANGANESE, TOTAL (UG/L AS MN)		05/03/66-01/31/67	9	70.	69.444	140.	5.	1352.778	36.78	5.	50.	90.	140.
31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)		05/03/66-01/31/67	9	36000.	47422.222	130000.	3600.	1892074444.444	43497.982	3600.	8600.	78000.	130000.
31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150		05/03/66-01/31/67	9	4.556	4.44	5.114	3.556	0.296	0.544	3.556	3.917	4.883	5.114
31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506			GEOMETRIC MEAN =		27546.985								
31615 FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)		05/03/66-01/31/67	9	6200.	6277.778	16000.	1100.	28806944.444	5367.21	1100.	1350.	11000.	16000.
31615 LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)		05/03/66-01/31/67	9	3.792	3.613	4.204	3.041	0.208	0.456	3.041	3.123	4.041	4.204
31615 GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)			GEOMETRIC MEAN =		4105.529								

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

Parameter Inventory for Station: GRSM0021

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	06/06/66-01/31/67	7	11.	12.143	19.	8.	13.476	3.671	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0021

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	7	1	0.14	3	0	0.00	4	1	0.25						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	8	0	0.00	3	0	0.00	5	0	0.00						
00400 PH	Other-Hi Lim.	9.	9	0	0.00	3	0	0.00	6	0	0.00						
	Other-Lo Lim.	6.5	9	0	0.00	3	0	0.00	6	0	0.00						
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	9	0	0.00	3	0	0.00	6	0	0.00						
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	9	0	0.00	3	0	0.00	6	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	9	0	0.00	3	0	0.00	6	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	9	0	0.00	3	0	0.00	6	0	0.00						
31505 COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	9	9	1.00	3	3	1.00	6	6	1.00						
31615 FECAL COLIFORM, MPN	Other-Hi Lim.	200.	9	9	1.00	3	3	1.00	6	6	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: GRSM0022

NPS Station ID: GRSM0022 LAT/LON: 35.441670/ -83.725004 Agency: 21NC01WQ Date Created: 02/24/76
Location: FONTANA LAKE 2MI US HAZEL CK INACT-790731
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9260000 /LTN031F
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 999 Aquifer:
Major Basin: SE Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010202011 RF1 Mile Point: 1.870 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202007800.00 RF3 Mile Point: 0.00 Distance from RF3: 0.04 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0022

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-07/31/79	17	27.	26.	30.	10.	19.625	4.43	21.2	25.5	28.	29.2
00023 SAMPLE WEIGHT IN POUNDS	07/16/74-07/29/75	2	27.	27.	27.	27.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/07/77-07/27/77	5	2.7	5.72	18.	1.6	47.977	6.927	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-07/31/79	16	2.95	5.522	50.	1.1	141.358	11.889	1.45	1.725	3.3	17.8
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-07/31/79	15	21.	23.467	39.	19.	29.981	5.475	19.6	20.	25.	34.2
00300 OXYGEN, DISSOLVED MG/L	07/16/74-07/31/79	18	8.3	8.411	10.	7.3	0.369	0.608	7.66	8.15	8.625	9.55
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	4	104.5	106.75	117.	101.	50.917	7.136	**	**	**	**
00308 BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/29/75	2	26.	26.	31.	21.	50.	7.071	**	**	**	**
00400 PH (STANDARD UNITS)	07/29/75-07/31/79	16	7.8	7.856	8.7	7.3	0.244	0.494	7.3	7.325	8.275	8.63
00400 CONVERTED PH (STANDARD UNITS)	07/29/75-07/31/79	16	7.789	7.642	8.7	7.3	0.293	0.541	7.3	7.325	8.275	8.63
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-07/31/79	16	0.016	0.023	0.05	0.002	0.	0.019	0.002	0.005	0.048	0.05
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/75-07/31/79	16	6.	6.563	11.	5.	1.863	1.365	5.	6.	7.	8.2
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	14	0.	0.143	1.	0.	0.132	0.363	0.	0.	0.	1.
00500 RESIDUE, TOTAL (MG/L)	07/31/78-07/31/78	1	29.	29.	29.	29.	0.	0.	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00520 RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	2##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-07/31/78	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-07/31/79	8##	0.025	0.033	0.09	0.025	0.001	0.023	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-07/31/79	8	0.1	0.188	0.6	0.1	0.03	0.173	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-07/31/79	8##	0.025	0.044	0.18	0.025	0.003	0.055	**	**	**	**
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	2	8.4	8.4	8.6	8.2	0.08	0.283	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-07/31/79	8##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	2##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00740 SULFITE (MG/L AS SO3)	07/29/75-07/29/75	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	2	165.	165.	270.	60.	22050.	148.492	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	07/07/77-07/31/79	6##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	07/29/75-07/31/79	7##	25.	25.	25.	25.	0.	0.	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-07/31/79	7##	25.	25.	25.	25.	0.	0.	**	**	**	**
01037 COBALT, TOTAL (UG/L AS CO)	07/29/75-07/31/79	7##	50.	50.	50.	50.	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	2##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	07/16/74-07/31/79	8##	20.	48.75	120.	20.	2041.071	45.178	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	07/29/75-07/31/79	7##	50.	54.286	80.	50.	128.571	11.339	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	07/16/74-07/31/79	8##	50.	50.	50.	50.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	07/29/75-07/31/79	7##	25.	32.857	80.	25.	432.143	20.788	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	1##	50.	50.	50.	50.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0022

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01075 SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	07/16/74-07/31/79	8##	25.	63.125	160.	25.	3006.696	54.833	**	**	**	**
01132 LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	2	20.	20.	20.	20.	0.	0.	**	**	**	**
31508 COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
31508 LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	0.845	0.845	0.845	0.845	0.	0.	**	**	**	**
31508 GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.			GEOMETRIC MEAN =	7.								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	17##	2.5	4.618	31.	0.5	49.985	7.07	0.5	0.5	5.	10.2
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	17##	0.398	0.381	1.491	-0.301	0.267	0.516	-0.301	-0.301	0.699	0.857
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	2.402								
32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/05/77-07/02/79	2##	12.	12.	19.	5.	98.	9.899	**	**	**	**
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID, METH.	07/29/75-07/02/79	3	5.	8.	19.	0.	97.	9.849	**	**	**	**
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID, METH.	07/16/74-07/02/79	4##	53.	54.25	106.	5.	3238.25	56.906	**	**	**	**
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	7##	2.5	7.857	25.	2.5	72.643	8.523	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	2	50.	50.	50.	50.	0.	0.	**	**	**	**
70305 SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	2	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-07/02/79	5##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	07/16/74-07/31/79	8##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0022

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	5	0	0.00				5	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	18	0	0.00				18	0	0.00						
00400 PH	Other-Hi Lim.	9.	16	0	0.00				16	0	0.00						
	Other-Lo Lim.	6.5	16	0	0.00				16	0	0.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00				8	0	0.00						
00720 CYANIDE, TOTAL	Fresh Acute	0.022	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	2	1.00				2	2	1.00						
01002 ARSENIC, TOTAL	Fresh Acute	360.	6	0	0.00				6	0	0.00						
	Drinking Water	50.	6	0	0.00				6	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0&	0	0.00												
	Drinking Water	5.	0&	0	0.00												
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00				2	0	0.00						
01034 CHROMIUM, TOTAL	Drinking Water	100.	7	0	0.00				7	0	0.00						
01040 COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00				2	0	0.00						
	Drinking Water	1300.	2	0	0.00				2	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	3&	3	1.00				3	3	1.00						
	Drinking Water	1300.	8	0	0.00				8	0	0.00						
01051 LEAD, TOTAL	Fresh Acute	82.	8	0	0.00				8	0	0.00						
	Drinking Water	5.	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						
01075 SILVER, DISSOLVED	Fresh Acute	4.1	0&	0	0.00												
	Drinking Water	50.	2	0	0.00				2	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	8	1	0.13				8	1	0.13						
31508 COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	1	0	0.00				1	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	17	0	0.00				17	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00				8	0	0.00						
	Drinking Water	2.	8	0	0.00				8	0	0.00						

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

Station Inventory for Station: GRSM0023

NPS Station ID: GRSM0023 LAT/LON: 35.442226/ -83.555281 Agency: 11EPALES Date Created: / /
Location: FONTANA LAKE
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 370404
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 145 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010203004 RF1 Mile Point: 1.810 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202000100.56 RF3 Mile Point: 0.56 Distance from RF3: 0.13 On/Off RF3:
Description:
ON THE TUCKASEGEE ARM (NORTHEAST) NEARLY 4 MILES ABOVE JUNCTION WITH LITTLE TENNESSEE RIVER, 1/2 MILE ABOVE ENTRY OF FORNEY CREEK AT TIP OF POINT EXTENDING FROM SOUTH SHORE. MILE 76 1/10 LITTLE TENNESSEE RIVER. COMMENTS: 6-2, PROFILES REVEAL STEEP THERMAL SLOPE BETWEEN 5 AND 25 FT DEPTH AND STRONG TURBIDITY BAND 90 FT PLUS OR MINUS 20 FT; 141 FT NO DO

Parameter Inventory for Station: GRSM0023

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	25	20.1	19.224	26.7	10.1	19.367	4.401	11.32	16.85	21.25	25.86
00074 TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	25	83.	72.6	96.	1.	531.583	23.056	31.2	64.	84.5	94.
00077 TRANSPARENCY, SECCHI DISC (INCHES)	08/21/73-10/26/73	2	105.	105.	120.	90.	450.	21.213	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	16	33.	35.25	69.	23.	117.8	10.854	23.7	28.75	38.5	52.9
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	8	25.5	26.125	31.	21.	13.268	3.643	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	06/02/73-10/26/73	21	4.4	5.205	9.6	0.1	7.708	2.776	0.24	3.9	7.7	8.4
00400 PH (STANDARD UNITS)	06/02/73-10/26/73	24	6.2	6.208	7.3	5.3	0.344	0.587	5.35	5.725	6.7	6.95
00400 CONVERTED PH (STANDARD UNITS)	06/02/73-10/26/73	24	6.2	5.877	7.3	5.3	0.459	0.678	5.35	5.725	6.7	6.95
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/02/73-10/26/73	24	0.631	1.329	5.012	0.05	2.534	1.592	0.113	0.2	1.893	4.496
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/02/73-10/26/73	24##	5.	7.792	24.	5.	22.433	4.736	5.	5.	11.	13.5
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	24	0.51	0.649	1.62	0.16	0.129	0.36	0.355	0.443	0.722	1.385
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	24	0.85	1.179	3.1	0.5	0.564	0.751	0.6	0.7	1.6	2.65
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/02/73-10/26/73	24	0.325	0.431	0.96	0.07	0.062	0.248	0.18	0.26	0.72	0.755
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/02/73-10/26/73	24	0.016	0.031	0.19	0.008	0.002	0.043	0.008	0.011	0.028	0.098
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	24	0.006	0.007	0.016	0.003	0.	0.003	0.004	0.004	0.008	0.014
32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	3	3.5	3.367	3.8	2.8	0.263	0.513	**	**	**	**
72025 DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	3	135.	134.	145.	122.	133.	11.533	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0023

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	21	6	0.29	6	3	0.50	15	3	0.20						
00400 PH	Other-Hi Lim.	9.	24	0	0.00	7	0	0.00	17	0	0.00						
	Other-Lo Lim.	6.5	24	16	0.67	7	7	1.00	17	9	0.53						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	24	0	0.00	7	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

Station Inventory for Station: GRSM0024

NPS Station ID: GRSM0024 LAT/LON: 35.443059/ -83.566670 Agency: 21NC01WQ Date Created: 02/24/76
Location: FONTANA LAKE @ TUCKASEGEE R @ BRYSON CITY
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9210000 /LTN031A
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010203004 RF1 Mile Point: 2.550 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203000700.90 RF3 Mile Point: 0.90 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0024

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	93	25.	23.155	29.	11.7	21.981	4.688	15.74	19.75	26.9	28.
00011 TEMPERATURE, WATER (DEGREES FAHRENHEIT)	08/05/87-08/05/87	1	83.3	83.3	83.3	83.3	0.	0.	**	**	**	**
00023 SAMPLE WEIGHT IN POUNDS	07/16/74-07/31/75	6	27.	26.833	28.	26.	0.567	0.753	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	7	2.1	4.629	21.	0.5	52.732	7.262	**	**	**	**
00077 TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	2	160.	160.	170.	150.	200.	14.142	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	21	2.9	4.95	50.	1.6	107.049	10.346	1.8	2.	3.45	3.73
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	72	19.	19.653	31.	1.	43.751	6.614	10.6	16.	24.75	30.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	18	23.5	24.167	34.	12.	32.971	5.742	15.6	20.	30.	31.3
00204 DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	08/05/87-08/05/87	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	94	7.6	6.847	9.1	0.6	4.101	2.025	3.9	6.075	8.3	8.7
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-08/05/87	9	101.	98.744	105.	79.	58.688	7.661	79.	98.85	102.5	105.
00308 BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/31/75	5	31.	29.6	34.	22.	20.3	4.506	**	**	**	**
00340 COD, .25N K2CR207 MG/L	06/17/80-06/17/80	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/09/75-08/29/94	93	7.3	7.173	9.1	4.9	1.171	1.082	5.6	6.3	8.25	8.4
00400 CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	93	7.3	6.094	9.1	4.9	2.349	1.533	5.6	6.3	8.25	8.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	93	0.05	0.806	12.589	0.001	3.951	1.988	0.004	0.006	0.501	2.512
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	07/09/75-07/31/79	20	7.	7.25	13.	5.	2.829	1.682	6.	6.25	7.	9.8
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/09/75-07/31/79	17	0.	0.441	2.	0.	0.496	0.705	0.	0.	1.	2.
00500 RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	5	31.	40.8	82.	23.	563.2	23.732	**	**	**	**
00505 RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	12.5	12.5	14.	11.	4.5	2.121	**	**	**	**
00510 RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	14.5	14.5	20.	9.	60.5	7.778	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/09/75-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00520 RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	2##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	5	1.	2.	6.	0.5	5.375	2.318	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00540 RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	07/09/75-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	12##	0.025	0.028	0.11	0.005	0.001	0.027	0.005	0.014	0.025	0.086
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	12	0.15	0.179	0.6	0.05	0.021	0.144	0.065	0.1	0.2	0.48
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	12##	0.025	0.034	0.2	0.005	0.003	0.053	0.007	0.01	0.025	0.148
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/31/75	6	8.25	8.233	8.5	8.	0.031	0.175	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	12##	0.025	0.02	0.025	0.005	0.	0.008	0.007	0.013	0.025	0.025
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	2##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/06/78	3##	0.02	0.847	2.5	0.02	2.05	1.432	**	**	**	**
00740 SULFITE (MG/L AS SO3)	07/09/75-07/29/75	2	2.	2.	2.	2.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/30/75	5	160.	150.	270.	60.	8300.	91.104	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	07/27/77-08/04/82	8##	5.	5.	5.	5.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0024

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01027 CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	9##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/31/75	6	0.	0.003	0.02	0.	0.	0.008	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	9##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037 COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	9##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01040 COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/31/75	6	1.	0.833	1.	0.5	0.067	0.258	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	10##	20.	43.	170.	20.	2623.333	51.218	20.	20.	40.	163.
01045 IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	9##	50.	61.111	100.	50.	486.111	22.048	50.	50.	75.	100.
01051 LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	10##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01055 MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	9##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01067 NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/30/75	5##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	10##	25.	35.	90.	25.	494.444	22.236	25.	25.	33.75	87.
01132 LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/31/75	6	45.	45.	100.	10.	990.	31.464	**	**	**	**
31508 COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/09/75-07/31/75	5	7.	7.4	8.	7.	0.3	0.548	**	**	**	**
31508 LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/09/75-07/31/75	5	0.845	0.868	0.903	0.845	0.001	0.032	**	**	**	**
31508 GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.			GEOMETRIC MEAN =	7.384								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	24##	5.	302.979	7200.	0.5	2158139.467	1469.061	0.5	0.5	5.	5.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	24##	0.699	0.46	3.857	-0.301	0.734	0.856	-0.301	-0.301	0.699	0.699
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	2.881								
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	4	4.5	4.25	6.	2.	2.917	1.708	**	**	**	**
32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	07/06/78-06/17/80	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID, METH.	07/09/75-06/17/80	4##	2.5	2.5	5.	0.	8.333	2.887	**	**	**	**
32213 PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	4##	0.5	0.625	1.	0.5	0.063	0.25	**	**	**	**
32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	4	4.5	4.25	6.	2.	2.917	1.708	**	**	**	**
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID, METH.	07/16/74-06/17/80	8	100.5	77.5	105.	5.	2005.714	44.785	**	**	**	**
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	5##	2.5	7.	25.	2.5	101.25	10.062	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/31/75	6	50.	50.	50.	50.	0.	0.	**	**	**	**
70305 SALINITY BASED ON CONDUCTIVITY	07/16/74-07/19/78	3	0.	0.267	0.8	0.	0.213	0.462	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/77-08/05/87	8##	0.025	0.019	0.025	0.005	0.	0.009	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	10##	0.25	0.31	1.	0.1	0.061	0.247	0.115	0.25	0.25	0.925

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

EPA Water Quality Criteria Analysis for Station: GRSM0024

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	7	0	0.00				7	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	94	10	0.11				94	10	0.11						
00400 PH	Other-Hi Lim.	9.	93	1	0.01				93	1	0.01						
	Other-Lo Lim.	6.5	93	29	0.31				93	29	0.31						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	12	0	0.00				12	0	0.00						
00720 CYANIDE, TOTAL	Fresh Acute	0.022	2&	0	0.00				2	0	0.00						
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	5	0	0.00				5	0	0.00						
	Drinking Water	50.	5	5	1.00				5	5	1.00						
01002 ARSENIC, TOTAL	Fresh Acute	360.	8	0	0.00				8	0	0.00						
	Drinking Water	50.	8	0	0.00				8	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0&	0	0.00												
	Drinking Water	5.	0&	0	0.00												
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	6	0	0.00				6	0	0.00						
01034 CHROMIUM, TOTAL	Drinking Water	100.	9	0	0.00				9	0	0.00						
01040 COPPER, DISSOLVED	Fresh Acute	18.	6	0	0.00				6	0	0.00						
	Drinking Water	1300.	6	0	0.00				6	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	2&	2	1.00				2	2	1.00						
	Drinking Water	1300.	10	0	0.00				10	0	0.00						
01051 LEAD, TOTAL	Fresh Acute	82.	10	0	0.00				10	0	0.00						
	Drinking Water	5.	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						
01075 SILVER, DISSOLVED	Fresh Acute	4.1	0&	0	0.00												
	Drinking Water	50.	5	0	0.00				5	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRSM0024

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01092 ZINC, TOTAL	Fresh Acute	120.	10	0	0.00				10	0	0.00						
31508 COLIFORM, TOTAL, MPN, COMP, TEST, TUBE C	Other-Hi Lim.	1000.	5	0	0.00				5	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	24	1	0.04				24	1	0.04						
71900 MERCURY, TOTAL	Fresh Acute	2.4	10	0	0.00				10	0	0.00						
	Drinking Water	2.	10	0	0.00				10	0	0.00						

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

Annual Analysis for 1974 - Station GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**

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

Annual Analysis for 1975 - Station GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	5	27.	27.	28.	26.	0.5	0.707	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	5	8.3	8.24	8.5	8.	0.038	0.195	**	**	**	**
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	5	7.3	7.44	7.8	7.3	0.048	0.219	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	5	7.3	7.403	7.8	7.3	0.05	0.223	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	5	0.05	0.04	0.05	0.016	0.	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

Annual Analysis for 1977 - Station GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	5	28.	26.6	29.	21.	10.3	3.209	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	5	8.1	8.02	8.8	7.1	0.377	0.614	**	**	**	**
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	5	7.7	7.62	8.2	7.1	0.187	0.432	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	5	7.7	7.464	8.2	7.1	0.217	0.466	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	5	0.02	0.034	0.079	0.006	0.001	0.03	**	**	**	**

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

Annual Analysis for 1978 - Station GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	5	27.	27.2	28.	27.	0.2	0.447	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	5	8.4	8.12	8.7	7.3	0.352	0.593	**	**	**	**
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	5	8.9	8.76	9.1	8.4	0.088	0.297	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	5	8.9	8.68	9.1	8.4	0.096	0.31	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	5	0.001	0.002	0.004	0.001	0.	0.001	**	**	**	**

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

Annual Analysis for 1979 - Station GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	4	24.5	24.75	26.	24.	0.917	0.957	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	5	8.7	8.68	8.9	8.3	0.062	0.249	**	**	**	**
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	5	7.4	7.72	8.4	7.2	0.337	0.581	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	5	7.4	7.489	8.4	7.2	0.403	0.635	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	5	0.04	0.032	0.063	0.004	0.001	0.027	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	1	8.9	8.9	8.9	8.9	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**

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

Annual Analysis for 1981 - Station GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	18	24.6	22.756	27.3	15.7	20.048	4.478	15.79	17.625	26.825	27.21
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	18	29.5	26.889	31.	19.	22.81	4.776	19.	20.75	31.	31.
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	18	6.6	6.733	9.1	4.2	2.787	1.669	4.2	5.35	8.625	8.74
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	18	6.35	6.817	8.5	5.4	1.479	1.216	5.49	5.775	8.325	8.41
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	18	6.347	6.001	8.5	5.4	2.183	1.478	5.49	5.775	8.325	8.41
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	18	0.45	0.997	3.981	0.003	1.513	1.23	0.004	0.005	1.687	3.244

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	19	23.9	21.242	26.	11.8	28.046	5.296	12.3	15.9	25.8	26.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	19	22.	20.368	26.	13.	22.579	4.752	14.	15.	25.	25.
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	19	6.2	5.811	8.2	0.6	5.834	2.415	1.3	4.1	7.9	8.2
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	19	6.7	7.089	8.3	5.9	0.924	0.961	5.9	6.4	8.2	8.3
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	19	6.7	6.47	8.3	5.9	1.33	1.153	5.9	6.4	8.2	8.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	19	0.2	0.339	1.259	0.005	0.18	0.425	0.005	0.006	0.398	1.259

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	19	25.2	22.574	28.5	11.7	38.663	6.218	12.8	16.2	28.4	28.5
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	19	15.	13.105	19.	1.	27.766	5.269	7.	9.	18.	19.
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	19	6.2	5.521	7.9	0.7	5.738	2.396	1.6	3.5	7.8	7.9
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	19	6.3	6.284	7.4	4.9	0.877	0.936	5.	5.4	7.3	7.4
00400 CONVERTED PH (STANDARD UNITS)		07/09/75-08/29/94	19	6.3	5.592	7.4	4.9	1.383	1.176	5.	5.4	7.3	7.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/09/75-08/29/94	19	0.501	2.56	12.589	0.04	13.851	3.722	0.04	0.05	3.981	10.

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

Annual Analysis for 1994 - Station GRSM0024

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	16	22.4	22.331	26.2	18.5	7.169	2.677	18.64	19.775	25.2	25.85
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	16	18.	18.438	20.	17.	1.463	1.209	17.	17.25	20.	20.
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	16	7.5	7.794	8.8	7.1	0.433	0.658	7.1	7.2	8.375	8.8
00400 PH (STANDARD UNITS)		07/09/75-08/29/94	16	7.8	7.781	8.7	6.	0.526	0.725	6.7	7.25	8.4	8.63

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0024

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400 CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	16	7.789	7.063	8.7	6.	1.076	1.037	6.7	7.25	8.4	8.63
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	16	0.016	0.086	1.	0.002	0.06	0.245	0.002	0.004	0.057	0.37

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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0024

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	93	25.	23.155	29.	11.7	21.981	4.688	15.74	19.75	26.9	28.
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	21	2.9	4.95	50.	1.6	107.049	10.346	1.8	2.	3.45	3.73
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	72	19.	19.653	31.	1.	43.751	6.614	10.6	16.	24.75	30.
00300 OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	94	7.6	6.847	9.1	0.6	4.101	2.025	3.9	6.075	8.3	8.7
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-08/05/87	9	101.	98.744	105.	79.	58.688	7.661	79.	98.85	102.5	105.
00400 PH (STANDARD UNITS)	07/09/75-08/29/94	93	7.3	7.173	9.1	4.9	1.171	1.082	5.6	6.3	8.25	8.4
00400 CONVERTED PH (STANDARD UNITS)	07/09/75-08/29/94	93	7.3	6.094	9.1	4.9	2.349	1.533	5.6	6.3	8.25	8.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/09/75-08/29/94	93	0.05	0.806	12.589	0.001	3.951	1.988	0.004	0.006	0.501	2.512
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	12##	0.025	0.028	0.11	0.005	0.001	0.027	0.005	0.014	0.025	0.086
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	12	0.15	0.179	0.6	0.05	0.021	0.144	0.065	0.1	0.2	0.48
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	12##	0.025	0.034	0.2	0.005	0.003	0.053	0.007	0.01	0.025	0.148
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	12##	0.025	0.02	0.025	0.005	0.	0.008	0.007	0.013	0.025	0.025
01027 CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	9##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01034 CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	9##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037 COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	9##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01042 COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	10##	20.	43.	170.	20.	2623.333	51.218	20.	20.	40.	163.
01045 IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	9##	50.	61.111	100.	50.	486.111	22.048	50.	50.	75.	100.
01051 LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	10##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01055 MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	9##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01092 ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	10##	25.	35.	90.	25.	494.444	22.236	25.	25.	33.75	87.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	24##	5.	302.979	7200.	0.5	2158139.467	1469.061	0.5	0.5	5.	5.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	24##	0.699	0.46	3.857	-0.301	0.734	0.856	-0.301	-0.301	0.699	0.699
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	2.881								
71900 MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	10##	0.25	0.31	1.	0.1	0.061	0.247	0.115	0.25	0.25	0.925

** - Less than 9 observations ## - Computed 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: GRSM0025

NPS Station ID: GRSM0025 LAT/LON: 35.443059/ -83.566670 Agency: 21NC01WQ Date Created: 07/11/87
Location: FONTANA LK @ TUCKASEGEE R @ BRYSON CITY
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9210010 /LTN031ASUR
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESEE ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010203003100.20 RF3 Mile Point: 0.79 Distance from RF3: 0.09 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0025

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	08/05/87-08/05/87	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		08/05/87-08/05/87	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		08/05/87-08/05/87	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		08/05/87-08/05/87	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00435 ACIDITY, TOTAL (MG/L AS CACO3)		08/05/87-08/05/87	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)		08/05/87-08/05/87	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)		08/05/87-08/05/87	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)		08/05/87-08/05/87	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)		08/05/87-08/05/87	1	0.66	0.66	0.66	0.66	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	08/05/87-08/05/87	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		08/05/87-08/05/87	1##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)		08/05/87-08/05/87	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)		08/05/87-08/05/87	1##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)		08/05/87-08/05/87	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)		08/05/87-08/05/87	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)		08/05/87-08/05/87	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)		08/05/87-08/05/87	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)		08/05/87-08/05/87	1	100.	100.	100.	100.	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)		08/05/87-08/05/87	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0025

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0&	0	0.00												
	Drinking Water	5.	0&	0	0.00												
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00				1	0	0.00						
	Drinking Water	1300.	1	0	0.00				1	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRSM0025

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
	Drinking Water	5.	0&	0	0.00												
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
	Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0026

NPS Station ID: GRSM0026 LAT/LON: 35.443059/ -83.566670 Agency: 21NC01WQ Date Created: 07/11/87
Location: FONTANA LAKE @ TUCKASEGEE R @ BRYSON CITY FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9210020 /LTN031ABOT
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 0.50 On/Off RF1:
RF3 Index: 06010203000100.40 RF3 Mile Point: 0.40 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0026

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: GRSM0027

NPS Station ID: GRSM0027 LAT/LON: 35.444448/ -83.777781 Agency: 21NC01WQ Date Created: 02/24/76
Location: FONTANA LAKE BELOW HAZEL CRK
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9280000 /LTN031H
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010202010 RF1 Mile Point: 0.990 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202000100.18 RF3 Mile Point: 0.17 Distance from RF3: 0.07 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0027

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	97	24.	22.319	30.	9.5	26.525	5.15	14.28	18.8	26.4	27.82
00023 SAMPLE WEIGHT IN POUNDS	07/16/74-07/29/75	2	27.	27.	27.	27.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	7	2.1	5.	24.	0.5	71.013	8.427	**	**	**	**
00077 TRANSPARENCY, SECCHI DISC (INCHES)	08/12/81-08/04/82	2	184.5	184.5	225.	144.	3280.5	57.276	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	19	2.7	5.363	50.	1.9	117.57	10.843	2.2	2.2	3.5	5.1
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	79	17.	16.81	28.	1.	38.566	6.21	7.	15.	20.	26.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-06/17/80	15	21.	21.867	32.	10.	25.267	5.027	15.4	20.	25.	30.8
00204 DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	08/05/87-08/05/87	1	9.8	9.8	9.8	9.8	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	97	7.8	7.499	10.1	4.3	1.391	1.179	5.66	6.8	8.2	8.7
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	4	101.5	103.	109.	100.	16.667	4.082	**	**	**	**
00308 BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/29/75	2	25.5	25.5	30.	21.	40.5	6.364	**	**	**	**
00340 COD, .25N K2CR2O7 MG/L	06/17/80-06/17/80	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	07/29/75-08/29/94	97	7.	6.955	8.9	5.2	0.96	0.98	5.58	6.	7.8	8.22
00400 CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	97	7.	6.137	8.9	5.2	1.636	1.279	5.58	6.	7.8	8.22
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	97	0.1	0.729	6.31	0.001	1.469	1.212	0.006	0.016	1.	2.642
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/75-07/31/79	16	6.	6.688	12.	5.	2.363	1.537	5.7	6.	7.	8.5
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	15	0.	0.267	1.	0.	0.21	0.458	0.	0.	1.	1.
00500 RESIDUE, TOTAL (MG/L)	07/31/78-08/29/94	5	31.	31.6	37.	25.	21.8	4.669	**	**	**	**
00505 RESIDUE, TOTAL VOLATILE (MG/L)	06/17/80-08/04/82	2	19.	19.	21.	17.	8.	2.828	**	**	**	**
00510 RESIDUE, TOTAL FIXED (MG/L)	06/17/80-08/04/82	2	12.	12.	16.	8.	32.	5.657	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00520 RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	2##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/31/78-08/29/94	5	1.	1.6	5.	0.5	3.675	1.917	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	06/17/80-08/04/82	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00540 RESIDUE, FIXED NONFILTRABLE (MG/L)	06/17/80-08/04/82	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	13##	0.025	0.033	0.1	0.005	0.001	0.028	0.007	0.018	0.038	0.092
00611 NITROGEN, AMMONIA, BOTTOM DEPOSITS (MG/KG-N)	06/17/80-06/17/80	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	13	0.1	0.188	0.6	0.05	0.022	0.147	0.07	0.1	0.25	0.48
00627 NITROGEN KJELDAHL TOTAL BOTTOM DEP DRY WT MG/KG	06/17/80-06/17/80	1	1900.	1900.	1900.	1900.	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	13##	0.025	0.04	0.18	0.005	0.003	0.051	0.005	0.015	0.025	0.156
00633 NITRITE PLUS NITRATE,BOT. DEPOS. (MG/KG-N DRY WT)	06/17/80-06/17/80	1##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	2	8.5	8.5	8.8	8.2	0.18	0.424	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	13##	0.025	0.02	0.025	0.005	0.	0.009	0.005	0.01	0.025	0.025
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	08/12/81-08/04/82	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00668 PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/17/80-06/17/80	1	260.	260.	260.	260.	0.	0.	**	**	**	**
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	2##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: GRSM0027

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00740 SULFITE (MG/L AS SO3)	07/29/75-07/29/75	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)	06/17/80-08/04/82	1	5600.	5600.	5600.	5600.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	2	165.	165.	270.	60.	22050.	148.492	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	07/07/77-08/04/82	9##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/17/80-08/04/82	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/04/82	1##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/04/82	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037 COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	10##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01038 COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/17/80-06/17/80	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	2##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	11##	20.	44.545	140.	20.	2307.273	48.034	20.	20.	50.	140.
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/17/80-08/04/82	1	16.	16.	16.	16.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	10##	70.	74.	100.	50.	648.889	25.473	50.	50.	100.	100.
01051 LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	11##	50.	54.545	100.	50.	227.273	15.076	50.	50.	50.	90.
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/17/80-08/04/82	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/17/80-06/17/80	1	390.	390.	390.	390.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01067 NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/17/80-08/04/82	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	11##	25.	39.545	110.	25.	1052.273	32.439	25.	25.	25.	108.
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/17/80-08/04/82	1	88.	88.	88.	88.	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/17/80-08/04/82	1	26000.	26000.	26000.	26000.	0.	0.	**	**	**	**
01132 LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	2	20.	20.	20.	20.	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/17/80-06/17/80	1	32000.	32000.	32000.	32000.	0.	0.	**	**	**	**
31508 COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
31508 LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	0.845	0.845	0.845	0.845	0.	0.	**	**	**	**
31508 GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.			GEOMETRIC MEAN =	7.								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	20##	2.5	2.925	5.	0.5	4.244	2.06	0.5	0.5	5.	5.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	20##	0.398	0.289	0.699	-0.301	0.21	0.459	-0.301	-0.301	0.699	0.699
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	1.944								
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/12/81-08/29/94	4	3.5	3.5	5.	2.	1.667	1.291	**	**	**	**
32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	06/17/80-06/17/80	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/75-06/17/80	2##	2.5	2.5	5.	0.	12.5	3.536	**	**	**	**
32213 PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/12/81-08/29/94	4##	0.75	0.75	1.	0.5	0.083	0.289	**	**	**	**
32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/12/81-08/29/94	4	4.5	4.5	6.	3.	1.667	1.291	**	**	**	**
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/16/74-06/17/80	3	101.	73.333	109.	10.	3024.333	54.994	**	**	**	**
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	7##	2.5	5.	20.	2.5	43.75	6.614	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	2	50.	50.	50.	50.	0.	0.	**	**	**	**
70305 SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	2	0.25	0.25	0.5	0.	0.125	0.354	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	9##	0.025	0.019	0.025	0.005	0.	0.008	0.005	0.01	0.025	0.025
70511 PHOSPHORUS,ORTHO,IN BOTTOM DEPOS.(MG/KG-P DRY WT)	06/17/80-06/17/80	1##	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	11##	0.25	0.245	0.25	0.2	0.	0.015	0.21	0.25	0.25	0.25
71921 MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/17/80-08/04/82	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0027

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	7	0	0.00				7	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	97	0	0.00				97	0	0.00						
00400 PH	Other-Hi Lim.	9.	97	0	0.00				97	0	0.00						
	Other-Lo Lim.	6.5	97	34	0.35				97	34	0.35						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00				13	0	0.00						
00720 CYANIDE, TOTAL	Fresh Acute	0.022	2	0	0.00				2	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRSM0027

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00				2	0	0.00						
	Drinking Water	50.	2	2	1.00				2	2	1.00						
01002 ARSENIC, TOTAL	Fresh Acute	360.	9	0	0.00				9	0	0.00						
	Drinking Water	50.	9	0	0.00				9	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0&	0	0.00												
	Drinking Water	5.	0&	0	0.00												
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00				2	0	0.00						
01034 CHROMIUM, TOTAL	Drinking Water	100.	10	0	0.00				10	0	0.00						
01040 COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00				2	0	0.00						
	Drinking Water	1300.	2	0	0.00				2	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	3&	3	1.00				3	3	1.00						
	Drinking Water	1300.	11	0	0.00				11	0	0.00						
01051 LEAD, TOTAL	Fresh Acute	82.	11	1	0.09				11	1	0.09						
	Drinking Water	5.	1&	1	1.00				1	1	1.00						
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01075 SILVER, DISSOLVED	Fresh Acute	4.1	0&	0	0.00												
	Drinking Water	50.	2	0	0.00				2	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	11	0	0.00				11	0	0.00						
31508 COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	1	0	0.00				1	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	20	0	0.00				20	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	11	0	0.00				11	0	0.00						
	Drinking Water	2.	11	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

Annual Analysis for 1974 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	1	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**

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

Annual Analysis for 1975 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	1	27.	27.	27.	27.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	1	8.2	8.2	8.2	8.2	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	1	7.3	7.3	7.3	7.3	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	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 box-and-whisker plot

Annual Analysis for 1977 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	5	28.	27.4	30.	24.	4.8	2.191	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	5	7.7	7.88	8.7	7.3	0.292	0.54	**	**	**	**
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	5	7.3	7.38	7.9	7.	0.117	0.342	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	5	7.3	7.288	7.9	7.	0.128	0.357	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	5	0.05	0.051	0.1	0.013	0.001	0.033	**	**	**	**

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

Annual Analysis for 1978 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	5	27.	27.6	29.	27.	0.8	0.894	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	5	8.1	8.02	8.2	7.7	0.037	0.192	**	**	**	**
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	5	8.6	8.6	8.9	8.2	0.065	0.255	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	5	8.6	8.535	8.9	8.2	0.07	0.265	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	5	0.003	0.003	0.006	0.001	0.	0.002	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	4	24.	24.25	26.	23.	1.583	1.258	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	5	8.6	8.52	8.8	8.1	0.067	0.259	**	**	**	**
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	5	7.5	7.6	8.3	7.2	0.19	0.436	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	5	7.5	7.469	8.3	7.2	0.211	0.46	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	5	0.032	0.034	0.063	0.005	0.001	0.023	**	**	**	**

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

Annual Analysis for 1980 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**

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

Annual Analysis for 1981 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	21	24.	22.348	27.7	14.6	21.611	4.649	15.14	17.25	26.45	27.04
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	21	24.	22.381	28.	14.	22.348	4.727	15.2	17.	26.5	27.
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	21	7.8	7.186	8.4	5.5	0.907	0.953	5.88	6.3	8.	8.26
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	21	6.7	6.762	8.	5.6	0.976	0.988	5.6	5.75	7.85	7.9
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	21	6.7	6.077	8.	5.6	1.469	1.212	5.6	5.75	7.85	7.9
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	21	0.2	0.837	2.512	0.01	0.958	0.979	0.013	0.014	1.79	2.512

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

Annual Analysis for 1982 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	19	23.6	21.121	26.	11.1	29.104	5.395	12.2	15.7	26.	26.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	19	17.	15.579	21.	7.	23.813	4.88	8.	10.	20.	21.
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	19	8.1	7.974	9.4	6.7	0.61	0.781	7.	7.2	8.6	8.9
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	19	6.9	6.826	8.1	5.2	0.984	0.992	5.4	5.9	7.8	7.9
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	19	6.9	6.025	8.1	5.2	1.662	1.289	5.4	5.9	7.8	7.9
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	19	0.126	0.943	6.31	0.008	2.698	1.643	0.013	0.016	1.259	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 1987 - Station GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	22	22.5	20.527	28.2	9.5	48.289	6.949	10.17	13.55	27.725	28.17
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	21	14.	11.095	17.	1.	33.49	5.787	2.2	5.5	16.	17.
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	22	7.7	7.4	9.3	4.9	1.143	1.069	5.62	6.975	7.9	9.02
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	22	6.25	6.273	7.7	5.4	0.588	0.767	5.5	5.5	6.9	7.47
00400 CONVERTED PH (STANDARD UNITS)		07/29/75-08/29/94	22	6.182	5.835	7.7	5.4	0.788	0.888	5.5	5.5	6.9	7.47
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/29/75-08/29/94	22	0.658	1.462	3.981	0.02	2.157	1.469	0.034	0.126	3.162	3.162

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0027

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		07/16/74-08/29/94	18	21.9	21.817	25.3	17.8	6.859	2.619	18.25	19.425	24.9	25.3
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		08/12/81-08/29/94	18	18.	18.278	22.	16.	3.389	1.841	16.	17.	20.	21.1
00300 OXYGEN, DISSOLVED	MG/L	07/16/74-08/29/94	17	6.6	6.735	10.1	4.3	3.23	1.797	4.54	4.85	8.1	8.98
00400 PH (STANDARD UNITS)		07/29/75-08/29/94	18	7.35	7.361	8.3	6.3	0.595	0.772	6.3	6.575	8.225	8.3

** - 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 1994 - Station GRSM0027

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400 CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	18	7.347	6.858	8.3	6.3	0.864	0.929	6.3	6.575	8.225	8.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	18	0.045	0.139	0.501	0.005	0.031	0.177	0.005	0.006	0.267	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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0027

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	97	24.	22.319	30.	9.5	26.525	5.15	14.28	18.8	26.4	27.82
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	19	2.7	5.363	50.	1.9	117.57	10.843	2.2	2.2	3.5	5.1
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/12/81-08/29/94	79	17.	16.81	28.	1.	38.566	6.21	7.	15.	20.	26.
00300 OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	97	7.8	7.499	10.1	4.3	1.391	1.179	5.66	6.8	8.2	8.7
00400 PH (STANDARD UNITS)	07/29/75-08/29/94	97	7.	6.955	8.9	5.2	0.96	0.98	5.58	6.	7.8	8.22
00400 CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	97	7.	6.137	8.9	5.2	1.636	1.279	5.58	6.	7.8	8.22
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	97	0.1	0.729	6.31	0.001	1.469	1.212	0.006	0.016	1.	2.642
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	13##	0.025	0.033	0.1	0.005	0.001	0.028	0.007	0.018	0.038	0.092
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	13	0.1	0.188	0.6	0.05	0.022	0.147	0.07	0.1	0.25	0.48
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	13##	0.025	0.04	0.18	0.005	0.003	0.051	0.005	0.015	0.025	0.156
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	13##	0.025	0.02	0.025	0.005	0.	0.009	0.005	0.01	0.025	0.025
01027 CADMIUM, TOTAL (UG/L AS CD)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01034 CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037 COBALT, TOTAL (UG/L AS CO)	07/29/75-08/04/82	10##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01042 COPPER, TOTAL (UG/L AS CU)	07/16/74-08/04/82	11##	20.	44.545	140.	20.	2307.273	48.034	20.	20.	50.	140.
01045 IRON, TOTAL (UG/L AS FE)	07/29/75-08/04/82	10##	70.	74.	100.	50.	648.889	25.473	50.	50.	100.	100.
01051 LEAD, TOTAL (UG/L AS PB)	07/16/74-08/04/82	11##	50.	54.545	100.	50.	227.273	15.076	50.	50.	50.	90.
01055 MANGANESE, TOTAL (UG/L AS MN)	07/29/75-08/04/82	10##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01092 ZINC, TOTAL (UG/L AS ZN)	07/16/74-08/04/82	11##	25.	39.545	110.	25.	1052.273	32.439	25.	25.	25.	108.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	20##	2.5	2.925	5.	0.5	4.244	2.06	0.5	0.5	5.	5.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	1.944								
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-08/04/82	20##	0.398	0.289	0.699	-0.301	0.21	0.459	-0.301	-0.301	0.699	0.699
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	9##	0.025	0.019	0.025	0.005	0.	0.008	0.005	0.01	0.025	0.025
71900 MERCURY, TOTAL (UG/L AS HG)	07/16/74-08/04/82	11##	0.25	0.245	0.25	0.2	0.	0.015	0.21	0.25	0.25	0.25

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

Station Inventory for Station: GRSM0028

NPS Station ID: GRSM0028 LAT/LON: 35.444448/ -83.777781 Agency: 21NC01WQ Date Created: 07/11/87
Location: FONTANA LAKE BELOW HAZEL CRK FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9280010 /LTN031HSUR
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010202 RF1 Mile Point: 0.000 Distance from RF1: 0.30 On/Off RF1:
RF3 Index: 06010202007800.00 RF3 Mile Point: 0.00 Distance from RF3: 0.04 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0028

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	08/05/87-08/05/87	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		08/05/87-08/05/87	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		08/05/87-08/05/87	1	0.398	0.398	0.398	0.398	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		08/05/87-08/05/87	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00435 ACIDITY, TOTAL (MG/L AS CACO3)		08/05/87-08/05/87	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)		08/05/87-08/05/87	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)		08/05/87-08/05/87	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)		08/05/87-08/05/87	1	2.4	2.4	2.4	2.4	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)		08/05/87-08/05/87	1	0.67	0.67	0.67	0.67	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	08/05/87-08/05/87	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		08/05/87-08/05/87	1##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)		08/05/87-08/05/87	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)		08/05/87-08/05/87	1##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)		08/05/87-08/05/87	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)		08/05/87-08/05/87	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)		08/05/87-08/05/87	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)		08/05/87-08/05/87	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)		08/05/87-08/05/87	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)		08/05/87-08/05/87	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0028

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0&	0	0.00												
	Drinking Water	5.	0&	0	0.00												
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00				1	0	0.00						
	Drinking Water	1300.	1	0	0.00				1	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRSM0028

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
	Drinking Water	5.	0&	0	0.00												
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
	Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0029

NPS Station ID: GRSM0029 LAT/LON: 35.444448/ -83.777781 Agency: 21NC01WQ Date Created: 07/11/87
Location: FONTANA LAKE BELOW HAZEL CRK FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9280020 /LTN031HBOT
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010202 RF1 Mile Point: 0.000 Distance from RF1: 0.50 On/Off RF1:
RF3 Index: 06010202007600.00 RF3 Mile Point: 0.00 Distance from RF3: 0.11 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0029

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	1	0.18	0.18	0.18	0.18	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/05/87-08/29/94	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0029

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0030

NPS Station ID: GRSM0030 LAT/LON: 35.445003/ -83.726949 Agency: 11EPALES Date Created: / /
Location: FONTANA LAKE
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): 370402
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 170 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010202011 RF1 Mile Point: 1.760 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202000100.64 RF3 Mile Point: 0.64 Distance from RF3: 0.02 On/Off RF3:
Description:

CENTRAL AREA OF LAKE, DUE WEST OF ISLAND, ABOUT MID-CHANNEL, MILE 65 9/ 10 LITTLE TENNESSEE RIVER.
COMMENTS: 6-2 ULE 12; 1% LIGHT AT 27 FT; WATER IS VERY CLEAR, GREENISH IN APPEARANCE. 8-21 ULE 13, NO SURF ALGAE OR HIGHER AQUATICS, 1% LIGHT AT 25 FT, INTEGRATED 30 FT TO SURF.

Parameter Inventory for Station: GRSM0030

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	25	20.2	19.5	26.7	11.3	16.925	4.114	12.82	17.25	21.85	26.22
00074 TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	25	95.	92.04	98.	83.	29.957	5.473	84.	85.	96.	97.
00077 TRANSPARENCY, SECCHI DISC (INCHES)	06/02/73-10/26/73	3	162.	146.	180.	96.	1956.	44.227	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	17	26.	25.529	30.	19.	8.89	2.982	20.6	23.5	28.	29.2
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	8	51.	50.125	58.	45.	17.839	4.224	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	06/02/73-10/26/73	22	4.6	5.064	9.4	0.2	7.144	2.673	0.86	3.55	7.6	7.94
00400 PH (STANDARD UNITS)	06/02/73-10/26/73	25	6.3	6.324	6.9	5.8	0.14	0.374	5.8	5.9	6.7	6.84
00400 CONVERTED PH (STANDARD UNITS)	06/02/73-10/26/73	25	6.3	6.174	6.9	5.8	0.164	0.405	5.8	5.9	6.7	6.84
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/02/73-10/26/73	25	0.501	0.67	1.585	0.126	0.313	0.559	0.145	0.2	1.292	1.585
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/02/73-10/26/73	21##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	21	0.16	0.147	0.42	0.03	0.011	0.105	0.03	0.055	0.185	0.326
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	21	0.2	0.229	0.6	0.1	0.029	0.171	0.1	0.1	0.35	0.58
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/02/73-10/26/73	21	0.74	0.615	0.97	0.24	0.06	0.245	0.256	0.345	0.775	0.926
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/02/73-10/26/73	21	0.007	0.008	0.017	0.006	0.	0.003	0.006	0.006	0.009	0.011
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	21	0.006	0.006	0.01	0.003	0.	0.002	0.004	0.004	0.008	0.01
32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	3	2.3	2.833	4.7	1.5	2.773	1.665	**	**	**	**
72025 DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	3	170.	173.333	200.	150.	633.333	25.166	**	**	**	**

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0030

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	22	7	0.32	7	2	0.29	15	5	0.33						
00400 PH	Other-Hi Lim.	9.	25	0	0.00	8	0	0.00	17	0	0.00						
	Other-Lo Lim.	6.5	25	17	0.68	8	8	1.00	17	9	0.53						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	21	0	0.00	8	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 Inventory for Station: GRSM0031

NPS Station ID: GRSM0031 LAT/LON: 35.447226/ -83.816949 Agency: 112WRD Date Created: / /
Location: LITTLE TENN R AT NC 28 BL FONTANA DAM N C
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03515007
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010204036 RF1 Mile Point: 9.080 Distance from RF1: 1.30 On/Off RF1: OFF
RF3 Index: 06010202000100.31 RF3 Mile Point: 0.31 Distance from RF3: 0.18 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0031

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/17/72-07/26/73	2	10.5	10.5	14.	7.	24.5	4.95	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	01/23/73-09/06/73	4	5.	4.5	5.	3.	1.	1.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/73-09/06/73	4	23.	23.	25.	21.	3.333	1.826	**	**	**	**
00400 PH (STANDARD UNITS)	01/23/73-09/06/73	4	6.25	6.3	6.6	6.1	0.047	0.216	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	01/23/73-09/06/73	4	6.247	6.264	6.6	6.1	0.048	0.22	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/23/73-09/06/73	4	0.566	0.544	0.794	0.251	0.053	0.229	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	01/23/73-09/06/73	4	5.2	5.475	9.1	2.4	8.542	2.923	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	01/23/73-09/06/73	4	4.5	5.	7.	4.	2.	1.414	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	01/23/73-09/06/73	4	5.5	6.25	9.	5.	3.583	1.893	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	01/23/73-05/10/73	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/23/73-09/06/73	4##	0.038	0.035	0.06	0.005	0.001	0.029	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	01/23/73-09/06/73	4	0.1	0.106	0.22	0.005	0.012	0.11	**	**	**	**
00613 NITRITE NITROGEN, DISSOLVED (MG/L AS N)	01/23/73-09/06/73	4##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)	01/23/73-09/06/73	4	0.5	0.495	0.57	0.41	0.005	0.068	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	01/23/73-05/10/73	3	0.05	0.047	0.06	0.03	0.	0.015	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	09/06/73-09/06/73	1	0.06	0.06	0.06	0.06	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	01/23/73-09/06/73	4	7.	6.5	7.	5.	1.	1.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	01/23/73-09/06/73	4	2.5	2.	3.	0.	2.	1.414	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	01/23/73-09/06/73	4	1.9	1.7	2.	1.	0.227	0.476	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	01/23/73-09/06/73	4	0.55	0.525	0.6	0.4	0.009	0.096	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	01/23/73-09/06/73	4	1.25	1.175	1.6	0.6	0.176	0.419	**	**	**	**
00931 SODIUM ADSORPTION RATIO	01/23/73-09/06/73	4	0.2	0.2	0.3	0.1	0.007	0.082	**	**	**	**
00932 SODIUM, PERCENT	01/23/73-09/06/73	4	26.5	26.	36.	15.	74.	8.602	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	01/23/73-09/06/73	4	0.6	0.625	0.9	0.4	0.049	0.222	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	01/23/73-09/06/73	4	2.	2.	2.	2.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	01/23/73-09/06/73	4	4.	3.75	5.	2.	2.25	1.5	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	01/23/73-09/06/73	4	5.75	5.9	6.5	5.6	0.167	0.408	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	01/23/73-09/06/73	3	30.	88.333	210.	25.	11108.333	105.396	**	**	**	**
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	03/15/73-09/06/73	3	100.	220.	500.	60.	59200.	243.311	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/23/73-09/06/73	4	20.	20.	27.	13.	32.667	5.715	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	01/23/73-09/06/73	4	20.5	21.	24.	19.	4.667	2.16	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	01/23/73-09/06/73	4	0.03	0.03	0.04	0.02	0.	0.008	**	**	**	**
71846 NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	01/23/73-09/06/73	3	0.23	0.18	0.28	0.03	0.018	0.132	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	01/23/73-09/06/73	4	2.2	2.175	2.5	1.8	0.089	0.299	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0031

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Other-Hi Lim.	9.	4	0	0.00	2	0	0.00	2	0	0.00						
	Other-Lo Lim.	6.5	4	3	0.75	2	2	1.00	2	1	0.50						
00613 NITRITE NITROGEN, DISSOLVED AS N	Drinking Water	1.	4	0	0.00	2	0	0.00	2	0	0.00						
00618 NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	4	0	0.00	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						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	4	0	0.00	2	0	0.00	2	0	0.00						
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	2	0	0.00	2	0	0.00						

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

Station Inventory for Station: GRSM0032

NPS Station ID: GRSM0032 LAT/LON: 35.447226/ -83.817505 Agency: 21NC01WQ Date Created: 12/03/88
Location: LAKE CHEOAH AT NC HWY 28 NR FONTANA VILLAGE NC
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9350000 /LTN032B
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 9.10 On/Off RF1:
RF3 Index: 06010204004700.57 RF3 Mile Point: 0.67 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0032

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	6	11.05	10.967	13.1	8.7	5.311	2.304	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	2	2.	2.	2.6	1.4	0.72	0.849	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	2	3.15	3.15	3.3	3.	0.045	0.212	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	6	19.	19.	20.	18.	1.2	1.095	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/27/88-08/10/94	6	9.5	9.467	9.9	9.	0.199	0.446	**	**	**	**
00400 PH (STANDARD UNITS)	07/27/88-08/10/94	6	6.55	6.6	7.3	6.1	0.28	0.529	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	07/27/88-08/10/94	6	6.422	6.381	7.3	6.1	0.338	0.581	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/88-08/10/94	6	0.378	0.416	0.794	0.05	0.13	0.361	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	2	35.	35.	40.	30.	50.	7.071	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	2	0.03	0.03	0.04	0.02	0.	0.014	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	2	0.17	0.17	0.18	0.16	0.	0.014	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32213 PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0032

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00				2	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	6	0	0.00				6	0	0.00						
00400 PH	Other-Hi Lim.	9.	6	0	0.00				6	0	0.00						
	Other-Lo Lim.	6.5	6	3	0.50				6	3	0.50						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00				2	0	0.00						

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

Station Inventory for Station: GRSM0033

NPS Station ID: GRSM0033 LAT/LON: 35.447226/ -83.817505 Agency: 21NC01WQ Date Created: 12/03/88
Location: LAKE CHEOAH AT NC HWY 28 NR FONTANA VILLAGE NC
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9350010 /LTN032BSUR
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 2.90 On/Off RF1:
RF3 Index: 06010204003607.26 RF3 Mile Point: 7.26 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0033

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	07/27/88-07/27/88	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		07/27/88-07/27/88	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/27/88-07/27/88	1	0.063	0.063	0.063	0.063	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		07/27/88-07/27/88	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00435 ACIDITY, TOTAL (MG/L AS CACO3)		07/27/88-07/27/88	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: GRSM0033

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0034

NPS Station ID: GRSM0034 LAT/LON: 35.447226/ -83.817505 Agency: 21NC01WQ Date Created: 12/03/88
Location: LAKE CHEOAH AT NC HWY 28 NEAR FONTANA VILLAGE NC
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9350020 /LTN032BBOT
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 2.90 On/Off RF1:
RF3 Index: 06010204003607.26 RF3 Mile Point: 7.26 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0034

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: GRSM0035

NPS Station ID: GRSM0035 LAT/LON: 35.447781/ -83.783338 Agency: 131TVAC Date Created: / /
Location: FONTANA RESERVOIR
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/FISH/STREAM/SOLIDS
STORET Station ID(s): 360265 /3947
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 062.50
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 62.5 ECO Region:
RF1 Index: 06010202003 RF1 Mile Point: 2.340 Distance from RF1: 0.00 On/Off RF1: ON
RF3 Index: 06010204003101.36 RF3 Mile Point: 1.62 Distance from RF3: 0.06 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0035

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00019 SAMPLE WEIGHT IN GRAMS	09/23/87-11/25/88	10	490.5	532.5	1007.	317.	41239.389	203.075	319.5	410.25	600.25	979.6
00039 SAMPLE LENGTH IN MILLIMETERS	09/23/87-11/25/88	10	408.	411.8	486.	355.	1495.067	38.666	356.4	381.75	439.5	482.4
00339 COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	06/27/73-06/27/73	1	65600.	65600.	65600.	65600.	0.	0.	**	**	**	**
00668 PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/27/73-06/27/73	1	620.	620.	620.	620.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/27/73-06/27/73	1##	1.	1.	1.	1.	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/73-06/27/73	1	130.	130.	130.	130.	0.	0.	**	**	**	**
01013 BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/73-06/27/73	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01038 COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/27/73-06/27/73	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/73-06/27/73	1	23.	23.	23.	23.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/73-06/27/73	1	33.	33.	33.	33.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/73-06/27/73	1	430.	430.	430.	430.	0.	0.	**	**	**	**
01063 MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	06/27/73-06/27/73	1##	4.	4.	4.	4.	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/73-06/27/73	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
01083 STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	06/27/73-06/27/73	1##	1.75	1.75	1.75	1.75	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/27/73-06/27/73	1##	18.	18.	18.	18.	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/27/73-06/27/73	1	90.	90.	90.	90.	0.	0.	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/27/73-06/27/73	1##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01103 TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	06/27/73-06/27/73	1##	35.5	35.5	35.5	35.5	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/27/73-06/27/73	1	16000.	16000.	16000.	16000.	0.	0.	**	**	**	**
01133 LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	06/27/73-06/27/73	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/27/73-06/27/73	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/73-06/27/73	1	27000.	27000.	27000.	27000.	0.	0.	**	**	**	**
71921 MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/73-06/27/73	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
80111 NITROGEN, TOTAL IN DRIED MATERIAL (MG/KG)	06/27/73-06/27/73	1	4300.	4300.	4300.	4300.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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 exists to compare against the data at this station. **********

Station Inventory for Station: GRSM0036

NPS Station ID: GRSM0036 LAT/LON: 35.448059/ -83.938615 Agency: 131TVAC Date Created: / /
Location: CHEOH DAM PENSTOCK
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360216 /3938
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 051.40
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 51.40 ECO Region:
RF1 Index: 06010204036 RF1 Mile Point: 0.210 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010204002013.24 RF3 Mile Point: 13.24 Distance from RF3: 0.05 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0036

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-08/12/86	819	11.	11.501	22.	4.5	15.596	3.949	7.	8.	15.	17.
00061 FLOW, STREAM, INSTANTANEOUS CFS	10/07/68-08/12/86	601	6052.	5774.2	18630.	400.	4096978.78	2024.099	2832.	4564.	7275.	7993.
00070 TURBIDITY, (JACKSON CANDLE UNITS)	02/04/74-01/17/77	38	3.5	3.595	7.3	1.	2.35	1.533	1.49	2.5	4.85	5.33
00080 COLOR (PLATINUM-COBALT UNITS)	02/04/74-01/17/77	38	5.	6.382	13.	2.	11.317	3.364	2.	4.75	10.	12.
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/04/74-01/17/77	38	14.5	14.105	25.	4.	29.718	5.451	7.	10.	17.25	23.1
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/04/74-01/17/77	38	22.5	23.921	46.	19.	24.831	4.983	19.	21.	25.25	29.3
00300p OXYGEN, DISSOLVED MG/L	10/03/61-08/12/86	820	8.05	7.791	12.	2.3	3.856	1.964	5.	6.3	9.4	10.2
00310 BOD, 5 DAY, 20 DEG C MG/L	03/18/76-11/10/76	3##	0.5	0.667	1.	0.5	0.083	0.289	**	**	**	**
00335 COD, .025N K2CR2O7 MG/L	02/04/74-01/17/77	38	3.	2.816	9.	0.5	3.844	1.96	0.5	1.	4.	6.
00400 PH (STANDARD UNITS)	02/04/74-01/17/77	38	6.4	6.339	7.3	4.4	0.197	0.443	5.88	6.2	6.6	6.71
00400 CONVERTED PH (STANDARD UNITS)	02/04/74-01/17/77	38	6.4	5.807	7.3	4.4	0.488	0.698	5.88	6.2	6.6	6.71
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/04/74-01/17/77	38	0.398	1.559	39.811	0.05	40.838	6.39	0.195	0.251	0.631	1.333
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	02/04/74-01/17/77	37	6.	5.676	16.	0.	6.614	2.572	3.6	4.	6.5	8.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/04/74-01/17/77	37	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/04/74-01/17/77	37	1.	1.541	10.	0.5	3.13	1.769	0.5	0.5	2.	4.
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/04/74-01/17/77	38	0.065	0.079	0.38	0.005	0.005	0.069	0.01	0.048	0.103	0.144
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/04/74-01/17/77	38	0.03	0.048	0.21	0.005	0.002	0.047	0.01	0.01	0.07	0.13
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/04/74-01/17/77	38	0.21	0.272	0.56	0.1	0.018	0.134	0.13	0.15	0.393	0.49
00665 PHOSPHORUS, TOTAL (MG/L AS P)	02/04/74-01/17/77	38	0.01	0.016	0.06	0.005	0.	0.012	0.005	0.009	0.02	0.03
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	04/19/76-04/19/76	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	02/04/74-01/17/77	37	2.	1.865	5.	0.5	0.87	0.933	0.5	1.	2.	3.
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/04/74-01/17/77	37	0.6	0.584	0.9	0.3	0.015	0.121	0.4	0.5	0.65	0.7
00929 SODIUM, TOTAL (MG/L AS NA)	02/04/74-01/17/77	36	1.25	1.422	2.9	0.9	0.288	0.537	0.97	1.1	1.575	2.66
00937 POTASSIUM, TOTAL MG/L AS K)	02/04/74-01/17/77	36	0.6	0.619	1.	0.4	0.015	0.121	0.5	0.5	0.7	0.8
00940 CHLORIDE,TOTAL IN WATER MG/L	02/04/74-01/17/77	38	2.	2.316	4.	2.	0.33	0.574	2.	2.	3.	3.
00945 SULFATE, TOTAL (MG/L AS SO4)	02/04/74-01/17/77	37	2.	1.959	11.	0.5	3.394	1.842	0.5	0.75	2.	4.
00951 FLUORIDE, TOTAL (MG/L AS F)	02/04/74-01/17/77	35##	0.05	0.043	0.05	0.01	0.	0.012	0.02	0.03	0.05	0.05
00955 SILICA, DISSOLVED (MG/L AS SIO2)	03/17/75-01/17/77	23	6.5	6.404	7.2	4.6	0.302	0.55	5.8	6.2	6.7	7.08
00956 SILICA, TOTAL (MG/L AS SIO2)	02/04/74-02/18/75	15	6.7	6.613	8.1	4.6	0.633	0.795	5.44	6.2	6.9	7.8
01045 IRON, TOTAL (UG/L AS FE)	02/04/74-01/17/77	36	195.	245.	940.	50.	31380.	177.144	71.	142.5	307.5	460.
01055 MANGANESE, TOTAL (UG/L AS MN)	02/04/74-01/17/77	36	30.	52.361	160.	5.	1877.837	43.334	20.	22.5	75.	133.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-05/17/78	4##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-05/17/78	4##	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.								
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	02/04/74-01/17/77	37	7.	6.77	15.	2.	6.717	2.592	2.5	5.	7.5	10.
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/04/74-01/17/77	37	20.	24.865	80.	10.	203.453	14.264	10.	20.	30.	34.

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

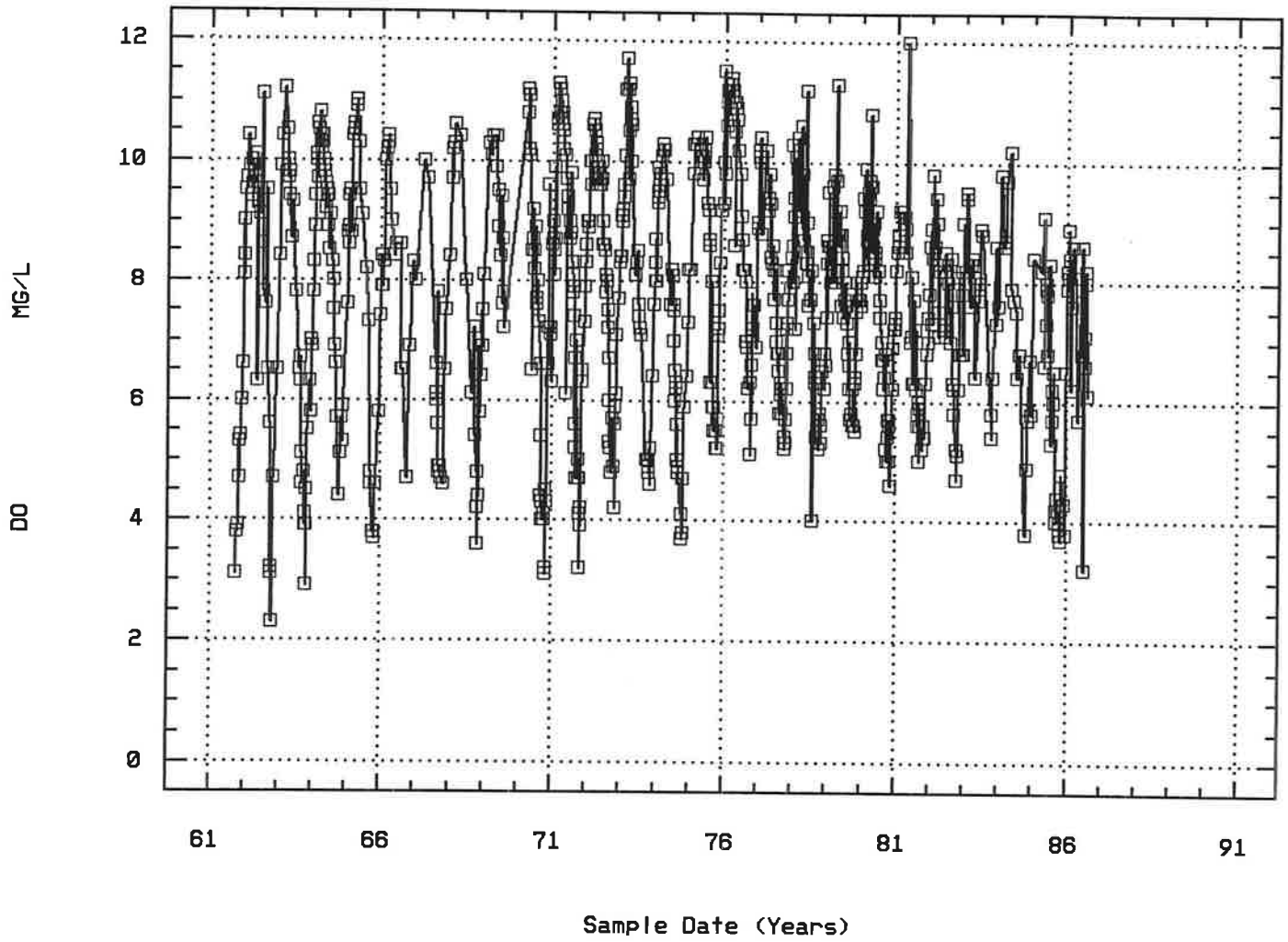
EPA Water Quality Criteria Analysis for Station: GRSM0036

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	38	0	0.00	20	0	0.00	18	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	820	32	0.04	430	27	0.06	390	5	0.01						
00400 PH	Other-Hi Lim.	9.	38	0	0.00	20	0	0.00	18	0	0.00						
	Other-Lo Lim.	6.5	38	28	0.74	20	14	0.70	18	14	0.78						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	38	0	0.00	20	0	0.00	18	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	38	0	0.00	20	0	0.00	18	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	37	0	0.00	19	0	0.00	18	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	4	0	0.00	2	0	0.00	2	0	0.00						

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

Station: GRSM0036 Parameter Code: 00300

OXYGEN, DISSOLVED



CHEOH DAM PENSTOCK

Annual Analysis for 1961 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	9	15.5	14.667	17.5	10.	6.375	2.525	10.	12.5	16.75	17.5
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	9	5.3	5.311	9.	3.1	3.161	1.778	3.1	3.85	6.3	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 1962 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	31	10.	10.616	18.	6.1	11.498	3.391	7.	7.5	12.	16.8
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	30	9.25	8.143	11.1	2.3	5.48	2.341	3.35	6.5	9.7	10.09

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	29	11.	11.421	19.	5.	23.165	4.813	5.5	7.	16.	18.5
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	29	6.9	7.234	11.2	2.9	5.974	2.444	3.9	4.95	9.75	10.4

** - 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 1964 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	39	8.5	9.333	16.	4.5	12.899	3.592	5.	6.	13.	15.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	39	9.2	8.623	10.8	4.4	3.093	1.759	5.7	7.6	10.	10.4

** - 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 1965 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	26	9.5	11.038	17.5	6.	14.638	3.826	6.7	8.	15.	17.15
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	25	8.8	7.764	11.	3.7	6.696	2.588	3.8	4.7	9.9	10.72

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	18	9.	9.417	18.	6.	10.949	3.309	6.	6.375	11.25	13.95
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	18	8.4	8.356	10.4	4.7	2.277	1.509	6.32	7.65	9.625	10.31

** - 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 1967 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	16	10.5	11.3	17.	7.	9.733	3.12	7.7	9.125	13.95	17.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	16	6.3	6.631	10.	4.6	3.124	1.767	4.67	4.9	7.95	9.79

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	15	9.	9.933	16.	5.5	12.245	3.499	5.8	6.5	13.	14.8
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	1	3600.	3600.	3600.	3600.	0.	0.	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	18	6.9	7.133	10.6	3.6	5.3	2.302	4.14	5.25	9.825	10.42

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	14	8.5	7.871	10.1	5.	3.01	1.735	5.	6.	9.275	9.85
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	15	9.4	9.12	10.4	7.2	1.21	1.1	7.44	8.1	10.1	10.4

** - 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 1970 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	36	11.	11.925	19.	7.3	12.968	3.601	8.2	9.	15.75	17.3
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	14	4225.5	4071.	6289.	1348.	2135739.538	1461.417	1677.	2814.	5150.75	5981.5
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	36	7.25	7.064	11.2	3.1	5.531	2.352	4.	4.425	8.675	10.38

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

Annual Analysis for 1971 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	52	9.	10.215	18.	5.	15.422	3.927	6.	7.	13.	16.85
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	51	5804.	5285.294	8347.	1200.	3771482.412	1942.03	2628.2	3460.	6878.	7454.8
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	51	8.6	8.125	11.3	3.2	4.977	2.231	4.7	6.5	10.1	10.78

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	48	11.	11.333	18.	7.	9.461	3.076	7.	9.25	13.	17.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	49	6324.	5767.367	10400.	1260.	4603235.154	2145.515	1796.	4564.	7367.	8009.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	48	8.75	8.335	10.7	4.2	3.354	1.831	5.29	7.125	9.875	10.32

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	34	11.	11.735	18.	8.	13.594	3.687	8.	8.	15.	18.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	34	7143.	6680.794	10880.	1040.	3571277.502	1889.782	4316.5	5244.5	7740.25	8034.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	34	8.75	8.353	11.7	4.6	4.894	2.212	4.95	6.925	10.2	11.2

** - 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 1974 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	39	13.9	13.533	19.	8.9	12.685	3.562	9.	10.	17.	19.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	40	7214.	7047.4	10650.	864.	5199467.785	2280.234	4836.5	6054.	8107.	10534.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	38	7.8	7.584	10.3	3.7	4.253	2.062	4.64	5.975	9.55	10.2

** - 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 1975 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	34	13.5	13.912	20.	8.	13.477	3.671	9.5	11.	18.	19.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	34	6176.5	6029.676	8181.	2241.	2357308.468	1535.353	3950.5	5079.25	7220.25	8079.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	34	8.95	8.388	11.5	5.2	3.615	1.901	5.5	6.3	10.125	10.35

** - 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 1976 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	45	10.	11.684	19.	6.	16.451	4.056	7.	8.	15.25	18.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	43	5857.	5679.814	8236.	476.	3808936.726	1951.65	2957.4	4441.	7610.	8079.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	42	8.85	8.924	11.4	5.1	3.621	1.903	6.39	7.075	10.925	11.2

** - 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 1977 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	40	13.	12.463	18.	4.5	17.659	4.202	6.05	8.375	16.	17.9
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	41	6458.	5916.659	8225.	1426.	3894617.43	1973.479	2230.8	4804.	7651.5	8130.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	41	7.7	7.759	10.4	5.2	2.497	1.58	5.72	6.25	9.05	10.18

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

Annual Analysis for 1978 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	45	9.	10.542	18.	5.	17.232	4.151	6.	7.	14.5	17.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	45	5733.	5871.733	8360.	2062.	2844416.291	1686.54	3556.2	4645.	7352.5	8079.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	45	8.1	7.827	11.2	4.	2.999	1.732	5.36	6.35	9.2	9.98

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	50	11.5	12.14	18.	7.	12.684	3.561	8.	9.	15.125	17.5
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	48	6589.5	6107.833	8236.	1826.	2171615.716	1473.64	3621.6	5229.75	7077.75	7616.7
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	50	8.	7.812	11.3	5.5	1.594	1.262	5.84	6.8	8.625	9.47

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

Annual Analysis for 1980 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	46	11.	11.685	18.	6.	15.071	3.882	7.	8.	15.	18.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	46	6218.5	5517.848	8130.	1845.	3206512.665	1790.674	2430.8	4163.5	7136.	7503.3
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	46	8.1	7.722	10.8	4.6	2.406	1.551	5.34	6.625	9.	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 GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	38	11.	11.895	21.	5.	15.502	3.937	6.9	8.75	15.	17.1
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	38	4618.	4454.526	7993.	400.	4141397.553	2035.042	1644.3	2837.5	6055.	7027.3
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	38	7.05	7.261	12.	5.	2.451	1.566	5.4	5.875	8.525	9.2

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

Annual Analysis for 1982 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	35	11.	11.429	18.	5.	19.37	4.401	5.	7.	16.	17.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	37	7172.	6607.297	18630.	1554.	7514804.992	2741.314	2738.	4990.	7968.5	8002.8
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	37	7.8	7.495	9.8	4.7	1.624	1.275	5.18	6.8	8.4	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 1983 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	18	11.5	11.167	18.	7.	10.5	3.24	7.	8.5	12.25	16.2
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	18	5998.5	5542.833	7928.	1200.	2910918.735	1706.141	3511.2	4157.25	7044.25	7701.2
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	18	8.05	7.817	9.5	5.4	1.364	1.168	5.76	7.075	8.65	9.41

** - 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 1984 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	17	11.	12.524	22.	7.	25.097	5.01	7.	8.	16.	21.2
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	17	6729.	6359.412	8876.	869.	3201305.257	1789.219	4042.6	5523.	7437.5	8208.8
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	17	7.5	7.276	10.2	3.8	3.182	1.784	4.68	5.85	8.65	9.88

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

Annual Analysis for 1985 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	26	14.	14.423	21.	8.	16.494	4.061	9.	11.75	18.	20.3
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	27	4799.	4937.481	7993.	1964.	2465209.49	1570.099	2999.6	3907.	6060.	7498.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	27	6.	5.907	9.1	3.7	3.137	1.771	3.78	4.2	7.8	8.32

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

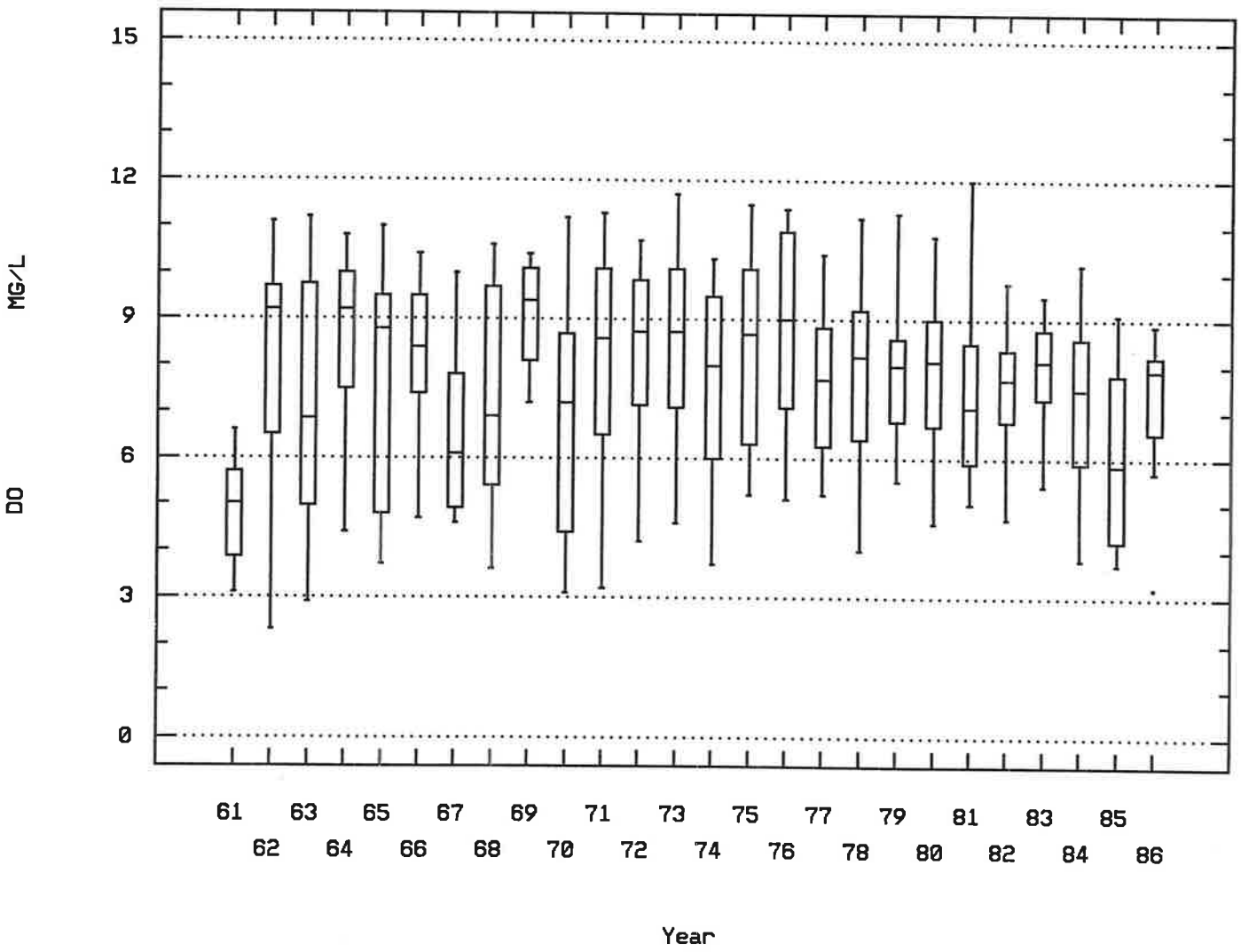
Annual Analysis for 1986 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	19	10.	9.368	12.	7.	3.579	1.892	7.	7.	11.	12.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	18	4276.	5029.	7866.	1981.	3325946.	1823.718	3127.6	3723.	6767.	7678.8
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	19	7.9	7.379	8.9	3.2	1.891	1.375	5.7	6.6	8.2	8.6

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

Station: GRSM0036 Parameter Code: 00300

OXYGEN, DISSOLVED



CHEOH DAM PENSTOCK

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	425	11.	11.513	22.	4.5	21.298	4.615	6.	7.	16.	18.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	317	6291.	6009.874	18630.	476.	4473058.263	2114.961	3284.8	4779.5	7454.	8059.
00300 OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	430	8.	7.631	11.7	2.3	4.759	2.182	4.6	5.7	9.5	10.4

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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0036

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-08/12/86	394	11.	11.488	20.	6.2	9.483	3.079	8.	9.	14.	16.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	10/07/68-08/12/86	284	5736.5	5511.141	8876.	400.	3559862.765	1886.76	2492.	4407.25	7047.75	7830.
00300 OXYGEN, DISSOLVED	MG/L	10/03/61-08/12/86	390	8.1	7.967	12.	3.2	2.81	1.676	5.71	6.7	9.2	10.1

** - 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

Station Inventory for Station: GRSM0037

NPS Station ID: GRSM0037 LAT/LON: 35.448337/ -83.818338 Agency: 21NC01WQ Date Created: / /
Location: LITTLE TENNESSEE RIVER @ FONTANA INACTIVE 810309 FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G9300000 /LTN032 /040402007 /03515007
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204036 RF1 Mile Point: 9.080 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202000100.33 RF3 Mile Point: 0.32 Distance from RF3: 0.10 On/Off RF3:
Description:
LOCATION: FROM FONTANA VILLAGE TRAVEL W ON NC 23 TO FIRST CONCRETE BRIDGE CROSSING LITTLE TENNESSEE RIVER. LOCATED TO DEFINE QUALITY OF WATER FROM FONTANA VILLAGE WTP. SAMPLED AT MID DEPTH AT MID & QUARTER POINTS AT DWNSTRM SIDE OF BRIDGE BY OWAR. ACTIVATION DATE 680514.

Parameter Inventory for Station: GRSM0037

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-03/12/81	89	13.	12.461	21.	5.	13.319	3.65	8.	10.	15.	17.
00023	SAMPLE WEIGHT IN POUNDS		06/20/68-11/21/74	12	14.	13.75	21.	10.	7.659	2.768	10.	13.	14.	19.2
00060	FLOW, STREAM, MEAN DAILY	CFS	06/20/68-08/24/71	9	5044.	5119.333	7700.	1500.	3618002.25	1902.105	1500.	3890.5	6730.	7700.
00065	STAGE, STREAM (FEET)		05/29/74-09/19/78	8	5900.	6175.	9000.	3100.	6139285.714	2477.758	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		06/20/68-03/12/81	64	5.	6.363	20.	1.2	17.492	4.182	2.1	4.	8.15	12.5
00077	TRANSPARENCY, SECCHI DISC (INCHES)		05/29/74-05/29/74	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/29/74-03/12/81	47	21.	34.511	230.	5.	1343.951	36.66	17.	20.	40.	80.
00300	OXYGEN, DISSOLVED	MG/L	06/20/68-03/12/81	87	9.2	8.946	12.9	1.6	3.574	1.891	6.46	7.7	10.3	11.02
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	06/20/68-07/18/78	50	84.5	82.18	113.	18.	312.681	17.683	61.1	73.	94.25	103.5
00310	BOD, 5 DAY, 20 DEG C	MG/L	11/26/73-03/12/81	78	0.5	0.637	3.9	0.1	0.302	0.549	0.2	0.3	0.7	1.03
00335	COD, .025N K2CR2O7	MG/L	11/26/73-12/05/73	2##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00340	COD, .25N K2CR2O7	MG/L	04/02/74-03/12/81	74##	5.	6.419	12.5	5.	8.747	2.957	5.	5.	5.	12.5
00400	PH (STANDARD UNITS)		06/20/68-03/12/81	77	6.6	6.456	7.2	3.7	0.21	0.458	6.	6.25	6.7	6.8
00400	CONVERTED PH (STANDARD UNITS)		06/20/68-03/12/81	77	6.6	5.514	7.2	3.7	1.108	1.052	6.	6.25	6.7	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-03/12/81	77	0.251	3.059	199.526	0.063	515.117	22.696	0.158	0.2	0.566	1.
00403	PH, LAB, STANDARD UNITS	SU	11/15/79-03/12/81	17	6.6	6.618	6.8	6.5	0.01	0.101	6.5	6.5	6.7	6.8
00403	CONVERTED PH, LAB, STANDARD UNITS		11/15/79-03/12/81	17	6.6	6.607	6.8	6.5	0.01	0.102	6.5	6.5	6.7	6.8
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/15/79-03/12/81	17	0.251	0.247	0.316	0.158	0.003	0.055	0.158	0.2	0.316	0.316
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-03/12/81	89	7.	7.135	20.	3.	5.845	2.418	5.	6.	7.	9.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		06/20/68-09/08/80	71	0.	1.31	35.	0.	36.76	6.063	0.	0.	0.	0.
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)		09/08/80-12/11/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)		06/25/80-03/12/81	5	7.	7.2	11.	4.	6.7	2.588	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)		05/15/69-03/12/81	25	30.	30.04	58.	6.	161.79	12.72	12.	19.5	40.5	44.
00505	RESIDUE, TOTAL VOLATILE (MG/L)		06/25/73-06/25/73	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)		06/25/73-06/25/73	1	25.	25.	25.	25.	0.	0.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L		06/25/73-11/21/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)		12/08/70-12/08/70	1##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)		06/20/68-03/12/81	22	4.	3.182	7.	0.	6.013	2.452	0.15	0.5	5.	7.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)		06/25/73-06/25/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)		06/25/73-06/25/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00546	RESIDUE, SETTLEABLE (MG/L)		06/25/73-06/25/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)		06/25/73-11/21/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/28/75-03/12/81	44##	0.025	0.031	0.12	0.025	0.	0.02	0.025	0.025	0.025	0.055

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

Parameter Inventory for Station: GRSM0037

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	45	0.1	0.111	0.4	0.05	0.007	0.085	0.05	0.05	0.1	0.24
00630 NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)	05/29/74-03/12/81	45	0.18	0.187	0.53	0.09	0.006	0.078	0.13	0.14	0.2	0.23
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	06/20/68-11/21/74	12	8.65	8.225	10.3	1.6	5.493	2.344	3.31	7.525	10.	10.27
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	05/28/75-05/28/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	54##	0.025	0.039	0.1	0.025	0.001	0.029	0.025	0.025	0.025	0.1
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	06/21/79-12/11/80	7##	5.	5.	5.	5.	0.	0.	**	**	**	**
00740 SULFITE (MG/L AS SO3)	06/25/73-11/21/74	2	1.	1.	2.	0.	2.	1.414	**	**	**	**
00745 SULFIDE, TOTAL (MG/L AS S)	06/20/68-07/28/71	9##	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1
00916 CALCIUM, TOTAL (MG/L AS CA)	05/17/77-03/13/79	4	6.7	9.9	25.	1.2	126.787	11.26	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	05/17/77-05/17/77	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	06/20/68-07/28/71	9##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00951 FLUORIDE, TOTAL (MG/L AS F)	06/25/73-06/25/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	06/25/73-11/21/74	2	157.5	157.5	225.	90.	9112.5	95.459	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	05/29/74-12/11/80	16##	5.	5.313	10.	5.	1.563	1.25	5.	5.	5.	6.5
01027 CADMIUM, TOTAL (UG/L AS CD)	05/29/74-03/12/81	17##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	06/25/73-11/21/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	05/29/74-03/12/81	17##	25.	25.	25.	25.	0.	0.	25.	25.	25.	25.
01037 COBALT, TOTAL (UG/L AS CO)	05/29/74-03/12/81	17##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01040 COPPER, DISSOLVED (UG/L AS CU)	06/25/73-11/21/74	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	05/29/74-03/12/81	17##	20.	145.882	2100.	20.	253638.235	503.625	20.	20.	30.	452.
01045 IRON, TOTAL (UG/L AS FE)	05/29/74-03/12/81	17	100.	136.176	400.	25.	9467.279	97.3	45.	75.	195.	320.
01051 LEAD, TOTAL (UG/L AS PB)	05/29/74-03/12/81	17##	50.	58.824	100.	50.	386.029	19.648	50.	50.	50.	100.
01055 MANGANESE, TOTAL (UG/L AS MN)	05/29/74-03/12/81	16##	25.	50.625	200.	25.	2216.25	47.077	25.	25.	67.5	137.
01065 NICKEL, DISSOLVED (UG/L AS NI)	06/25/73-06/25/73	1	25.	25.	25.	25.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	05/17/77-03/12/81	4##	50.	87.5	200.	50.	5625.	75.	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)	06/25/73-06/25/73	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	05/29/74-03/12/81	17##	25.	414.412	6000.	25.	2076977.757	1441.172	25.	25.	110.	1416.
01132 LITHIUM, TOTAL (UG/L AS LI)	06/25/73-11/21/74	2	25.	25.	50.	0.	1250.	35.355	**	**	**	**
31508 COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/21/74	12	6.	6.25	7.	5.	0.386	0.622	5.3	6.	7.	7.
31508 LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/21/74	12	0.778	0.794	0.845	0.699	0.002	0.044	0.723	0.778	0.845	0.845
31508 GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.			GEOMETRIC MEAN =	6.221								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	78##	5.	6.603	40.	5.	29.541	5.435	5.	5.	5.	10.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	78##	0.699	0.763	1.602	0.699	0.032	0.179	0.699	0.699	0.699	1.
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	5.794								
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID, METH.	06/25/73-11/21/74	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/20/68-11/21/74	12	79.	78.	98.	18.	454.364	21.316	33.6	71.75	94.5	97.7
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	02/28/78-02/28/78	1	0.	0.	0.	0.	0.	0.	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/28/71-11/21/74	5	23.	32.6	57.	10.	398.3	19.957	**	**	**	**
70305 SALINITY BASED ON CONDUCTIVITY	05/29/74-12/08/75	4	0.35	0.4	0.9	0.	0.22	0.469	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	12/14/76-03/12/81	28##	0.025	0.026	0.05	0.025	0.	0.005	0.025	0.025	0.025	0.025
71900 MERCURY, TOTAL (UG/L AS HG)	12/08/70-03/12/81	18##	0.25	0.269	0.6	0.25	0.007	0.082	0.25	0.25	0.25	0.285
72034 FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	12/08/75-03/12/81	53	5500.	7885.34	92500.	0.	182948788.421	13525.856	0.	3600.	7950.	8900.

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

EPA Water Quality Criteria Analysis for Station: GRSM0037

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	64	0	0.00	27	0	0.00	37	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	87	1	0.01	39	1	0.03	48	0	0.00						
00400 PH	Other-Hi Lim.	9.	77	0	0.00	33	0	0.00	44	0	0.00						
	Other-Lo Lim.	6.5	77	37	0.48	33	11	0.33	44	26	0.59						
00403 PH, LAB	Other-Hi Lim.	9.	17	0	0.00	11	0	0.00	6	0	0.00						
	Other-Lo Lim.	6.5	17	5	0.29	11	2	0.18	6	3	0.50						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	45	0	0.00	22	0	0.00	23	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	9	0	0.00	2	0	0.00	7	0	0.00						
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00	1	0	0.00						
	Drinking Water	50.	2	2	1.00	1	1	1.00	1	1	1.00						
01002 ARSENIC, TOTAL	Fresh Acute	360.	16	0	0.00	7	0	0.00	9	0	0.00						
	Drinking Water	50.	16	0	0.00	7	0	0.00	9	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRSM0037

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0&	0	0.00												
	Drinking Water	5.	0&	0	0.00												
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01034 CHROMIUM, TOTAL	Drinking Water	100.	17	0	0.00	8	0	0.00	9	0	0.00						
01040 COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00	1	0	0.00	1	0	0.00						
	Drinking Water	1300.	2	0	0.00	1	0	0.00	1	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	4&	4	1.00	1	1	1.00	3	3	1.00						
	Drinking Water	1300.	17	1	0.06	8	0	0.00	9	1	0.11						
01051 LEAD, TOTAL	Fresh Acute	82.	17	3	0.18	8	2	0.25	9	1	0.11						
	Drinking Water	5.	3&	3	1.00	2	2	1.00	1	1	1.00						
01065 NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01067 NICKEL, TOTAL	Fresh Acute	1400.	4	0	0.00	3	0	0.00	1	0	0.00						
	Drinking Water	100.	4	1	0.25	3	0	0.00	1	1	1.00						
01075 SILVER, DISSOLVED	Fresh Acute	4.1	0&	0	0.00												
	Drinking Water	50.	1	0	0.00				1	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	17	4	0.24	8	0	0.00	9	4	0.44						
31508 COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	12	0	0.00	3	0	0.00	9	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	78	0	0.00	38	0	0.00	40	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	18	0	0.00	9	0	0.00	9	0	0.00						
	Drinking Water	2.	18	0	0.00	9	0	0.00	9	0	0.00						

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

Annual Analysis for 1968 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-03/12/81	2	11.5	11.5	13.	10.	4.5	2.121	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	06/20/68-03/12/81	2	8.55	8.55	9.7	7.4	2.645	1.626	**	**	**	**
00400 PH (STANDARD UNITS)		06/20/68-03/12/81	2	6.	6.	6.1	5.9	0.02	0.141	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		06/20/68-03/12/81	2	5.989	5.989	6.1	5.9	0.02	0.142	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-03/12/81	2	1.027	1.027	1.259	0.794	0.108	0.329	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-03/12/81	2	6.5	6.5	7.	6.	0.5	0.707	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		06/20/68-09/08/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		06/20/68-03/12/81	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 1969 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-03/12/81	2	15.5	15.5	21.	10.	60.5	7.778	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	06/20/68-03/12/81	2	5.25	5.25	8.9	1.6	26.645	5.162	**	**	**	**
00400 PH (STANDARD UNITS)		06/20/68-03/12/81	2	6.1	6.1	6.2	6.	0.02	0.141	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		06/20/68-03/12/81	2	6.089	6.089	6.2	6.	0.02	0.142	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-03/12/81	2	0.815	0.815	1.	0.631	0.068	0.261	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-03/12/81	2	7.	7.	7.	7.	0.	0.	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		06/20/68-09/08/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		06/20/68-03/12/81	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 1970 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-03/12/81	3	14.	13.667	14.	13.	0.333	0.577	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	06/20/68-03/12/81	3	10.1	9.233	10.3	7.3	2.813	1.677	**	**	**	**
00400 PH (STANDARD UNITS)		06/20/68-03/12/81	3	6.	6.1	7.1	5.2	0.91	0.954	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		06/20/68-03/12/81	3	6.	5.609	7.1	5.2	1.272	1.128	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-03/12/81	3	1.	2.463	6.31	0.079	11.309	3.363	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-03/12/81	3	6.	9.667	20.	3.	82.333	9.074	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		06/20/68-09/08/80	3	0.	1.667	5.	0.	8.333	2.887	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		06/20/68-03/12/81	3##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

Annual Analysis for 1971 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-03/12/81	3	14.	14.333	15.	14.	0.333	0.577	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	06/20/68-03/12/81	3	8.9	9.	10.2	7.9	1.33	1.153	**	**	**	**
00400 PH (STANDARD UNITS)		06/20/68-03/12/81	3	6.2	6.3	6.6	6.1	0.07	0.265	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		06/20/68-03/12/81	3	6.2	6.253	6.6	6.1	0.073	0.271	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-03/12/81	3	0.631	0.559	0.794	0.251	0.078	0.279	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-03/12/81	3	5.	5.	6.	4.	1.	1.	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		06/20/68-09/08/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		06/20/68-03/12/81	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 1973 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-03/12/81	3	15.	15.	17.	13.	4.	2.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	06/20/68-03/12/81	3	7.8	7.	8.4	4.8	3.72	1.929	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C	MG/L	11/26/73-03/12/81	2	1.45	1.45	2.4	0.5	1.805	1.344	**	**	**	**
00400 PH (STANDARD UNITS)		06/20/68-03/12/81	3	5.9	6.333	7.2	5.9	0.563	0.751	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		06/20/68-03/12/81	3	5.9	6.065	7.2	5.9	0.671	0.819	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-03/12/81	3	1.259	0.86	1.259	0.063	0.477	0.69	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-03/12/81	3	6.	6.	6.	6.	0.	0.	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		06/20/68-09/08/80	3	31.	22.	35.	0.	367.	19.157	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	3##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	3##	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 1974 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-03/12/81	8	14.	14.5	18.	12.	4.	2.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	06/20/68-03/12/81	8	8.45	8.012	10.5	4.5	3.533	1.88	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C	MG/L	11/26/73-03/12/81	7	0.9	0.943	1.3	0.6	0.076	0.276	**	**	**	**
00340 COD, .25N K2CR207	MG/L	04/02/74-03/12/81	5##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		06/20/68-03/12/81	7	6.2	6.257	6.5	6.1	0.023	0.151	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		06/20/68-03/12/81	7	6.2	6.236	6.5	6.1	0.023	0.153	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-03/12/81	7	0.631	0.581	0.794	0.316	0.034	0.185	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-03/12/81	7	5.	5.857	8.	4.	2.476	1.574	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		06/20/68-09/08/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		05/29/74-03/12/81	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		05/29/74-03/12/81	1	0.48	0.48	0.48	0.48	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		06/20/68-03/12/81	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	7##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	7##	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.									

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Annual Analysis for 1975 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-03/12/81	9	12.	12.	18.	8.	10.75	3.279	8.	9.5	14.	18.
00300 OXYGEN, DISSOLVED	MG/L	06/20/68-03/12/81	9	10.4	9.756	12.9	5.4	4.408	2.099	5.4	8.55	10.85	12.9
00310 BOD, 5 DAY, 20 DEG C	MG/L	11/26/73-03/12/81	9	0.6	0.6	1.3	0.2	0.108	0.328	0.2	0.4	0.75	1.3
00340 COD, .25N K2CR207	MG/L	04/02/74-03/12/81	9##	12.5	12.5	12.5	12.5	0.	0.	12.5	12.5	12.5	12.5
00400 PH (STANDARD UNITS)		06/20/68-03/12/81	9	6.3	6.111	6.9	3.7	0.934	0.966	3.7	6.	6.75	6.9
00400 CONVERTED PH (STANDARD UNITS)		06/20/68-03/12/81	9	6.3	4.645	6.9	3.7	3.35	1.83	3.7	6.	6.75	6.9
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-03/12/81	9	0.501	22.625	199.526	0.126	4400.863	66.339	0.126	0.179	1.	199.526
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-03/12/81	9	9.	9.778	16.	6.	9.694	3.114	6.	7.5	12.	16.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		06/20/68-09/08/80	8	0.	2.75	22.	0.	60.5	7.778	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/28/75-03/12/81	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		05/29/74-03/12/81	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		05/29/74-03/12/81	1	0.23	0.23	0.23	0.23	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		06/20/68-03/12/81	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	9##	5.	5.556	10.	5.	2.778	1.667	5.	5.	5.	10.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	9##	0.699	0.732	1.	0.699	0.01	0.1	0.699	0.699	0.699	1.
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		5.4									
72034 FLOW, INSTANTANEOUS SPILLWAY DISCHARGE	CFS	12/08/75-03/12/81	1	4700.	4700.	4700.	4700.	0.	0.	**	**	**	**

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Annual Analysis for 1976 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-03/12/81	11	12.	11.818	18.	7.	12.364	3.516	7.2	8.	15.	17.6
00300 OXYGEN, DISSOLVED	MG/L	06/20/68-03/12/81	10	8.75	8.53	10.8	6.2	2.725	1.651	6.21	7.05	10.05	10.74
00310 BOD, 5 DAY, 20 DEG C	MG/L	11/26/73-03/12/81	11	0.7	0.691	1.3	0.3	0.079	0.281	0.3	0.5	0.8	1.22
00340 COD, .25N K2CR207	MG/L	04/02/74-03/12/81	11##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400 PH (STANDARD UNITS)		06/20/68-03/12/81	11	6.7	6.655	6.9	6.	0.061	0.246	6.1	6.6	6.8	6.88
00400 CONVERTED PH (STANDARD UNITS)		06/20/68-03/12/81	11	6.7	6.568	6.9	6.	0.069	0.263	6.1	6.6	6.8	6.88
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-03/12/81	11	0.2	0.271	1.	0.126	0.062	0.248	0.132	0.158	0.251	0.863
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-03/12/81	11	7.	7.909	16.	6.	7.691	2.773	6.2	7.	7.	14.6
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		06/20/68-09/08/80	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/28/75-03/12/81	2##	0.063	0.063	0.1	0.025	0.003	0.053	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		05/29/74-03/12/81	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		05/29/74-03/12/81	2	0.155	0.155	0.17	0.14	0.	0.021	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		06/20/68-03/12/81	2##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	11##	5.	12.727	40.	5.	146.818	12.117	5.	5.	20.	38.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	11##	0.699	0.961	1.602	0.699	0.121	0.348	0.699	0.699	1.301	1.577
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN = 9.147											
72034 FLOW, INSTANTANEOUS SPILLWAY DISCHARGE	CFS	12/08/75-03/12/81	10	5200.	5050.	8900.	0.	10838333.333	3292.162	0.	2700.	8375.	8900.

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Annual Analysis for 1977 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-03/12/81	11	16.	14.364	20.	5.	21.255	4.61	5.8	10.	18.	19.6
00300 OXYGEN, DISSOLVED	MG/L	06/20/68-03/12/81	11	9.4	9.318	11.6	6.2	2.874	1.695	6.38	7.7	10.5	11.54
00310 BOD, 5 DAY, 20 DEG C	MG/L	11/26/73-03/12/81	11	0.6	0.673	2.3	0.1	0.342	0.585	0.14	0.3	0.7	2.02
00340 COD, .25N K2CR207	MG/L	04/02/74-03/12/81	11##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400 PH (STANDARD UNITS)		06/20/68-03/12/81	11	6.6	6.582	6.7	6.3	0.02	0.14	6.32	6.5	6.7	6.7
00400 CONVERTED PH (STANDARD UNITS)		06/20/68-03/12/81	11	6.6	6.56	6.7	6.3	0.02	0.142	6.32	6.5	6.7	6.7
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-03/12/81	11	0.251	0.276	0.501	0.2	0.01	0.1	0.2	0.2	0.316	0.481
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-03/12/81	11	6.	6.455	8.	5.	0.673	0.82	5.2	6.	7.	7.8
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		06/20/68-09/08/80	10	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/28/75-03/12/81	9##	0.025	0.031	0.08	0.025	0.	0.018	0.025	0.025	0.025	0.08
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		05/29/74-03/12/81	9	0.1	0.139	0.4	0.05	0.011	0.105	0.05	0.1	0.15	0.4
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		05/29/74-03/12/81	9	0.2	0.22	0.53	0.13	0.015	0.121	0.13	0.155	0.22	0.53
00665 PHOSPHORUS, TOTAL (MG/L AS P)		06/20/68-03/12/81	9##	0.025	0.033	0.1	0.025	0.001	0.025	0.025	0.025	0.025	0.1
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	11##	5.	5.455	10.	5.	2.273	1.508	5.	5.	5.	9.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	11##	0.699	0.726	1.	0.699	0.008	0.091	0.699	0.699	0.699	0.94
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN = 5.325											
72034 FLOW, INSTANTANEOUS SPILLWAY DISCHARGE	CFS	12/08/75-03/12/81	7	7000.	10314.286	38000.	0.	157361428.571	12544.378	**	**	**	**

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Annual Analysis for 1978 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-03/12/81	12	10.5	11.667	17.	5.	15.697	3.962	5.9	8.25	15.75	16.7
00300 OXYGEN, DISSOLVED	MG/L	06/20/68-03/12/81	11	10.3	9.873	12.1	6.5	4.126	2.031	6.58	7.9	11.7	12.06
00310 BOD, 5 DAY, 20 DEG C	MG/L	11/26/73-03/12/81	12	0.35	0.425	1.	0.1	0.086	0.293	0.1	0.225	0.625	0.97
00340 COD, .25N K2CR207	MG/L	04/02/74-03/12/81	12##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400 PH (STANDARD UNITS)		06/20/68-03/12/81	12	6.75	6.708	6.9	6.5	0.015	0.124	6.53	6.6	6.8	6.87
00400 CONVERTED PH (STANDARD UNITS)		06/20/68-03/12/81	12	6.747	6.692	6.9	6.5	0.016	0.125	6.53	6.6	6.8	6.87
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-03/12/81	12	0.179	0.203	0.316	0.126	0.003	0.059	0.136	0.158	0.251	0.297
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-03/12/81	12	7.	6.583	8.	4.	1.356	1.165	4.3	6.	7.	8.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		06/20/68-09/08/80	6	0.	0.	0.	0.	0.	0.	**	**	**	**

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Annual Analysis for 1978 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/28/75-03/12/81	10##	0.025	0.028	0.05	0.025	0.	0.008	0.025	0.025	0.025	0.048
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		05/29/74-03/12/81	10	0.1	0.12	0.2	0.05	0.005	0.071	0.05	0.05	0.2	0.2
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		05/29/74-03/12/81	10	0.19	0.19	0.27	0.13	0.002	0.041	0.131	0.155	0.213	0.265
00665 PHOSPHORUS, TOTAL (MG/L AS P)		06/20/68-03/12/81	10##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	12##	5.	5.417	10.	5.	2.083	1.443	5.	5.	5.	8.5
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	12##	0.699	0.724	1.	0.699	0.008	0.087	0.699	0.699	0.699	0.91
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		5.297									
72034 FLOW, INSTANTANEOUS SPILLWAY DISCHARGE	CFS	12/08/75-03/12/81	10	5250.	4510.	7200.	0.	4614333.333	2148.1	310.	3100.	6225.	7110.

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Annual Analysis for 1979 - Station GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-03/12/81	10	11.5	11.5	18.	6.	14.056	3.749	6.1	8.5	15.	17.7
00300 OXYGEN, DISSOLVED	MG/L	06/20/68-03/12/81	10	9.15	8.9	10.7	7.	1.533	1.238	7.05	7.5	9.775	10.66
00310 BOD, 5 DAY, 20 DEG C	MG/L	11/26/73-03/12/81	11	0.3	0.682	3.9	0.2	1.152	1.073	0.22	0.3	0.5	3.24
00340 COD, .25N K2CR2O7	MG/L	04/02/74-03/12/81	11##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400 PH (STANDARD UNITS)		06/20/68-03/12/81	9	6.6	6.578	6.7	6.4	0.012	0.109	6.4	6.5	6.7	6.7
00400 CONVERTED PH (STANDARD UNITS)		06/20/68-03/12/81	9	6.6	6.565	6.7	6.4	0.012	0.11	6.4	6.5	6.7	6.7
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-03/12/81	9	0.251	0.272	0.398	0.2	0.005	0.069	0.2	0.2	0.316	0.398
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-03/12/81	11	6.	6.455	8.	5.	0.673	0.82	5.2	6.	7.	7.8
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		06/20/68-09/08/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/28/75-03/12/81	11##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		05/29/74-03/12/81	11##	0.05	0.068	0.1	0.05	0.001	0.025	0.05	0.05	0.1	0.1
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		05/29/74-03/12/81	11	0.16	0.155	0.2	0.09	0.001	0.038	0.092	0.12	0.19	0.198
00665 PHOSPHORUS, TOTAL (MG/L AS P)		06/20/68-03/12/81	11##	0.025	0.027	0.05	0.025	0.	0.008	0.025	0.025	0.025	0.045
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	10##	5.	7.	20.	5.	23.333	4.83	5.	5.	6.25	19.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	10##	0.699	0.789	1.301	0.699	0.041	0.203	0.699	0.699	0.774	1.271
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		6.156									
72034 FLOW, INSTANTANEOUS SPILLWAY DISCHARGE	CFS	12/08/75-03/12/81	11	6900.	14610.455	92500.	3800.	669729852.273	25879.139	4120.	6000.	8400.	75800.

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-03/12/81	12	11.	11.5	16.	8.	8.818	2.97	8.	8.25	14.	15.7
00300 OXYGEN, DISSOLVED	MG/L	06/20/68-03/12/81	12	8.85	8.933	11.	6.8	1.955	1.398	7.04	7.725	10.25	10.91
00310 BOD, 5 DAY, 20 DEG C	MG/L	11/26/73-03/12/81	12	0.45	0.475	0.8	0.2	0.037	0.191	0.2	0.325	0.6	0.77
00340 COD, .25N K2CR2O7	MG/L	04/02/74-03/12/81	12##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00400 PH (STANDARD UNITS)		06/20/68-03/12/81	4	6.425	6.513	6.8	6.4	0.037	0.193	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		06/20/68-03/12/81	4	6.424	6.485	6.8	6.4	0.038	0.196	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-03/12/81	4	0.376	0.327	0.398	0.158	0.013	0.114	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-03/12/81	12	7.	7.167	10.	6.	1.424	1.193	6.	6.25	7.	9.7
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		06/20/68-09/08/80	9	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/28/75-03/12/81	10##	0.025	0.029	0.06	0.025	0.	0.011	0.025	0.025	0.025	0.057
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		05/29/74-03/12/81	10##	0.05	0.08	0.2	0.05	0.002	0.048	0.05	0.05	0.1	0.19
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		05/29/74-03/12/81	10	0.16	0.159	0.19	0.13	0.	0.022	0.131	0.14	0.183	0.19
00665 PHOSPHORUS, TOTAL (MG/L AS P)		06/20/68-03/12/81	10##	0.025	0.025	0.025	0.025	0.	0.	0.025	0.025	0.025	0.025
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	12##	5.	5.417	10.	5.	2.083	1.443	5.	5.	5.	8.5
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	12##	0.699	0.724	1.	0.699	0.008	0.087	0.699	0.699	0.699	0.91
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		5.297									
72034 FLOW, INSTANTANEOUS SPILLWAY DISCHARGE	CFS	12/08/75-03/12/81	11	4500.	7700.727	34000.	2700.	80262085.818	8958.911	2700.	3600.	8000.	28980.

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0037

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-03/12/81	3	7.	7.	7.	7.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	06/20/68-03/12/81	3	10.8	10.167	11.	8.7	1.623	1.274	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C	MG/L	11/26/73-03/12/81	3	0.5	0.5	0.7	0.3	0.04	0.2	**	**	**	**
00340 COD, .25N K2CR2O7	MG/L	04/02/74-03/12/81	3##	5.	5.	5.	5.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		06/20/68-03/12/81	1	6.55	6.55	6.55	6.55	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		06/20/68-03/12/81	1	6.55	6.55	6.55	6.55	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-03/12/81	1	0.282	0.282	0.282	0.282	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-03/12/81	3	8.	7.667	8.	7.	0.333	0.577	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/28/75-03/12/81	1	0.12	0.12	0.12	0.12	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		05/29/74-03/12/81	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		05/29/74-03/12/81	1	0.21	0.21	0.21	0.21	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		06/20/68-03/12/81	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	3##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		06/25/73-03/12/81	3##	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.									
72034 FLOW, INSTANTANEOUS SPILLWAY DISCHARGE	CFS	12/08/75-03/12/81	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

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0037

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	40	11.5	11.6	21.	5.	18.144	4.26	7.	8.	15.	17.9
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/68-03/12/81	27	6.5	8.652	20.	3.	24.253	4.925	3.66	5.	12.	17.4
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/29/74-03/12/81	22	22.5	30.727	120.	5.	641.541	25.329	9.3	18.75	40.25	68.6
00300 OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	39	9.1	8.854	12.9	1.6	5.229	2.287	6.2	7.6	10.7	11.3
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-07/18/78	19	79.	76.895	113.	18.	511.766	22.622	47.	66.	93.	108.
00310 BOD, 5 DAY, 20 DEG C MG/L	11/26/73-03/12/81	38	0.4	0.618	3.9	0.1	0.455	0.675	0.19	0.3	0.7	0.94
00340 COD, .25N K2CR2O7 MG/L	04/02/74-03/12/81	36##	5.	6.25	12.5	5.	8.036	2.835	5.	5.	5.	12.5
00400 PH (STANDARD UNITS)	06/20/68-03/12/81	33	6.6	6.489	7.1	3.7	0.326	0.571	5.98	6.4	6.8	6.8
00400 CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	33	6.6	5.196	7.1	3.7	2.052	1.433	5.98	6.4	6.8	6.8
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	33	0.251	6.372	199.526	0.079	1202.407	34.676	0.158	0.158	0.398	1.073
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	41	7.	7.683	16.	4.	4.072	2.018	6.	7.	8.	10.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	29	0.	3.034	35.	0.	85.82	9.264	0.	0.	0.	22.
00500 RESIDUE, TOTAL (MG/L)	05/15/69-03/12/81	11	31.	29.091	44.	6.	165.891	12.88	7.2	16.	41.	43.6
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/20/68-03/12/81	9	5.	4.444	7.	0.5	6.715	2.591	0.5	1.75	7.	7.
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	22	0.1	0.127	0.4	0.05	0.01	0.098	0.05	0.05	0.2	0.3
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-03/12/81	22	0.16	0.175	0.53	0.09	0.007	0.085	0.109	0.14	0.19	0.207
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	24##	0.025	0.034	0.1	0.025	0.001	0.025	0.025	0.025	0.025	0.1
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	38##	5.	6.447	20.	5.	13.389	3.659	5.	5.	5.	10.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	38##	0.699	0.77	1.301	0.699	0.027	0.163	0.699	0.699	0.699	1.
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		5.892								
71900 MERCURY, TOTAL (UG/L AS HG)	12/08/70-03/12/81	9##	0.25	0.25	0.25	0.25	0.	0.	0.25	0.25	0.25	0.25

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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0037

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-03/12/81	49	13.	13.163	20.	8.	8.556	2.925	9.	11.	15.	17.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/20/68-03/12/81	37	4.7	4.692	12.	1.2	6.295	2.509	1.9	2.6	5.35	8.56
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/29/74-03/12/81	25	21.	37.84	230.	15.	1989.89	44.608	18.	20.	33.5	84.
00300 OXYGEN, DISSOLVED MG/L	06/20/68-03/12/81	48	9.2	9.021	12.1	5.4	2.3	1.517	6.98	7.9	10.275	10.61
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-07/18/78	31	86.	85.419	110.	57.	175.118	13.233	63.6	78.	95.	103.
00310 BOD, 5 DAY, 20 DEG C MG/L	11/26/73-03/12/81	40	0.6	0.655	2.3	0.2	0.164	0.404	0.21	0.4	0.875	1.27
00340 COD, .25N K2CR2O7 MG/L	04/02/74-03/12/81	38##	5.	6.579	12.5	5.	9.602	3.099	5.	5.	5.	12.5
00400 PH (STANDARD UNITS)	06/20/68-03/12/81	44	6.5	6.431	7.2	5.2	0.127	0.356	6.	6.125	6.7	6.8
00400 CONVERTED PH (STANDARD UNITS)	06/20/68-03/12/81	44	6.5	6.242	7.2	5.2	0.163	0.404	6.	6.125	6.7	6.8
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-03/12/81	44	0.316	0.573	6.31	0.063	0.878	0.937	0.158	0.2	0.753	1.
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-03/12/81	48	6.	6.667	20.	3.	6.993	2.644	5.	6.	7.	7.1
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	42	0.	0.119	5.	0.	0.595	0.772	0.	0.	0.	0.
00500 RESIDUE, TOTAL (MG/L)	05/15/69-03/12/81	14	29.	30.786	58.	12.	169.72	13.028	13.5	20.25	40.	51.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	06/20/68-03/12/81	13	1.	2.308	5.	0.	4.022	2.006	0.	0.5	4.	5.
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-03/12/81	23##	0.05	0.096	0.3	0.05	0.005	0.067	0.05	0.05	0.1	0.2
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-03/12/81	23	0.19	0.199	0.48	0.12	0.005	0.071	0.134	0.16	0.21	0.254
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-03/12/81	30##	0.025	0.043	0.1	0.025	0.001	0.032	0.025	0.025	0.063	0.1
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	40##	5.	6.75	40.	5.	45.577	6.751	5.	5.	5.	9.5
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	06/25/73-03/12/81	40##	0.699	0.756	1.602	0.699	0.038	0.194	0.699	0.699	0.699	0.97
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		5.702								
71900 MERCURY, TOTAL (UG/L AS HG)	12/08/70-03/12/81	9##	0.25	0.289	0.6	0.25	0.014	0.117	0.25	0.25	0.25	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

Station Inventory for Station: GRSM0038

NPS Station ID: GRSM0038 LAT/LON: 35.448337/ -83.866115 Agency: 21NC01WQ Date Created: 12/03/88
Location: LAKE CHEOAH AT POWER LINES NR POWER HOUSE
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9352000 /LTN032D
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 2.90 On/Off RF1:
RF3 Index: 06010204003607.26 RF3 Mile Point: 7.26 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0038

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/87-08/10/94	17	11.2	11.971	13.9	10.1	2.272	1.507	10.26	10.65	13.4	13.74
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	2	1.35	1.35	1.4	1.3	0.005	0.071	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	2	5.45	5.45	7.2	3.7	6.125	2.475	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/87-08/10/94	17	18.	18.412	19.	18.	0.257	0.507	18.	18.	19.	19.
00204 DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	07/27/88-07/27/88	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/27/87-08/10/94	17	9.3	8.971	9.8	8.	0.442	0.665	8.08	8.3	9.5	9.8
00400 PH (STANDARD UNITS)	07/27/87-08/10/94	17	6.4	6.318	6.6	6.1	0.042	0.204	6.1	6.1	6.5	6.52
00400 CONVERTED PH (STANDARD UNITS)	07/27/87-08/10/94	17	6.4	6.274	6.6	6.1	0.044	0.209	6.1	6.1	6.5	6.52
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/87-08/10/94	17	0.398	0.533	0.794	0.251	0.057	0.239	0.303	0.316	0.794	0.794
00500 RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	2	25.5	25.5	26.	25.	0.5	0.707	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	2	2.5	2.5	3.	2.	0.5	0.707	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	2	0.025	0.025	0.04	0.01	0.	0.021	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	2	0.155	0.155	0.17	0.14	0.	0.021	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	2	0.02	0.02	0.03	0.01	0.	0.014	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32213 PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0038

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00				2	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	17	0	0.00				17	0	0.00						
00400 PH	Other-Hi Lim.	9.	17	0	0.00				17	0	0.00						
	Other-Lo Lim.	6.5	17	16	0.94				17	16	0.94						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00				2	0	0.00						

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

Station Inventory for Station: GRSM0039

NPS Station ID: GRSM0039 LAT/LON: 35.448337/ -83.866115 Agency: 21NC01WQ Date Created: 12/03/88
Location: LAKE CHEOAH AT POWER LINES NR POWER HOUSE
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9352010 /LTN032DSUR
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 06010204003606.02 RF3 Mile Point: 6.25 Distance from RF3: 0.06 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0039

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	07/27/88-07/27/88	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		07/27/88-07/27/88	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/27/88-07/27/88	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		07/27/88-07/27/88	1	9.	9.	9.	9.	0.	0.	**	**	**	**
00435 ACIDITY, TOTAL (MG/L AS CACO3)		07/27/88-07/27/88	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: GRSM0039

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0040

NPS Station ID: GRSM0040 LAT/LON: 35.448337/ -83.866115 Agency: 21NC01WQ Date Created: 12/03/88
Location: LAKE CHEOAH AT POWER LINES NR POWER HOUSE FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9352020 /LTN032DBOT
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 06010204003606.02 RF3 Mile Point: 6.25 Distance from RF3: 0.06 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0040

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: GRSM0041

NPS Station ID: GRSM0041 LAT/LON: 35.448337/ -83.936115 Agency: 131TVAC Date Created: 11/27/82
Location: CHEOAH RESERVOIR
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370062
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 051.41
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 51.41 ECO Region:
RF1 Index: 06010204036 RF1 Mile Point: 0.310 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010204002503.04 RF3 Mile Point: 3.03 Distance from RF3: 0.05 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0041

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/18/82-10/18/82	20	17.	15.215	17.5	11.	6.502	2.55	11.23	12.35	17.	17.49
00080 COLOR (PLATINUM-COBALT UNITS)	10/18/82-10/18/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/18/82-10/18/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/18/82	20	20.	20.	20.	20.	0.	0.	20.	20.	20.	20.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/82-10/18/82	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	10/18/82-10/18/82	20	5.8	5.42	7.7	1.4	2.149	1.466	2.85	4.775	6.2	7.33
00400 PH (STANDARD UNITS)	10/18/82-10/18/82	20	5.5	5.555	5.8	5.5	0.007	0.083	5.5	5.5	5.6	5.69
00400 CONVERTED PH (STANDARD UNITS)	10/18/82-10/18/82	20	5.5	5.548	5.8	5.5	0.007	0.083	5.5	5.5	5.6	5.69
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/18/82	20	3.162	2.83	3.162	1.585	0.22	0.469	2.047	2.512	3.162	3.162
00403 PH, LAB, STANDARD UNITS SU	10/18/82-10/18/82	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/18/82-10/18/82	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/18/82	1	0.316	0.316	0.316	0.316	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	10/18/82-10/18/82	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)	10/18/82-10/18/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00435 ACIDITY, TOTAL (MG/L AS CACO3)	10/18/82-10/18/82	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	10/18/82-10/18/82	1##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/18/82-10/18/82	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/82-10/18/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/18/82-10/18/82	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/18/82-10/18/82	1	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	10/18/82-10/18/82	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/18/82-10/18/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	10/18/82-10/18/82	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023 ACIDS, STRONG	10/18/82-10/18/82	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024 ACIDS, WEAK	10/18/82-10/18/82	1	120.	120.	120.	120.	0.	0.	**	**	**	**
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	10/18/82-10/18/82	1	7.	7.	7.	7.	0.	0.	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/18/82-10/18/82	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82295 CHLORIDE DISSOLVED AS CL IN WATER UG/L	10/18/82-10/18/82	1	800.	800.	800.	800.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0041

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	20	2	0.10	20	2	0.10									
00400 PH	Other-Hi Lim.	9.	20	0	0.00	20	0	0.00									
	Other-Lo Lim.	6.5	20	20	1.00	20	20	1.00									
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82295 CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0042

NPS Station ID: GRSM0042 LAT/LON: 35.448616/ -83.935559 Agency: 21NC01WQ Date Created: 12/03/88
Location: LAKE CHEOAH NR DAM NR TAPOCO FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9354000 /LTN032F
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.80 On/Off RF1:
RF3 Index: 06010204003606.02 RF3 Mile Point: 6.25 Distance from RF3: 0.06 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0042

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	36	13.25	12.953	21.3	8.	9.313	3.052	8.68	10.825	14.275	16.58
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	2	1.9	1.9	2.3	1.5	0.32	0.566	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	2	4.45	4.45	5.7	3.2	3.125	1.768	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	36	18.	16.333	20.	11.	8.743	2.957	12.	12.25	18.	19.
00204 DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	07/27/88-07/27/88	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/27/88-08/10/94	36	8.5	8.644	9.6	7.5	0.504	0.71	7.87	8.	9.3	9.5
00400 PH (STANDARD UNITS)	07/27/88-08/10/94	36	6.3	6.272	6.5	6.	0.013	0.116	6.1	6.2	6.3	6.4
00400 CONVERTED PH (STANDARD UNITS)	07/27/88-08/10/94	36	6.3	6.256	6.5	6.	0.014	0.117	6.1	6.2	6.3	6.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/88-08/10/94	36	0.501	0.554	1.	0.316	0.027	0.163	0.398	0.501	0.631	0.794
00500 RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	2	30.5	30.5	33.	28.	12.5	3.536	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	2	4.5	4.5	7.	2.	12.5	3.536	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	2	0.025	0.025	0.04	0.01	0.	0.021	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	2	0.15	0.15	0.16	0.14	0.	0.014	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	2	0.02	0.02	0.03	0.01	0.	0.014	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	2##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
32213 PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	2##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0042

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00				2	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	36	0	0.00				36	0	0.00						
00400 PH	Other-Hi Lim.	9.	36	0	0.00				36	0	0.00						
	Other-Lo Lim.	6.5	36	36	1.00				36	36	1.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00				2	0	0.00						

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

Station Inventory for Station: GRSM0043

NPS Station ID: GRSM0043 LAT/LON: 35.448616/ -83.935559 Agency: 21NC01WQ Date Created: 12/03/88
Location: LAKE CHEOAH NR DAM NR TAPOCO FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9354010 /LTN032FSUR
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 1.80 On/Off RF1:
RF3 Index: 06010204002013.24 RF3 Mile Point: 13.24 Distance from RF3: 0.04 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0043

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	07/27/88-07/27/88	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		07/27/88-07/27/88	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/27/88-07/27/88	1	0.079	0.079	0.079	0.079	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		07/27/88-07/27/88	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00435 ACIDITY, TOTAL (MG/L AS CACO3)		07/27/88-07/27/88	1	3.	3.	3.	3.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0043

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0044

NPS Station ID: GRSM0044 LAT/LON: 35.448616/ -83.935559 Agency: 21NC01WQ Date Created: 12/03/88
Location: LAKE CHEOAH NR DAM NR TAPOCO FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9354020 /LTN032FBOT
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 1.80 On/Off RF1:
RF3 Index: 06010204002013.24 RF3 Mile Point: 13.24 Distance from RF3: 0.04 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0044

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: GRSM0045

NPS Station ID: GRSM0045 LAT/LON: 35.448892/ -83.940837 Agency: 21NC01WQ Date Created: 12/03/88
Location: CALDERWOOD LAKE NR DAM FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9994000 /LTN041
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 2.70 On/Off RF1:
RF3 Index: 06010204002013.24 RF3 Mile Point: 13.24 Distance from RF3: 0.05 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0045

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	35	14.	14.377	22.4	8.9	9.666	3.109	10.56	12.6	15.7	19.58
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	2##	1.1	1.1	1.7	0.5	0.72	0.849	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	2	5.	5.	7.5	2.5	12.5	3.536	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	35	18.	16.171	21.	5.	17.029	4.127	8.2	15.	19.	19.4
00204 DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	07/27/88-07/27/88	1	12.4	12.4	12.4	12.4	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/27/88-08/10/94	35	8.7	8.734	10.	5.9	0.7	0.837	8.	8.2	9.5	9.84
00400 PH (STANDARD UNITS)	07/27/88-08/10/94	35	6.7	6.714	7.1	6.	0.085	0.292	6.2	6.6	6.9	7.1
00400 CONVERTED PH (STANDARD UNITS)	07/27/88-08/10/94	35	6.7	6.609	7.1	6.	0.097	0.311	6.2	6.6	6.9	7.1
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/88-08/10/94	35	0.2	0.246	1.	0.079	0.042	0.204	0.079	0.126	0.251	0.631
00500 RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	2	32.	32.	34.	30.	8.	2.828	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	2	3.	3.	3.	3.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	2	0.03	0.03	0.04	0.02	0.	0.014	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	2	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/27/88-08/10/94	2	0.15	0.15	0.16	0.14	0.	0.014	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	2##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
32213 PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	2##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0045

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00				2	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	35	0	0.00				35	0	0.00						
00400 PH	Other-Hi Lim.	9.	35	0	0.00				35	0	0.00						
	Other-Lo Lim.	6.5	35	7	0.20				35	7	0.20						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00				2	0	0.00						

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

Station Inventory for Station: GRSM0046

NPS Station ID: GRSM0046
Location: CALDERWOOD LAKE NR DAM
Station Type: /TYPA/AMBNT/LAKE
RMI-Indexes:
RMI-Miles:
HUC: 06010204
Major Basin: SOUTHEAST
Minor Basin: LITTLE TENNESSEE
RF1 Index: 06010204
RF3 Index: 06010204002012.25
Description:

LAT/LON: 35.448892/ -83.940837

Depth of Water: 1
Elevation: 0

RF1 Mile Point: 0.000
RF3 Mile Point: 14.99

Agency: 21NC01WQ
Date Created: 12/03/88
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
STORET Station ID(s): G9994010 /LTN041SUR

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 1.60
Distance from RF3: 0.02
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: GRSM0046

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	07/27/88-07/27/88	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		07/27/88-07/27/88	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/27/88-07/27/88	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		07/27/88-07/27/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00435 ACIDITY, TOTAL (MG/L AS CACO3)		07/27/88-07/27/88	1	3.	3.	3.	3.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0046

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0047

NPS Station ID: GRSM0047
Location: CALDERWOOD LAKE NR DAM
Station Type: /TYPA/AMBNT/LAKE
RMI-Indexes:
RMI-Miles:
HUC: 06010204
Major Basin: SOUTHEAST
Minor Basin: LITTLE TENNESSEE
RF1 Index: 06010204
RF3 Index: 06010204002012.25
Description:

LAT/LON: 35.448892/ -83.940837
Depth of Water: 1
Elevation: 0
RF1 Mile Point: 0.000
RF3 Mile Point: 14.99

Agency: 21NC01WQ
Date Created: 12/03/88
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
STORET Station ID(s): G9994020 /LTN041BOT
Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 1.60
Distance from RF3: 0.02
On/Off RF1:
On/Off RF3:

Parameter Inventory for Station: GRSM0047

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: GRSM0048

NPS Station ID: GRSM0048 LAT/LON: 35.449170/ -83.902505 Agency: 131TVAC Date Created: / /
Location: SANTEETLAH POWERHOUSE TAILRACE
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360217 /3941
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 056.80
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 56.8 ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010204003600.00 RF3 Mile Point: 0.04 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0048

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/23/68-12/11/89	334	10.	10.937	21.1	4.	17.028	4.127	6.	7.8	14.1	17.35
00061 FLOW, STREAM, INSTANTANEOUS CFS	09/29/70-12/11/89	274	824.	762.759	896.	204.	23263.546	152.524	470.	764.	864.	872.
00070 TURBIDITY, (JACKSON CANDLE UNITS)	03/03/74-01/17/77	36	1.85	2.069	6.	1.	1.181	1.087	1.	1.4	2.375	3.42
00080 COLOR (PLATINUM-COBALT UNITS)	03/03/74-01/17/77	36	6.	6.583	16.	1.	17.936	4.235	2.05	3.	10.	14.3
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	03/03/74-01/17/77	36	12.	12.722	29.	1.	32.835	5.73	5.	10.	15.	20.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/03/74-01/17/77	36	20.	30.472	150.	15.	1134.428	33.681	17.	18.	21.75	82.2
00300p OXYGEN, DISSOLVED MG/L	02/23/68-12/11/89	311	8.9	8.423	13.8	3.2	4.756	2.181	5.1	6.8	10.2	10.9
00310 BOD, 5 DAY, 20 DEG C MG/L	03/18/76-07/22/76	3##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00335 COD, .025N K2CR2O7 MG/L	03/03/74-01/17/77	36	4.	4.014	16.	0.5	8.293	2.88	2.	2.	4.	6.9
00400 PH (STANDARD UNITS)	03/03/74-01/17/77	36	6.3	6.247	6.7	4.3	0.178	0.422	5.87	6.1	6.5	6.6
00400 CONVERTED PH (STANDARD UNITS)	03/03/74-01/17/77	36	6.3	5.704	6.7	4.3	0.482	0.694	5.87	6.1	6.5	6.6
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/03/74-01/17/77	36	0.501	1.977	50.119	0.2	68.28	8.263	0.251	0.316	0.794	1.357
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	03/03/74-01/17/77	36	6.	5.694	11.	0.	3.99	1.997	4.	4.25	6.	8.3
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/03/74-01/17/77	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/03/74-01/17/77	36	1.	1.764	14.	0.5	6.264	2.503	0.5	0.5	2.	4.
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	03/03/74-01/17/77	36	0.065	0.079	0.26	0.005	0.003	0.056	0.01	0.04	0.1	0.166
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/03/74-01/17/77	36	0.03	0.045	0.13	0.01	0.001	0.033	0.017	0.02	0.05	0.11
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/03/74-01/17/77	36	0.13	0.131	0.3	0.04	0.003	0.053	0.061	0.11	0.158	0.18
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/03/74-01/17/77	36	0.01	0.013	0.04	0.005	0.	0.01	0.005	0.005	0.02	0.03
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	04/19/76-05/17/76	2##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	03/03/74-01/17/77	36	1.	1.569	6.	0.5	1.159	1.077	0.5	1.	2.	2.3
00927 MAGNESIUM, TOTAL (MG/L AS MG)	03/03/74-01/17/77	36	0.5	0.731	7.8	0.2	1.505	1.227	0.3	0.5	0.6	0.8
00929 SODIUM, TOTAL (MG/L AS NA)	03/03/74-01/17/77	36	1.	1.139	2.6	0.7	0.246	0.496	0.8	0.8	1.175	2.08
00937 POTASSIUM, TOTAL MG/L AS K)	03/03/74-01/17/77	36	0.5	0.589	1.6	0.3	0.069	0.263	0.4	0.5	0.6	0.82
00940 CHLORIDE,TOTAL IN WATER MG/L	03/03/74-01/17/77	36	2.	2.	4.	1.	0.229	0.478	1.7	2.	2.	2.
00945 SULFATE, TOTAL (MG/L AS SO4)	03/03/74-01/17/77	36##	0.75	1.222	5.	0.5	0.963	0.982	0.5	0.5	2.	2.
00951 FLUORIDE, TOTAL (MG/L AS F)	03/03/74-01/17/77	35##	0.05	0.042	0.05	0.005	0.	0.013	0.02	0.03	0.05	0.05
00955 SILICA, DISSOLVED (MG/L AS SIO2)	03/17/75-01/17/77	22	5.2	5.127	6.5	3.8	0.392	0.626	4.23	4.775	5.35	6.14
00956 SILICA, TOTAL (MG/L AS SIO2)	03/03/74-02/24/75	13	5.5	5.538	7.5	4.5	0.589	0.768	4.62	4.95	5.8	7.02
01045 IRON, TOTAL (UG/L AS FE)	03/03/74-01/17/77	36	215.	782.5	17000.	25.	7864142.143	2804.308	25.	112.5	405.	1230.
01055 MANGANESE, TOTAL (UG/L AS MN)	03/03/74-01/17/77	36	25.	62.083	210.	5.	3946.25	62.819	8.5	20.	107.5	169.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-07/22/76	3##	5.	5.	5.	5.	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-07/22/76	3##	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.								
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/03/74-01/17/77	36	5.	6.875	37.	1.5	37.091	6.09	2.35	5.	7.	11.5
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/03/74-12/13/76	35	20.	18.429	50.	5.	84.958	9.217	8.	10.	20.	30.

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

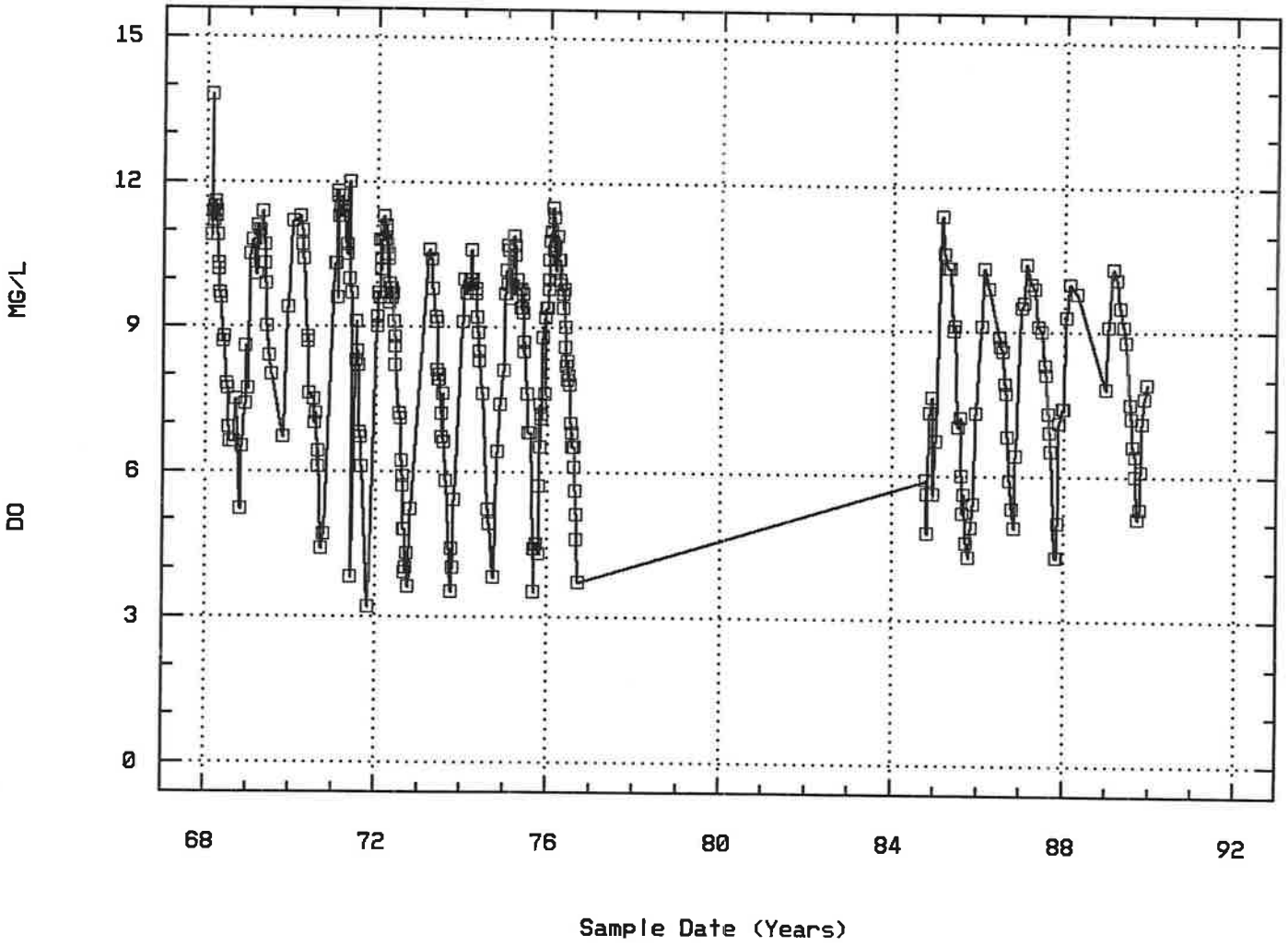
EPA Water Quality Criteria Analysis for Station: GRSM0048

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	36	0	0.00	19	0	0.00	17	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	311	10	0.03	141	5	0.04	170	5	0.03						
00400 PH	Other-Hi Lim.	9.	36	0	0.00	19	0	0.00	17	0	0.00						
	Other-Lo Lim.	6.5	36	29	0.81	19	12	0.63	17	17	1.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	36	0	0.00	19	0	0.00	17	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	36	0	0.00	19	0	0.00	17	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	36	0	0.00	19	0	0.00	17	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	0	0.00	2	0	0.00	1	0	0.00						

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

Station: GRSM0048 Parameter Code: 00300

OXYGEN, DISSOLVED



SANTEETLAH POWERHOUSE TAILRACE

Annual Analysis for 1968 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	26	7.8	8.75	17.2	4.4	11.731	3.425	5.6	6.1	10.275	15.33
00300p OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	26	9.2	9.223	13.8	5.2	4.566	2.137	6.57	7.475	11.225	11.53

** - 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 1969 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	16	7.2	8.025	15.6	5.	7.723	2.779	5.	5.725	9.725	12.45
00300p OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	16	10.2	9.869	11.4	6.7	1.646	1.283	7.61	9.1	10.775	11.19

** - 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 1970 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	16	10.55	11.588	21.1	5.	25.853	5.085	5.42	7.05	16.	20.33
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	2	612.5	612.5	786.	439.	60204.5	245.366	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	16	8.15	8.375	11.3	4.4	5.542	2.354	4.61	6.55	10.925	11.23

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

Annual Analysis for 1971 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	25	7.8	9.052	18.3	4.4	13.371	3.657	5.6	5.85	11.95	14.34
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	23	804.	796.565	884.	398.	11374.984	106.654	692.4	769.	880.	884.
00300p OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	25	10.	9.348	12.	3.2	5.917	2.432	5.18	8.25	11.35	11.74

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

Annual Analysis for 1972 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	36	9.15	10.678	18.9	6.1	14.534	3.812	7.05	7.8	13.3	16.7
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	34	864.	838.824	892.	421.	11361.241	106.589	830.	860.	869.	880.
00300p OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	36	9.55	8.389	11.3	3.6	6.072	2.464	4.21	5.975	10.4	10.86

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

Annual Analysis for 1973 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	19	12.2	12.721	18.3	6.7	12.313	3.509	8.9	9.4	15.6	17.8
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	19	860.	857.053	864.	826.	135.275	11.631	826.	858.	864.	864.
00300p OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	19	7.9	7.437	10.6	3.5	4.382	2.093	4.	5.8	9.1	10.4

** - 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 1974 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	24	9.4	10.858	18.3	7.8	9.61	3.1	8.3	8.9	12.525	16.7
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	24	835.5	811.5	868.	421.	8320.522	91.217	752.	800.25	864.	868.
00300p OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	22	9.45	8.523	10.6	3.8	3.632	1.906	4.99	7.55	9.925	10.

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

Annual Analysis for 1975 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	39	10.6	11.831	19.7	7.2	17.215	4.149	7.2	8.	15.6	18.3
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	39	773.	705.41	886.	204.	31754.88	178.199	426.	752.	800.	848.
00300p OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	38	9.35	8.361	10.9	3.5	4.383	2.094	4.4	7.025	9.8	10.61

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	49	10.	10.384	19.	5.	17.146	4.141	6.	6.9	14.5	17.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	48	839.	801.542	896.	422.	16305.02	127.691	509.4	813.25	864.	880.4
00300p OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	38	9.75	8.866	11.5	3.7	4.556	2.134	5.55	6.95	10.725	11.

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

Annual Analysis for 1977 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	9	5.	5.889	8.	4.	2.111	1.453	4.	5.	7.5	8.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	9	812.	809.667	840.	791.	218.25	14.773	791.	796.	816.	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 1984 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	6	16.75	15.833	19.	11.	11.267	3.357	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	6	451.5	454.333	486.	426.	953.067	30.872	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	6	5.75	6.133	7.6	4.8	1.183	1.088	**	**	**	**

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

Annual Analysis for 1985 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	16	13.25	12.781	19.5	6.	18.632	4.317	6.35	8.625	17.	18.45
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	17	687.	633.765	869.	236.	31869.941	178.522	419.2	485.	764.	868.2
00300p OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	17	7.	7.347	11.4	4.3	5.431	2.331	4.54	5.3	9.7	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 1986 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	14	11.75	12.143	17.5	7.	13.824	3.718	7.5	8.875	15.375	17.5
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	14	727.5	658.214	852.	350.	32319.566	179.776	385.	468.75	821.5	841.5
00300p OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	14	8.25	7.85	10.3	4.9	3.009	1.735	5.1	6.275	9.2	10.1

** - 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 1987 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	18	12.5	12.25	17.5	7.	11.066	3.327	7.9	8.5	14.75	17.5
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	18	740.	667.556	872.	401.	28288.497	168.192	454.1	481.5	824.	845.
00300p OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	17	7.4	7.682	10.4	4.3	3.649	1.91	4.3	6.7	9.35	10.08

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

Annual Analysis for 1988 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	4	8.	8.875	12.	7.5	4.563	2.136	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	4	847.	850.25	877.	830.	398.917	19.973	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	4	9.55	9.225	10.	7.8	0.989	0.995	**	**	**	**

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

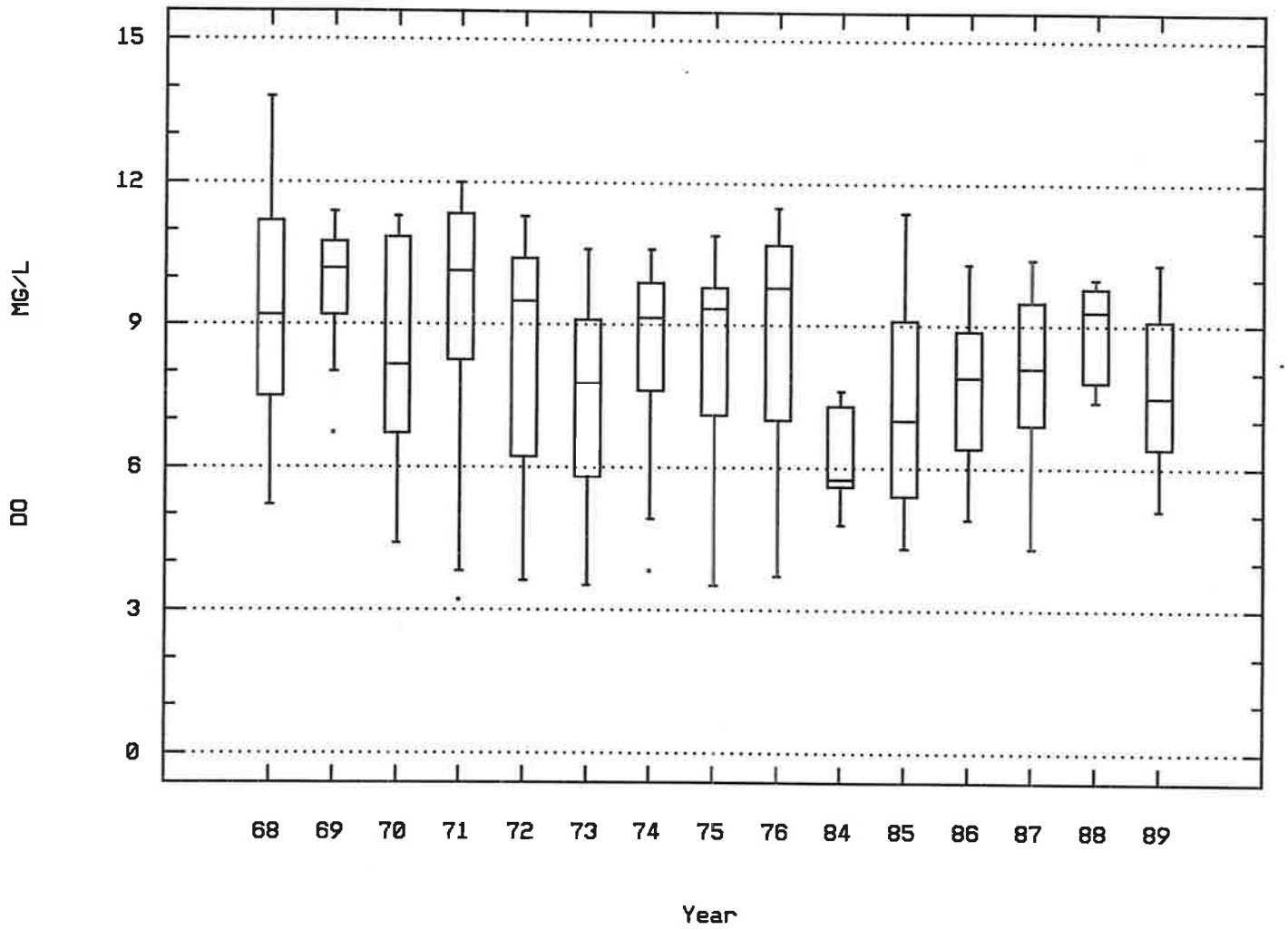
Annual Analysis for 1989 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	17	16.	14.706	18.5	9.5	11.721	3.424	9.5	11.5	18.	18.1
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	17	832.	809.765	872.	480.	7981.941	89.342	720.	801.	850.	862.4
00300p OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	17	7.5	7.629	10.3	5.1	2.648	1.627	5.26	6.25	9.1	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

Station: GRSM0048 Parameter Code: 00300

OXYGEN, DISSOLVED



SANTEETLAH POWERHOUSE TAILRACE

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	161	8.3	10.032	20.	4.	20.139	4.488	5.6	6.6	13.	17.5
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	138	816.5	760.717	888.	236.	23901.912	154.602	426.9	770.5	858.5	869.3
00300 OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	141	9.8	8.853	13.8	3.2	5.74	2.396	4.92	7.15	10.75	11.3

** - 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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0048

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		02/23/68-12/11/89	173	11.1	11.78	21.1	6.1	12.752	3.571	7.62	8.9	14.5	17.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/29/70-12/11/89	136	834.	764.831	896.	204.	22779.46	150.929	478.8	755.	864.	873.2
00300 OXYGEN, DISSOLVED	MG/L	02/23/68-12/11/89	170	8.3	8.066	12.	3.5	3.686	1.92	5.11	6.7	9.7	10.39

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

Station Inventory for Station: GRSM0049

NPS Station ID: GRSM0049 LAT/LON: 35.449170/ -83.902505 Agency: 131TVAC Date Created: 10/27/90
Location: SANTEETLAH POWERHOUSE TAILRACE
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360217X
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 056.80
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 56.8 ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.20 On/Off RF1:
RF3 Index: 06010202000100.01 RF3 Mile Point: 0.00 Distance from RF3: 0.01 On/Off RF3:
Description:

THE SAMPLES COLLECTED AT THIS STATION WERE SHIPPED TO THE ENVIRONMENTAL CHEMISTRY LABORATORY IN CHATTANOOGA IN PLASTIC SHIPPING CONTAINERS FOR ANALYSES. IT IS NOW DOCUMENTED THAT THE DISSOLVED OXYGEN CONCENTRATIONS MEASURED WERE TOO LOW DUE TO THE USE OF THE PLASTIC CONTAINERS. BECAUSE THE ERROR IS VARIABLE, AND THE INDIVIDUAL MEASUREMENTS CANNOT BE

Parameter Inventory for Station: GRSM0049

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: GRSM0050

NPS Station ID: GRSM0050 LAT/LON: 35.450004/ -83.791671 Agency: 12ELS1 Date Created: 04/16/88
Location: FONTANA LAKE FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 3A2-007
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 337 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.90 On/Off RF1:
RF3 Index: 06010204002013.24 RF3 Mile Point: 13.24 Distance from RF3: 0.05 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0050

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	1	16.6	16.6	16.6	16.6	0.	0.	**	**	**	**
00078	TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	1	3.75	3.75	3.75	3.75	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00154	SULFATE (AS S) WHOLE WATER, MG/L	11/20/84-11/20/84	1	1.59	1.59	1.59	1.59	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	11/20/84-11/20/84	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	11/20/84-11/20/84	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/84-11/20/84	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/20/84-11/20/84	1	139.5	139.5	139.5	139.5	0.	0.	**	**	**	**
00662	PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/20/84-11/20/84	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	1	2.3	2.3	2.3	2.3	0.	0.	**	**	**	**
00910	CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	1	1.45	1.45	1.45	1.45	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	1	1.08	1.08	1.08	1.08	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	11/20/84-11/20/84	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	1	7.7	7.7	7.7	7.7	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	1	37.	37.	37.	37.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	1	21.	21.	21.	21.	0.	0.	**	**	**	**
70151	SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/20/84-11/20/84	1	41.948	41.948	41.948	41.948	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	11/20/84-11/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	1	1708.09	1708.09	1708.09	1708.09	0.	0.	**	**	**	**
82047	DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0050

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00154 SULFATE (AS S) WHOLE WATER	Drinking Water	400.	1	0	0.00	1	0	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: GRSM0050

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403	PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
		Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00	1	1	1.00									
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0051

NPS Station ID: GRSM0051 LAT/LON: 35.450004/ -83.816670 Agency: 11EPALES Date Created: / /
Location: LITTLE TENNESSEE
FIPS State/County: 37000 NORTH CAROLINA/
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 3704A1 /LS3704A1
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: 0/FONTANA LAKE Elevation: 0 Water Body Id:
Minor Basin: 300 FT ABOVE HWY 28 BRDG BELO DAM ECO Region:
RF1 Index: 06010202009 RF1 Mile Point: 3.710 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202003704.80 RF3 Mile Point: 6.11 Distance from RF3: 0.03 On/Off RF3:
Description:
300 FT ABOVE ST HWY 28 BRDG ABOUT 1 MI DOWNSTREAM FROM FONTANA DAM

Parameter Inventory for Station: GRSM0051

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.087	0.096	0.24	0.012	0.004	0.065	0.015	0.031	0.134	0.206
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.002	0.005	0.02	0.001	0.	0.007	0.001	0.001	0.01	0.018
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.49	0.483	0.616	0.316	0.006	0.08	0.354	0.415	0.543	0.594
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	12	0.8	0.95	2.51	0.05	0.618	0.786	0.068	0.263	1.643	2.327
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	13	0.51	0.487	0.62	0.32	0.007	0.082	0.356	0.415	0.545	0.604
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	12	0.02	0.018	0.038	0.003	0.	0.01	0.004	0.01	0.024	0.036
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	13	0.008	0.006	0.011	0.003	0.	0.003	0.003	0.003	0.009	0.011

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

EPA Water Quality Criteria Analysis for Station: GRSM0051

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	13	0	0.00	8	0	0.00	5	0	0.00						
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						

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

Station Inventory for Station: GRSM0052

NPS Station ID: GRSM0052 LAT/LON: 35.450004/ -83.929170 Agency: 12ELS1 Date Created: 04/16/88
Location: LAKE CHEOAH FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 3A1-004
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 167 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.70 On/Off RF1:
RF3 Index: 06010202000100.04 RF3 Mile Point: 0.04 Distance from RF3: 0.06 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0052

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	1	2.35	2.35	2.35	2.35	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00154 SULFATE (AS S) WHOLE WATER, MG/L	11/20/84-11/20/84	1	1.63	1.63	1.63	1.63	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	11/20/84-11/20/84	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	11/20/84-11/20/84	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/84-11/20/84	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00409 ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/20/84-11/20/84	1	153.6	153.6	153.6	153.6	0.	0.	**	**	**	**
00662 PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/20/84-11/20/84	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00681 CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00691 CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00910 CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	1	1.43	1.43	1.43	1.43	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	1	1.07	1.07	1.07	1.07	0.	0.	**	**	**	**
00941 CHLORIDE, DISSOLVED IN WATER MG/L	11/20/84-11/20/84	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	1	134.	134.	134.	134.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	1	62.	62.	62.	62.	0.	0.	**	**	**	**
70151 SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/20/84-11/20/84	1	2.343	2.343	2.343	2.343	0.	0.	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
71885 IRON (UG/L AS FE)	11/20/84-11/20/84	1	29.	29.	29.	29.	0.	0.	**	**	**	**
72020 ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	1	1275.98	1275.98	1275.98	1275.98	0.	0.	**	**	**	**
82047 DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	1	2.2	2.2	2.2	2.2	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0052

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00154 SULFATE (AS S) WHOLE WATER	Drinking Water	400.	1	0	0.00	1	0	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: GRSM0052

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00409 ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00	1	1	1.00									
00941 CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0053

NPS Station ID: GRSM0053 LAT/LON: 35.450004/ -83.933337 Agency: 131TVAC Date Created: / /
Location: SANTEETLAH RESERVOIR
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 360237 /4022
RMI-Indexes: 1021500 007720 00920 8540 2840
RMI-Miles: 0953.80 0046.50 601.10 051.20 011.00
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: CHEOAH RIVER 11+- ECO Region:
RF1 Index: 06010204036 RF1 Mile Point: 0.650 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202000100.08 RF3 Mile Point: 0.07 Distance from RF3: 0.18 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0053

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00339 COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	06/27/73-06/27/73	1	101000.	101000.	101000.	101000.	0.	0.	**	**	**	**
00668 PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/27/73-06/27/73	1	750.	750.	750.	750.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/27/73-06/27/73	1	11.	11.	11.	11.	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/73-06/27/73	1	98.	98.	98.	98.	0.	0.	**	**	**	**
01013 BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/73-06/27/73	1##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	12.	12.	12.	12.	0.	0.	**	**	**	**
01038 COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/27/73-06/27/73	1	31.	31.	31.	31.	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/73-06/27/73	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/73-06/27/73	1	34.	34.	34.	34.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/73-06/27/73	1	460.	460.	460.	460.	0.	0.	**	**	**	**
01063 MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	06/27/73-06/27/73	1##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	14.	14.	14.	14.	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/73-06/27/73	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01083 STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	06/27/73-06/27/73	1##	1.65	1.65	1.65	1.65	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/27/73-06/27/73	1	33.	33.	33.	33.	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/27/73-06/27/73	1	84.	84.	84.	84.	0.	0.	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/27/73-06/27/73	1##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01103 TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	06/27/73-06/27/73	1##	33.5	33.5	33.5	33.5	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/27/73-06/27/73	1	18000.	18000.	18000.	18000.	0.	0.	**	**	**	**
01133 LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	06/27/73-06/27/73	1	6.4	6.4	6.4	6.4	0.	0.	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/27/73-06/27/73	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/73-06/27/73	1	47000.	47000.	47000.	47000.	0.	0.	**	**	**	**
71921 MERCURY,TOT, IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/73-06/27/73	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
80111 NITROGEN, TOTAL IN DRIED MATERIAL (MG/KG)	06/27/73-06/27/73	1	3800.	3800.	3800.	3800.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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 exists to compare against the data at this station. **********

Station Inventory for Station: GRSM0054

NPS Station ID: GRSM0054 LAT/LON: 35.450004/ -83.941670 Agency: 131TVAC Date Created: 03/30/77
Location:
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 360268
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 051.10
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 51.1 ECO Region:
RF1 Index: 06010204020 RF1 Mile Point: 13.730 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010204002503.05 RF3 Mile Point: 3.04 Distance from RF3: 0.05 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0054

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	02/15/77-12/27/78	23	12.2	12.17	19.	4.	20.363	4.513	5.44	8.3	16.5	17.48
00061	FLOW, STREAM, INSTANTANEOUS CFS	02/15/77-12/27/78	22	5249.5	5116.318	8220.	0.	6002869.18	2450.075	502.8	4460.	7354.5	8158.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	02/15/77-12/27/78	23	3.4	3.096	5.5	0.5	2.12	1.456	1.1	2.	4.2	5.28
00080	COLOR (PLATINUM-COBALT UNITS)	02/15/77-12/27/78	23	6.	8.087	33.	3.	34.265	5.854	4.4	5.	10.	10.6
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	02/15/77-09/20/77	8	12.5	15.625	49.	5.	190.268	13.794	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/15/77-12/27/78	23	21.	21.696	32.	16.	9.767	3.125	18.4	20.	23.	25.2
00300	OXYGEN, DISSOLVED MG/L	03/15/77-12/27/78	22	9.35	9.445	12.1	6.6	3.138	1.771	7.16	7.775	11.35	11.97
00310	BOD, 5 DAY, 20 DEG C MG/L	02/15/77-12/27/78	23##	0.5	0.617	2.1	0.5	0.13	0.36	0.5	0.5	0.5	1.06
00335	COD, .025N K2CR2O7 MG/L	02/15/77-10/24/78	8	3.	4.625	12.	1.	12.839	3.583	**	**	**	**
00400	PH (STANDARD UNITS)	02/15/77-12/27/78	23	6.5	6.457	7.4	5.1	0.271	0.52	5.6	6.2	6.8	7.
00400	CONVERTED PH (STANDARD UNITS)	02/15/77-12/27/78	23	6.5	6.065	7.4	5.1	0.431	0.656	5.6	6.2	6.8	7.
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	02/15/77-12/27/78	23	0.316	0.86	7.943	0.04	3.052	1.747	0.1	0.158	0.631	2.892
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	02/15/77-12/27/78	23	7.	7.391	10.	6.	1.522	1.234	6.	6.	8.	9.6
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	02/15/77-12/27/78	23	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/24/78	8	1.5	1.938	4.	0.5	1.603	1.266	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	02/15/77-12/27/78	23	0.04	0.054	0.16	0.005	0.002	0.05	0.005	0.02	0.07	0.146
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	02/15/77-12/27/78	23	0.02	0.025	0.08	0.005	0.	0.022	0.005	0.01	0.03	0.066
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	02/15/77-12/27/78	23	0.15	0.159	0.23	0.11	0.001	0.038	0.11	0.13	0.2	0.21
00665	PHOSPHORUS, TOTAL (MG/L AS P)	02/15/77-12/27/78	23	0.01	0.012	0.02	0.005	0.	0.004	0.01	0.01	0.01	0.02
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	02/15/77-10/24/78	8	0.95	0.838	1.3	0.1	0.126	0.354	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	02/15/77-10/24/78	8	3.05	3.188	5.6	1.	2.561	1.6	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	02/15/77-10/24/78	8	0.6	0.638	0.9	0.5	0.014	0.119	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	02/15/77-10/24/78	8	1.2	1.375	3.	1.	0.451	0.671	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	02/15/77-10/24/78	8	0.6	0.598	0.7	0.5	0.008	0.087	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	02/15/77-10/24/78	8	1.5	2.188	6.	0.5	4.067	2.017	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	02/15/77-10/24/78	8##	0.75	1.5	4.	0.5	1.857	1.363	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	02/15/77-08/09/77	3##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SIO2)	02/15/77-02/15/77	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01007	BARIUM, TOTAL (UG/L AS BA)	02/15/77-08/09/77	3##	50.	50.	50.	50.	0.	0.	**	**	**	**
01012	BERYLLIUM, TOTAL (UG/L AS BE)	02/15/77-08/09/77	3##	5.	5.	5.	5.	0.	0.	**	**	**	**
01022	BORON, TOTAL (UG/L AS B)	02/15/77-02/15/77	1	120.	120.	120.	120.	0.	0.	**	**	**	**
01027	CADMIUM, TOTAL (UG/L AS CD)	02/15/77-10/24/78	8##	0.5	2.063	13.	0.5	19.531	4.419	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	02/15/77-10/24/78	8##	12.5	17.188	40.	2.5	216.853	14.726	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	02/15/77-12/27/78	23	150.	261.087	2400.	25.	224233.992	473.534	25.	140.	240.	328.
01046	IRON, DISSOLVED (UG/L AS FE)	02/15/77-12/27/78	22##	25.	39.727	170.	25.	1094.97	33.09	25.	25.	50.	74.
01051	LEAD, TOTAL (UG/L AS PB)	02/15/77-10/24/78	8##	5.	5.	5.	5.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	02/15/77-12/27/78	23	24.	45.957	390.	5.	6347.498	79.671	5.	10.	40.	104.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	02/15/77-12/27/78	22	20.	27.182	100.	5.	710.727	26.659	5.	5.	47.	70.

** - Less than 9 observations ## - 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: GRSM0054

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01067 NICKEL, TOTAL (UG/L AS NI)	02/15/77-10/24/78	8##	25.	17.5	25.	5.	107.143	10.351	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	02/15/77-08/09/77	3##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	02/15/77-10/24/78	8	80.	75.	140.	20.	1485.714	38.545	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	02/15/77-10/24/78	8##	100.	118.75	200.	100.	1269.643	35.632	**	**	**	**
01132 LITHIUM, TOTAL (UG/L AS LI)	02/15/77-08/09/77	3##	5.	5.	5.	5.	0.	0.	**	**	**	**
01152 TITANIUM, TOTAL (UG/L AS TI)	02/15/77-08/09/77	3##	500.	500.	500.	500.	0.	0.	**	**	**	**
31501 COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	02/15/77-12/27/78	22	300.	962.5	6000.	5.	2280942.262	1510.279	50.	95.	1375.	3520.
31501 LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,	02/15/77-12/27/78	22	2.477	2.469	3.778	0.699	0.57	0.755	1.699	1.976	3.136	3.545
31501 GM COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,3			GEOMETRIC MEAN =	294.695								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/15/77-12/27/78	22##	12.5	42.5	360.	5.	6816.071	82.56	5.	5.	50.	155.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	02/15/77-12/27/78	22##	1.	1.191	2.556	0.699	0.333	0.577	0.699	0.699	1.699	2.12
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	15.519								
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	02/15/77-10/24/78	8	10.5	10.5	16.	5.	14.571	3.817	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	02/15/77-10/24/78	8	20.	22.5	50.	10.	164.286	12.817	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	02/15/77-10/24/78	8##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0054

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	23	0	0.00	11	0	0.00	12	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	22	0	0.00	10	0	0.00	12	0	0.00						
00400 PH	Other-Hi Lim.	9.	23	0	0.00	11	0	0.00	12	0	0.00						
	Other-Lo Lim.	6.5	23	13	0.57	11	7	0.64	12	6	0.50						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	23	0	0.00	11	0	0.00	12	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	4	0	0.00	4	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	8	0	0.00	4	0	0.00	4	0	0.00						
01007 BARIUM, TOTAL	Drinking Water	2000.	3	0	0.00	1	0	0.00	2	0	0.00						
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	1	0	0.00	2	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	8	1	0.13	4	0	0.00	4	1	0.25						
	Drinking Water	5.	8	1	0.13	4	0	0.00	4	1	0.25						
01042 COPPER, TOTAL	Fresh Acute	18.	8	4	0.50	4	2	0.50	4	2	0.50						
	Drinking Water	1300.	8	0	0.00	4	0	0.00	4	0	0.00						
01051 LEAD, TOTAL	Fresh Acute	82.	8	0	0.00	4	0	0.00	4	0	0.00						
	Drinking Water	5.	0&	0	0.00												
01067 NICKEL, TOTAL	Fresh Acute	1400.	8	0	0.00	4	0	0.00	4	0	0.00						
	Drinking Water	100.	8	0	0.00	4	0	0.00	4	0	0.00						
01077 SILVER, TOTAL	Fresh Acute	4.1	0&	0	0.00												
	Drinking Water	50.	3	0	0.00	1	0	0.00	2	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	8	1	0.13	4	0	0.00	4	1	0.25						
31501 COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	22	6	0.27	11	2	0.18	11	4	0.36						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	22	2	0.09	11	1	0.09	11	1	0.09						
71900 MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00	4	0	0.00	4	0	0.00						
	Drinking Water	2.	8	0	0.00	4	0	0.00	4	0	0.00						

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

Station Inventory for Station: GRSM0055

NPS Station ID: GRSM0055 LAT/LON: 35.450004/ -83.941949 Agency: 21NC01WQ Date Created: / /
Location: LITTLE TENNESSEE RIVER AT TAPOCO NC
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/FISH/STREAM/SOLIDS
STORET Station ID(s): G9900000 /LTN038 /040404009 /03515152
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204020 RF1 Mile Point: 13.730 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010204003100.00 RF3 Mile Point: 1.48 Distance from RF3: 0.05 On/Off RF3:
Description:

LOCATION: FROM JCT OF NC 28 & US 129 NEAR TAPOCO TRAVEL S ON US 129 2.3 MI TO BRIDGE OVER LITTLE TENNESSEE RIVER. LOCATED TO DEFINE QUALITY OF WATER FROM TAPOCO, INC. WTP. SAMPLED AT 3' DEPTH AT 1/3 POINTS FROM BRIDGE BY OWAR. ACTIVATION DATE 680514.

Parameter Inventory for Station: GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	155	12.	12.09	21.	4.	13.901	3.728	7.	9.	15.	17.
00023	SAMPLE WEIGHT IN POUNDS	06/20/68-11/21/74	12	14.	13.708	21.	10.	7.566	2.751	10.3	12.	14.375	19.2
00060	FLOW, STREAM, MEAN DAILY CFS	06/20/68-08/24/71	9	6561.	6439.222	8130.	3635.	2447018.194	1564.295	3635.	5311.	8029.5	8130.
00065	STAGE, STREAM (FEET)	02/27/74-09/19/78	14	5203.5	3927.143	8130.	10.16	12987331.232	3603.794	24.755	54.028	7586.25	8094.5
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	110	2.95	4.183	57.	0.07	36.016	6.001	0.53	1.675	5.	8.9
00077	TRANSPARENCY, SECCHI DISC (INCHES)	05/29/74-05/29/74	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	08/09/77-08/29/78	6	10.	10.	15.	3.	15.6	3.95	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-08/20/86	58	25.	25.828	46.	15.	35.829	5.986	21.	22.75	27.	37.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/27/74-12/07/81	52	20.	27.25	220.	10.	856.113	29.259	15.	20.	24.	40.
00300	OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	154	9.5	9.372	13.8	3.3	2.731	1.653	7.15	8.25	10.6	11.45
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	83	89.	87.145	113.	37.	159.345	12.623	71.4	81.	95.	102.6
00310	BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	128	0.4	0.486	1.7	0.05	0.081	0.284	0.2	0.3	0.6	0.81
00335	COD, .025N K2CR2O7 MG/L	11/26/73-12/31/84	46##	2.5	3.913	12.5	2.5	4.903	2.214	2.5	2.5	5.	5.
00340	COD, .25N K2CR2O7 MG/L	04/02/74-04/16/81	72##	5.	6.354	12.5	5.	8.44	2.905	5.	5.	5.	12.5
00400	PH (STANDARD UNITS)	06/20/68-10/22/86	140	6.6	6.513	7.1	3.6	0.135	0.367	6.1	6.4	6.7	6.9
00400	CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	140	6.6	5.666	7.1	3.6	0.857	0.926	6.1	6.4	6.7	6.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	140	0.251	2.156	251.189	0.079	449.468	21.201	0.126	0.2	0.398	0.794
00403	PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	83	6.6	6.595	6.8	6.3	0.015	0.122	6.4	6.5	6.7	6.7
00403	CONVERTED PH, LAB, STANDARD UNITS	11/15/79-10/22/86	83	6.6	6.578	6.8	6.3	0.015	0.123	6.4	6.5	6.7	6.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-10/22/86	83	0.251	0.264	0.501	0.158	0.006	0.079	0.2	0.2	0.316	0.398
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	153	7.	6.882	17.	2.	3.157	1.777	5.	6.	7.	8.6
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	67	0.	1.403	53.	0.	58.82	7.669	0.	0.	0.	0.
00430	ALKALINITY, CARBONATE (MG/L AS CACO3)	09/08/80-12/11/80	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	68	7.	6.765	12.	4.	2.481	1.575	5.	5.25	8.	9.
00435	ACIDITY, TOTAL (MG/L AS CACO3)	08/04/70-08/04/70	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00436	ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	08/04/70-08/04/70	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	91	29.	28.846	67.	8.	129.998	11.402	14.	21.	35.	40.8
00505	RESIDUE, TOTAL VOLATILE (MG/L)	10/31/80-01/16/85	48	13.5	13.198	31.	0.5	62.21	7.887	2.9	6.25	17.75	24.3
00510	RESIDUE, TOTAL FIXED (MG/L)	10/31/80-01/16/85	48	16.	15.729	33.	1.	41.521	6.444	7.	12.	19.75	23.1
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/25/73-11/21/74	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	08/04/70-06/25/73	6##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	92	2.	2.88	16.	0.5	6.436	2.537	0.5	1.	4.	5.
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/31/80-01/16/85	48	2.	1.896	5.	0.5	2.18	1.477	0.5	0.5	3.	4.1

** - 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: GRSM0055

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00540 RESIDUE, FIXED NONFILTRABLE (MG/L)	10/31/80-01/16/85	48##	0.5	1.302	6.	0.5	1.955	1.398	0.5	0.5	1.75	4.
00600 NITROGEN, TOTAL (MG/L AS N)	06/25/73-11/21/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	111##	0.025	0.031	0.12	0.005	0.	0.021	0.01	0.025	0.03	0.06
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	113	0.1	0.116	0.6	0.005	0.008	0.089	0.05	0.05	0.2	0.2
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	113	0.16	0.307	16.	0.09	2.221	1.49	0.124	0.14	0.18	0.21
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	06/20/68-11/21/74	12	9.	8.483	10.7	3.3	3.736	1.933	4.53	7.7	9.775	10.49
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	05/28/75-05/28/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	124##	0.025	0.027	0.1	0.005	0.001	0.024	0.01	0.01	0.025	0.04
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	08/09/77-12/11/80	11##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
00740 SULFITE (MG/L AS SO3)	06/25/73-11/21/74	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
00745 SULFIDE, TOTAL (MG/L AS S)	06/20/68-06/25/73	11##	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1
00900 HARDNESS, TOTAL (MG/L AS CACO3)	02/15/77-08/20/86	21	6.	5.667	8.	2.	3.033	1.742	2.2	5.	6.5	8.
00916 CALCIUM, TOTAL (MG/L AS CA)	02/15/77-03/21/78	8	1.3	4.563	25.	0.8	69.251	8.322	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	02/15/77-10/18/77	4	0.55	2.025	6.5	0.5	8.902	2.984	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)	02/15/77-10/18/77	4	1.55	1.475	1.8	1.	0.129	0.359	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	02/15/77-04/25/78	6	0.75	0.917	2.	0.5	0.342	0.585	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	02/15/77-08/29/78	6##	2.5	3.083	6.	2.5	2.042	1.429	**	**	**	**
00951 FLUORIDE, TOTAL (MG/L AS F)	02/15/77-08/29/78	7	0.1	0.136	0.4	0.05	0.016	0.128	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	06/25/73-11/21/74	2	247.5	247.5	270.	225.	1012.5	31.82	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	05/29/74-08/20/86	41##	5.	7.195	90.	5.	176.311	13.278	5.	5.	5.	5.
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	07/15/81-11/29/84	4	2.05	2.85	5.9	1.4	4.243	2.06	**	**	**	**
01004 ARSENIC TOTAL IN FISH OR ANIMAL WET WT MG/KG	02/22/82-02/22/82	2##	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
01007 BARIUM, TOTAL (UG/L AS BA)	08/09/77-08/09/77	1##	500.	500.	500.	500.	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	08/09/77-08/09/77	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	05/29/74-08/20/86	54##	25.	20.296	50.	1.	77.948	8.829	10.	10.	25.	25.
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/15/81-11/29/84	4##	0.25	0.225	0.3	0.1	0.007	0.087	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	07/15/81-11/29/84	4	8.2	10.3	20.	4.8	44.553	6.675	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	06/25/73-11/21/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	05/28/75-08/20/86	53##	25.	23.868	25.	2.5	17.444	4.177	25.	25.	25.	25.
01037 COBALT, TOTAL (UG/L AS CO)	05/29/74-09/14/81	32##	50.	49.219	50.	25.	19.531	4.419	50.	50.	50.	50.
01040 COPPER, DISSOLVED (UG/L AS CU)	06/25/73-11/21/74	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	05/29/74-08/20/86	54##	20.	75.111	3000.	1.	164672.176	405.798	10.	10.	20.	40.
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	07/15/81-11/29/84	4	12.5	12.	13.	10.	2.	1.414	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	05/29/74-09/14/81	36	100.	109.583	400.	25.	6826.25	82.621	50.	50.	167.5	200.
01051 LEAD, TOTAL (UG/L AS PB)	05/29/74-08/20/86	53##	50.	51.509	100.	5.	264.985	16.278	50.	50.	50.	50.
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	07/15/81-11/29/84	4	15.5	15.	18.	11.	10.	3.162	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	05/29/74-09/14/81	34##	25.	62.353	370.	25.	5774.599	75.991	25.	25.	70.	100.
01067 NICKEL, TOTAL (UG/L AS NI)	02/15/77-08/20/86	33##	50.	53.939	300.	5.	2058.996	45.376	25.	50.	50.	50.
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	11/05/81-11/29/84	3	11.	9.733	11.	7.2	4.813	2.194	**	**	**	**
01069 NICKEL, TOTAL IN FISH OR ANIMALS-WET WEIGHT MG/KG	02/22/82-02/22/82	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)	10/15/69-06/25/73	5	20.	188.	500.	10.	58470.	241.806	**	**	**	**
01077 SILVER, TOTAL (UG/L AS AG)	08/09/77-08/09/77	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	05/29/74-08/20/86	53##	25.	161.34	7000.	1.	917502.613	957.864	10.	10.	25.	90.
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	11/05/81-11/29/84	3	66.	69.333	90.	52.	369.333	19.218	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	02/15/77-08/20/86	12	100.	122.917	400.	25.	10620.265	103.055	32.5	50.	175.	340.
01132 LITHIUM, TOTAL (UG/L AS LI)	06/25/73-08/09/77	3	25.	25.	50.	0.	625.	25.	**	**	**	**
31504 COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,35C	04/15/85-04/15/85	1	15.	15.	15.	15.	0.	0.	**	**	**	**
31504 LOG COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,	04/15/85-04/15/85	1	1.176	1.176	1.176	1.176	0.	0.	**	**	**	**
31504 GM COLIFORM,TOT,MEMBR FILTER,IMMED,LES ENDO AGAR,3		GEOMETRIC MEAN =		15.								
31508 COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/21/74	12	6.	6.083	7.	4.	0.629	0.793	4.6	6.	6.75	7.
31508 LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/21/74	12	0.778	0.78	0.845	0.602	0.004	0.064	0.655	0.778	0.828	0.845
31508 GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.		GEOMETRIC MEAN =		6.029								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	145##	5.	17.759	500.	5.	2963.865	54.441	5.	5.	10.	30.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	145##	0.699	0.92	2.699	0.699	0.14	0.374	0.699	0.699	1.	1.477
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		8.324								
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID, METH.	06/25/73-11/21/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID, METH.	06/20/68-11/21/74	11	84.	80.364	99.	37.	289.655	17.019	43.8	73.	92.	98.4
34680 ALDRIN IN FISH TISSUE WET WEIGHT MG/KG	02/22/82-02/22/82	2##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
34684 DIELDRIN TISMG/KG	02/22/82-02/22/82	2##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
34685 ENDRIN WET WGTTISMG/KG	07/15/81-02/22/82	3##	0.02	6.68	20.	0.02	133.067	11.535	**	**	**	**
34688 HEXACHLOROBENZENE WET WGTTISMG/KG	07/15/81-02/22/82	3##	0.005	1.67	5.	0.005	8.317	2.884	**	**	**	**
39060 PCP (PENTACHLOROPHENOL) IN TISSUE WET WGT UG/G	07/15/81-02/22/82	3##	1.	334.	1000.	1.	332667.	576.773	**	**	**	**
39063 CHLORDANE-CIS ISOMER,TISSUE WET WGT (UG/G)	02/22/82-02/22/82	2##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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: GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39064	CHLORDANE-CIS ISOMER BOTTOM DEPOS (UG/KG DRY SOL	07/15/81-07/15/81	1##	30.	30.	30.	30.	0.	0.	**	**	**	**
39066	CHLORDANE-TRANS ISOMER,TISSUE WET WGT (UG/G)	02/22/82-02/22/82	2##	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
39067	CHLORDANE-TRANS ISOMER,BOTTOM DEPOS(UG/KG DRY SL	07/15/81-07/15/81	1##	30.	30.	30.	30.	0.	0.	**	**	**	**
39072	CHLORDANE-NONACHLOR,TRANS ISO,TISSUE,WET WT,UG/G	02/22/82-02/22/82	2##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39073	CHLORDANE-NONACHLOR,TRANS ISO,BOTTOM DEP UG/KG	07/15/81-07/15/81	1##	10.	10.	10.	10.	0.	0.	**	**	**	**
39074	BHC-ALPHA ISOMER,TISSUE UG/G WET WGT	07/15/81-02/22/82	3##	0.005	1.67	5.	0.005	8.317	2.884	**	**	**	**
39075	BHC- GAMMA ISOMER, TISSUE WET WGT (UG/G)	07/15/81-02/22/82	3##	0.005	1.67	5.	0.005	8.317	2.884	**	**	**	**
39290	DDT TOTAL IN TISSUE WET WGT BASIS (UG/G)	02/22/82-02/22/82	2##	0.045	0.045	0.045	0.045	0.	0.	**	**	**	**
39301	P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	1##	35.	35.	35.	35.	0.	0.	**	**	**	**
39302	P P DDT IN TISSUE WET WGT (UG/G)	02/22/82-02/22/82	2##	0.035	0.035	0.035	0.035	0.	0.	**	**	**	**
39306	O,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	1##	10.	10.	10.	10.	0.	0.	**	**	**	**
39311	P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	1##	20.	20.	20.	20.	0.	0.	**	**	**	**
39312	P P DDD IN TISSUE WET WGT (UG/G)	02/22/82-02/22/82	2##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
39316	O,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	1##	10.	10.	10.	10.	0.	0.	**	**	**	**
39318	O,P' DDT IN FISH OR ANIMAL BY WET WEIGHT UG/KG	02/22/82-02/22/82	2##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39321	P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	1##	10.	10.	10.	10.	0.	0.	**	**	**	**
39322	P,P'-DDE IN TISSUE WET WGT MG/KG	02/22/82-02/22/82	2##	0.045	0.045	0.08	0.01	0.002	0.049	**	**	**	**
39325	O,P DDD IN TISSUE WET WGT (UG/G)	02/22/82-02/22/82	2##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39328	O,P'DDE IN BOTTOM DEPOS (UG/KG DRY SOLIDS)	07/15/81-07/15/81	1##	10.	10.	10.	10.	0.	0.	**	**	**	**
39329	O,P DDE IN TISSUE, WET WGT(UG/G)	02/22/82-02/22/82	2##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39333	ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/15/81-07/15/81	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
39373	DDT IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	07/15/81-07/15/81	1##	45.	45.	45.	45.	0.	0.	**	**	**	**
39383	DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	07/15/81-07/15/81	1##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
39482	METHOXYCHLOR IN FISH - UG/KG	07/15/81-02/22/82	3##	40.	40.	40.	40.	0.	0.	**	**	**	**
39515	PCBS (MG/KG) FISH TISSUE MG/KG	07/15/81-02/22/82	3##	0.2	66.8	200.	0.2	13306.68	115.355	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/25/73-11/21/74	2	41.5	41.5	50.	33.	144.5	12.021	**	**	**	**
70305	SALINITY BASED ON CONDUCTIVITY	02/27/74-12/08/75	5	0.	0.28	0.9	0.	0.167	0.409	**	**	**	**
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	91##	0.025	0.016	0.05	0.005	0.	0.01	0.005	0.005	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)	08/04/70-08/20/86	49##	0.25	0.384	4.9	0.1	0.572	0.756	0.1	0.1	0.25	0.5
71921	MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	07/15/81-11/29/84	4	0.08	0.12	0.25	0.07	0.008	0.087	**	**	**	**
71930	MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	02/22/82-02/22/82	2##	0.055	0.055	0.1	0.01	0.004	0.064	**	**	**	**
71936	LEAD,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71937	COPPER,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	2##	0.6	0.6	1.	0.2	0.32	0.566	**	**	**	**
71938	ZINC,TOTAL IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	2	11.9	11.9	18.	5.8	74.42	8.627	**	**	**	**
71939	CHROMIUM,TOT IN FISH OR ANIMALS-WET WEIGHT BASIS	02/22/82-02/22/82	2##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
71940	CADMIUM,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	02/22/82-02/22/82	2##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	03/06/84-03/06/84	1	50.	50.	50.	50.	0.	0.	**	**	**	**
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	120	5838.5	5071.092	10649.	0.	8298015.664	2880.628	0.	3075.	7335.25	8130.
81647	REFERENCE POINT READING(LINEAR FEET)	10/17/78-10/17/78	1	38.6	38.6	38.6	38.6	0.	0.	**	**	**	**
81656	MAGNESIUM IN FISH TISSUE WET WEIGHT MG/KG	02/22/82-02/22/82	2	220.	220.	230.	210.	200.	14.142	**	**	**	**
81666	ALUMINUM IN FISH TISSUE WET WEIGHT MG/KG	02/22/82-02/22/82	2	33.85	33.85	62.	5.7	1584.845	39.81	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0055

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076	TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	110	1	0.01	52	0	0.00	58	1	0.02						
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	154	1	0.01	70	1	0.01	84	0	0.00						
00400	PH	Other-Hi Lim.	9.	140	0	0.00	63	0	0.00	77	0	0.00						
		Other-Lo Lim.	6.5	140	64	0.46	63	25	0.40	77	39	0.51						
00403	PH, LAB	Other-Hi Lim.	9.	83	0	0.00	42	0	0.00	41	0	0.00						
		Other-Lo Lim.	6.5	83	25	0.30	42	7	0.17	41	18	0.44						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	113	1	0.01	53	0	0.00	60	1	0.02						
00940	CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	6	0	0.00	3	0	0.00	3	0	0.00						
00945	SULFATE, TOTAL (AS SO4)	Drinking Water	400.	6	0	0.00	3	0	0.00	3	0	0.00						
01000	ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00	1	0	0.00						
		Drinking Water	50.	2	2	1.00	1	1	1.00	1	1	1.00						
01002	ARSENIC, TOTAL	Fresh Acute	360.	41	0	0.00	20	0	0.00	21	0	0.00						
		Drinking Water	50.	41	1	0.02	20	1	0.05	21	0	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 1984 - Station GRSM0055

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00400 PH (STANDARD UNITS)	06/20/68-10/22/86	10	6.65	6.63	7.	6.1	0.082	0.287	6.12	6.45	6.9	6.99
00400 CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	10	6.647	6.539	7.	6.1	0.091	0.302	6.12	6.45	6.9	6.99
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	10	0.225	0.289	0.794	0.1	0.046	0.215	0.103	0.126	0.362	0.765
00403 PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	12	6.7	6.633	6.8	6.4	0.019	0.137	6.4	6.525	6.7	6.8
00403 CONVERTED PH, LAB, STANDARD UNITS	11/15/79-10/22/86	12	6.7	6.612	6.8	6.4	0.019	0.139	6.4	6.525	6.7	6.8
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-10/22/86	12	0.2	0.244	0.398	0.158	0.007	0.084	0.158	0.2	0.3	0.398
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	12	7.	6.75	8.	5.	0.75	0.866	5.3	6.	7.	8.
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	10	6.	6.	8.	5.	0.889	0.943	5.	5.	6.25	7.9
00500 RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	12	28.5	27.75	38.	14.	54.023	7.35	16.1	21.	32.75	38.
00505 RESIDUE, TOTAL VOLATILE (MG/L)	10/31/80-01/16/85	12	14.	14.333	31.	7.	38.424	6.199	7.3	10.25	16.	27.1
00510 RESIDUE, TOTAL FIXED (MG/L)	10/31/80-01/16/85	12	14.5	13.417	22.	6.	28.083	5.299	6.3	7.75	17.75	21.1
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	12	2.	2.458	5.	0.5	1.703	1.305	0.65	2.	3.75	4.7
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/31/80-01/16/85	12	2.	2.083	5.	0.5	1.856	1.362	0.5	1.	2.75	4.7
00540 RESIDUE, FIXED NONFILTRABLE (MG/L)	10/31/80-01/16/85	12##	0.5	0.833	4.	0.5	1.015	1.008	0.5	0.5	0.5	3.1
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	12	0.025	0.028	0.06	0.01	0.	0.018	0.01	0.01	0.038	0.06
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	12##	0.075	0.108	0.2	0.05	0.005	0.07	0.05	0.05	0.2	0.2
00630 NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)	05/29/74-10/22/86	12	0.15	0.154	0.21	0.13	0.001	0.025	0.13	0.13	0.17	0.198
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	12	0.01	0.015	0.05	0.01	0.	0.012	0.01	0.01	0.018	0.041
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	12##	5.	8.333	30.	5.	51.515	7.177	5.	5.	10.	24.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	12##	0.699	0.839	1.477	0.699	0.058	0.242	0.699	0.699	1.	1.334
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN = 6.904											
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	12##	0.005	0.005	0.01	0.005	0.	0.001	0.005	0.005	0.005	0.009
72034 FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	10	6962.	6611.9	7692.	4301.	1105565.878	1051.459	4445.8	5851.	7425.25	7670.2

** - 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 GRSM0055

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-10/22/86	12	11.	12.5	20.	8.	15.5	3.937	8.	9.25	15.5	19.4
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/26/73-08/20/86	5	1.7	1.96	4.4	0.5	2.183	1.477	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/10/81-08/20/86	12	26.	25.083	28.	15.	11.174	3.343	17.7	25.	26.75	27.7
00300p OXYGEN, DISSOLVED MG/L	06/20/68-10/22/86	12	9.9	9.467	11.7	6.2	3.013	1.736	6.35	8.1	10.75	11.49
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-09/06/85	6	94.	93.	103.	78.	69.2	8.319	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	11/26/73-08/20/86	4	0.75	0.75	1.2	0.3	0.177	0.42	**	**	**	**
00400 PH (STANDARD UNITS)	06/20/68-10/22/86	12	6.6	6.617	6.9	6.4	0.023	0.153	6.43	6.5	6.675	6.9
00400 CONVERTED PH (STANDARD UNITS)	06/20/68-10/22/86	12	6.6	6.594	6.9	6.4	0.024	0.155	6.43	6.5	6.675	6.9
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-10/22/86	12	0.251	0.255	0.398	0.126	0.006	0.079	0.126	0.212	0.316	0.374
00403 PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	11	6.6	6.609	6.8	6.4	0.013	0.114	6.42	6.5	6.7	6.78
00403 CONVERTED PH, LAB, STANDARD UNITS	11/15/79-10/22/86	11	6.6	6.595	6.8	6.4	0.013	0.115	6.42	6.5	6.7	6.78
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-10/22/86	11	0.251	0.254	0.398	0.158	0.005	0.068	0.167	0.2	0.316	0.382
00410p ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	11	7.	7.455	9.	6.	0.873	0.934	6.2	7.	8.	9.
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	11	7.	7.455	9.	6.	0.873	0.934	6.2	7.	8.	9.
00500 RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	11	27.	28.273	57.	11.	206.418	14.367	11.4	16.	33.	55.2
00505 RESIDUE, TOTAL VOLATILE (MG/L)	10/31/80-01/16/85	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00510 RESIDUE, TOTAL FIXED (MG/L)	10/31/80-01/16/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	12	2.	3.	8.	1.	4.	2.	1.	2.	4.	7.1
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	10/31/80-01/16/85	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00540 RESIDUE, FIXED NONFILTRABLE (MG/L)	10/31/80-01/16/85	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	11	0.03	0.038	0.12	0.01	0.001	0.031	0.01	0.02	0.05	0.106
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	11	0.2	0.141	0.3	0.005	0.009	0.094	0.014	0.05	0.2	0.28
00630 NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)	05/29/74-10/22/86	11	0.17	0.17	0.2	0.13	0.001	0.025	0.13	0.15	0.19	0.2
00665 PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	11	0.01	0.01	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.02
31616p FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	10##	5.	7.	20.	5.	23.333	4.83	5.	5.	6.25	19.
31616p LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	10##	0.699	0.789	1.301	0.699	0.041	0.203	0.699	0.699	0.774	1.271
31616p GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	GEOMETRIC MEAN = 6.156											
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	11##	0.005	0.005	0.01	0.005	0.	0.002	0.005	0.005	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 1985 - Station GRSM0055

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE	CFS	11/24/75-09/23/86	12	4573.5	4158.333	6713.	0.	4480128.97	2116.632	445.5	2746.	6072.	6668.3

** - 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

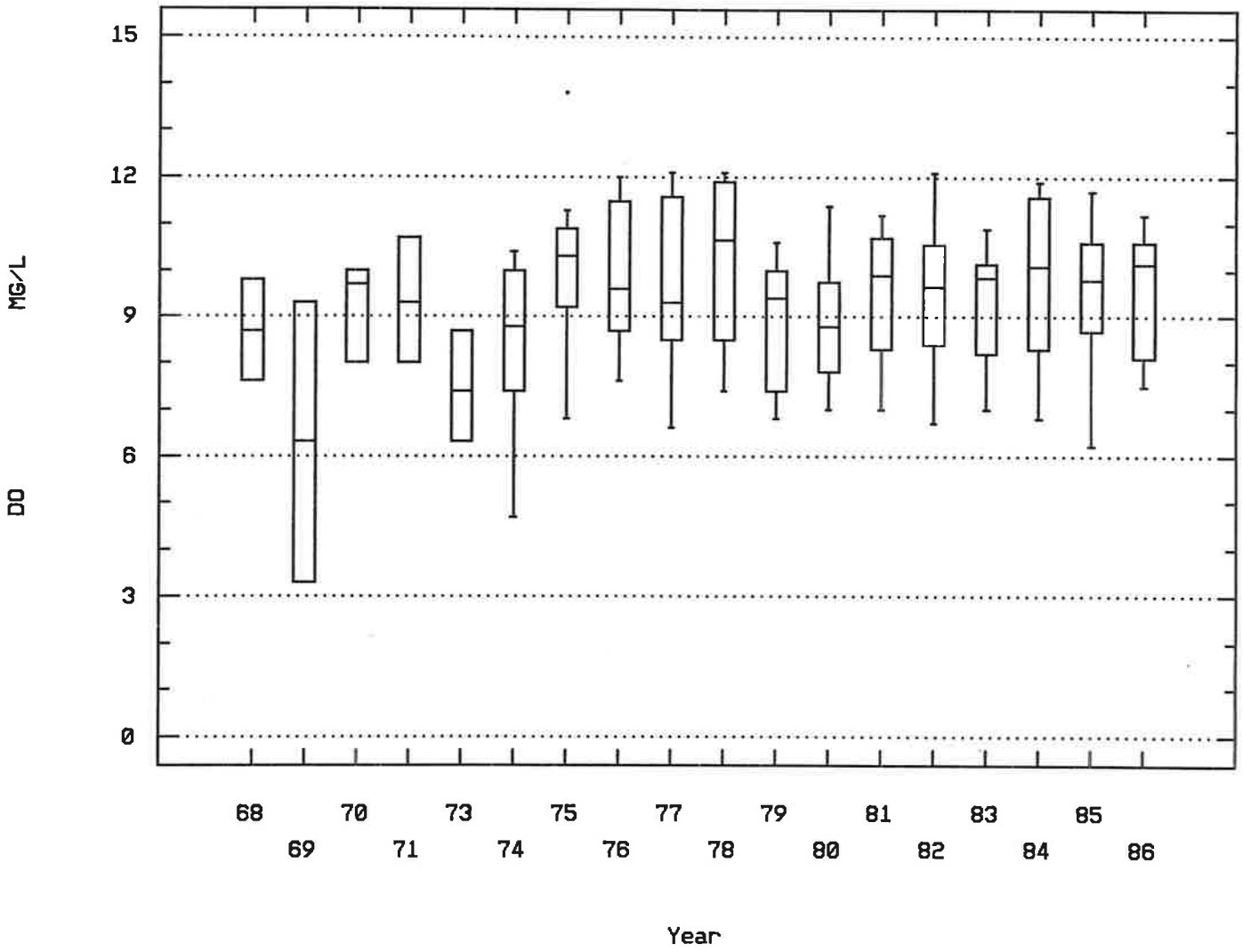
Annual Analysis for 1986 - Station GRSM0055

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-10/22/86	10	11.5	11.1	18.	6.	13.878	3.725	6.1	7.75	13.25	17.6
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		11/26/73-08/20/86	3##	0.5	0.767	1.3	0.5	0.213	0.462	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		05/10/81-08/20/86	7	23.	23.857	28.	22.	6.476	2.545	**	**	**	**
00300p	OXYGEN, DISSOLVED	MG/L	06/20/68-10/22/86	10	10.15	9.59	11.2	7.5	1.988	1.41	7.51	7.975	10.675	11.17
00310	BOD, 5 DAY, 20 DEG C	MG/L	11/26/73-08/20/86	3	0.6	0.5	0.8	0.1	0.13	0.361	**	**	**	**
00400	PH (STANDARD UNITS)		06/20/68-10/22/86	10	6.75	6.75	7.1	6.5	0.049	0.222	6.5	6.5	6.925	7.09
00400	CONVERTED PH (STANDARD UNITS)		06/20/68-10/22/86	10	6.747	6.701	7.1	6.5	0.052	0.228	6.5	6.5	6.925	7.09
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-10/22/86	10	0.179	0.199	0.316	0.079	0.009	0.095	0.081	0.119	0.316	0.316
00403	PH, LAB, STANDARD UNITS	SU	11/15/79-10/22/86	10	6.65	6.58	6.8	6.3	0.028	0.169	6.31	6.4	6.7	6.79
00403	CONVERTED PH, LAB, STANDARD UNITS		11/15/79-10/22/86	10	6.647	6.55	6.8	6.3	0.029	0.172	6.31	6.4	6.7	6.79
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/15/79-10/22/86	10	0.225	0.282	0.501	0.158	0.013	0.115	0.163	0.2	0.398	0.491
00410p	ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-10/22/86	10	7.	7.4	9.	6.	0.711	0.843	6.1	7.	8.	8.9
00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)		06/25/80-10/22/86	10	8.	8.2	12.	6.	3.511	1.874	6.	6.75	9.25	11.8
00500	RESIDUE, TOTAL (MG/L)		02/15/77-10/22/86	10	28.	29.3	54.	13.	190.9	13.817	13.1	15.5	40.25	53.3
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)		02/15/77-10/22/86	10	2.	2.15	4.	0.5	1.669	1.292	0.55	1.	3.25	4.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/28/75-10/22/86	9	0.01	0.014	0.03	0.01	0.	0.007	0.01	0.01	0.02	0.03
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		05/29/74-10/22/86	9	0.1	0.172	0.6	0.05	0.033	0.18	0.05	0.05	0.25	0.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		05/29/74-10/22/86	9	0.19	0.192	0.21	0.17	0.	0.013	0.17	0.185	0.205	0.21
00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/20/68-10/22/86	9	0.01	0.009	0.02	0.005	0.	0.005	0.005	0.005	0.01	0.02
31616p	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		10/15/69-10/22/86	10##	5.	5.5	10.	5.	2.5	1.581	5.	5.	5.	9.5
31616p	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		10/15/69-10/22/86	10##	0.699	0.729	1.	0.699	0.009	0.095	0.699	0.699	0.699	0.97
31616p	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		5.359									
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)		05/17/77-10/22/86	9##	0.005	0.005	0.005	0.005	0.	0.	0.005	0.005	0.005	0.005
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE	CFS	11/24/75-09/23/86	9	3392.	2540.667	6297.	0.	4950062.75	2224.874	0.	0.	3909.	6297.

** - Less than 9 observations ## - Computed 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: GRSM0055 Parameter Code: 00300

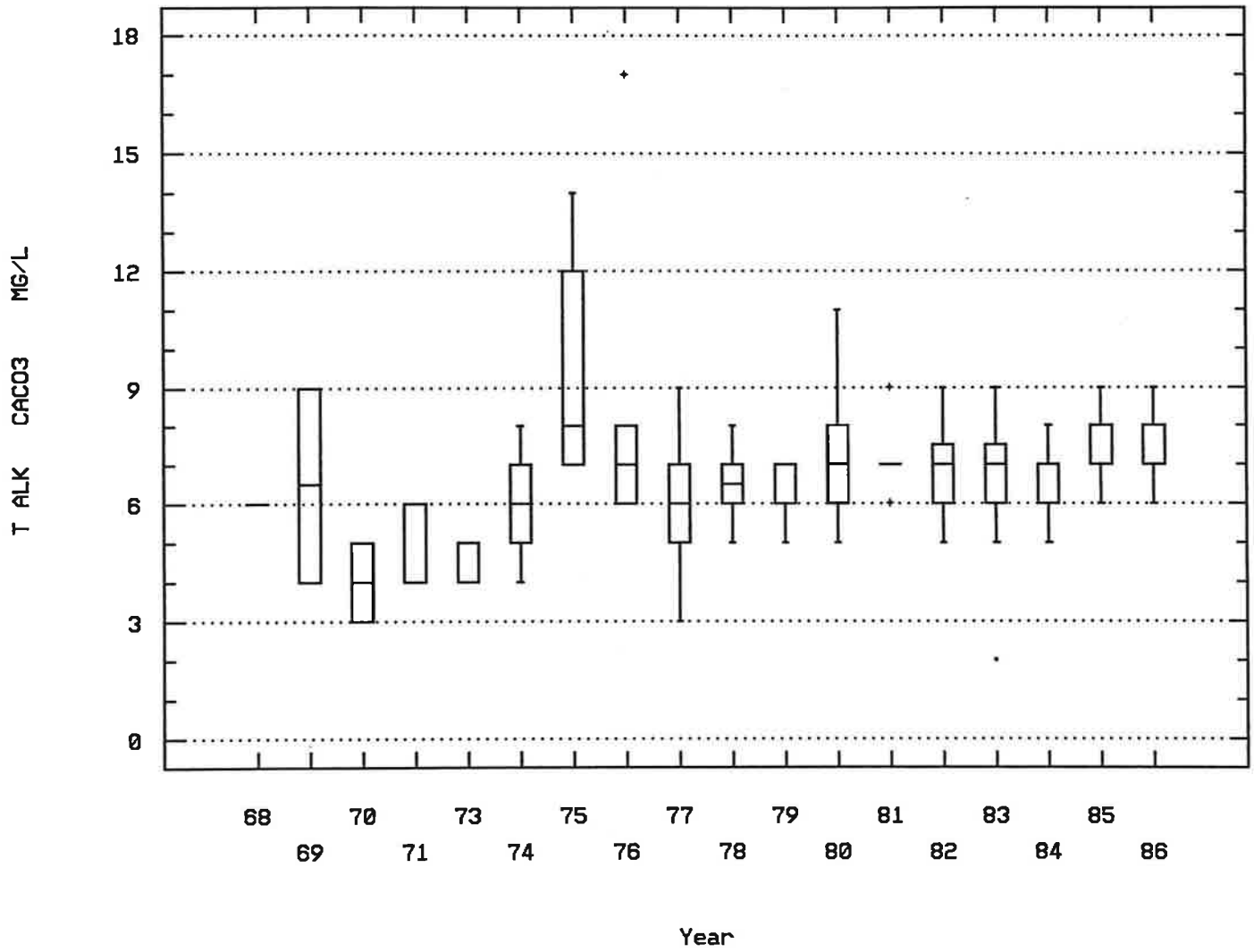
OXYGEN, DISSOLVED



LITTLE TENNESSEE RIVER AT TAPOCO NC

Station: GRSM0055 Parameter Code: 00410

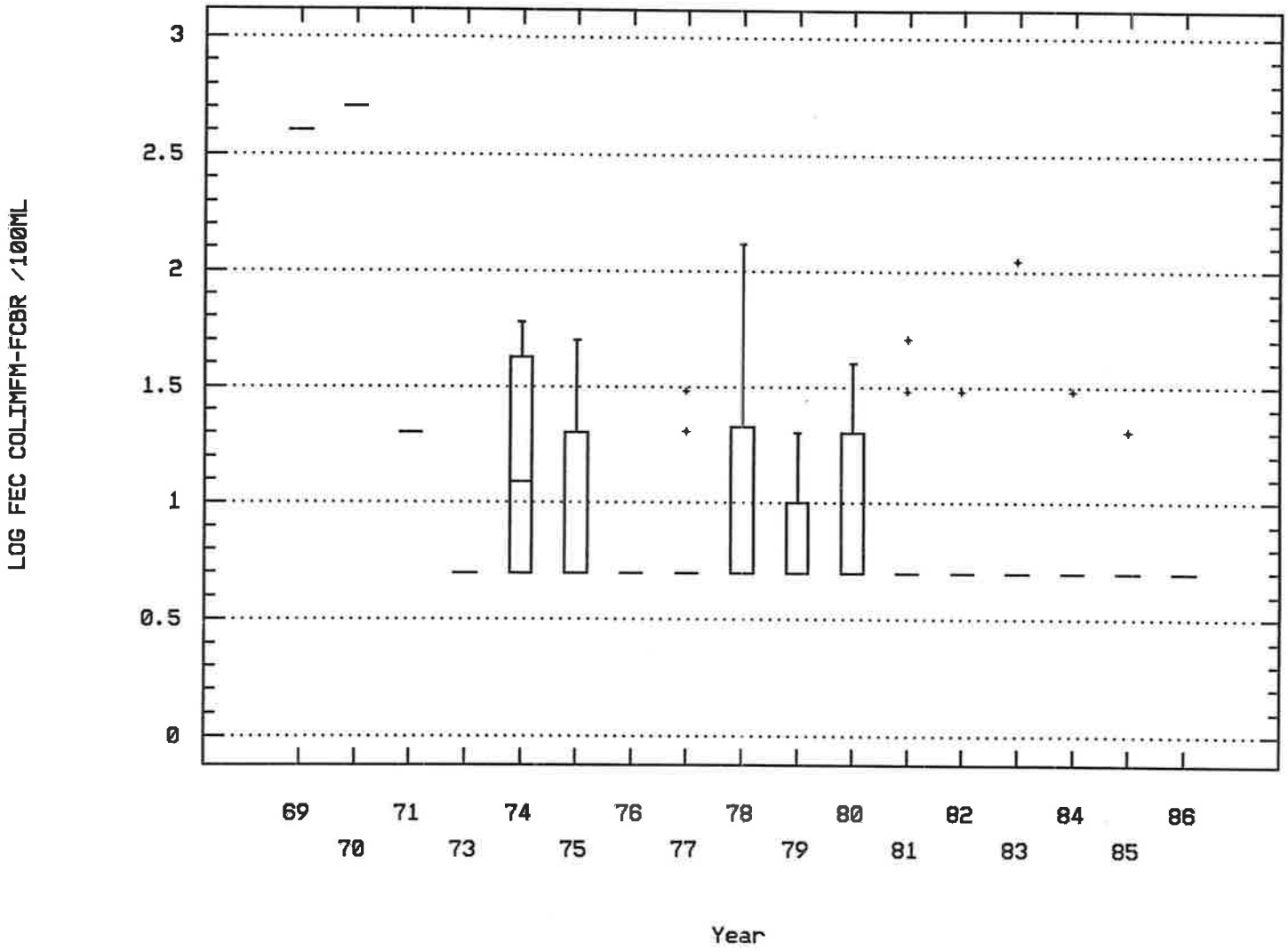
ALKALINITY, TOTAL (MG/L AS CACO3)



LITTLE TENNESSEE RIVER AT TAPOCO NC

Station: GRSM0055 Parameter Code: 31616

LOG FECAL COLIFORM,MEMBR FILTER,M-FC BR



LITTLE TENNESSEE RIVER AT TAPOCO NC

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0055

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-10/22/86	71	10.	10.901	21.	4.	18.669	4.321	6.	7.	14.	17.8
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		11/26/73-08/20/86	52	3.9	4.642	19.	0.5	15.289	3.91	1.	1.925	5.425	10.7
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		02/27/74-12/07/81	24	20.5	33.625	220.	10.	1787.114	42.274	10.	19.25	29.	63.5
00300	OXYGEN, DISSOLVED	MG/L	06/20/68-10/22/86	70	9.85	9.389	13.8	3.3	4.065	2.016	6.71	7.675	10.975	11.7
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	06/20/68-09/06/85	34	84.5	83.	113.	37.	240.788	15.517	65.	72.	94.	97.
00310	BOD, 5 DAY, 20 DEG C	MG/L	11/26/73-08/20/86	61	0.4	0.439	1.5	0.05	0.073	0.27	0.2	0.3	0.5	0.8
00335	COD, .025N K2CR207	MG/L	11/26/73-12/31/84	23##	2.5	4.13	12.5	2.5	8.3	2.881	2.5	2.5	5.	9.5
00340	COD, .25N K2CR207	MG/L	04/02/74-04/16/81	35##	5.	6.286	12.5	5.	8.225	2.868	5.	5.	5.	12.5
00400	PH (STANDARD UNITS)		06/20/68-10/22/86	63	6.6	6.567	7.1	5.7	0.068	0.262	6.3	6.5	6.7	6.9
00400	CONVERTED PH (STANDARD UNITS)		06/20/68-10/22/86	63	6.6	6.469	7.1	5.7	0.078	0.279	6.3	6.5	6.7	6.9
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-10/22/86	63	0.251	0.34	1.995	0.079	0.104	0.323	0.126	0.2	0.316	0.501
00403	PH, LAB, STANDARD UNITS	SU	11/15/79-10/22/86	42	6.6	6.629	6.8	6.4	0.012	0.109	6.43	6.6	6.7	6.8
00403	CONVERTED PH, LAB, STANDARD UNITS		11/15/79-10/22/86	42	6.6	6.615	6.8	6.4	0.012	0.11	6.43	6.6	6.7	6.8
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/15/79-10/22/86	42	0.251	0.243	0.398	0.158	0.004	0.065	0.158	0.2	0.251	0.374
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		06/20/68-10/22/86	72	7.	7.236	17.	3.	3.31	1.819	5.3	6.	8.	9.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		06/20/68-09/08/80	28	0.	3.357	53.	0.	136.979	11.704	0.	0.	0.	9.7
00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)		06/25/80-10/22/86	32	7.	7.156	10.	5.	1.362	1.167	6.	6.	8.	9.
00500	RESIDUE, TOTAL (MG/L)		02/15/77-10/22/86	45	27.	27.356	48.	8.	101.007	10.05	13.	20.	35.5	40.4
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)		02/15/77-10/22/86	45	2.	2.922	16.	0.5	7.488	2.736	0.5	1.	4.	5.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/28/75-10/22/86	53	0.025	0.037	0.12	0.005	0.001	0.027	0.01	0.025	0.05	0.076
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)		05/29/74-10/22/86	53	0.1	0.113	0.3	0.005	0.005	0.07	0.05	0.05	0.2	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		05/29/74-10/22/86	53	0.15	0.15	0.2	0.09	0.001	0.027	0.11	0.13	0.17	0.186
00665	PHOSPHORUS, TOTAL (MG/L AS P)		06/20/68-10/22/86	55##	0.025	0.023	0.1	0.005	0.	0.017	0.01	0.01	0.025	0.025
00900	HARDNESS, TOTAL (MG/L AS CACO3)		02/15/77-08/20/86	9	6.	6.111	8.	4.	1.111	1.054	4.	6.	6.5	8.
01002	ARSENIC, TOTAL (UG/L AS AS)		05/29/74-08/20/86	20##	5.	9.25	90.	5.	361.25	19.007	5.	5.	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)		05/29/74-08/20/86	28##	25.	20.571	50.	1.	97.291	9.864	9.5	10.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)		05/28/75-08/20/86	28##	25.	23.75	25.	2.5	22.917	4.787	23.75	25.	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)		05/29/74-09/14/81	16##	50.	48.438	50.	25.	39.063	6.25	42.5	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)		05/29/74-08/20/86	28##	20.	17.357	40.	1.	51.497	7.176	9.5	10.	20.	20.
01045	IRON, TOTAL (UG/L AS FE)		05/29/74-09/14/81	17	100.	130.	400.	50.	10362.5	101.796	50.	50.	200.	320.
01051	LEAD, TOTAL (UG/L AS PB)		05/29/74-08/20/86	27##	50.	52.963	100.	5.	381.268	19.526	45.	50.	50.	100.
01055	MANGANESE, TOTAL (UG/L AS MN)		05/29/74-09/14/81	16	65.	91.563	370.	25.	10505.729	102.497	25.	25.	80.	335.
01067	NICKEL, TOTAL (UG/L AS NI)		02/15/77-08/20/86	19##	50.	46.316	50.	5.	132.895	11.528	25.	50.	50.	50.
01092	ZINC, TOTAL (UG/L AS ZN)		05/29/74-08/20/86	27##	25.	20.778	60.	1.	126.718	11.257	9.	10.	25.	25.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		10/15/69-10/22/86	69##	5.	14.565	400.	5.	2271.867	47.664	5.	5.	10.	30.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		10/15/69-10/22/86	69##	0.699	0.881	2.602	0.699	0.108	0.328	0.699	0.699	1.	1.477
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C				GEOMETRIC MEAN =	7.612								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)		05/17/77-10/22/86	42##	0.018	0.016	0.05	0.005	0.	0.011	0.005	0.005	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)		08/04/70-08/20/86	22##	0.25	0.5	4.9	0.1	1.173	1.083	0.1	0.1	0.25	1.685
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE	CFS	11/24/75-09/23/86	60	5725.	5110.6	10649.	0.	8992247.295	2998.708	0.	2714.25	7271.	8130.

** - Less than 9 observations ## - Computed 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: 4/01 to 9/30 - Station GRSM0055

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		06/20/68-10/22/86	84	13.	13.095	19.	8.	7.816	2.796	9.	11.	15.	17.
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)		11/26/73-08/20/86	58	2.2	3.772	57.	0.07	54.828	7.405	0.5	1.2	4.075	6.33
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		02/27/74-12/07/81	28	20.	21.786	40.	15.	27.656	5.259	15.	20.	23.	30.2
00300	OXYGEN, DISSOLVED	MG/L	06/20/68-10/22/86	84	9.4	9.358	12.	6.8	1.655	1.286	7.6	8.4	10.4	10.85
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION	%	06/20/68-09/06/85	49	90.	90.02	109.	69.	86.062	9.277	78.	83.	97.	103.
00310	BOD, 5 DAY, 20 DEG C	MG/L	11/26/73-08/20/86	67	0.5	0.529	1.7	0.05	0.085	0.292	0.2	0.3	0.7	0.92
00335	COD, .025N K2CR207	MG/L	11/26/73-12/31/84	23##	2.5	3.696	5.	2.5	1.63	1.277	2.5	2.5	5.	5.
00340	COD, .25N K2CR207	MG/L	04/02/74-04/16/81	37##	5.	6.419	12.5	5.	8.868	2.978	5.	5.	5.	12.5
00400	PH (STANDARD UNITS)		06/20/68-10/22/86	77	6.5	6.469	7.1	3.6	0.186	0.432	6.08	6.325	6.7	6.82
00400	CONVERTED PH (STANDARD UNITS)		06/20/68-10/22/86	77	6.5	5.439	7.1	3.6	1.263	1.124	6.08	6.325	6.7	6.82
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		06/20/68-10/22/86	77	0.316	3.643	251.189	0.079	816.993	28.583	0.152	0.2	0.474	0.835

** - Less than 9 observations ## - Computed 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: 4/01 to 9/30 - Station GRSM0055

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403	PH, LAB, STANDARD UNITS SU	11/15/79-10/22/86	41	6.6	6.561	6.8	6.3	0.016	0.126	6.4	6.5	6.7	6.7
00403	CONVERTED PH, LAB, STANDARD UNITS	11/15/79-10/22/86	41	6.6	6.543	6.8	6.3	0.016	0.128	6.4	6.5	6.7	6.7
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/15/79-10/22/86	41	0.251	0.287	0.501	0.158	0.008	0.087	0.2	0.2	0.316	0.398
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-10/22/86	81	7.	6.568	14.	2.	2.848	1.688	5.	6.	7.	8.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-09/08/80	39	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00431	ALKALINITY TOATL FIELD, (MG/L AS CACO3)	06/25/80-10/22/86	36	6.	6.417	12.	4.	3.279	1.811	4.7	5.	8.	9.
00500	RESIDUE, TOTAL (MG/L)	02/15/77-10/22/86	46	30.5	30.304	67.	11.	156.839	12.524	15.4	21.75	35.25	49.1
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	02/15/77-10/22/86	47	2.	2.84	11.	0.5	5.566	2.359	0.5	1.	4.	5.4
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/28/75-10/22/86	58##	0.025	0.026	0.07	0.01	0.	0.011	0.01	0.02	0.025	0.04
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	05/29/74-10/22/86	60	0.1	0.119	0.6	0.05	0.011	0.103	0.05	0.05	0.1	0.2
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/29/74-10/22/86	60	0.17	0.446	16.	0.1	4.174	2.043	0.131	0.15	0.2	0.21
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/20/68-10/22/86	69##	0.025	0.03	0.1	0.005	0.001	0.028	0.01	0.01	0.025	0.1
00900	HARDNESS, TOTAL (MG/L AS CACO3)	02/15/77-08/20/86	12	6.	5.333	8.	2.	4.424	2.103	2.	3.25	6.75	8.
01002	ARSENIC, TOTAL (UG/L AS AS)	05/29/74-08/20/86	21##	5.	5.238	10.	5.	1.19	1.091	5.	5.	5.	5.
01027	CADMIUM, TOTAL (UG/L AS CD)	05/29/74-08/20/86	26##	25.	20.	25.	5.	60.	7.746	8.5	10.	25.	25.
01034	CHROMIUM, TOTAL (UG/L AS CR)	05/28/75-08/20/86	25##	25.	24.	25.	12.5	11.979	3.461	20.	25.	25.	25.
01037	COBALT, TOTAL (UG/L AS CO)	05/29/74-09/14/81	16##	50.	50.	50.	50.	0.	0.	50.	50.	50.	50.
01042	COPPER, TOTAL (UG/L AS CU)	05/29/74-08/20/86	26##	20.	137.308	3000.	5.	341290.462	584.201	8.5	10.	20.	65.
01045	IRON, TOTAL (UG/L AS FE)	05/29/74-09/14/81	19##	50.	91.316	200.	25.	3316.228	57.587	50.	50.	100.	200.
01051	LEAD, TOTAL (UG/L AS PB)	05/29/74-08/20/86	26##	50.	50.	100.	25.	150.	12.247	42.5	50.	50.	50.
01055	MANGANESE, TOTAL (UG/L AS MN)	05/29/74-09/14/81	18##	25.	36.389	90.	25.	422.958	20.566	25.	25.	50.	72.
01067	NICKEL, TOTAL (UG/L AS NI)	02/15/77-08/20/86	14##	50.	64.286	300.	25.	4684.066	68.44	25.	50.	50.	175.
01092	ZINC, TOTAL (UG/L AS ZN)	05/29/74-08/20/86	26##	25.	307.308	7000.	5.	1864776.462	1365.568	8.5	10.	82.5	119.
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	76##	5.	20.658	500.	5.	3612.895	60.107	5.	5.	10.	43.
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	10/15/69-10/22/86	76##	0.699	0.956	2.699	0.699	0.169	0.411	0.699	0.699	1.	1.631
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	9.028								
70507	PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	05/17/77-10/22/86	49##	0.025	0.016	0.025	0.005	0.	0.01	0.005	0.005	0.025	0.025
71900	MERCURY, TOTAL (UG/L AS HG)	08/04/70-08/20/86	27##	0.25	0.289	1.4	0.1	0.088	0.297	0.1	0.1	0.25	0.62
72034	FLOW, INSTANTANEOUS SPILLWAY DISCHARGE CFS	11/24/75-09/23/86	60	5881.	5031.583	8181.	0.	7741253.637	2782.311	0.	3300.5	7443.	8075.9

** - 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

Station Inventory for Station: GRSM0056

NPS Station ID: GRSM0056 LAT/LON: 35.450282/ -83.941949 Agency: 112WRD Date Created: / /
Location: LITTLE TENNESSEE RIVER AT TAPOCO N C FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03517533
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010204020 RF1 Mile Point: 13.730 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202000100.01 RF3 Mile Point: 0.00 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0056

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		05/21/68-02/21/73	14	11.5	11.5	17.	7.	9.192	3.032	7.5	8.	14.	16.
00060	FLOW, STREAM, MEAN DAILY	CFS	05/21/68-02/21/73	16	7580.	6571.188	8130.	1180.	4194385.229	2048.02	2370.	5567.5	7937.5	8081.
00080	COLOR (PLATINUM-COBALT UNITS)		05/21/68-05/24/72	11	5.	4.818	5.	3.	0.364	0.603	3.4	5.	5.	5.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/21/68-05/24/72	11	23.	22.364	26.	20.	2.655	1.629	20.2	21.	23.	25.4
00300	OXYGEN, DISSOLVED	MG/L	05/21/68-02/21/73	10	9.25	9.3	15.1	6.	5.931	2.435	6.12	7.5	10.025	14.6
00400	PH (STANDARD UNITS)		05/21/68-02/21/73	18	6.1	6.144	7.5	5.5	0.172	0.415	5.77	5.975	6.3	6.69
00400	CONVERTED PH (STANDARD UNITS)		05/21/68-02/21/73	18	6.1	6.02	7.5	5.5	0.188	0.434	5.77	5.975	6.3	6.69
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/21/68-02/21/73	18	0.794	0.955	3.162	0.032	0.467	0.683	0.229	0.501	1.065	1.743
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		05/21/68-05/24/72	14	4.5	4.429	6.	3.	0.725	0.852	3.	4.	5.	5.5
00440	BICARBONATE ION (MG/L AS HCO3)		05/21/68-05/24/72	11	6.	5.545	7.	4.	0.673	0.82	4.2	5.	6.	6.8
00445	CARBONATE ION (MG/L AS CO3)		05/21/68-05/24/72	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)		09/21/70-09/21/70	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00618	NITRATE NITROGEN, DISSOLVED (MG/L AS N)		10/05/71-05/24/72	3	0.5	0.487	0.56	0.4	0.007	0.081	**	**	**	**
00660	PHOSPHATE, ORTHO (MG/L AS PO4)		05/21/68-03/16/71	8	0.	0.005	0.04	0.	0.	0.014	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)		10/05/71-05/24/72	3	0.	0.005	0.015	0.	0.	0.009	**	**	**	**
00745	SULFIDE, TOTAL (MG/L AS S)		12/08/70-12/08/70	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)		05/21/68-05/24/72	11	6.	5.909	7.	5.	0.491	0.701	5.	5.	6.	7.
00902	HARDNESS, NON-CARBONATE (MG/L AS CACO3)		05/21/68-05/24/72	11	2.	1.273	2.	0.	0.818	0.905	0.	0.	2.	2.
00915	CALCIUM, DISSOLVED (MG/L AS CA)		05/21/68-05/24/72	11	1.4	1.482	2.2	1.2	0.076	0.275	1.2	1.3	1.6	2.08
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		05/21/68-05/24/72	11	0.5	0.509	0.8	0.3	0.019	0.138	0.32	0.4	0.5	0.78
00930	SODIUM, DISSOLVED (MG/L AS NA)		05/21/68-05/24/72	11	1.3	1.309	1.6	1.	0.029	0.17	1.02	1.2	1.4	1.58
00931	SODIUM ADSORPTION RATIO		05/21/68-05/24/72	11	0.2	0.245	0.3	0.2	0.003	0.052	0.2	0.2	0.3	0.3
00932	SODIUM, PERCENT		05/21/68-05/24/72	11	31.	30.182	34.	26.	7.764	2.786	26.	28.	33.	33.8
00935	POTASSIUM, DISSOLVED (MG/L AS K)		05/21/68-05/24/72	11	0.6	0.618	1.	0.4	0.03	0.172	0.42	0.5	0.7	0.96
00940	CHLORIDE,TOTAL IN WATER	MG/L	05/21/68-05/24/72	11	1.	1.164	2.	0.8	0.175	0.418	0.84	1.	1.	2.
00945	SULFATE, TOTAL (MG/L AS SO4)		05/21/68-05/24/72	11	2.	2.818	8.	1.	3.364	1.834	1.2	2.	3.	7.
00950	FLUORIDE, DISSOLVED (MG/L AS F)		05/21/68-05/24/72	11	0.	0.045	0.1	0.	0.003	0.052	0.	0.	0.1	0.1
00955	SILICA, DISSOLVED (MG/L AS SIO2)		05/21/68-05/24/72	11	6.5	6.391	7.1	5.3	0.291	0.539	5.36	6.2	6.8	7.06
01046	IRON, DISSOLVED (UG/L AS FE)		05/21/68-05/24/72	11	0.	3.727	21.	0.	68.818	8.296	0.	0.	0.	20.8
31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		09/21/70-10/05/71	3	30.	30.	50.	10.	400.	20.	**	**	**	**
31616	LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		09/21/70-10/05/71	3	1.477	1.392	1.699	1.	0.128	0.357	**	**	**	**
31616	GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C				GEOMETRIC MEAN =	24.662								
38260	METHYLENE BLUE ACTIVE SUBST. (DETERGENTS, ETC.)		05/21/68-05/24/72	11	0.02	0.021	0.05	0.	0.	0.018	0.	0.	0.04	0.048
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		05/21/68-05/24/72	10	20.5	21.3	29.	18.	14.678	3.831	18.	18.	23.25	28.8
70301	SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)		05/21/68-05/24/72	11	18.	18.636	22.	17.	2.055	1.433	17.	18.	19.	21.6
70302	SOLIDS, DISSOLVED-TONS PER DAY		05/21/68-05/24/72	8	313.5	344.375	585.	140.	16689.125	129.186	**	**	**	**
70303	SOLIDS, DISSOLVED-TONS PER ACRE-FT		05/21/68-05/24/72	11	0.03	0.028	0.04	0.02	0.	0.008	0.02	0.02	0.03	0.04
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)		05/21/68-03/16/71	8	1.8	1.713	2.8	0.5	0.496	0.704	**	**	**	**

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

Parameter Inventory for Station: GRSM0056

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71890 MERCURY, DISSOLVED (UG/L AS HG)	09/21/70-09/21/70	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	12/08/70-12/08/70	1##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0056

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	10	0	0.00	4	0	0.00	6	0	0.00						
00400 PH	Other-Hi Lim.	9.	18	0	0.00	10	0	0.00	8	0	0.00						
	Other-Lo Lim.	6.5	18	16	0.89	10	8	0.80	8	8	1.00						
00618 NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	3	0	0.00	2	0	0.00	1	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	11	0	0.00	6	0	0.00	5	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	11	0	0.00	6	0	0.00	5	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	3	0	0.00	2	0	0.00	1	0	0.00						
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	8	0	0.00	4	0	0.00	4	0	0.00						
71890 MERCURY, DISSOLVED	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
	Drinking Water	2.	1	0	0.00				1	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0057

NPS Station ID: GRSM0057 LAT/LON: 35.451392/ -83.804726 Agency: 131TVAC Date Created: / /
Location: FONTANA DAM SCROLL CASE FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 360116 /3944
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 061.00
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 61.0 ECO Region:
RF1 Index: 06010202009 RF1 Mile Point: 4.200 Distance from RF1: 20.90 On/Off RF1: ON
RF3 Index: 06010202045300.00 RF3 Mile Point: 0.99 Distance from RF3: 0.37 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	1155	10.	10.991	21.	4.	15.707	3.963	6.	8.	14.	17.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	836	5900.	6148.398	93000.	0.	30475694.748	5520.48	2600.	4200.	7500.	8800.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	68	3.75	4.507	25.	0.5	13.965	3.737	1.28	2.25	5.925	8.72
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	68	6.5	7.801	20.	1.	23.397	4.837	2.95	5.	10.	15.
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	01/28/74-09/19/77	45	15.	15.711	45.	1.	65.074	8.067	5.	10.	20.	25.8
00085	ODOR (THRESHOLD NUMBER AT ROOM TEMPERATURE)	05/04/66-01/30/67	8##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	04/29/88-04/29/88	1	26.	26.	26.	26.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	68	23.	25.353	47.	19.	38.351	6.193	20.	21.	28.	36.1
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	867	7.7	7.144	12.4	0.4	5.709	2.389	3.4	5.5	9.	9.8
00310	BOD, 5 DAY, 20 DEG C MG/L	05/04/66-06/17/80	20##	0.75	0.935	2.4	0.5	0.296	0.544	0.5	0.5	1.2	1.78
00335	COD, .025N K2CR2O7 MG/L	01/28/74-02/26/79	51	2.	2.922	12.	0.5	5.384	2.32	0.5	1.	4.	6.8
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	69	6.4	6.299	7.4	4.1	0.25	0.5	5.9	6.1	6.5	6.8
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	69	6.4	5.705	7.4	4.1	0.608	0.779	5.9	6.1	6.5	6.8
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/66-04/29/88	69	0.398	1.971	79.433	0.04	92.092	9.596	0.158	0.316	0.794	1.259
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	67	6.	7.	46.	0.	27.333	5.228	4.	5.	8.	9.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	67	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	10/24/66-01/30/67	3	30.	30.	40.	20.	100.	10.	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	10/24/66-01/30/67	3	20.	21.667	40.	5.	308.333	17.559	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	01/28/74-06/17/80	55##	0.5	1.473	9.	0.5	2.495	1.579	0.5	0.5	2.	3.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	67	0.06	0.071	0.31	0.005	0.004	0.059	0.01	0.02	0.11	0.16
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	67	0.03	0.048	0.26	0.005	0.004	0.061	0.005	0.01	0.05	0.144
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	05/04/66-01/30/67	8##	0.005	0.007	0.01	0.005	0.	0.003	**	**	**	**
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	05/04/66-01/30/67	8	0.045	0.064	0.17	0.005	0.003	0.059	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-06/17/80	59	0.2	0.25	0.49	0.07	0.013	0.116	0.13	0.17	0.33	0.44
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	67	0.01	0.016	0.166	0.005	0.	0.02	0.005	0.01	0.02	0.029
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	05/04/66-05/20/76	10	0.009	0.01	0.026	0.003	0.	0.007	0.003	0.005	0.014	0.025
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/20/79-06/17/80	9	0.01	0.01	0.03	0.005	0.	0.008	0.005	0.005	0.01	0.03
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/17/77-06/17/80	16	1.4	1.431	3.2	0.4	0.494	0.703	0.54	1.	1.825	2.57
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/20/79-03/20/79	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	03/20/79-06/17/80	9	7.	7.222	16.	3.	12.944	3.598	3.	5.5	7.5	16.
00916	CALCIUM, TOTAL (MG/L AS CA)	10/24/66-02/26/79	49	2.	2.049	7.	0.5	0.993	0.997	1.	2.	2.05	3.
00927	MAGNESIUM, TOTAL (MG/L AS MG)	10/24/66-02/26/79	49	0.6	0.731	5.	0.3	0.411	0.641	0.5	0.6	0.7	0.9
00929	SODIUM, TOTAL (MG/L AS NA)	01/28/74-02/26/79	46	1.3	1.561	3.5	0.9	0.431	0.656	1.1	1.1	1.625	2.83
00937	POTASSIUM, TOTAL MG/L AS K)	01/28/74-02/26/79	46	0.6	0.672	2.9	0.3	0.143	0.378	0.4	0.5	0.728	0.9
00940	CHLORIDE,TOTAL IN WATER MG/L	05/04/66-06/17/80	63	2.	2.19	5.	0.5	1.044	1.022	1.	2.	3.	3.6
00945	SULFATE, TOTAL (MG/L AS SO4)	06/06/66-06/17/80	59	1.	2.008	21.	0.5	8.306	2.882	0.5	0.5	2.	3.
00951	FLUORIDE, TOTAL (MG/L AS F)	01/28/74-09/19/77	38##	0.05	0.042	0.05	0.01	0.	0.013	0.02	0.03	0.05	0.05
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/17/75-02/01/77	23	6.7	6.639	7.3	5.1	0.212	0.46	6.06	6.4	6.9	7.16

** - 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

Parameter Inventory for Station: GRSM0057

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00956 SILICA, TOTAL (MG/L AS SIO2)	06/06/66-02/18/75	17	7.1	7.147	8.7	5.6	0.686	0.828	5.76	6.55	7.8	8.38
01007 BARIUM, TOTAL (UG/L AS BA)	03/17/77-09/19/77	3##	50.	50.	50.	50.	0.	0.	**	**	**	**
01012 BERYLLIUM, TOTAL (UG/L AS BE)	03/17/77-09/19/77	3##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	03/17/77-06/17/80	18##	0.5	0.572	2.	0.3	0.129	0.359	0.48	0.5	0.5	0.65
01042 COPPER, TOTAL (UG/L AS CU)	03/17/77-06/17/80	18	15.	18.889	70.	5.	363.399	19.063	5.	5.	22.5	61.
01045 IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	59	230.	262.373	980.	50.	39252.893	198.123	90.	130.	320.	420.
01046 IRON, DISSOLVED (UG/L AS FE)	03/20/79-06/17/80	9##	25.	58.333	300.	5.	8506.25	92.229	5.	25.	47.5	300.
01047 IRON, FERROUS (UG/L AS FE)	05/04/66-01/30/67	8##	37.5	50.	150.	25.	1785.714	42.258	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	03/17/77-06/17/80	18##	5.	8.5	43.	1.	97.676	9.883	4.6	5.	5.	22.3
01055 MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	57	40.	60.	420.	5.	5019.643	70.849	10.	20.	70.	140.
01056 MANGANESE, DISSOLVED (UG/L AS MN)	03/20/79-06/17/80	9	20.	26.111	50.	5.	367.361	19.167	5.	5.	45.	50.
01067 NICKEL, TOTAL (UG/L AS NI)	03/17/77-02/26/79	9##	5.	38.889	250.	5.	6361.111	79.757	5.	5.	25.	250.
01077 SILVER, TOTAL (UG/L AS AG)	03/17/77-09/19/77	3##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	01/30/67-06/17/80	19	30.	47.632	210.	5.	2803.801	52.951	5.	20.	50.	140.
01105 ALUMINUM, TOTAL (UG/L AS AL)	03/17/77-02/26/79	9	100.	226.667	600.	70.	43875.	209.464	70.	90.	445.	600.
01132 LITHIUM, TOTAL (UG/L AS LI)	03/17/77-09/19/77	3##	5.	5.	5.	5.	0.	0.	**	**	**	**
01152 TITANIUM, TOTAL (UG/L AS TI)	03/17/77-09/19/77	3##	500.	500.	500.	500.	0.	0.	**	**	**	**
31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/04/66-01/30/67	8	102.	219.5	1100.	2.	132435.429	363.917	**	**	**	**
31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	05/04/66-01/30/67	8	2.007	1.795	3.041	0.301	0.796	0.892	**	**	**	**
31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506		GEOMETRIC MEAN =		62.412								
31615 FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	05/04/66-01/30/67	8##	3.5	17.125	94.	1.	1042.125	32.282	**	**	**	**
31615 LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	05/04/66-01/30/67	8##	0.389	0.62	1.973	0.	0.582	0.763	**	**	**	**
31615 GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)		GEOMETRIC MEAN =		4.17								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-06/17/80	9##	5.	6.111	10.	5.	4.861	2.205	5.	5.	7.5	10.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	03/18/76-06/17/80	9##	0.699	0.766	1.	0.699	0.018	0.133	0.699	0.699	0.849	1.
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		5.833								
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	05/04/66-02/26/79	54	7.5	8.056	26.	2.	14.346	3.788	5.	7.	9.25	11.5
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/28/74-06/17/80	55	20.	31.636	230.	10.	1376.902	37.107	10.	20.	30.	48.
71900 MERCURY, TOTAL (UG/L AS HG)	03/17/77-06/17/80	17##	0.1	0.224	1.7	0.1	0.149	0.387	0.1	0.1	0.15	0.58

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0057

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	68	0	0.00	31	0	0.00	37	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	867	114	0.13	412	81	0.20	455	33	0.07						
00400 PH	Other-Hi Lim.	9.	69	0	0.00	31	0	0.00	38	0	0.00						
	Other-Lo Lim.	6.5	69	53	0.77	31	21	0.68	38	32	0.84						
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	8	0	0.00	3	0	0.00	5	0	0.00						
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	8	0	0.00	3	0	0.00	5	0	0.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	59	0	0.00	28	0	0.00	31	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	63	0	0.00	30	0	0.00	33	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	59	0	0.00	29	0	0.00	30	0	0.00						
01007 BARIUM, TOTAL	Drinking Water	2000.	3	0	0.00	1	0	0.00	2	0	0.00						
01012 BERYLLIUM, TOTAL	Fresh Acute	130.	3	0	0.00	1	0	0.00	2	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	18	0	0.00	9	0	0.00	9	0	0.00						
	Drinking Water	5.	18	0	0.00	9	0	0.00	9	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	18	9	0.50	9	6	0.67	9	3	0.33						
	Drinking Water	1300.	18	0	0.00	9	0	0.00	9	0	0.00						
01051 LEAD, TOTAL	Fresh Acute	82.	18	0	0.00	9	0	0.00	9	0	0.00						
	Drinking Water	5.	4&	3	0.75	2	2	1.00	2	1	0.50						
01067 NICKEL, TOTAL	Fresh Acute	1400.	9	0	0.00	5	0	0.00	4	0	0.00						
	Drinking Water	100.	8&	0	0.00	5	0	0.00	3	0	0.00						
01077 SILVER, TOTAL	Fresh Acute	4.1	0&	0	0.00												
	Drinking Water	50.	3	0	0.00	1	0	0.00	2	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	19	2	0.11	10	1	0.10	9	1	0.11						
31505 COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	8	1	0.13	3	0	0.00	5	1	0.20						
31615 FECAL COLIFORM, MPN	Other-Hi Lim.	200.	8	0	0.00	3	0	0.00	5	0	0.00						

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

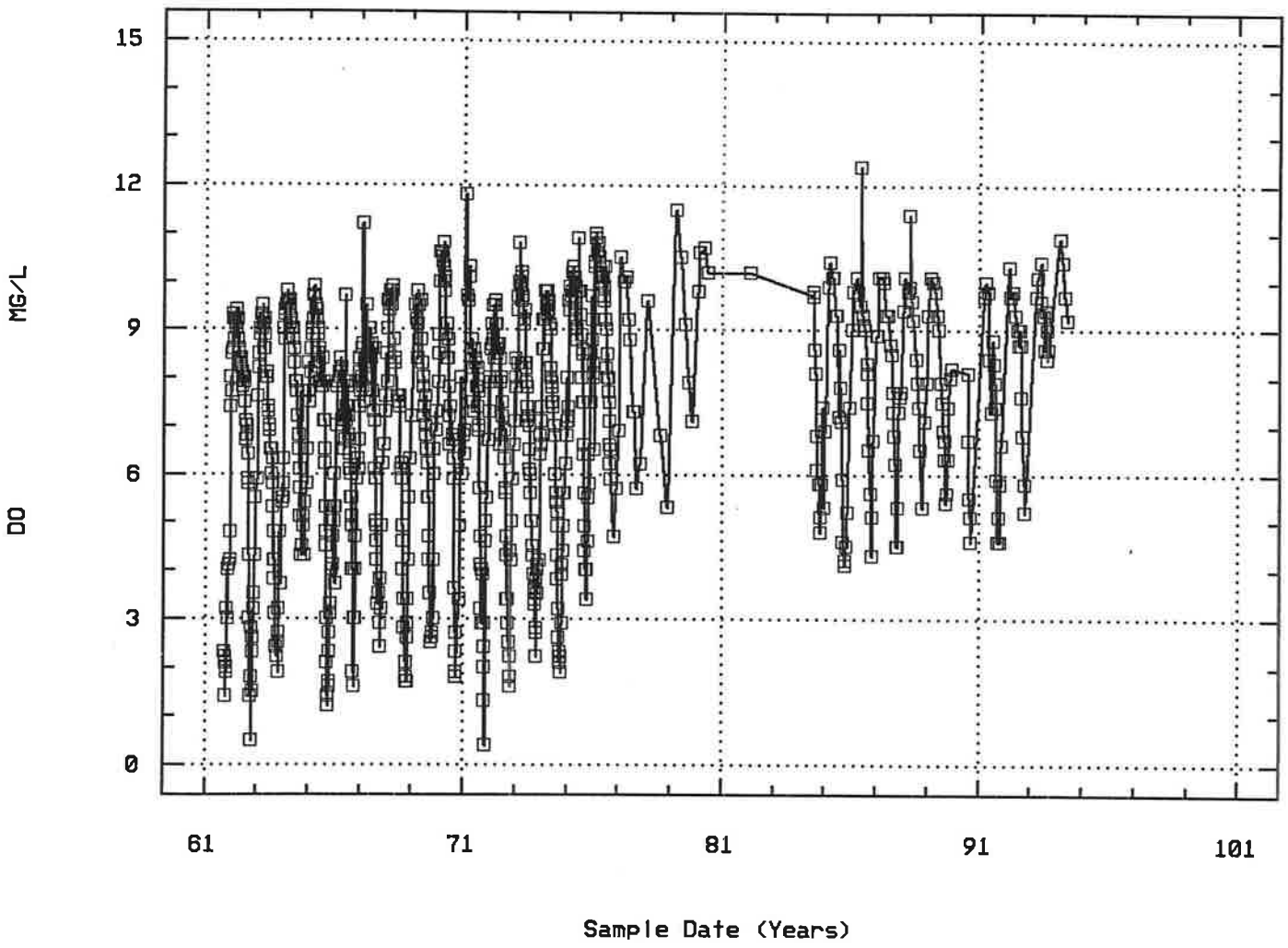
EPA Water Quality Criteria Analysis for Station: GRSM0057

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	0	0.00	5	0	0.00	4	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	17	0	0.00	9	0	0.00	8	0	0.00						
	Drinking Water	2.	17	0	0.00	9	0	0.00	8	0	0.00						

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

Station: GRSM0057 Parameter Code: 00300

OXYGEN, DISSOLVED



Annual Analysis for 1961 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	13	17.	15.769	18.	10.	8.026	2.833	10.4	13.5	18.	18.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	13	3.	3.277	7.4	1.4	2.667	1.633	1.6	2.05	4.15	6.36

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

Annual Analysis for 1962 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	49	10.	10.745	19.	6.	12.064	3.473	7.	9.	12.5	17.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	49	7.9	6.714	9.4	0.5	6.719	2.592	2.3	4.9	8.6	9.2

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

Annual Analysis for 1963 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	49	8.	10.306	19.	5.	18.884	4.346	6.	7.	14.	17.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	47	6.5	6.179	9.5	1.	6.076	2.465	2.4	4.2	8.5	9.12

** - 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 1964 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	48	9.	9.635	16.	5.	10.593	3.255	6.	7.	11.75	15.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	47	7.9	7.555	9.8	4.3	3.204	1.79	4.82	5.8	9.1	9.5

** - 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 1965 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	49	10.	10.694	18.	6.	15.717	3.964	6.	7.	14.5	17.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	49	7.8	6.543	9.9	1.2	7.299	2.702	2.1	4.3	8.75	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 1966 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	52	9.1	10.346	19.	5.	16.909	4.112	5.3	7.	13.	17.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	7	6039.	8835.714	27000.	4500.	64908418.905	8056.576	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)		05/04/66-06/17/80	7	6.	5.714	15.	0.5	24.821	4.982	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)		05/04/66-06/17/80	7	15.	14.286	20.	5.	36.905	6.075	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/04/66-06/17/80	7	34.	34.714	40.	30.	16.571	4.071	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	50	6.7	6.334	9.7	1.6	3.196	1.788	3.73	5.25	7.825	8.1
00400 PH (STANDARD UNITS)		05/04/66-04/29/88	7	6.7	6.5	7.2	5.4	0.56	0.748	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		05/04/66-04/29/88	7	6.7	5.951	7.2	5.4	0.911	0.954	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/04/66-04/29/88	7	0.2	1.118	3.981	0.063	2.868	1.694	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		05/04/66-06/17/80	7	8.	7.	10.	1.	10.	3.162	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		05/04/66-06/17/80	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)		05/04/66-06/17/80	7	0.06	0.121	0.31	0.02	0.011	0.107	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/04/66-06/17/80	7	0.05	0.106	0.24	0.005	0.01	0.098	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		05/04/66-06/17/80	7	0.016	0.04	0.166	0.01	0.003	0.056	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)		05/04/66-02/26/79	7	230.	342.857	980.	90.	94090.476	306.742	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)		06/06/66-02/26/79	6	75.	156.667	420.	30.	24666.667	157.056	**	**	**	**

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

Annual Analysis for 1967 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	46	9.	10.467	18.	7.	14.316	3.784	7.	7.	13.25	17.3
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	1	1300.	1300.	1300.	1300.	0.	0.	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)		05/04/66-06/17/80	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)		05/04/66-06/17/80	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/04/66-06/17/80	1	41.	41.	41.	41.	0.	0.	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	45	7.7	6.904	11.2	2.4	4.297	2.073	3.42	4.95	8.5	8.82
00400 PH (STANDARD UNITS)		05/04/66-04/29/88	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		05/04/66-04/29/88	1	7.4	7.4	7.4	7.4	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/04/66-04/29/88	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		05/04/66-06/17/80	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		05/04/66-06/17/80	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)		05/04/66-06/17/80	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/04/66-06/17/80	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		05/04/66-06/17/80	1	0.013	0.013	0.013	0.013	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)		05/04/66-02/26/79	1	740.	740.	740.	740.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)		06/06/66-02/26/79	1	50.	50.	50.	50.	0.	0.	**	**	**	**

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

Annual Analysis for 1968 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	39	9.	10.59	18.	5.	18.543	4.306	6.	7.	15.	17.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	29	6800.	5956.379	7400.	45.	3210355.172	1791.746	3300.	4950.	7125.	7300.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	39	7.4	6.485	9.9	1.7	7.54	2.746	2.1	4.	8.8	9.7

** - 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 1969 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	37	8.1	10.314	19.	6.	19.371	4.401	6.	6.3	14.1	17.6
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	37	5000.	5307.108	7500.	2500.	2062386.655	1436.101	3100.	4770.	6700.	7080.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	35	7.	6.734	9.8	2.5	4.835	2.199	2.88	5.5	8.4	9.5

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

Annual Analysis for 1970 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	37	7.	9.246	18.	5.2	18.175	4.263	5.2	6.	12.8	17.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	37	4700.	4588.216	7500.	1100.	3585858.563	1893.636	2040.	2900.	6580.	6951.2
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	36	8.2	7.531	10.8	1.8	7.356	2.712	2.58	6.075	9.95	10.53

** - 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 1971 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	44	9.5	10.855	19.	5.	19.005	4.36	6.5	7.	14.75	18.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	37	5400.	7213.622	87000.	1500.	186748602.186	13665.599	1788.	2750.	6800.	8040.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	44	6.95	6.541	11.8	0.4	6.697	2.588	2.65	4.625	8.375	9.65

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

Annual Analysis for 1972 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	50	9.5	10.716	18.	7.	11.759	3.429	7.	8.	13.25	16.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	49	6000.	6720.816	48000.	1600.	40417834.486	6357.502	3000.	4150.	7500.	8600.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	49	7.3	6.804	9.6	1.6	5.181	2.276	2.9	5.3	8.7	9.1

** - 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 1973 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	51	12.	12.255	19.	6.5	13.904	3.729	8.	8.5	16.	17.4
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	50	6550.	8179.5	93000.	700.	154070706.378	12412.522	4210.	4900.	7887.5	8545.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	51	7.1	6.859	10.8	2.2	6.022	2.454	3.42	4.3	9.2	9.9

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

Annual Analysis for 1974 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	57	11.	12.842	21.	8.5	12.582	3.547	9.	10.	16.	18.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	57	6500.	6497.368	9450.	0.	5156912.594	2270.884	3540.	4525.	8500.	9050.
00070 TURBIDITY, (JACKSON CANDLE UNITS)		05/04/66-06/17/80	12	3.5	4.55	11.	0.5	11.219	3.349	0.86	2.025	6.675	10.7
00080 COLOR (PLATINUM-COBALT UNITS)		05/04/66-06/17/80	12	7.5	8.958	20.	2.5	33.475	5.786	3.25	5.	10.	20.
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS		01/28/74-09/19/77	12	15.	16.667	45.	5.	119.697	10.941	6.5	10.	18.75	40.5
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/04/66-06/17/80	12	26.5	28.417	47.	21.	49.902	7.064	21.6	24.	29.75	43.7
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	51	7.4	6.708	9.8	1.9	6.058	2.461	2.66	4.9	9.1	9.58
00335 COD, .025N K2CR2O7	MG/L	01/28/74-02/26/79	12	3.	2.542	5.	0.5	2.566	1.602	0.5	0.625	4.	4.7
00400 PH (STANDARD UNITS)		05/04/66-04/29/88	12	6.2	6.225	6.4	6.	0.017	0.129	6.	6.2	6.3	6.4
00400 CONVERTED PH (STANDARD UNITS)		05/04/66-04/29/88	12	6.2	6.207	6.4	6.	0.017	0.13	6.	6.2	6.3	6.4
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/04/66-04/29/88	12	0.631	0.621	1.	0.398	0.039	0.198	0.398	0.501	0.631	1.
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		05/04/66-06/17/80	12	5.	5.083	8.	4.	1.538	1.24	4.	4.	6.	7.4
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		05/04/66-06/17/80	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)		05/04/66-06/17/80	12	0.065	0.078	0.16	0.01	0.003	0.052	0.013	0.033	0.125	0.16
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/04/66-06/17/80	12	0.035	0.083	0.26	0.005	0.009	0.095	0.005	0.005	0.17	0.251

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Annual Analysis for 1974 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-06/17/80	12	0.43	0.423	0.49	0.27	0.003	0.057	0.306	0.403	0.465	0.484
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	12	0.01	0.013	0.02	0.005	0.	0.007	0.005	0.006	0.02	0.02
01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	12	155.	255.833	820.	60.	46226.515	215.004	75.	110.	367.5	697.
01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	12	30.	52.083	140.	5.	2333.902	48.31	6.5	12.5	95.	137.

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Annual Analysis for 1975 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	53	11.	12.113	19.5	7.5	13.641	3.693	8.	9.	14.5	18.6
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	53	6100.	6183.019	9000.	2100.	2919706.096	1708.715	4000.	4800.	7725.	8570.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	12	3.7	4.192	8.7	1.4	3.643	1.909	1.73	3.025	5.375	7.8
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	12	9.	9.583	15.	5.	9.72	3.118	5.3	7.25	12.75	14.4
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	01/28/74-09/19/77	12	19.	19.333	28.	14.	18.242	4.271	14.3	15.5	22.25	27.1
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	12	22.	22.417	29.	20.	6.265	2.503	20.	20.25	23.75	27.5
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	53	8.8	8.185	10.9	3.4	3.85	1.962	4.72	7.1	9.8	10.16
00335	COD, .025N K2CR207 MG/L	01/28/74-02/26/79	12	3.5	3.583	7.	0.5	6.22	2.494	0.5	1.25	6.5	7.
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	12	6.4	6.367	6.5	6.1	0.015	0.123	6.13	6.3	6.475	6.5
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	12	6.4	6.349	6.5	6.1	0.015	0.124	6.13	6.3	6.475	6.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/66-04/29/88	12	0.398	0.447	0.794	0.316	0.02	0.143	0.316	0.337	0.501	0.745
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	12	7.	7.083	9.	5.	1.902	1.379	5.3	6.	8.	9.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	12	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	12	0.085	0.085	0.17	0.01	0.002	0.047	0.019	0.05	0.118	0.164
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	12	0.025	0.028	0.07	0.01	0.	0.02	0.01	0.01	0.038	0.067
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-06/17/80	12	0.21	0.243	0.45	0.13	0.011	0.106	0.133	0.155	0.305	0.441
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	12	0.01	0.012	0.02	0.005	0.	0.006	0.005	0.006	0.02	0.02
01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	12	245.	207.5	380.	50.	11493.182	107.206	56.	107.5	285.	362.
01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	12	45.	58.75	160.	5.	2418.75	49.181	6.5	20.	77.5	154.

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Annual Analysis for 1976 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/03/61-06/07/94	54	9.5	10.802	18.	6.	11.092	3.33	7.	8.	13.25	16.
00061	FLOW, STREAM, INSTANTANEOUS CFS	05/04/66-06/07/94	53	7350.	7021.698	21000.	500.	14688991.292	3832.622	2040.	5200.	8250.	9420.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	05/04/66-06/17/80	11	2.8	3.782	8.9	1.3	5.33	2.309	1.42	2.2	5.7	8.32
00080	COLOR (PLATINUM-COBALT UNITS)	05/04/66-06/17/80	11	3.	3.727	9.	1.	9.618	3.101	1.	1.	6.	9.
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	01/28/74-09/19/77	11	12.	11.727	27.	1.	59.018	7.682	1.8	5.	13.	26.2
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	05/04/66-06/17/80	11	21.	22.182	28.	20.	6.764	2.601	20.	20.	23.	27.6
00300p	OXYGEN, DISSOLVED MG/L	10/03/61-06/07/94	42	9.95	9.031	11.	4.7	2.964	1.722	6.29	7.925	10.4	10.74
00335	COD, .025N K2CR207 MG/L	01/28/74-02/26/79	11	3.	3.227	7.	0.5	4.668	2.161	0.6	2.	6.	6.8
00400	PH (STANDARD UNITS)	05/04/66-04/29/88	11	6.4	6.191	6.7	4.9	0.249	0.499	5.1	6.	6.5	6.68
00400	CONVERTED PH (STANDARD UNITS)	05/04/66-04/29/88	11	6.4	5.779	6.7	4.9	0.436	0.66	5.1	6.	6.5	6.68
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/04/66-04/29/88	11	0.398	1.665	12.589	0.2	13.252	3.64	0.21	0.316	1.	10.323
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	05/04/66-06/17/80	11	7.	9.727	46.	1.	148.818	12.199	1.8	5.	8.	38.4
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	05/04/66-06/17/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	05/04/66-06/17/80	11	0.06	0.063	0.19	0.005	0.003	0.055	0.006	0.02	0.09	0.176
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/04/66-06/17/80	11	0.05	0.054	0.11	0.01	0.001	0.037	0.01	0.02	0.09	0.11
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/28/74-06/17/80	11	0.18	0.208	0.33	0.16	0.003	0.058	0.16	0.17	0.23	0.324
00665	PHOSPHORUS, TOTAL (MG/L AS P)	05/04/66-06/17/80	11	0.01	0.018	0.05	0.01	0.	0.013	0.01	0.01	0.02	0.046
01045	IRON, TOTAL (UG/L AS FE)	05/04/66-02/26/79	11	280.	294.545	900.	100.	47907.273	218.877	108.	140.	320.	796.
01055	MANGANESE, TOTAL (UG/L AS MN)	06/06/66-02/26/79	10	25.	45.5	140.	5.	2424.722	49.241	5.5	10.	70.	139.

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Annual Analysis for 1977 - Station GRSM0057

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	54	10.	10.417	18.	4.	17.752	4.213	5.	6.	13.25	16.75
00061	FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	54	6250.	6412.037	15000.	1700.	5554050.489	2356.703	3500.	4950.	8025.	9000.
00070	TURBIDITY, (JACKSON CANDLE UNITS)		05/04/66-06/17/80	11	5.6	5.1	9.3	1.7	4.902	2.214	1.88	3.5	6.2	8.92
00080	COLOR (PLATINUM-COBALT UNITS)		05/04/66-06/17/80	11	5.	5.364	8.	3.	2.055	1.433	3.2	4.	6.	7.8
00081	COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS		01/28/74-09/19/77	10	14.5	14.6	24.	5.	44.489	6.67	5.2	9.25	22.	23.8
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/04/66-06/17/80	11	21.	22.	25.	20.	3.8	1.949	20.	20.	24.	25.
00300p	OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	10	8.05	8.2	10.5	5.7	3.007	1.734	5.75	6.725	10.025	10.46
00335	COD, .025N K2CR2O7	MG/L	01/28/74-02/26/79	11	2.	2.955	12.	0.5	10.573	3.252	0.5	0.5	4.	10.4
00400	PH (STANDARD UNITS)		05/04/66-04/29/88	11	6.4	6.227	7.1	4.1	0.646	0.804	4.46	6.	6.8	7.04
00400	CONVERTED PH (STANDARD UNITS)		05/04/66-04/29/88	11	6.4	5.114	7.1	4.1	2.009	1.418	4.46	6.	6.8	7.04
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/04/66-04/29/88	11	0.398	7.69	79.433	0.079	566.327	23.798	0.095	0.158	1.	63.798
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		05/04/66-06/17/80	11	6.	6.273	9.	0.	6.018	2.453	1.	6.	8.	9.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		05/04/66-06/17/80	11	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)		05/04/66-06/17/80	11	0.04	0.062	0.19	0.005	0.003	0.056	0.008	0.02	0.11	0.176
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/04/66-06/17/80	11	0.01	0.016	0.05	0.005	0.	0.016	0.005	0.005	0.02	0.048
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		01/28/74-06/17/80	11	0.2	0.199	0.31	0.07	0.005	0.069	0.078	0.18	0.23	0.306
00665	PHOSPHORUS, TOTAL (MG/L AS P)		05/04/66-06/17/80	11	0.01	0.014	0.03	0.01	0.	0.007	0.01	0.01	0.02	0.028
01045	IRON, TOTAL (UG/L AS FE)		05/04/66-02/26/79	11	200.	251.818	510.	80.	19096.364	138.19	86.	160.	400.	492.
01055	MANGANESE, TOTAL (UG/L AS MN)		06/06/66-02/26/79	11	30.	42.273	150.	5.	1676.818	40.949	6.	10.	50.	134.

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Annual Analysis for 1978 - Station GRSM0057

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	47	7.	9.17	18.	5.	19.449	4.41	5.	5.	13.	17.
00061	FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	47	6000.	6159.574	9800.	1900.	5468112.858	2338.4	2680.	4200.	8700.	9000.
00070	TURBIDITY, (JACKSON CANDLE UNITS)		05/04/66-06/17/80	4	1.6	2.15	4.4	1.	2.33	1.526	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)		05/04/66-06/17/80	4	6.5	6.25	7.	5.	0.917	0.957	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/04/66-06/17/80	4	27.	29.25	41.	22.	77.583	8.808	**	**	**	**
00300p	OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	4	8.2	7.825	9.6	5.3	4.576	2.139	**	**	**	**
00335	COD, .025N K2CR2O7	MG/L	01/28/74-02/26/79	4	2.	1.625	2.	0.5	0.563	0.75	**	**	**	**
00400	PH (STANDARD UNITS)		05/04/66-04/29/88	4	6.5	6.45	6.8	6.	0.117	0.342	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)		05/04/66-04/29/88	4	6.489	6.345	6.8	6.	0.131	0.362	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/04/66-04/29/88	4	0.325	0.452	1.	0.158	0.143	0.378	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		05/04/66-06/17/80	4	7.	7.25	9.	6.	1.583	1.258	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		05/04/66-06/17/80	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)		05/04/66-06/17/80	3	0.02	0.037	0.07	0.02	0.001	0.029	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/04/66-06/17/80	3	0.02	0.023	0.04	0.01	0.	0.015	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		01/28/74-06/17/80	3	0.19	0.23	0.37	0.13	0.016	0.125	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)		05/04/66-06/17/80	3	0.01	0.012	0.02	0.005	0.	0.008	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)		05/04/66-02/26/79	4	145.	152.5	270.	50.	8558.333	92.511	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)		06/06/66-02/26/79	4	40.	37.5	60.	10.	491.667	22.174	**	**	**	**

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Annual Analysis for 1979 - Station GRSM0057

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	46	10.	10.37	20.	5.	15.405	3.925	6.	7.	14.25	15.3
00061	FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	46	7250.	7190.217	9500.	3200.	3439291.063	1854.533	4320.	5950.	9000.	9030.
00070	TURBIDITY, (JACKSON CANDLE UNITS)		05/04/66-06/17/80	6	3.4	6.467	25.	0.5	85.199	9.23	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)		05/04/66-06/17/80	6	6.	6.667	10.	5.	4.267	2.066	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/04/66-06/17/80	6	22.	22.333	28.	19.	13.067	3.615	**	**	**	**
00300p	OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	5	9.1	9.22	11.5	7.1	3.272	1.809	**	**	**	**

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Annual Analysis for 1979 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00335 COD, .025N K2CR207	MG/L	01/28/74-02/26/79	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		05/04/66-04/29/88	6	5.9	6.05	7.1	5.5	0.319	0.565	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		05/04/66-04/29/88	6	5.9	5.855	7.1	5.5	0.365	0.604	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/04/66-04/29/88	6	1.259	1.398	3.162	0.079	1.167	1.08	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		05/04/66-06/17/80	6	6.5	6.5	8.	5.	1.1	1.049	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		05/04/66-06/17/80	6	0.	0.	0.	0.	0.	0.	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)		05/04/66-06/17/80	6	0.055	0.055	0.12	0.005	0.002	0.047	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/04/66-06/17/80	6	0.03	0.03	0.08	0.005	0.001	0.027	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		01/28/74-06/17/80	6	0.16	0.147	0.2	0.09	0.002	0.04	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		05/04/66-06/17/80	6	0.01	0.013	0.03	0.005	0.	0.009	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)		05/04/66-02/26/79	1	160.	160.	160.	160.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)		06/06/66-02/26/79	1	30.	30.	30.	30.	0.	0.	**	**	**	**

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

Annual Analysis for 1980 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	44	10.	10.943	18.	6.	10.491	3.239	7.	8.	13.	16.5
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	44	6650.	6197.727	8900.	1900.	3882901.691	1970.508	2800.	5025.	7962.5	8550.
00070 TURBIDITY, (JACKSON CANDLE UNITS)		05/04/66-06/17/80	4	2.7	2.625	4.	1.1	1.736	1.318	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)		05/04/66-06/17/80	4	6.	7.	13.	3.	20.667	4.546	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/04/66-06/17/80	4	23.	23.25	25.	22.	2.25	1.5	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	4	10.4	10.325	10.7	9.8	0.169	0.411	**	**	**	**
00400 PH (STANDARD UNITS)		05/04/66-04/29/88	4	6.3	6.325	6.5	6.2	0.022	0.15	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		05/04/66-04/29/88	4	6.289	6.306	6.5	6.2	0.023	0.152	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/04/66-04/29/88	4	0.515	0.494	0.631	0.316	0.026	0.162	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		05/04/66-06/17/80	3	7.	6.667	8.	5.	2.333	1.528	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		05/04/66-06/17/80	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)		05/04/66-06/17/80	4	0.035	0.036	0.07	0.005	0.001	0.027	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/04/66-06/17/80	4	0.025	0.033	0.06	0.02	0.	0.019	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		01/28/74-06/17/80	4	0.185	0.173	0.2	0.12	0.001	0.036	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		05/04/66-06/17/80	4	0.01	0.009	0.01	0.005	0.	0.003	**	**	**	**

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Annual Analysis for 1981 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	25	7.	9.32	18.	5.	17.06	4.13	5.6	6.	12.5	17.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	25	4500.	4652.	9000.	800.	3605100.	1898.71	2200.	3600.	5600.	8120.

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Annual Analysis for 1982 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	40	10.5	11.05	18.	6.	13.69	3.7	7.	7.25	14.	16.9
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	40	5850.	7660.	73000.	700.	118098871.795	10867.33	3000.	4250.	8575.	9000.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	1	10.2	10.2	10.2	10.2	0.	0.	**	**	**	**

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Annual Analysis for 1983 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	28	9.	9.714	15.	7.	5.619	2.37	7.	8.	11.	14.1
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	28	6000.	6057.143	9000.	3300.	2746243.386	1657.179	3940.	4575.	7500.	8600.

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Annual Analysis for 1984 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	12	14.25	14.708	19.	11.	8.748	2.958	11.15	11.75	17.75	18.85
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	12	5725.	5345.833	8400.	1900.	3866117.424	1966.244	2095.	3662.5	6787.5	7995.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	12	6.45	6.942	9.8	4.8	3.099	1.76	4.89	5.425	8.475	9.77

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Annual Analysis for 1985 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	18	13.	13.111	20.	5.5	21.046	4.588	6.85	8.5	17.375	19.55
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	18	4675.	4558.333	9200.	600.	4596544.118	2143.955	1185.	2875.	6075.	6950.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	18	7.3	7.367	10.4	4.1	4.911	2.216	4.19	5.05	9.45	10.13

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Annual Analysis for 1986 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	18	11.	11.456	17.	7.	12.247	3.5	7.18	8.375	14.875	17.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	18	3100.	3458.333	8700.	800.	4008308.824	2002.076	1160.	1975.	4950.	6180.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	18	8.95	8.278	12.4	4.3	4.057	2.014	5.02	6.65	9.575	10.33

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Annual Analysis for 1987 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	18	11.75	12.	17.	8.	9.294	3.049	8.	8.875	14.25	17.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	18	4400.	4127.778	5900.	1100.	2613888.889	1616.753	1550.	2925.	5650.	5900.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	18	7.7	7.767	10.1	4.5	3.209	1.791	4.5	6.65	9.3	10.1

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Annual Analysis for 1988 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	14	8.75	9.979	15.	7.5	7.368	2.714	7.5	7.65	12.25	14.75
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	13	3000.	4238.462	8600.	1200.	5775897.436	2403.31	1640.	2550.	5950.	8600.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	14	8.8	8.564	11.4	5.3	2.709	1.646	5.9	7.325	9.825	10.75
00400 PH (STANDARD UNITS)		05/04/66-04/29/88	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		05/04/66-04/29/88	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**

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Annual Analysis for 1988 - Station GRSM0057

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		05/04/66-04/29/88	1	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**

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Annual Analysis for 1989 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	17	15.	14.353	18.	9.5	11.368	3.372	9.5	11.	17.5	18.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	17	5500.	5747.059	8200.	1800.	3126397.059	1768.162	2680.	5250.	7650.	7960.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	17	7.9	7.865	10.1	5.4	2.349	1.533	5.56	6.5	9.3	10.02

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Annual Analysis for 1990 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	5	17.5	17.2	19.5	14.	4.075	2.019	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	5	7900.	6940.	8300.	2900.	5223000.	2285.388	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	5	5.5	6.	8.1	4.6	1.98	1.407	**	**	**	**

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Annual Analysis for 1991 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	15	15.5	14.567	19.	8.5	13.924	3.731	8.5	12.	18.	19.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	15	4350.	4180.	6700.	1900.	2731357.143	1652.682	1960.	2750.	5500.	6400.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	15	7.4	7.347	10.	4.6	3.444	1.856	4.6	5.8	8.8	9.88

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

Annual Analysis for 1992 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	12	11.75	12.292	17.	9.5	5.521	2.35	9.65	10.25	14.	16.55
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	12	4850.	4458.333	8100.	1700.	4059015.152	2014.7	1790.	2350.	5575.	7740.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	12	8.85	8.325	10.3	5.2	2.646	1.627	5.38	7.	9.6	10.15

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Annual Analysis for 1993 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	10	9.8	10.33	13.1	8.5	2.273	1.508	8.55	9.3	11.9	13.01
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	10	2950.	3445.	5400.	1600.	1938027.778	1392.131	1670.	2412.5	5225.	5390.
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	10	9.35	9.31	10.4	8.4	0.443	0.666	8.42	8.6	9.8	10.37

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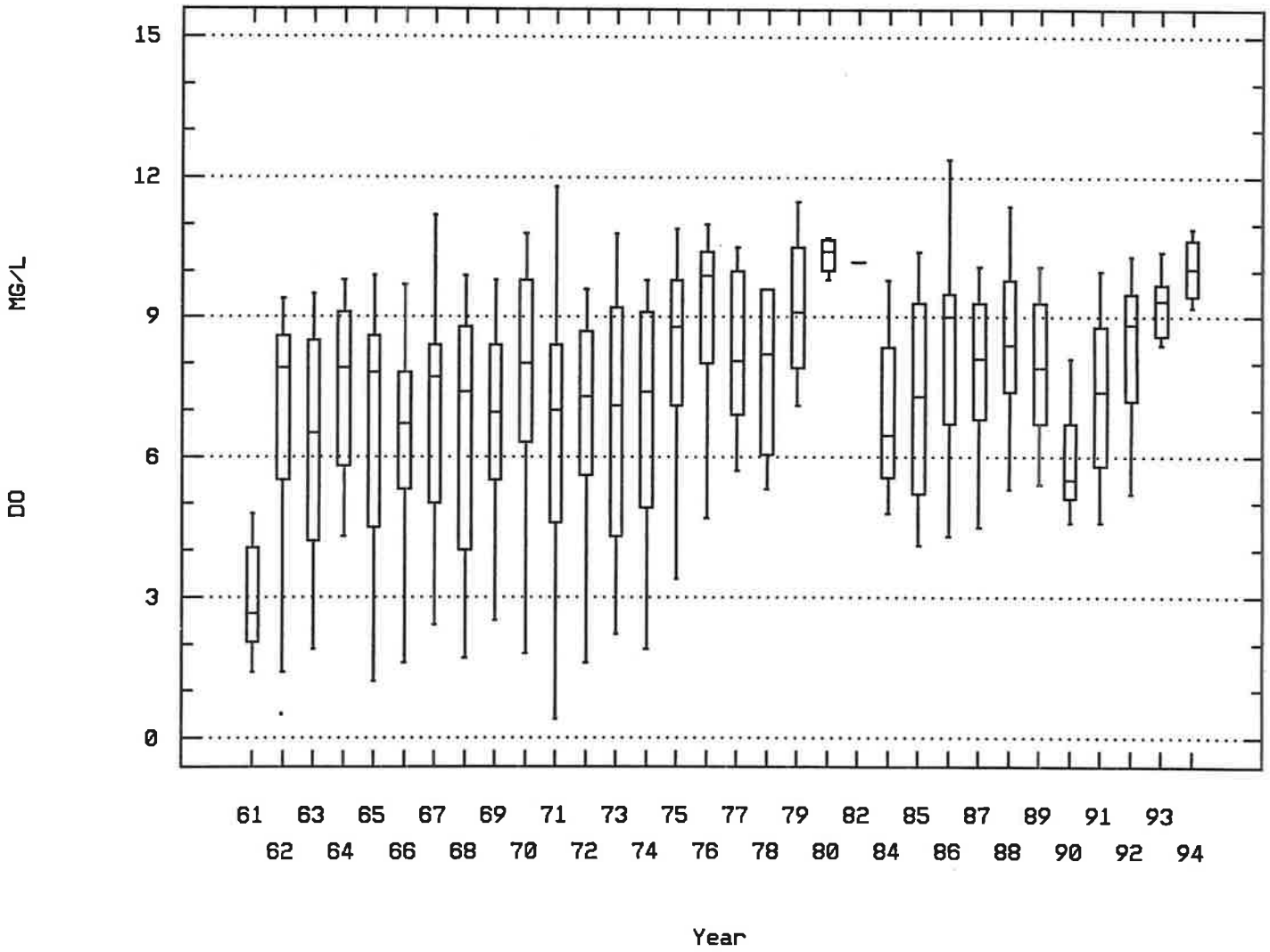
Annual Analysis for 1994 - Station GRSM0057

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	4	10.55	11.875	17.4	9.	14.476	3.805	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	4	2150.	2562.5	4800.	1150.	2648958.333	1627.562	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	4	10.05	10.05	10.9	9.2	0.563	0.751	**	**	**	**

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

Station: GRSM0057 Parameter Code: 00300

OXYGEN, DISSOLVED



Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0057

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	557	11.	11.342	21.	4.	20.56	4.534	6.	7.	16.	18.
00061	FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	387	6000.	6462.499	93000.	0.	37304969.66	6107.779	2680.	4500.	7850.	9000.
00070	TURBIDITY, (JACKSON CANDLE UNITS)		05/04/66-06/17/80	31	4.2	4.855	15.	1.1	8.663	2.943	1.76	2.8	6.	8.86
00080	COLOR (PLATINUM-COBALT UNITS)		05/04/66-06/17/80	31	7.	8.29	20.	3.	22.546	4.748	3.	5.	10.	19.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/04/66-06/17/80	31	24.	26.	41.	20.	28.2	5.31	21.	22.	29.	35.8
00300p	OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	412	7.4	6.818	11.8	0.4	7.596	2.756	2.6	4.6	9.3	10.
00310	BOD, 5 DAY, 20 DEG C	MG/L	05/04/66-06/17/80	9	1.	1.089	2.4	0.5	0.381	0.617	0.5	0.5	1.4	2.4
00400	PH (STANDARD UNITS)		05/04/66-04/29/88	31	6.4	6.423	7.4	4.9	0.22	0.47	5.94	6.2	6.7	7.1
00400	CONVERTED PH (STANDARD UNITS)		05/04/66-04/29/88	31	6.4	6.068	7.4	4.9	0.35	0.592	5.94	6.2	6.7	7.1
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/04/66-04/29/88	31	0.398	0.855	12.589	0.04	4.892	2.212	0.079	0.2	0.631	1.166
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		05/04/66-06/17/80	31	7.	6.903	10.	1.	3.624	1.904	5.	6.	8.	9.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		05/04/66-06/17/80	31	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)		01/28/74-06/17/80	27	2.	2.13	9.	0.5	3.954	1.988	0.5	0.5	3.	5.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)		05/04/66-06/17/80	31	0.07	0.088	0.31	0.005	0.004	0.066	0.02	0.04	0.12	0.184
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/04/66-06/17/80	31	0.04	0.069	0.26	0.005	0.005	0.07	0.01	0.02	0.09	0.212
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		01/28/74-06/17/80	28	0.2	0.249	0.49	0.09	0.014	0.12	0.119	0.16	0.36	0.432
00665	PHOSPHORUS, TOTAL (MG/L AS P)		05/04/66-06/17/80	31	0.01	0.02	0.166	0.005	0.001	0.029	0.01	0.01	0.02	0.03
00916	CALCIUM, TOTAL (MG/L AS CA)		10/24/66-02/26/79	26	2.	1.915	3.4	0.5	0.671	0.819	0.5	1.45	2.2	3.
00927	MAGNESIUM, TOTAL (MG/L AS MG)		10/24/66-02/26/79	26	0.7	0.858	5.	0.3	0.741	0.861	0.47	0.6	0.825	1.
00940	CHLORIDE,TOTAL IN WATER	MG/L	05/04/66-06/17/80	30	2.	2.167	5.	0.5	1.23	1.109	1.	1.75	3.	3.9
00945	SULFATE, TOTAL (MG/L AS SO4)		06/06/66-06/17/80	29	2.	2.483	21.	0.5	14.687	3.832	0.5	0.5	3.	4.
01045	IRON, TOTAL (UG/L AS FE)		05/04/66-02/26/79	27	300.	364.815	980.	70.	55102.849	234.74	124.	200.	410.	836.
01055	MANGANESE, TOTAL (UG/L AS MN)		06/06/66-02/26/79	27	60.	94.444	420.	10.	7856.41	88.636	28.	40.	140.	184.
01092	ZINC, TOTAL (UG/L AS ZN)		01/30/67-06/17/80	10	30.	49.	210.	5.	3648.889	60.406	5.	16.25	55.	196.
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		05/04/66-02/26/79	26	8.	8.115	26.	2.	21.046	4.588	2.35	6.75	10.	12.
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		01/28/74-06/17/80	27	20.	37.778	230.	10.	2541.026	50.409	10.	20.	30.	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 #2: 4/01 to 9/30 - Station GRSM0057

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/03/61-06/07/94	598	10.	10.665	20.	4.	10.993	3.316	7.	8.	13.	16.
00061	FLOW, STREAM, INSTANTANEOUS	CFS	05/04/66-06/07/94	449	5700.	5877.67	87000.	45.	24500886.021	4949.837	2600.	4000.	7250.	8500.
00070	TURBIDITY, (JACKSON CANDLE UNITS)		05/04/66-06/17/80	37	3.1	4.216	25.	0.5	18.58	4.31	0.5	1.7	5.65	8.26
00080	COLOR (PLATINUM-COBALT UNITS)		05/04/66-06/17/80	37	5.	7.392	20.	1.	24.377	4.937	1.	5.	10.	15.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		05/04/66-06/17/80	37	22.	24.811	47.	19.	47.213	6.871	20.	20.	25.	36.8
00300p	OXYGEN, DISSOLVED	MG/L	10/03/61-06/07/94	455	7.8	7.438	12.4	1.8	3.83	1.957	4.5	6.4	8.9	9.7
00310	BOD, 5 DAY, 20 DEG C	MG/L	05/04/66-06/17/80	11##	0.5	0.809	1.8	0.5	0.219	0.468	0.5	0.5	1.2	1.72
00400	PH (STANDARD UNITS)		05/04/66-04/29/88	38	6.3	6.197	7.2	4.1	0.258	0.508	5.5	6.	6.425	6.71
00400	CONVERTED PH (STANDARD UNITS)		05/04/66-04/29/88	38	6.3	5.54	7.2	4.1	0.701	0.838	5.5	6.	6.425	6.71
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		05/04/66-04/29/88	38	0.501	2.882	79.433	0.063	163.389	12.782	0.195	0.378	1.	3.162
00410	ALKALINITY, TOTAL (MG/L AS CACO3)		05/04/66-06/17/80	36	6.	7.083	46.	0.	48.421	6.959	4.	5.	7.75	8.3
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)		05/04/66-06/17/80	36	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)		01/28/74-06/17/80	28##	0.5	0.839	2.	0.5	0.334	0.578	0.5	0.5	1.	2.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)		05/04/66-06/17/80	36	0.045	0.057	0.19	0.005	0.002	0.049	0.009	0.02	0.075	0.153
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		05/04/66-06/17/80	36	0.02	0.03	0.24	0.005	0.002	0.045	0.005	0.005	0.03	0.053
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		01/28/74-06/17/80	31	0.2	0.25	0.47	0.07	0.013	0.114	0.152	0.18	0.31	0.448
00665	PHOSPHORUS, TOTAL (MG/L AS P)		05/04/66-06/17/80	36	0.01	0.013	0.033	0.005	0.	0.007	0.005	0.01	0.02	0.023
00916	CALCIUM, TOTAL (MG/L AS CA)		10/24/66-02/26/79	23	2.	2.2	7.	1.	1.36	1.166	1.	2.	2.	3.
00927	MAGNESIUM, TOTAL (MG/L AS MG)		10/24/66-02/26/79	23	0.6	0.587	1.	0.4	0.013	0.114	0.5	0.5	0.6	0.7
00940	CHLORIDE,TOTAL IN WATER	MG/L	05/04/66-06/17/80	33	2.	2.212	5.	0.5	0.907	0.952	1.	2.	3.	3.6
00945	SULFATE, TOTAL (MG/L AS SO4)		06/06/66-06/17/80	30	1.	1.55	6.	0.5	1.989	1.41	0.5	0.5	2.	2.9
01045	IRON, TOTAL (UG/L AS FE)		05/04/66-02/26/79	32	140.	175.938	510.	50.	10373.286	101.849	66.	110.	230.	311.
01055	MANGANESE, TOTAL (UG/L AS MN)		06/06/66-02/26/79	30	20.	29.	80.	5.	550.69	23.467	5.	10.	42.5	70.
01092	ZINC, TOTAL (UG/L AS ZN)		01/30/67-06/17/80	9	30.	46.111	140.	5.	2198.611	46.889	5.	15.	75.	140.
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		05/04/66-02/26/79	28	7.	8.	20.	5.	8.667	2.944	5.	7.	8.75	11.1

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

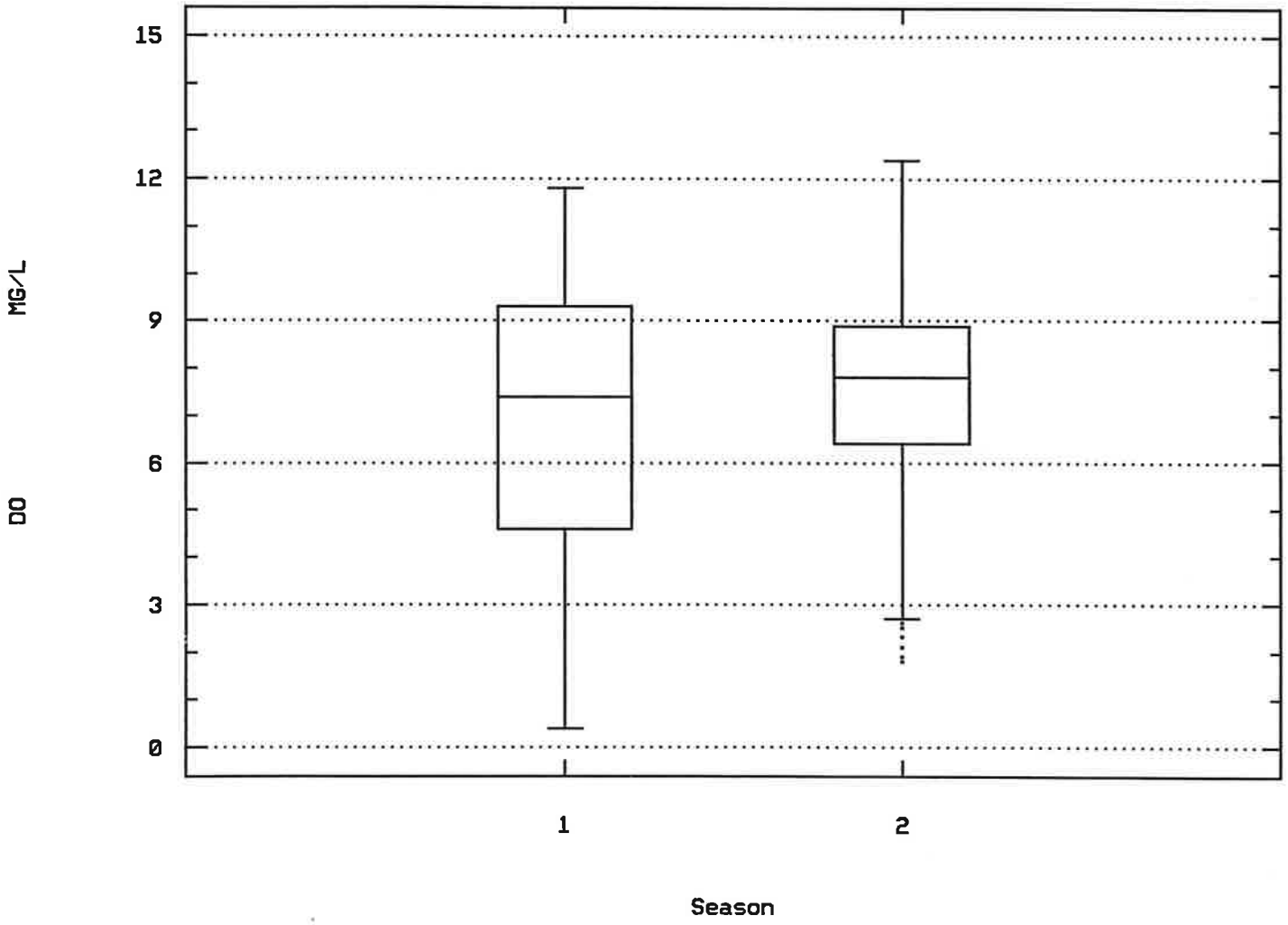
Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0057

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	01/28/74-06/17/80	28	20.	25.714	80.	10.	232.804	15.258	10.	20.	30.	42.

** - Less than 9 observations ## - Computed 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: GRSM0057 Parameter Code: 00300

OXYGEN, DISSOLVED



Station Inventory for Station: GRSM0058

NPS Station ID: GRSM0058 LAT/LON: 35.451392/ -83.804726 Agency: 131TVAC Date Created: 10/27/90
Location: FONTANA DAM SCROLL CASE FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 360116X
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 061.00
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 61.0 ECO Region:
RF1 Index: 06010202 RF1 Mile Point: 0.000 Distance from RF1: 0.60 On/Off RF1:
RF3 Index: 06010204002902.20 RF3 Mile Point: 2.20 Distance from RF3: 0.01 On/Off RF3:
Description:

THE SAMPLES COLLECTED AT THIS STATION WERE SHIPPED TO THE ENVIRONMENTAL CHEMISTRY LABORATORY IN CHATTANOOGA IN PLASTIC SHIPPING CONTAINERS FOR ANALYSES. IT IS NOW DOCUMENTED THAT THE DISSOLVED OXYGEN CONCENTRATIONS MEASURED WERE TOO LOW DUE TO THE USE OF THE PLASTIC CONTAINERS. BECAUSE THE ERROR IS VARIABLE, AND THE INDIVIDUAL MEASUREMENTS CANNOT BE

Parameter Inventory for Station: GRSM0058

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: GRSM0059

NPS Station ID: GRSM0059 LAT/LON: 35.452781/ -83.948337 Agency: 21NC01WQ Date Created: / /
Location: LITTLE TENNESSEE R BELOW TAPOCO INACT-741127 FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G9990000 /LTN039
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204020 RF1 Mile Point: 13.380 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010204002013.24 RF3 Mile Point: 13.24 Distance from RF3: 0.05 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0059

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/20/68-11/27/74	7	14.	14.857	21.	12.	8.476	2.911	**	**	**	**
00023 SAMPLE WEIGHT IN POUNDS	06/20/68-11/27/74	7	14.	14.857	21.	12.	8.476	2.911	**	**	**	**
00060 FLOW, STREAM, MEAN DAILY CFS	08/14/68-08/24/71	5	6561.	6214.2	7929.	3635.	2627647.2	1621.002	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	11/27/74-11/27/74	1	8.6	8.6	8.6	8.6	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	06/20/68-11/27/74	8	8.35	8.	10.6	3.7	4.629	2.151	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	06/20/68-11/27/74	8	81.5	77.25	100.	41.	349.071	18.683	**	**	**	**
00400 PH (STANDARD UNITS)	06/20/68-11/27/74	8	6.35	6.338	6.7	5.8	0.08	0.283	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	06/20/68-11/27/74	8	6.347	6.249	6.7	5.8	0.089	0.298	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/20/68-11/27/74	8	0.45	0.564	1.585	0.2	0.196	0.443	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	06/20/68-11/27/74	7	7.	6.714	10.	4.	3.905	1.976	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	06/20/68-11/27/74	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00435 ACIDITY, TOTAL (MG/L AS CACO3)	10/15/69-10/15/69	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00436 ACIDITY, MINERAL (METHYL ORANGE) (MG/L AS CACO3)	10/15/69-10/15/69	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/25/73-11/27/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	06/25/73-11/27/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	06/20/68-11/27/74	8	8.35	8.	10.6	3.7	4.629	2.151	**	**	**	**
00740 SULFITE (MG/L AS SO3)	06/25/73-11/27/74	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	06/25/73-11/27/74	2	247.5	247.5	270.	225.	1012.5	31.82	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	06/25/73-11/27/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	06/25/73-11/27/74	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)	08/14/68-06/25/73	4##	120.	936.25	3500.	5.	2927456.25	1710.981	**	**	**	**
01132 LITHIUM, TOTAL (UG/L AS LI)	06/25/73-11/27/74	2	72.5	72.5	95.	50.	1012.5	31.82	**	**	**	**
31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	10/15/69-10/15/69	1	400.	400.	400.	400.	0.	0.	**	**	**	**
31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	10/15/69-10/15/69	1	2.602	2.602	2.602	2.602	0.	0.	**	**	**	**
31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506			GEOMETRIC MEAN =	400.								
31508 COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG,	06/20/68-11/27/74	8	6.	6.375	7.	6.	0.268	0.518	**	**	**	**
31508 LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	06/20/68-11/27/74	8	0.778	0.803	0.845	0.778	0.001	0.035	**	**	**	**
31508 GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG,			GEOMETRIC MEAN =	6.357								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/14/68-06/25/73	4##	120.	936.25	3500.	5.	2927456.25	1710.981	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/14/68-06/25/73	4##	1.989	2.055	3.544	0.699	1.411	1.188	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	113.551								
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/25/73-11/27/74	2	0.5	0.5	1.	0.	0.5	0.707	**	**	**	**
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/20/68-11/27/74	8	81.5	77.25	100.	41.	349.071	18.683	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/25/73-11/27/74	2	52.5	52.5	95.	10.	3612.5	60.104	**	**	**	**

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0059

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	8	1	0.13	2	1	0.50	6	0	0.00						
00400 PH	Other-Hi Lim.	9.	8	0	0.00	2	0	0.00	6	0	0.00						
	Other-Lo Lim.	6.5	8	6	0.75	2	2	1.00	6	4	0.67						
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	2	0	0.00	1	0	0.00	1	0	0.00						
	Drinking Water	50.	2	2	1.00	1	1	1.00	1	1	1.00						
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01040 COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00	1	0	0.00	1	0	0.00						
	Drinking Water	1300.	2	0	0.00	1	0	0.00	1	0	0.00						
01075 SILVER, DISSOLVED	Fresh Acute	4.1	2&	2	1.00				2	2	1.00						
	Drinking Water	50.	3&	2	0.67				3	2	0.67						
31505 COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	1	0	0.00	1	0	0.00									
31508 COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	8	0	0.00	2	0	0.00	6	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	4	1	0.25				4	1	0.25						

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

Station Inventory for Station: GRSM0060

NPS Station ID: GRSM0060 LAT/LON: 35.453615/ -83.804448 Agency: 11EPALES Date Created: / /
Location: FONTANA LAKE FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 370401
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 300 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010203000700.90 RF3 Mile Point: 0.90 Distance from RF3: 0.01 On/Off RF3:
Description:

NEAR DAM, ABOUT 75 YDS FROM SAME, ABOUT 1/3 DISTANCE FROM SOUTHEAST END. MILE 61 1/10 LITTLE TENNESSEE RIVER
COMMENTS: 6-2, FORRELL 11; ONE PER CENT LIGHT AT 27 FT; CHANNEL A OFFSET EQUAL -21.11,+79.11; ALGAE SAMPLE TAKEN FROM 27 FT. 8-21 ULE 12, VERY CLEAR GREEN, NO SURFACE ALGAE OR HIGHER AQUATICS; 1% LIGHT AT 42 FT;

Parameter Inventory for Station: GRSM0060

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/02/73-10/26/73	31	19.6	18.677	26.8	10.2	19.024	4.362	11.12	16.6	20.5	25.62
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/02/73-10/26/73	31	96.	93.29	98.	86.	23.413	4.839	86.	88.	98.	98.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/02/73-10/26/73	3	168.	152.	180.	108.	1488.	38.575	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/21/73-10/26/73	21	26.	24.714	28.	18.	8.614	2.935	20.	22.5	27.	27.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/02/73-06/02/73	10	40.	39.8	61.	25.	143.289	11.97	25.	25.	47.75	59.9
00300	OXYGEN, DISSOLVED MG/L	06/02/73-10/26/73	28	5.3	5.821	9.	1.8	4.897	2.213	3.07	4.05	8.075	8.46
00400	PH (STANDARD UNITS)	06/02/73-10/26/73	31	6.6	6.671	8.2	5.9	0.301	0.549	6.04	6.3	6.9	7.62
00400	CONVERTED PH (STANDARD UNITS)	06/02/73-10/26/73	31	6.6	6.447	8.2	5.9	0.353	0.594	6.04	6.3	6.9	7.62
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/02/73-10/26/73	31	0.251	0.357	1.259	0.006	0.098	0.313	0.026	0.126	0.501	0.926
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/02/73-10/26/73	29##	5.	5.862	14.	5.	5.195	2.279	5.	5.	5.	10.
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/02/73-10/26/73	29	0.08	0.107	0.4	0.02	0.009	0.094	0.03	0.045	0.14	0.21
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/02/73-10/26/73	29##	0.1	0.207	0.7	0.1	0.031	0.175	0.1	0.1	0.35	0.5
00630	NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)	06/02/73-10/26/73	29	0.63	0.569	0.87	0.2	0.031	0.176	0.22	0.41	0.68	0.71
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/02/73-10/26/73	29	0.007	0.008	0.014	0.005	0.	0.002	0.006	0.006	0.01	0.011
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/02/73-10/26/73	29	0.007	0.007	0.011	0.001	0.	0.002	0.003	0.006	0.008	0.01
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/02/73-10/26/73	3	2.3	2.4	3.6	1.3	1.33	1.153	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	06/02/73-10/26/73	3	210.	236.667	300.	200.	3033.333	55.076	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0060

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	28	7	0.25	10	5	0.50	18	2	0.11						
00400 PH	Other-Hi Lim.	9.	31	0	0.00	11	0	0.00	20	0	0.00						
	Other-Lo Lim.	6.5	31	14	0.45	11	11	1.00	20	3	0.15						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	29	0	0.00	11	0	0.00	18	0	0.00						

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

Station Inventory for Station: GRSM0061

NPS Station ID: GRSM0061 LAT/LON: 35.458338/ -83.805005 Agency: 131TVAC Date Created: 11/27/82
Location: FONTANA RESERVOIR
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370060
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 061.01
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 61.01 ECO Region:
RF1 Index: 06010202009 RF1 Mile Point: 2.650 Distance from RF1: 2.60 On/Off RF1: OFF
RF3 Index: 06010203011000.00 RF3 Mile Point: 1.97 Distance from RF3: 0.14 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0061

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/19/82-04/29/88	173	7.3	9.612	21.5	5.6	22.705	4.765	6.	6.3	10.9	19.5
00078 TRANSPARENCY, SECCHI DISC (METERS)	04/29/88-04/29/88	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	10/19/82-10/19/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/19/82-10/19/82	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/19/82-04/29/88	95	25.	24.105	27.	20.	5.691	2.386	20.	25.	26.	26.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/19/82-10/19/82	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	10/19/82-04/29/88	173	9.5	9.333	11.1	3.1	2.459	1.568	6.84	8.9	10.6	10.9
00400 PH (STANDARD UNITS)	10/19/82-04/29/88	95	6.	6.063	7.	5.7	0.043	0.206	5.8	6.	6.1	6.3
00400 CONVERTED PH (STANDARD UNITS)	10/19/82-04/29/88	95	6.	6.024	7.	5.7	0.044	0.21	5.8	6.	6.1	6.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/82-04/29/88	95	1.	0.947	1.995	0.1	0.134	0.366	0.501	0.794	1.	1.585
00403 PH, LAB, STANDARD UNITS SU	10/19/82-10/19/82	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/19/82-10/19/82	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/19/82-10/19/82	1	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	10/19/82-10/19/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)	10/19/82-10/19/82	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00435 ACIDITY, TOTAL (MG/L AS CACO3)	10/19/82-10/19/82	1	13.	13.	13.	13.	0.	0.	**	**	**	**
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	10/19/82-10/19/82	1##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/19/82-10/19/82	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/19/82-10/19/82	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/19/82-10/19/82	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/19/82-10/19/82	1	0.55	0.55	0.55	0.55	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	10/19/82-10/19/82	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/19/82-10/19/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	10/19/82-10/19/82	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023 ACIDS, STRONG	10/19/82-10/19/82	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024 ACIDS, WEAK	10/19/82-10/19/82	1	60.	60.	60.	60.	0.	0.	**	**	**	**
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	10/19/82-10/19/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/19/82-10/19/82	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
82295 CHLORIDE DISSOLVED AS CL IN WATER UG/L	10/19/82-10/19/82	1	800.	800.	800.	800.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0061

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	173	1	0.01	23	1	0.04	150	0	0.00						
00400 PH	Other-Hi Lim.	9.	95	0	0.00	23	0	0.00	72	0	0.00						
	Other-Lo Lim.	6.5	95	92	0.97	23	23	1.00	72	69	0.96						
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82295 CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0062

NPS Station ID: GRSM0062 LAT/LON: 35.458338/ -83.805005 Agency: 131TVAC Date Created: 07/09/94
Location: FONTANA DAM TAILRACE FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 370183
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 060.99
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 60.99 ECO Region:
RF1 Index: 06010202009 RF1 Mile Point: 2.650 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010201002800.00 RF3 Mile Point: 2.05 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0062

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: GRSM0063

NPS Station ID: GRSM0063 LAT/LON: 35.458338/ -83.809726 Agency: 21NC01WQ Date Created: 02/24/76
Location: FONTANA LAKE AT FONTANA DAM INACT-790716 FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9291000 /LTN031J
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 999 Aquifer:
Major Basin: SE Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010202007600.00 RF3 Mile Point: 0.00 Distance from RF3: 0.11 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0063

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	58	24.	22.067	29.	9.2	31.115	5.578	11.95	18.5	27.	27.8
00023 SAMPLE WEIGHT IN POUNDS	07/16/74-07/29/75	2	27.	27.	27.	27.	0.	0.	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	06/13/77-08/29/94	7	2.	3.786	17.	0.5	34.575	5.88	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	16	3.	5.925	50.	2.	138.937	11.787	2.	2.125	3.95	18.5
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	08/05/87-08/29/94	40	16.	13.65	21.	1.	26.951	5.191	4.1	11.75	17.	17.9
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/16/74-07/16/79	15	21.	22.867	32.	15.	24.124	4.912	17.4	20.	26.	31.4
00204 DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	08/05/87-08/05/87	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	59	8.	7.853	10.8	5.6	1.46	1.208	5.9	7.1	8.5	9.4
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/16/74-07/20/77	4	105.	108.5	124.	100.	129.	11.358	**	**	**	**
00308 BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	07/16/74-07/29/75	2	26.5	26.5	31.	22.	40.5	6.364	**	**	**	**
00400 PH (STANDARD UNITS)	07/29/75-08/29/94	57	7.3	7.265	8.8	5.7	0.714	0.845	5.9	6.6	8.	8.22
00400 CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	57	7.3	6.558	8.8	5.7	1.223	1.106	5.9	6.6	8.	8.22
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	57	0.05	0.277	1.995	0.002	0.257	0.507	0.006	0.01	0.251	1.259
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/75-07/31/79	16	6.	6.563	10.	6.	1.063	1.031	6.	6.	7.	7.9
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/75-07/31/79	14	0.	0.143	1.	0.	0.132	0.363	0.	0.	0.	1.
00500 RESIDUE, TOTAL (MG/L)	08/05/87-08/29/94	2	41.5	41.5	47.	36.	60.5	7.778	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00520 RESIDUE, VOLATILE FILTRABLE (MG/L)	07/16/74-07/29/75	2##	0.138	0.138	0.25	0.025	0.025	0.159	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/05/87-08/29/94	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	07/29/75-07/29/75	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	9##	0.025	0.036	0.08	0.005	0.001	0.024	0.005	0.025	0.055	0.08
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	9	0.2	0.233	0.6	0.1	0.03	0.173	0.1	0.1	0.35	0.6
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	9##	0.025	0.057	0.17	0.025	0.003	0.052	0.025	0.025	0.095	0.17
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/16/74-07/29/75	2	8.5	8.5	8.9	8.1	0.32	0.566	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	07/29/75-07/29/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	9##	0.025	0.024	0.05	0.005	0.	0.012	0.005	0.018	0.025	0.05
00720 CYANIDE, TOTAL (MG/L AS CN) MG/L	07/16/74-07/29/75	2##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00740 SULFITE (MG/L AS SO3)	07/29/75-07/29/75	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01000 ARSENIC, DISSOLVED (UG/L AS AS)	07/16/74-07/29/75	2	165.	165.	270.	60.	22050.	148.492	**	**	**	**
01002 ARSENIC, TOTAL (UG/L AS AS)	07/07/77-07/31/79	5##	5.	5.	5.	5.	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)	07/29/75-07/31/79	7##	25.	25.	25.	25.	0.	0.	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	07/16/74-07/29/75	2	3.	3.	6.	0.	18.	4.243	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	07/29/75-07/31/79	7##	25.	25.	25.	25.	0.	0.	**	**	**	**
01037 COBALT, TOTAL (UG/L AS CO)	07/29/75-07/31/79	7##	50.	50.	50.	50.	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	07/16/74-07/29/75	2##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	07/16/74-07/31/79	8##	20.	56.25	170.	20.	4512.5	67.175	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	07/29/75-07/31/79	7##	50.	53.571	100.	25.	505.952	22.493	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	07/16/74-07/31/79	8##	50.	50.	50.	50.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0063

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01055 MANGANESE, TOTAL (UG/L AS MN)	07/29/75-07/31/79	7##	25.	25.	25.	25.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	07/16/74-07/16/74	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)	07/16/74-07/29/75	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	07/16/74-07/31/79	8##	25.	56.25	150.	25.	3348.214	57.864	**	**	**	**
01132 LITHIUM, TOTAL (UG/L AS LI)	07/16/74-07/29/75	2	32.5	32.5	35.	30.	12.5	3.536	**	**	**	**
31508 COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	7.	7.	7.	7.	0.	0.	**	**	**	**
31508 LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/75-07/29/75	1	0.845	0.845	0.845	0.845	0.	0.	**	**	**	**
31508 GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.			GEOMETRIC MEAN =	7.								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	17##	2.5	3.324	9.	0.5	5.904	2.43	0.5	0.5	5.	5.8
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	07/16/74-07/31/79	17##	0.398	0.349	0.954	-0.301	0.209	0.457	-0.301	-0.301	0.699	0.75
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	2.234								
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	08/05/87-08/29/94	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
32210 CHLOROPHYLL-A UG/L TRICHROMATIC UNCORRECTED	04/04/77-07/02/79	4##	10.	11.25	20.	5.	56.25	7.5	**	**	**	**
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID, METH.	07/29/75-07/02/79	5	5.	6.8	13.	0.	27.2	5.215	**	**	**	**
32213 PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	08/05/87-08/29/94	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	08/05/87-08/29/94	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID, METH.	07/16/74-07/02/79	6	13.5	41.167	110.	5.	2470.167	49.701	**	**	**	**
32730 PHENOLICS, TOTAL, RECOVERABLE (UG/L)	07/16/74-07/31/79	6##	2.5	9.5	30.	2.5	134.5	11.597	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	07/16/74-07/29/75	3	50.	58.333	75.	50.	208.333	14.434	**	**	**	**
70305 SALINITY BASED ON CONDUCTIVITY	07/16/74-07/29/75	2	0.35	0.35	0.7	0.	0.245	0.495	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/07/77-08/05/87	5##	0.025	0.021	0.025	0.005	0.	0.009	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	07/16/74-07/31/79	8##	0.25	0.266	0.6	0.025	0.024	0.156	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0063

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	7	0	0.00				7	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	59	0	0.00				59	0	0.00						
00400 PH	Other-Hi Lim.	9.	57	0	0.00				57	0	0.00						
	Other-Lo Lim.	6.5	57	12	0.21				57	12	0.21						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	9	0	0.00				9	0	0.00						
00720 CYANIDE, TOTAL	Fresh Acute	0.022	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	2	1.00				2	2	1.00						
01002 ARSENIC, TOTAL	Fresh Acute	360.	5	0	0.00				5	0	0.00						
	Drinking Water	50.	5	0	0.00				5	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0&	0	0.00												
	Drinking Water	5.	0&	0	0.00												
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00				2	0	0.00						
01034 CHROMIUM, TOTAL	Drinking Water	100.	7	0	0.00				7	0	0.00						
01040 COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00				2	0	0.00						
	Drinking Water	1300.	2	0	0.00				2	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	2&	2	1.00				2	2	1.00						
	Drinking Water	1300.	8	0	0.00				8	0	0.00						
01051 LEAD, TOTAL	Fresh Acute	82.	8	0	0.00				8	0	0.00						
	Drinking Water	5.	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						
01075 SILVER, DISSOLVED	Fresh Acute	4.1	0&	0	0.00												
	Drinking Water	50.	2	0	0.00				2	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	8	2	0.25				8	2	0.25						
31508 COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	1	0	0.00				1	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	17	0	0.00				17	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	8	0	0.00				8	0	0.00						
	Drinking Water	2.	8	0	0.00				8	0	0.00						

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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0063

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/16/74-08/29/94	58	24.	22.067	29.	9.2	31.115	5.578	11.95	18.5	27.	27.8
00078	TRANSPARENCY, SECCHI DISC (METERS)	07/16/74-08/29/94	16	3.	5.925	50.	2.	138.937	11.787	2.	2.125	3.95	18.5
00300	OXYGEN, DISSOLVED MG/L	07/16/74-08/29/94	59	8.	7.853	10.8	5.6	1.46	1.208	5.9	7.1	8.5	9.4
00400	PH (STANDARD UNITS)	07/29/75-08/29/94	57	7.3	7.265	8.8	5.7	0.714	0.845	5.9	6.6	8.	8.22
00400	CONVERTED PH (STANDARD UNITS)	07/29/75-08/29/94	57	7.3	6.558	8.8	5.7	1.223	1.106	5.9	6.6	8.	8.22
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/75-08/29/94	57	0.05	0.277	1.995	0.002	0.257	0.507	0.006	0.01	0.251	1.259
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/16/74-08/29/94	9##	0.025	0.036	0.08	0.005	0.001	0.024	0.005	0.025	0.055	0.08
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/16/74-08/29/94	9	0.2	0.233	0.6	0.1	0.03	0.173	0.1	0.1	0.35	0.6
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	07/16/74-08/29/94	9##	0.025	0.057	0.17	0.025	0.003	0.052	0.025	0.025	0.095	0.17
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/16/74-08/29/94	9##	0.025	0.024	0.05	0.005	0.	0.012	0.005	0.018	0.025	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: GRSM0064

NPS Station ID: GRSM0064 LAT/LON: 35.458338/ -83.809726 Agency: 21NC01WQ Date Created: 02/20/88
Location: FONTANA LAKE AT FONTANA DAM
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9291010 /LTN031JSUR
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.90 On/Off RF1:
RF3 Index: 06010204002900.00 RF3 Mile Point: 0.00 Distance from RF3: 0.11 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0064

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	08/05/87-08/05/87	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		08/05/87-08/05/87	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		08/05/87-08/05/87	1	0.251	0.251	0.251	0.251	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		08/05/87-08/05/87	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00435 ACIDITY, TOTAL (MG/L AS CACO3)		08/05/87-08/05/87	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)		08/05/87-08/05/87	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)		08/05/87-08/05/87	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)		08/05/87-08/05/87	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)		08/05/87-08/05/87	1	0.57	0.57	0.57	0.57	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	08/05/87-08/05/87	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		08/05/87-08/05/87	1##	2.5	2.5	2.5	2.5	0.	0.	**	**	**	**
01027 CADMIUM, TOTAL (UG/L AS CD)		08/05/87-08/05/87	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)		08/05/87-08/05/87	1##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)		08/05/87-08/05/87	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)		08/05/87-08/05/87	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)		08/05/87-08/05/87	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)		08/05/87-08/05/87	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)		08/05/87-08/05/87	1	50.	50.	50.	50.	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)		08/05/87-08/05/87	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0064

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01027 CADMIUM, TOTAL	Fresh Acute	3.9	0&	0	0.00												
	Drinking Water	5.	0&	0	0.00												
01034 CHROMIUM, TOTAL	Drinking Water	100.	1	0	0.00				1	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	1	0	0.00				1	0	0.00						
	Drinking Water	1300.	1	0	0.00				1	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRSM0064

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01051 LEAD, TOTAL	Fresh Acute	82.	1	0	0.00				1	0	0.00						
	Drinking Water	5.	0&	0	0.00												
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00				1	0	0.00						
	Drinking Water	2.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0065

NPS Station ID: GRSM0065 LAT/LON: 35.458338/ -83.809726 Agency: 21NC01WQ Date Created: 02/20/88
Location: FONTANA LAKE AT FONTANA DAM FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9291020 /LTN031JBOT
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.70 On/Off RF1:
RF3 Index: 06010202000100.04 RF3 Mile Point: 0.04 Distance from RF3: 0.06 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0065

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/05/87-08/29/94	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/05/87-08/29/94	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/05/87-08/29/94	1	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/05/87-08/29/94	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	08/05/87-08/05/87	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0065

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0066

NPS Station ID: GRSM0066 LAT/LON: 35.462504/ -83.955559 Agency: 21NC01WQ Date Created: 12/03/88
Location: CALDERWOOD LAKE NR SLICKROCK CREEK
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE
STORET Station ID(s): G9992000 /LTN040
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 3.30 On/Off RF1:
RF3 Index: 06010204003404.36 RF3 Mile Point: 4.36 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0066

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/88-08/10/94	22	14.1	13.664	16.1	12.	0.973	0.986	12.1	12.825	14.2	14.44
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	07/27/88-08/10/94	2	1.65	1.65	1.7	1.6	0.005	0.071	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	07/27/88-08/10/94	2	3.25	3.25	4.	2.5	1.125	1.061	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	07/27/88-08/10/94	22	17.5	16.818	19.	13.	3.584	1.893	13.3	15.75	18.	19.
00204 DEPTH IN METERS AT WHICH 1% SURFACE LIGHT REMAINS	07/27/88-07/27/88	1	7.6	7.6	7.6	7.6	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	07/27/88-08/10/94	22	8.65	8.809	9.6	8.1	0.421	0.649	8.13	8.2	9.5	9.6
00400 PH (STANDARD UNITS)	07/27/88-08/10/94	22	6.85	6.809	7.3	6.4	0.088	0.297	6.4	6.5	7.1	7.2
00400 CONVERTED PH (STANDARD UNITS)	07/27/88-08/10/94	22	6.847	6.717	7.3	6.4	0.097	0.312	6.4	6.5	7.1	7.2
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/88-08/10/94	22	0.142	0.192	0.398	0.05	0.015	0.122	0.063	0.079	0.316	0.398
00500 RESIDUE, TOTAL (MG/L)	07/27/88-08/10/94	2	26.	26.	30.	22.	32.	5.657	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	07/27/88-08/10/94	2	2.5	2.5	4.	1.	4.5	2.121	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/27/88-08/10/94	2	0.04	0.04	0.05	0.03	0.	0.014	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	07/27/88-08/10/94	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)	07/27/88-08/10/94	2	0.16	0.16	0.16	0.16	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	07/27/88-08/10/94	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	07/27/88-08/10/94	2##	0.75	0.75	1.	0.5	0.125	0.354	**	**	**	**
32213 PHEOPHYTIN-A,FLUORIMETRIC METHOD (UG/L)	07/27/88-08/10/94	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
32217 CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	07/27/88-08/10/94	2##	1.25	1.25	2.	0.5	1.125	1.061	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	07/27/88-07/27/88	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0066

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00				2	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	22	0	0.00				22	0	0.00						
00400 PH	Other-Hi Lim.	9.	22	0	0.00				22	0	0.00						
	Other-Lo Lim.	6.5	22	6	0.27				22	6	0.27						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00				2	0	0.00						

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

Station Inventory for Station: GRSM0067

NPS Station ID: GRSM0067 LAT/LON: 35.462504/ -83.955559 Agency: 21NC01WQ Date Created: 12/03/88
Location: CALDERWOOD LAKE NR SLICKROCK CREEK FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9992010 /LTN040SUR
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 2.70 On/Off RF1:
RF3 Index: 06010204002013.24 RF3 Mile Point: 13.24 Distance from RF3: 0.05 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0067

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	07/27/88-07/27/88	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		07/27/88-07/27/88	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		07/27/88-07/27/88	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		07/27/88-07/27/88	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00435 ACIDITY, TOTAL (MG/L AS CACO3)		07/27/88-07/27/88	1	7.	7.	7.	7.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0067

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0068

NPS Station ID: GRSM0068 LAT/LON: 35.462504/ -83.955559 Agency: 21NC01WQ Date Created: 12/03/88
Location: CALDERWOOD LAKE NR SLICKROCK CREEK FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): G9992020 /LTN040BOT
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 2.70 On/Off RF1:
RF3 Index: 06010204002013.24 RF3 Mile Point: 13.24 Distance from RF3: 0.05 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0068

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: GRSM0069

NPS Station ID: GRSM0069 LAT/LON: 35.466115/ -83.790838 Agency: 131TVAC Date Created: 05/05/79
Location: FONTANA RESERVOIR
FIPS State/County: 37075 NORTH CAROLINA/GRAHAM
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370004
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 062.00
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 62.0 ECO Region:
RF1 Index: 06010202009 RF1 Mile Point: 1.290 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010204002013.24 RF3 Mile Point: 13.24 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0069

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/25/79-10/20/94	681	12.3	13.517	27.8	5.4	39.644	6.296	6.3	7.4	19.	22.38
00019 SAMPLE WEIGHT IN GRAMS		12/01/92-11/18/93	14	836.	933.643	1524.	514.	74057.786	272.136	592.	782.	1106.5	1438.
00039 SAMPLE LENGTH IN MILLIMETERS		12/01/92-11/18/93	14	446.5	439.643	538.	341.	3851.17	62.058	345.5	372.5	498.25	521.5
00060 FLOW, STREAM, MEAN DAILY	CFS	04/21/93-10/19/93	7	3388.	3775.571	5504.	1579.	1890031.286	1374.784	**	**	**	**
00062 ELEVATION, RESERVOIR SURFACE WATER IN FEET		04/21/93-10/19/93	7	1685.	1681.757	1700.9	1648.	412.863	20.319	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)		04/25/79-09/26/79	12	1.4	1.625	3.	0.5	0.857	0.926	0.5	0.65	2.45	2.97
00078 TRANSPARENCY, SECCHI DISC (METERS)		05/18/93-10/20/94	13	5.1	5.062	8.1	2.9	1.573	1.254	3.18	4.4	5.4	7.3
00080 COLOR (PLATINUM-COBALT UNITS)		04/25/79-09/26/79	4	4.	4.25	5.	4.	0.25	0.5	**	**	**	**
00090 OXIDATION REDUCTION POTENTIAL (MILLIVOLTS)		04/25/79-04/25/79	43	615.	607.907	630.	575.	340.753	18.459	580.	590.	620.	630.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		04/21/93-10/20/94	527	21.	21.674	36.	17.	9.962	3.156	19.	19.	23.	26.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		06/13/79-09/26/79	104	20.	17.587	29.	5.	48.789	6.985	10.	10.	20.	26.5
00300 OXYGEN, DISSOLVED	MG/L	04/25/79-10/20/94	681	8.5	8.29	11.9	0.1	4.278	2.068	5.4	7.	9.9	10.7
00310 BOD, 5 DAY, 20 DEG C	MG/L	04/25/79-09/26/79	8##	0.5	0.863	1.9	0.5	0.297	0.545	**	**	**	**
00400 PH (STANDARD UNITS)		04/25/79-10/20/94	681	6.4	6.557	8.6	5.6	0.321	0.567	6.	6.2	6.8	7.3
00400 CONVERTED PH (STANDARD UNITS)		04/25/79-10/20/94	681	6.4	6.318	8.6	5.6	0.378	0.615	6.	6.2	6.8	7.3
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/25/79-10/20/94	681	0.398	0.481	2.512	0.003	0.181	0.425	0.05	0.158	0.631	1.
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		04/25/79-09/26/79	20	5.	5.65	17.	3.	7.818	2.796	4.	5.	6.	6.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		04/25/79-09/26/79	20	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		04/25/79-09/26/79	12	1.	1.583	4.	0.5	1.311	1.145	0.5	1.	2.75	3.7
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)		04/25/79-08/18/94	28	0.065	0.062	0.11	0.005	0.001	0.035	0.01	0.033	0.098	0.11
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		04/25/79-08/18/94	29	0.02	0.056	0.67	0.005	0.016	0.125	0.005	0.008	0.065	0.11
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		04/25/79-08/18/94	29	0.13	0.082	0.17	0.005	0.004	0.065	0.005	0.005	0.13	0.16
00665 PHOSPHORUS, TOTAL (MG/L AS P)		04/25/79-08/18/94	28##	0.005	0.006	0.01	0.001	0.	0.002	0.003	0.005	0.007	0.01
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		04/21/93-08/18/94	8	0.004	0.003	0.005	0.001	0.	0.001	**	**	**	**
00677 PHOSPHORUS,HYDROLYZABLE + ORTHO,DIS,AUTOANALYZER		04/25/79-09/26/79	17##	0.005	0.006	0.02	0.005	0.	0.004	0.005	0.005	0.005	0.008
00680 CARBON, TOTAL ORGANIC (MG/L AS C)		04/21/93-08/18/94	8	0.95	1.013	1.5	0.8	0.056	0.236	**	**	**	**
00917 CALCIUM IN BOTTOM DEPOSITS (MG/KG AS CA DRY WGT)		08/16/93-08/16/93	2	590.	590.	590.	590.	0.	0.	**	**	**	**
00924 MAGNESIUM IN BOTTOM DEPOS. (MG/KG AS MG DRY WGT)		08/16/93-08/16/93	2	6000.	6000.	6100.	5900.	20000.	141.421	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)		08/16/93-08/16/93	2	4.	4.	4.	4.	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)		08/16/93-08/16/93	2	36.5	36.5	37.	36.	0.5	0.707	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)		08/16/93-08/16/93	2	37.	37.	37.	37.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)		08/16/93-08/16/93	2	23.	23.	24.	22.	2.	1.414	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)		08/16/93-08/16/93	2	1450.	1450.	1500.	1400.	5000.	70.711	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)		08/16/93-08/16/93	2	29.	29.	30.	28.	2.	1.414	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)		08/16/93-08/16/93	2	130.	130.	130.	130.	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)		08/16/93-08/16/93	2	47500.	47500.	49000.	46000.	4500000.	2121.32	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)		08/16/93-08/16/93	2	53500.	53500.	54000.	53000.	500000.	707.107	**	**	**	**
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.		04/21/93-10/20/94	18	2.	1.722	4.	1.	0.683	0.826	1.	1.	2.	3.1

** - 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: GRSM0069

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
32212 CHLOROPHYLL-B UG/L TRICHROMATIC UNCORRECTED	04/21/93-10/20/94	18##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
32214 CHLOROPHYLL-C UG/L TRICHROMATIC UNCORRECTED	04/21/93-10/20/94	18##	0.5	0.5	0.5	0.5	0.	0.	0.5	0.5	0.5	0.5
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	04/21/93-10/20/94	18##	0.5	0.556	1.	0.5	0.026	0.162	0.5	0.5	0.5	1.
34257 B-BHC-BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
34262 DELTA BENZENE HEXACHLORIDE DRY WGTBOTUG/KG	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
34354 ENDOSULFAN SULFATE DRY WGTBOTUG/KG	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
34359 ENDOSULFAN, BETA DRY WGTBOTUG/KG	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
34364 ENDOSULFAN, ALPHA DRY WGTBOTUG/KG	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
34369 ENDRIN ALDEHYDE DRY WGTBOTUG/KG	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
39076 BHC-ALPHA ISOMER, BOTTOM DEPOS (UG/KG DRY SOL)	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
39301 P,P' DDT IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
39311 P,P' DDD IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
39321 P,P' DDE IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
39333 ALDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
39343 GAMMA-BHC(LINDANE),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
39351 CHLORDANE(TECH MIX&METABS),SEDIMENTS,DRY WGT,UG/KG	08/16/93-08/16/93	2	11.5	11.5	12.	11.	0.5	0.707	**	**	**	**
39383 DIELDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
39393 ENDRIN IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
39403 TOXAPHENE IN BOTTOM DEPOS. (UG/KILOGRAM DRY SOL.)	08/16/93-08/16/93	2##	250.	250.	250.	250.	0.	0.	**	**	**	**
39413 HEPTACHLOR IN BOT. DEP. (UG/KILOGRAM DRY SOLIDS)	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
39423 HEPTACHLOR EPOXIDE IN BOT. DEP. (UG/KG DRY SOL.)	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
39481 METHOXYCHLOR IN BOTTOM DEPOSITS (UG/KG DRY SOL.)	08/16/93-08/16/93	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
39491 PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	08/16/93-08/16/93	2##	50.	50.	50.	50.	0.	0.	**	**	**	**
39495 PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	2##	50.	50.	50.	50.	0.	0.	**	**	**	**
39499 PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	08/16/93-08/16/93	2##	50.	50.	50.	50.	0.	0.	**	**	**	**
39503 PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	2##	50.	50.	50.	50.	0.	0.	**	**	**	**
39507 PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	2##	50.	50.	50.	50.	0.	0.	**	**	**	**
39511 PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	08/16/93-08/16/93	2##	50.	50.	50.	50.	0.	0.	**	**	**	**
39514 PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	08/16/93-08/16/93	2##	50.	50.	50.	50.	0.	0.	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	04/25/79-09/26/79	12	20.	20.	30.	10.	54.545	7.385	10.	12.5	27.5	30.
70318 SOLIDS, TOTAL, PERCENT OF WET SAMPLE	08/16/93-08/16/93	2	31.2	31.2	31.4	31.	0.08	0.283	**	**	**	**
70322 SOLIDS, VOLATILE, PERCENT OF TOTAL SOLIDS	08/16/93-08/16/93	2	10.1	10.1	10.2	10.	0.02	0.141	**	**	**	**
71921 MERCURY,TOT, IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	08/16/93-08/16/93	2##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71930 MERCURY,TOTAL IN FISH OR ANIMAL-WET WEIGHT BASIS	12/01/92-11/18/93	1	0.46	0.46	0.46	0.46	0.	0.	**	**	**	**
82078 TURBIDITY,FIELD NEPHELOMETRIC TURBIDITY UNITS,NTU	04/18/94-10/20/94	7	1.7	2.714	5.9	1.	4.141	2.035	**	**	**	**
85664 WEIGHT, WET, OF FISH LIVER GRAMS	12/01/92-11/18/93	14	12.	16.429	50.	4.	190.11	13.788	5.	8.	18.5	47.
85665 WEIGHT, WET, FISH, RIGHT FILLET GRAMS	12/01/92-11/18/93	14	225.	227.286	368.	112.	4433.143	66.582	135.5	180.75	267.5	344.
85666 WEIGHT, WET, FISH, LEFT FILLET GRAMS	12/01/92-11/18/93	14	230.	229.143	372.	116.	4392.44	66.275	138.	184.5	265.	347.

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

EPA Water Quality Criteria Analysis for Station: GRSM0069

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	12	0	0.00				12	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	681	18	0.03	79	10	0.13	602	8	0.01						
00400 PH	Other-Hi Lim.	9.	681	0	0.00	79	0	0.00	602	0	0.00						
	Other-Lo Lim.	6.5	681	391	0.57	79	61	0.77	602	330	0.55						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	29	0	0.00				29	0	0.00						
82078 TURBIDITY, FIELD	Other-Hi Lim.	50.	7	0	0.00	1	0	0.00	6	0	0.00						

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

Station Inventory for Station: GRSM0070

NPS Station ID: GRSM0070 LAT/LON: 35.470837/ -83.318059 Agency: 21NC01WQ Date Created: / /
Location: OCONALUFTEE RIVER NR CHEROKEE NC INACT-750129 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G8500000 /LTN029
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010203031 RF1 Mile Point: 0.530 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203003101.06 RF3 Mile Point: 1.05 Distance from RF3: 0.07 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0070

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/68-03/24/76	16	17.	14.844	22.	1.5	38.324	6.191	5.35	9.	19.75	22.
00023	SAMPLE WEIGHT IN POUNDS	07/29/68-01/29/75	15	18.	15.233	22.	1.5	38.46	6.202	4.8	9.	20.	22.
00060	FLOW, STREAM, MEAN DAILY CFS	07/29/68-06/18/70	5	270.	265.8	361.	148.	9309.7	96.487	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	03/24/76-03/24/76	1	400.	400.	400.	400.	0.	0.	**	**	**	**
00065	STAGE, STREAM (FEET)	06/21/73-03/24/76	2	3.035	3.035	3.15	2.92	0.026	0.163	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/16/74-12/10/74	2	1.9	1.9	2.6	1.2	0.98	0.99	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/12/74-11/14/74	2	47.5	47.5	64.	31.	544.5	23.335	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/29/68-03/24/76	16	9.7	10.006	13.5	7.	2.397	1.548	8.12	9.	10.9	12.59
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/29/68-03/24/76	16	97.5	96.75	113.	57.	159.8	12.641	75.9	94.25	104.25	110.2
00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	09/12/74-11/14/74	2	47.5	47.5	64.	31.	544.5	23.335	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	07/29/68-03/24/76	11	0.4	0.623	1.4	0.05	0.22	0.469	0.08	0.3	1.1	1.38
00340	COD, .25N K2CR207 MG/L	01/29/75-03/24/76	2##	8.75	8.75	12.5	5.	28.125	5.303	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/68-03/24/76	16	6.7	6.8	7.6	6.1	0.164	0.405	6.24	6.525	7.1	7.46
00400	CONVERTED PH (STANDARD UNITS)	07/29/68-03/24/76	16	6.7	6.642	7.6	6.1	0.191	0.437	6.24	6.525	7.1	7.46
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/68-03/24/76	16	0.2	0.228	0.794	0.025	0.04	0.201	0.035	0.079	0.3	0.589
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/68-03/24/76	16	7.	6.875	9.	4.	2.383	1.544	4.7	6.	8.	9.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/68-03/24/76	14	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	09/16/74-03/24/76	3	22.	25.333	35.	19.	72.333	8.505	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	09/16/74-03/24/76	2	10.	10.	16.	4.	72.	8.485	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	09/16/74-03/24/76	2	18.	18.	21.	15.	18.	4.243	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/21/73-01/29/75	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	12/08/70-12/08/70	1##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00525	RESIDUE, FIXED FILTRABLE (MG/L)	06/21/73-06/21/73	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/16/74-03/24/76	2	7.	7.	13.	1.	72.	8.485	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/16/74-03/24/76	2	3.	3.	5.	1.	8.	2.828	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	09/16/74-03/24/76	2	4.	4.	8.	0.	32.	5.657	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	06/21/73-01/29/75	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/29/75-01/29/75	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)	01/29/75-01/29/75	1	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/29/68-01/29/75	15	9.7	9.86	13.5	7.	2.201	1.484	7.96	9.	10.6	12.24
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/29/75-01/29/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/29/75-01/29/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/29/75-01/29/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00740	SULFITE (MG/L AS SO3)	06/21/73-01/29/75	6	2.	1.833	2.	1.	0.167	0.408	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/29/68-06/18/70	5	270.	265.8	361.	148.	9309.7	96.487	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/29/75-01/29/75	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	09/16/74-09/16/74	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/21/73-01/29/75	5	90.	138.	270.	60.	7470.	86.429	**	**	**	**

** - Less than 9 observations ## - 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: GRSM0070

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	06/21/73-01/29/75	6	0.	0.05	0.3	0.	0.015	0.122	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	06/21/73-01/29/75	6	1.	1.	1.	1.	0.	0.	**	**	**	**
01065 NICKEL, DISSOLVED (UG/L AS NI)	09/16/74-09/16/74	1	15.	15.	15.	15.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	07/29/68-10/16/69	3	879.	989.667	1310.	780.	79410.333	281.798	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)	08/26/71-01/29/75	5	330.	1056.	3800.	150.	2400380.	1549.316	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	07/29/68-01/29/75	10	0.4	0.555	1.	0.05	0.141	0.376	0.065	0.275	1.	1.
01132 LITHIUM, TOTAL (UG/L AS LI)	06/21/73-01/29/75	6	47.5	50.	100.	0.	2210.	47.011	**	**	**	**
31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/14/69-01/29/75	4	17500.	16753.125	32000.	12.5	244777122.396	15645.355	**	**	**	**
31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	05/14/69-01/29/75	4	4.146	3.474	4.505	1.097	2.6	1.612	**	**	**	**
31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506			GEOMETRIC MEAN =	2975.631								
31508 COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-01/29/75	15	7.	6.867	8.	6.	0.267	0.516	6.	7.	7.	7.4
31508 LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-01/29/75	15	0.845	0.836	0.903	0.778	0.001	0.033	0.778	0.845	0.845	0.868
31508 GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.			GEOMETRIC MEAN =	6.848								
31615 FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/29/68-04/27/71	3	200.	1293.333	3500.	180.	3652133.333	1911.056	**	**	**	**
31615 LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/29/68-04/27/71	3	2.301	2.7	3.544	2.255	0.535	0.731	**	**	**	**
31615 GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)			GEOMETRIC MEAN =	501.33								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/26/71-03/24/76	6	300.	890.	3800.	60.	2085640.	1444.175	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/26/71-03/24/76	6	2.475	2.558	3.58	1.778	0.382	0.618	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	361.303								
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH.	06/21/73-01/29/75	4	0.	0.25	1.	0.	0.25	0.5	**	**	**	**
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	07/29/68-01/29/75	15	97.	96.2	113.	57.	166.029	12.885	73.2	94.	102.	110.6
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/21/73-01/29/75	6	50.	64.167	95.	50.	484.167	22.004	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	12/08/70-12/08/70	1##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
85001 BOD, 5 DAY LBS/DAY	07/29/68-06/18/70	4	1094.5	1372.25	2520.	780.	638420.25	799.012	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0070

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00	1	0	0.00	1	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	16	0	0.00	6	0	0.00	10	0	0.00						
00400 PH	Other-Hi Lim.	9.	16	0	0.00	6	0	0.00	10	0	0.00						
	Other-Lo Lim.	6.5	16	4	0.25	6	1	0.17	10	3	0.30						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00720 CYANIDE, TOTAL	Fresh Acute	0.022	0&	0	0.00												
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	5	0	0.00	2	0	0.00	3	0	0.00						
	Drinking Water	50.	5	5	1.00	2	2	1.00	3	3	1.00						
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	6	0	0.00	3	0	0.00	3	0	0.00						
01040 COPPER, DISSOLVED	Fresh Acute	18.	6	0	0.00	3	0	0.00	3	0	0.00						
	Drinking Water	1300.	6	0	0.00	3	0	0.00	3	0	0.00						
01065 NICKEL, DISSOLVED	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01067 NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	1	0	0.00	2	0	0.00						
	Drinking Water	100.	3	3	1.00	1	1	1.00	2	2	1.00						
01075 SILVER, DISSOLVED	Fresh Acute	4.1	5	5	1.00	2	2	1.00	3	3	1.00						
	Drinking Water	50.	5	5	1.00	2	2	1.00	3	3	1.00						
01090 ZINC, DISSOLVED	Fresh Acute	120.	10	0	0.00	3	0	0.00	7	0	0.00						
31505 COLIFORM, TOTAL, MPN, CONF. TEST, 35C	Other-Hi Lim.	1000.	4	3	0.75	2	1	0.50	2	2	1.00						
31508 COLIFORM, TOTAL, MPN, COMP. TEST, TUBE C	Other-Hi Lim.	1000.	15	0	0.00	5	0	0.00	10	0	0.00						
31615 FECAL COLIFORM, MPN	Other-Hi Lim.	200.	3	2	0.67	1	1	1.00	2	1	0.50						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	6	4	0.67	3	1	0.33	3	3	1.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0071

NPS Station ID: GRSM0071 LAT/LON: 35.470837/ -83.869448 Agency: 12NSS Date Created: 10/22/88
Location: TWENTYMILE CREEK FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 2A07892L /SI02A07892L
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 3 Aquifer:
Major Basin: Elevation: 439 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 14.80 On/Off RF1:
RF3 Index: 06010202019503.57 RF3 Mile Point: 5.28 Distance from RF3: 0.02 On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0071

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		03/25/85-07/11/85	4	11.7	12.35	18.	8.	26.357	5.134	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)		03/25/85-07/11/85	4	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)		03/25/85-07/11/85	4	12.5	12.5	15.	10.	8.333	2.887	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		03/25/85-07/11/85	4	11.5	11.75	13.	11.	0.917	0.957	**	**	**	**
00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	03/25/85-07/11/85	4	9.25	9.625	11.8	8.2	2.949	1.717	**	**	**	**
00403	PH, LAB, STANDARD UNITS	SU	03/25/85-07/11/85	4	6.65	6.6	6.8	6.3	0.047	0.216	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS		03/25/85-07/11/85	4	6.647	6.557	6.8	6.3	0.049	0.222	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		03/25/85-07/11/85	4	0.225	0.278	0.501	0.158	0.024	0.154	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	03/25/85-07/11/85	4	64.05	67.8	83.	60.1	111.567	10.563	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)		03/25/85-07/11/85	4	3.	3.25	4.	3.	0.25	0.5	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)		03/25/85-07/11/85	4	0.012	0.013	0.021	0.009	0.	0.005	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)		03/25/85-07/11/85	4	0.95	1.05	1.7	0.6	0.23	0.48	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)		03/25/85-07/11/85	4	0.95	0.925	1.	0.8	0.009	0.096	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)		03/25/85-07/11/85	4	0.65	0.675	0.8	0.6	0.009	0.096	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		03/25/85-07/11/85	4	0.2	0.225	0.3	0.2	0.002	0.05	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)		03/25/85-07/11/85	4	0.96	0.96	1.	0.92	0.002	0.046	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)		03/25/85-07/11/85	4	0.505	0.505	0.55	0.46	0.002	0.047	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER	MG/L	03/25/85-07/11/85	4	0.5	0.475	0.5	0.4	0.002	0.05	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)		03/25/85-07/11/85	4	0.95	0.95	1.2	0.7	0.043	0.208	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)		03/25/85-07/11/85	4	0.025	0.025	0.03	0.02	0.	0.006	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)		03/25/85-07/11/85	4	7.4	7.375	8.1	6.6	0.402	0.634	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)		03/25/85-07/11/85	4	0.5	0.75	2.	0.	0.917	0.957	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)		03/25/85-07/11/85	4	77.	88.5	163.	37.	2846.333	53.351	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)		03/25/85-07/11/85	4	0.2	0.25	0.4	0.2	0.01	0.1	**	**	**	**
71885	IRON (UG/L AS FE)		03/25/85-07/11/85	4	5.495	7.37	16.99	1.5	46.168	6.795	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL		03/25/85-07/11/85	4	1440.	1440.	1440.	1440.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS,	NTU	03/25/85-07/11/85	4	0.9	1.25	2.7	0.5	1.077	1.038	**	**	**	**
83509	STREAM, WIDTH	METER	03/25/85-07/11/85	4	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0071

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00403 PH, LAB	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	3	0	0.00						
	Other-Lo Lim.	6.5	4	1	0.25	1	1	1.00	3	0	0.00						
00409 ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	4	4	1.00	1	1	1.00	3	3	1.00						
00941 CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	3	0	0.00						
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	4	0	0.00	1	0	0.00	3	0	0.00						
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00	3	0	0.00						
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	4	0	0.00	1	0	0.00	3	0	0.00						

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

Station Inventory for Station: GRSM0072

NPS Station ID: GRSM0072 LAT/LON: 35.472503/ -83.856393 Agency: 131TVAC Date Created: 03/03/84
Location: TRIB. TO UNNAMED TRIB. 0.16 TO LITTLE TN R 55.15 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 370145
RMI-Indexes: 1021500 007720 00920 8540 3070 0010
RMI-Miles: 0953.80 0046.50 601.10 055.15 000.16 001.85
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: TWENTYMILE CREEK 1.85 ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010202000100.04 RF3 Mile Point: 0.04 Distance from RF3: 0.07 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0072

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/13/83-05/08/85	7	8.2	8.714	17.5	0.	30.295	5.504	**	**	**	**
00065 STAGE, STREAM (FEET)	08/29/84-05/08/85	11	1.18	6.556	50.75	0.97	223.902	14.963	0.972	1.01	1.36	42.832
00080 COLOR (PLATINUM-COBALT UNITS)	12/13/83-05/08/85	22	10.	9.364	15.	2.	14.338	3.787	2.3	6.75	12.	14.7
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	12/13/83-05/08/85	22	20.	21.727	60.	2.	192.398	13.871	7.3	13.5	25.5	44.9
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	12/13/83-05/08/85	6	11.5	11.833	14.	10.	2.167	1.472	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	02/23/84-06/07/85	32	12.	13.125	23.	10.	10.242	3.2	11.	12.	13.	19.2
00300 OXYGEN, DISSOLVED MG/L	12/13/83-08/29/84	4	11.3	10.775	11.7	8.8	1.876	1.37	**	**	**	**
00400 PH (STANDARD UNITS)	12/13/83-05/08/85	7	6.3	6.201	6.8	5.34	0.243	0.493	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	12/13/83-05/08/85	7	6.3	5.935	6.8	5.34	0.326	0.571	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/13/83-05/08/85	7	0.501	1.161	4.571	0.158	2.483	1.576	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	12/13/83-06/07/85	34	6.7	6.521	7.	5.7	0.153	0.391	5.9	6.1	6.8	6.9
00403 CONVERTED PH, LAB, STANDARD UNITS	12/13/83-06/07/85	34	6.7	6.329	7.	5.7	0.191	0.437	5.9	6.1	6.8	6.9
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/13/83-06/07/85	34	0.2	0.469	1.995	0.1	0.243	0.493	0.126	0.158	0.794	1.259
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	12/13/83-06/07/85	34	3.	2.735	6.	1.	1.231	1.109	1.	2.	3.	4.
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	12/13/83-05/08/85	24##	0.02	0.02	0.02	0.02	0.	0.	0.02	0.02	0.02	0.02
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	05/16/84-05/16/84	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00681 CARBON, DISSOLVED ORGANIC (MG/L AS C)	12/13/83-05/08/85	24	1.2	1.392	2.5	0.7	0.271	0.521	0.85	1.	1.75	2.3
00915 CALCIUM, DISSOLVED (MG/L AS CA)	12/13/83-05/08/85	24	0.7	0.704	1.	0.5	0.01	0.1	0.6	0.7	0.7	0.85
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	12/13/83-05/08/85	24	0.2	0.229	0.3	0.1	0.003	0.055	0.2	0.2	0.3	0.3
00930 SODIUM, DISSOLVED (MG/L AS NA)	12/13/83-05/08/85	24	0.87	0.854	1.1	0.67	0.012	0.107	0.73	0.76	0.9	1.03
00935 POTASSIUM, DISSOLVED (MG/L AS K)	12/13/83-05/08/85	24	0.495	0.486	0.68	0.005	0.019	0.138	0.32	0.433	0.57	0.625
00946 SULFATE, DISSOLVED (MG/L AS SO4)	12/13/83-05/08/85	26	1.2	1.358	2.5	0.7	0.283	0.532	0.8	0.975	1.9	2.23
00950 FLUORIDE, DISSOLVED (MG/L AS F)	12/13/83-05/08/85	24##	0.01	0.012	0.03	0.01	0.	0.006	0.01	0.01	0.01	0.025
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	11/20/84-06/07/85	28	26.5	40.357	120.	18.	678.238	26.043	18.9	25.	51.75	89.2
32023 ACIDS, STRONG	12/13/83-05/08/85	26##	5.	5.	5.	5.	0.	0.	5.	5.	5.	5.
32024 ACIDS, WEAK	12/13/83-05/08/85	26	190.	348.462	710.	90.	63357.538	251.709	117.	120.	622.5	661.
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/13/83-05/16/84	3	2.	2.	2.	2.	0.	0.	**	**	**	**
71846 NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	12/13/83-05/08/85	24##	0.005	0.024	0.17	0.005	0.001	0.035	0.005	0.005	0.038	0.045
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	12/13/83-05/08/85	24	0.4	0.486	0.9	0.02	0.082	0.287	0.125	0.3	0.8	0.9
82295 CHLORIDE DISSOLVED AS CL IN WATER UG/L	12/13/83-05/08/85	24	500.	529.167	1300.	400.	30851.449	175.646	400.	500.	500.	600.

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

EPA Water Quality Criteria Analysis for Station: GRSM0072

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	4	0	0.00	2	0	0.00	2	0	0.00						
00400 PH	Other-Hi Lim.	9.	7	0	0.00	4	0	0.00	3	0	0.00						
	Other-Lo Lim.	6.5	7	5	0.71	4	3	0.75	3	2	0.67						
00403 PH, LAB	Other-Hi Lim.	9.	34	0	0.00	14	0	0.00	20	0	0.00						
	Other-Lo Lim.	6.5	34	14	0.41	14	11	0.79	20	3	0.15						
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	26	0	0.00	14	0	0.00	12	0	0.00						
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	24	0	0.00	12	0	0.00	12	0	0.00						
82295 CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	24	0	0.00	12	0	0.00	12	0	0.00						

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

Station Inventory for Station: GRSM0073

NPS Station ID: GRSM0073 LAT/LON: 35.477782/ -83.318059 Agency: 21NC01WQ Date Created: / /
Location: OCONALUFTEE RIVER AT CHEROKEE NC INACT-750129 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G8200000 /LTN028
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 1 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE ECO Region:
RF1 Index: 06010203031 RF1 Mile Point: 0.930 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010202049200.00 RF3 Mile Point: 0.00 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0073

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/68-01/29/75	15	17.	15.2	22.	1.	40.314	6.349	4.	9.	20.	22.
00023	SAMPLE WEIGHT IN POUNDS	07/29/68-01/29/75	15	17.	15.2	22.	1.	40.314	6.349	4.	9.	20.	22.
00060	FLOW, STREAM, MEAN DAILY CFS	07/29/68-06/18/70	5	270.	265.8	361.	148.	9309.7	96.487	**	**	**	**
00065	STAGE, STREAM (FEET)	06/21/73-06/21/73	1	2.92	2.92	2.92	2.92	0.	0.	**	**	**	**
00076	TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	09/16/74-12/10/74	2	1.6	1.6	2.1	1.1	0.5	0.707	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/12/74-11/14/74	2	44.5	44.5	60.	29.	480.5	21.92	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	07/29/68-01/29/75	15	9.7	9.967	13.6	7.6	2.171	1.473	8.2	8.9	11.1	12.34
00301	OXYGEN, DISSOLVED, PERCENT OF SATURATION %	07/29/68-01/29/75	14	96.5	97.714	113.	61.	155.451	12.468	77.5	95.	107.5	112.
00308	BOD, NITROGEN INHIB.,TOTAL, 20 DAY, 20 DEG C MG/L	09/12/74-11/14/74	2	44.5	44.5	60.	29.	480.5	21.92	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	07/29/68-01/29/75	10	0.45	0.66	1.6	0.2	0.196	0.443	0.21	0.375	1.025	1.55
00340	COD, .25N K2CR2O7 MG/L	01/29/75-01/29/75	1##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/68-01/29/75	15	7.	6.847	7.7	6.2	0.196	0.442	6.2	6.5	7.1	7.52
00400	CONVERTED PH (STANDARD UNITS)	07/29/68-01/29/75	15	7.	6.655	7.7	6.2	0.235	0.485	6.2	6.5	7.1	7.52
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/68-01/29/75	15	0.1	0.221	0.631	0.02	0.044	0.209	0.032	0.079	0.316	0.631
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	07/29/68-01/29/75	15	7.	6.267	8.	4.	1.924	1.387	4.	5.	7.	8.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	07/29/68-01/29/75	13	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	09/16/74-01/29/75	2	13.5	13.5	16.	11.	12.5	3.536	**	**	**	**
00505	RESIDUE, TOTAL VOLATILE (MG/L)	09/16/74-01/29/75	2	5.	5.	7.	3.	8.	2.828	**	**	**	**
00510	RESIDUE, TOTAL FIXED (MG/L)	09/16/74-01/29/75	2	8.5	8.5	9.	8.	0.5	0.707	**	**	**	**
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	06/21/73-01/29/75	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00520	RESIDUE, VOLATILE FILTRABLE (MG/L)	12/08/70-12/08/70	1##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00525	RESIDUE, FIXED FILTRABLE (MG/L)	06/21/73-06/21/73	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/16/74-01/29/75	2	5.	5.	7.	3.	8.	2.828	**	**	**	**
00535	RESIDUE, VOLATILE NONFILTRABLE (MG/L)	09/16/74-01/29/75	2	3.5	3.5	7.	0.	24.5	4.95	**	**	**	**
00540	RESIDUE, FIXED NONFILTRABLE (MG/L)	09/16/74-01/29/75	2	1.5	1.5	3.	0.	4.5	2.121	**	**	**	**
00600	NITROGEN, TOTAL (MG/L AS N)	06/21/73-01/29/75	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	01/29/75-01/29/75	1##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/29/75-01/29/75	1	0.24	0.24	0.24	0.24	0.	0.	**	**	**	**
00653	PHOSPHATE, TOTAL SOLUBLE (MG/L)	07/29/68-01/29/75	15	9.7	9.967	13.6	7.6	2.171	1.473	8.2	8.9	11.1	12.34
00660	PHOSPHATE, ORTHO (MG/L AS PO4)	01/29/75-01/29/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/29/75-01/29/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00720	CYANIDE, TOTAL (MG/L AS CN) MG/L	01/29/75-01/29/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00740	SULFITE (MG/L AS SO3)	06/21/73-01/29/75	6	2.	1.667	2.	1.	0.267	0.516	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	07/29/68-06/18/70	5	270.	265.8	361.	148.	9309.7	96.487	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	01/29/75-01/29/75	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00951	FLUORIDE, TOTAL (MG/L AS F)	09/16/74-01/29/75	2	1.5	1.5	3.	0.	4.5	2.121	**	**	**	**
01000	ARSENIC, DISSOLVED (UG/L AS AS)	06/21/73-01/29/75	5	180.	192.	270.	60.	7470.	86.429	**	**	**	**
01030	CHROMIUM, DISSOLVED (UG/L AS CR)	06/21/73-01/29/75	6	0.	0.05	0.3	0.	0.015	0.122	**	**	**	**

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

Parameter Inventory for Station: GRSM0073

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01040 COPPER, DISSOLVED (UG/L AS CU)	06/21/73-01/29/75	6	1.	1.	1.	1.	0.	0.	**	**	**	**
01065 NICKEL, DISSOLVED (UG/L AS NI)	09/16/74-01/29/75	2	8.5	8.5	9.	8.	0.5	0.707	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	07/29/68-10/16/69	3	799.	785.667	975.	583.	38549.333	196.34	**	**	**	**
01075 SILVER, DISSOLVED (UG/L AS AG)	08/26/71-01/29/75	5	20.	17.	30.	5.	95.	9.747	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	07/29/68-01/29/75	10	0.45	0.69	2.	0.2	0.288	0.536	0.21	0.375	1.	1.9
01132 LITHIUM, TOTAL (UG/L AS LI)	06/21/73-01/29/75	6	57.5	55.833	100.	0.	1784.167	42.239	**	**	**	**
31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	05/14/69-01/29/75	4##	75.	965.625	3700.	12.5	3324309.896	1823.269	**	**	**	**
31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	05/14/69-01/29/75	4##	1.849	2.091	3.568	1.097	1.111	1.054	**	**	**	**
31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506			GEOMETRIC MEAN =	123.316								
31508 COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-01/29/75	15	7.	6.867	8.	6.	0.267	0.516	6.	7.	7.	7.4
31508 LOG COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.	07/29/68-01/29/75	15	0.845	0.836	0.903	0.778	0.001	0.033	0.778	0.845	0.845	0.868
31508 GM COLIFORM,TOT,MPN,COMPLETED TEST, TUBE CONFIG.			GEOMETRIC MEAN =	6.848								
31615 FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/29/68-04/27/71	3##	5.	90.	260.	5.	21675.	147.224	**	**	**	**
31615 LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	07/29/68-04/27/71	3##	0.699	1.271	2.415	0.699	0.982	0.991	**	**	**	**
31615 GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)			GEOMETRIC MEAN =	18.663								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/26/71-01/29/75	5	20.	17.	30.	5.	95.	9.747	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/26/71-01/29/75	5	1.301	1.156	1.477	0.699	0.095	0.308	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	14.31								
32211 CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID, METH.	06/21/73-01/29/75	4	0.	0.	0.	0.	0.	0.	**	**	**	**
32218 PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID, METH.	07/29/68-01/29/75	14	96.5	97.714	113.	61.	155.451	12.468	77.5	95.	107.5	112.
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	06/21/73-01/29/75	6	50.	56.667	90.	50.	266.667	16.33	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	12/08/70-12/08/70	1##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
85001 BOD, 5 DAY LBS/DAY	07/29/68-06/18/70	4	887.	1121.75	2130.	583.	477507.583	691.019	**	**	**	**

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0073

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	2	0	0.00	1	0	0.00	1	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	15	0	0.00	5	0	0.00	10	0	0.00						
00400 PH	Other-Hi Lim.	9.	15	0	0.00	5	0	0.00	10	0	0.00						
	Other-Lo Lim.	6.5	15	4	0.27	5	1	0.20	10	3	0.30						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00	1	0	0.00									
00720 CYANIDE, TOTAL	Fresh Acute	0.022	0&	0	0.00												
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
01000 ARSENIC, DISSOLVED	Fresh Acute	360.	5	0	0.00	2	0	0.00	3	0	0.00						
	Drinking Water	50.	5	5	1.00	2	2	1.00	3	3	1.00						
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	6	0	0.00	3	0	0.00	3	0	0.00						
01040 COPPER, DISSOLVED	Fresh Acute	18.	6	0	0.00	3	0	0.00	3	0	0.00						
	Drinking Water	1300.	6	0	0.00	3	0	0.00	3	0	0.00						
01065 NICKEL, DISSOLVED	Fresh Acute	1400.	2	0	0.00	1	0	0.00	1	0	0.00						
	Drinking Water	100.	2	0	0.00	1	0	0.00	1	0	0.00						
01067 NICKEL, TOTAL	Fresh Acute	1400.	3	0	0.00	1	0	0.00	2	0	0.00						
	Drinking Water	100.	3	3	1.00	1	1	1.00	2	2	1.00						
01075 SILVER, DISSOLVED	Fresh Acute	4.1	4&	4	1.00	1	1	1.00	3	3	1.00						
	Drinking Water	50.	5	0	0.00	2	0	0.00	3	0	0.00						
01090 ZINC, DISSOLVED	Fresh Acute	120.	10	0	0.00	3	0	0.00	7	0	0.00						
31505 COLIFORM, TOTAL, MPN, CONF, TEST, 35C	Other-Hi Lim.	1000.	4	1	0.25	2	0	0.00	2	1	0.50						
31508 COLIFORM, TOTAL, MPN, COMP, TEST, TUBE C	Other-Hi Lim.	1000.	15	0	0.00	5	0	0.00	10	0	0.00						
31615 FECAL COLIFORM, MPN	Other-Hi Lim.	200.	3	1	0.33	1	0	0.00	2	1	0.50						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	5	0	0.00	2	0	0.00	3	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0074

NPS Station ID: GRSM0074 LAT/LON: 35.484726/ -83.504170 Agency: 112WRD Date Created: 01/05/78
Location: NOLAND CREEK NEAR BRYSON CITY, N. C.
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03513500
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010202 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010203002903.15 RF3 Mile Point: 3.41 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0074

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/06/56-04/13/62	8	31.5	43.25	141.	10.	1798.214	42.405	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)		11/06/56-04/13/62	8	4.	5.375	10.	0.	16.554	4.069	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		11/06/56-04/13/62	8	10.	10.375	12.	9.	0.839	0.916	**	**	**	**
00400 PH (STANDARD UNITS)		11/06/56-04/13/62	8	6.5	6.413	6.7	6.	0.061	0.247	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		11/06/56-04/13/62	8	6.5	6.347	6.7	6.	0.066	0.257	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/06/56-04/13/62	8	0.316	0.45	1.	0.2	0.078	0.279	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)		11/06/56-04/13/62	8	4.5	4.875	6.	4.	0.982	0.991	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		11/06/56-04/13/62	8	3.	3.125	4.	2.	0.696	0.835	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		11/06/56-04/13/62	8	0.	0.125	1.	0.	0.125	0.354	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)		11/06/56-04/13/62	8	0.8	0.875	1.4	0.6	0.076	0.276	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		11/06/56-04/13/62	8	0.15	0.225	0.6	0.1	0.034	0.183	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)		11/06/56-04/13/62	8	0.7	0.612	0.8	0.3	0.047	0.217	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)		11/06/56-04/13/62	8	0.25	0.275	0.5	0.1	0.016	0.128	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	11/06/56-04/13/62	8	0.45	0.525	1.	0.1	0.096	0.311	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		11/06/56-04/13/62	8	0.6	0.85	2.	0.	0.557	0.746	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)		11/06/56-04/13/62	8	0.	0.025	0.1	0.	0.002	0.046	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SIO2)		11/06/56-04/13/62	7	6.	5.771	6.6	4.3	0.682	0.826	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)		11/06/56-04/13/62	8	0.	2.5	20.	0.	50.	7.071	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		11/06/56-04/13/62	8	12.	13.125	24.	10.	20.982	4.581	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)		11/06/56-04/13/62	8	0.2	0.2	0.6	0.	0.031	0.177	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0074

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Other-Hi Lim.	9.	8	0	0.00	4	0	0.00	4	0	0.00						
	Other-Lo Lim.	6.5	8	5	0.63	4	1	0.25	4	4	1.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	4	0	0.00	4	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	8	0	0.00	4	0	0.00	4	0	0.00						
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	8	0	0.00	4	0	0.00	4	0	0.00						

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

Station Inventory for Station: GRSM0075

NPS Station ID: GRSM0075 LAT/LON: 35.490837/ -83.950282 Agency: 131TVAC Date Created: 08/06/88
Location: CALDERWOOD RESERVOIR FIPS State/County: 47123 TENNESSEE/MONROE
Station Type: /TYPA/AMBNT/FISH/STREAM STORET Station ID(s): 477096
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 046.00
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 46.0 ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 16.30 On/Off RF1:
RF3 Index: 06010204051303.30 RF3 Mile Point: 3.29 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0075

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00019 SAMPLE WEIGHT IN GRAMS	12/15/87-12/15/87	10	893.	830.6	1134.	340.	59903.822	244.753	362.7	651.75	1028.	1125.5
00039 SAMPLE LENGTH IN MILLIMETERS	12/15/87-12/15/87	10	432.	420.9	462.	338.	1424.767	37.746	343.3	393.25	453.25	461.5

** - 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 exists to compare against the data at this station. **********

Station Inventory for Station: GRSM0076

NPS Station ID: GRSM0076 LAT/LON: 35.491115/ -83.934170 Agency: 112WRD Date Created: / /
Location: PARSON BR NR CALDERWOOD TENN
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03517800
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010204020 RF1 Mile Point: 9.160 Distance from RF1: 16.70 On/Off RF1: OFF
RF3 Index: 06010201081900.00 RF3 Mile Point: 1.51 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0076

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY	CFS	09/25/68-09/25/68	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)		09/25/68-09/25/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		09/25/68-09/25/68	1	37.	37.	37.	37.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		09/25/68-09/25/68	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		09/25/68-09/25/68	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		09/25/68-09/25/68	1	0.631	0.631	0.631	0.631	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		09/25/68-09/25/68	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)		09/25/68-09/25/68	1	21.	21.	21.	21.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)		09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)		09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		09/25/68-09/25/68	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)		09/25/68-09/25/68	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		09/25/68-09/25/68	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)		09/25/68-09/25/68	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO		09/25/68-09/25/68	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932 SODIUM, PERCENT		09/25/68-09/25/68	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)		09/25/68-09/25/68	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	09/25/68-09/25/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		09/25/68-09/25/68	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)		09/25/68-09/25/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SIO2)		09/25/68-09/25/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)		09/25/68-09/25/68	1	30.	30.	30.	30.	0.	0.	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		09/25/68-09/25/68	1	38.	38.	38.	38.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)		09/25/68-09/25/68	1	30.	30.	30.	30.	0.	0.	**	**	**	**
70302 SOLIDS, DISSOLVED-TONS PER DAY		09/25/68-09/25/68	1	0.07	0.07	0.07	0.07	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT		09/25/68-09/25/68	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)		09/25/68-09/25/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0076

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0077

NPS Station ID: GRSM0077 LAT/LON: 35.492505/ -83.979448 Agency: 131TVAC Date Created: 10/06/79
Location: CALDERWOOD DAM RESERVOIR SIDE
FIPS State/County: 47123 TENNESSEE/MONROE
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 476233
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 043.61
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 43.61 ECO Region:
RF1 Index: 06010204020 RF1 Mile Point: 6.270 Distance from RF1: 15.50 On/Off RF1: OFF
RF3 Index: 06010204051400.00 RF3 Mile Point: 0.16 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0077

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/15/79-10/18/82	21	16.6	14.171	17.4	8.5	11.116	3.334	8.58	10.8	16.7	17.08
00080 COLOR (PLATINUM-COBALT UNITS)	10/18/82-10/18/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS	10/18/82-10/18/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	10/18/82-10/18/82	20	20.	20.5	25.	20.	2.368	1.539	20.	20.	20.	24.5
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/18/82-10/18/82	1	24.	24.	24.	24.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/15/79-10/18/82	21	6.2	6.143	9.9	3.6	1.734	1.317	4.36	5.65	6.45	7.98
00400 PH (STANDARD UNITS)	10/18/82-10/18/82	20	5.8	5.86	6.1	5.7	0.023	0.15	5.7	5.725	6.	6.1
00400 CONVERTED PH (STANDARD UNITS)	10/18/82-10/18/82	20	5.8	5.837	6.1	5.7	0.023	0.152	5.7	5.725	6.	6.1
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/18/82	20	1.585	1.455	1.995	0.794	0.2	0.447	0.794	1.	1.893	1.995
00403 PH, LAB, STANDARD UNITS SU	10/18/82-10/18/82	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	10/18/82-10/18/82	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/18/82-10/18/82	1	0.316	0.316	0.316	0.316	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	10/18/82-10/18/82	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00431 ALKALINITY TOATL FIELD, (MG/L AS CACO3)	10/18/82-10/18/82	1	6.	6.	6.	6.	0.	0.	**	**	**	**
00435 ACIDITY, TOTAL (MG/L AS CACO3)	10/18/82-10/18/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/15/79-08/15/79	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/15/79-08/15/79	1	0.13	0.13	0.13	0.13	0.	0.	**	**	**	**
00653 PHOSPHATE, TOTAL SOLUBLE (MG/L)	10/18/82-10/18/82	1##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/15/79-08/15/79	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/18/82-10/18/82	1	1.7	1.7	1.7	1.7	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/18/82-10/18/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/18/82-10/18/82	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/18/82-10/18/82	1	0.54	0.54	0.54	0.54	0.	0.	**	**	**	**
00946 SULFATE, DISSOLVED (MG/L AS SO4)	10/18/82-10/18/82	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/18/82-10/18/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	10/18/82-10/18/82	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023 ACIDS, STRONG	10/18/82-10/18/82	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024 ACIDS, WEAK	10/18/82-10/18/82	1	110.	110.	110.	110.	0.	0.	**	**	**	**
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	10/18/82-10/18/82	1	7.	7.	7.	7.	0.	0.	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	10/18/82-10/18/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
82295 CHLORIDE DISSOLVED AS CL IN WATER UG/L	10/18/82-10/18/82	1	900.	900.	900.	900.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0077

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	21	1	0.05	20	1	0.05	1	0	0.00						
00400 PH	Other-Hi Lim.	9.	20	0	0.00	20	0	0.00									
	Other-Lo Lim.	6.5	20	20	1.00	20	20	1.00									
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	1	0	0.00				1	0	0.00						
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82295 CHLORIDE DISSOLVED AS CL IN WATER	Fresh Acute	860000.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0078

NPS Station ID: GRSM0078 LAT/LON: 35.493892/ -83.988893 Agency: 131TVAC Date Created: / /
Location: CALDERWOOD POWERHOUSE PENSTOCK
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 475526 /3935
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 042.40
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 42.4 ECO Region:
RF1 Index: 06010204020 RF1 Mile Point: 4.830 Distance from RF1: 1.70 On/Off RF1: OFF
RF3 Index: 06010201003209.95 RF3 Mile Point: 10.33 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	1128	11.9	11.8	19.5	3.5	13.7	3.701	7.	8.9	15.	17.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	715	5818.	5754.901	16000.	0.	4419254.392	2102.202	2565.2	4488.	7708.	7903.
00070 TURBIDITY, (JACKSON CANDLE UNITS)		01/28/74-01/24/77	37	3.2	3.338	10.	0.5	2.509	1.584	1.7	2.3	4.	4.72
00080 COLOR (PLATINUM-COBALT UNITS)		01/28/74-01/24/77	37	6.	6.865	18.	1.	17.717	4.209	1.8	3.5	10.	12.6
00081 COLOR,APPARENT(UNFILTERED SAMPLE) PLAT-COB UNITS		01/28/74-01/24/77	37	12.	14.108	35.	1.	50.766	7.125	5.	10.	18.	25.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		01/28/74-01/24/77	37	21.	25.784	120.	19.	273.396	16.535	20.	20.	25.	31.4
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	1109	8.7	8.536	19.6	3.8	3.327	1.824	6.1	7.2	9.8	10.6
00310 BOD, 5 DAY, 20 DEG C	MG/L	03/18/76-11/10/76	3##	0.5	0.7	1.1	0.5	0.12	0.346	**	**	**	**
00335 COD, .025N K2CR207	MG/L	01/28/74-01/24/77	37	2.	2.932	12.	0.5	4.599	2.145	0.9	2.	4.	5.2
00400 PH (STANDARD UNITS)		01/28/74-01/24/77	37	6.4	6.324	7.4	5.2	0.135	0.367	5.94	6.1	6.5	6.6
00400 CONVERTED PH (STANDARD UNITS)		01/28/74-01/24/77	37	6.4	6.126	7.4	5.2	0.175	0.418	5.94	6.1	6.5	6.6
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		01/28/74-01/24/77	37	0.398	0.748	6.31	0.04	1.321	1.149	0.251	0.316	0.794	1.199
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		01/28/74-01/24/77	37	6.	5.892	9.	2.	3.544	1.882	4.	4.	8.	8.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)		01/28/74-01/24/77	37	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		01/28/74-01/24/77	37	1.	2.054	24.	0.5	15.039	3 878	0.5	0.5	2.5	3.2
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)		01/28/74-01/24/77	37	0.06	0.069	0.22	0.005	0.003	0.053	0.018	0.03	0.095	0.16
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		01/28/74-01/24/77	37	0.03	0.042	0.14	0.005	0.001	0.036	0.005	0.01	0.07	0.1
00630 NITRITE PLUS NITRATE, TOTAL 1 DET, (MG/L AS N)		01/28/74-01/24/77	37	0.22	0.281	0.76	0.11	0.023	0.151	0.13	0.16	0.39	0.45
00665 PHOSPHORUS, TOTAL (MG/L AS P)		01/28/74-01/24/77	37	0.01	0.014	0.04	0.005	0.	0.01	0.005	0.008	0.02	0.03
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)		04/19/76-05/17/76	2##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)		01/28/74-01/24/77	37	2.	2.176	16.	0.5	5.961	2.442	0.9	1.	2.	3.
00927 MAGNESIUM, TOTAL (MG/L AS MG)		01/28/74-01/24/77	37	0.6	0.759	3.7	0.3	0.337	0.58	0.5	0.55	0.75	1.
00929 SODIUM, TOTAL (MG/L AS NA)		01/28/74-01/24/77	37	1.3	1.4	3.	0.8	0.253	0.503	1.	1.1	1.5	2.34
00937 POTASSIUM, TOTAL MG/L AS K)		01/28/74-01/24/77	37	0.6	0.611	1.	0.2	0.02	0.141	0.5	0.5	0.7	0.8
00940 CHLORIDE,TOTAL IN WATER	MG/L	01/28/74-01/24/77	37	2.	2.432	6.	1.	0.863	0.929	2.	2.	3.	4.
00945 SULFATE, TOTAL (MG/L AS SO4)		01/28/74-01/24/77	37	2.	1.716	4.	0.5	0.688	0.829	0.5	1.	2.	3.
00951 FLUORIDE, TOTAL (MG/L AS F)		01/28/74-01/24/77	36##	0.05	0.051	0.3	0.01	0.002	0.044	0.02	0.043	0.05	0.05
00955 SILICA, DISSOLVED (MG/L AS SI02)		03/17/75-01/24/77	23	6.4	6.265	6.9	4.1	0.362	0.602	5.64	6.1	6.7	6.8
00956 SILICA, TOTAL (MG/L AS SI02)		01/28/74-02/17/75	14	6.5	6.636	8.1	5.9	0.281	0.53	6.05	6.3	6.85	7.6
01045 IRON, TOTAL (UG/L AS FE)		01/28/74-01/24/77	37	200.	263.649	940.	25.	42378.679	205.861	98.	150.	310.	514.
01055 MANGANESE, TOTAL (UG/L AS MN)		01/28/74-01/24/77	37	30.	48.649	180.	5.	1699.512	41.225	10.	20.	80.	112.
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		03/18/76-05/17/78	5##	5.	6.	10.	5.	5.	2.236	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		03/18/76-05/17/78	5##	0.699	0.759	1.	0.699	0.018	0.135	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C				GEOMETRIC MEAN =	5.743								
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)		01/28/74-01/24/77	37	7.	8.392	55.	2.	68.238	8.261	4.5	5.	8.5	11.
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		01/28/74-01/24/77	37	20.	25.189	130.	5.	467.158	21.614	10.	16.	30.	42.

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

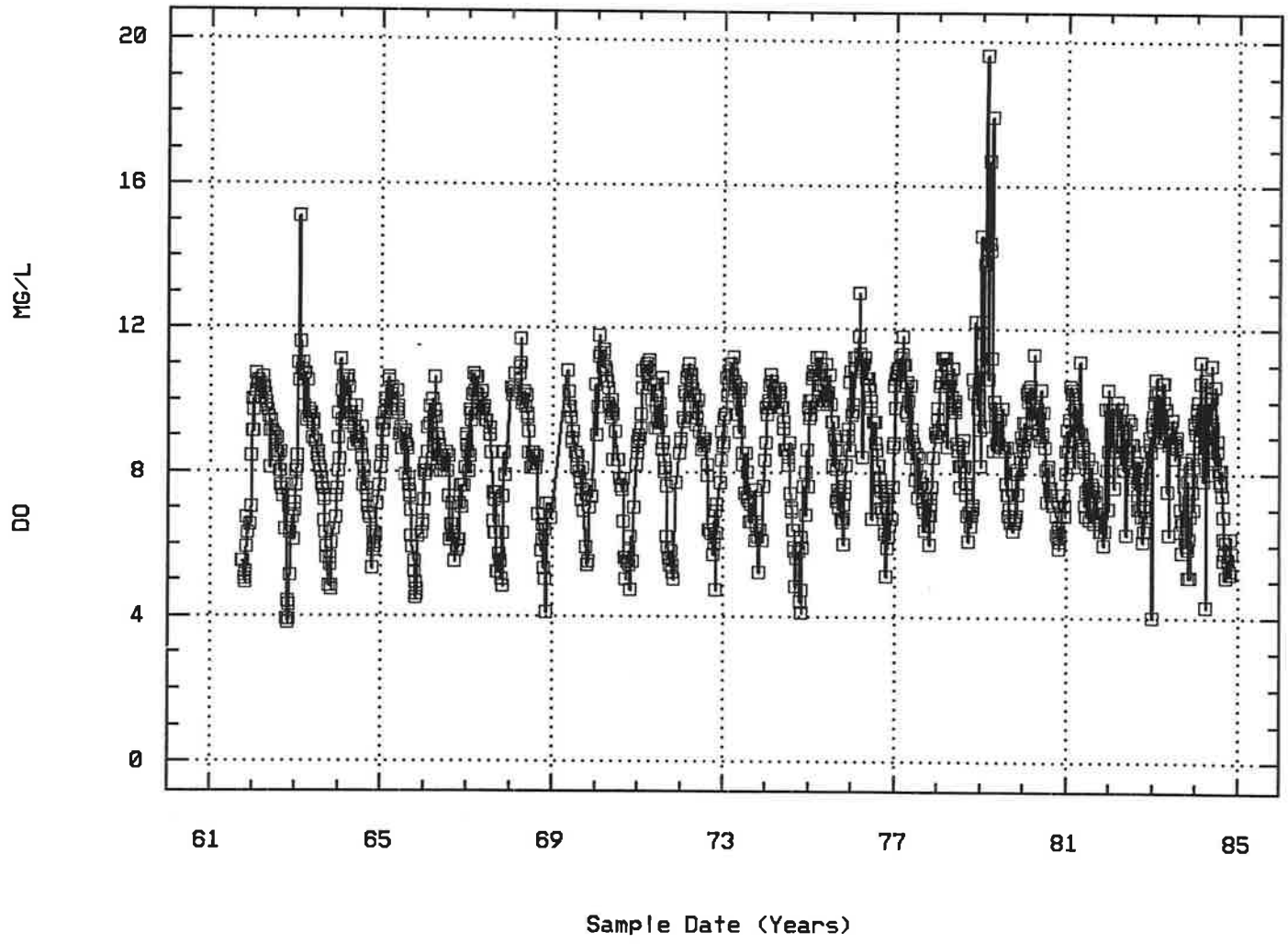
EPA Water Quality Criteria Analysis for Station: GRSM0078

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	37	0	0.00	19	0	0.00	18	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	1109	4	0.00	553	4	0.01	556	0	0.00						
00400 PH	Other-Hi Lim.	9.	37	0	0.00	19	0	0.00	18	0	0.00						
	Other-Lo Lim.	6.5	37	32	0.86	19	16	0.84	18	16	0.89						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	37	0	0.00	19	0	0.00	18	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	37	0	0.00	19	0	0.00	18	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	37	0	0.00	19	0	0.00	18	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	5	0	0.00	3	0	0.00	2	0	0.00						

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

Station: GRSM0078 Parameter Code: 00300

OXYGEN, DISSOLVED



CALDERWOOD POWERHOUSE PENSTOCK

Annual Analysis for 1946 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	1	3040.	3040.	3040.	3040.	0.	0.	**	**	**	**

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	13	16.	15.362	18.	10.	6.648	2.578	10.8	13.1	17.6	17.92
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	13	5.9	6.238	9.1	4.9	1.719	1.311	4.94	5.15	6.85	8.82

** - 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 1962 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	51	12.5	11.978	18.2	6.8	11.626	3.41	7.26	9.	14.9	16.8
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	50	8.85	8.332	10.7	3.8	3.937	1.984	4.47	7.25	10.	10.4

** - 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 1963 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	52	11.75	11.665	19.	5.	17.819	4.221	5.5	8.	15.	17.85
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	51	8.4	8.414	15.1	4.7	4.209	2.052	5.6	7.2	9.6	10.78

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	48	11.5	10.879	16.	5.	13.473	3.671	5.95	7.	14.5	15.5
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	47	8.7	8.432	11.1	5.3	2.283	1.511	6.	7.3	9.6	10.34

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

Annual Analysis for 1965 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	48	11.5	11.74	17.5	6.	11.628	3.41	6.5	9.625	14.5	17.
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	48	8.75	8.202	10.6	4.5	3.137	1.771	5.17	6.675	9.675	10.11

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

Annual Analysis for 1966 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	49	11.5	11.755	18.	5.	12.97	3.601	7.	8.5	14.5	17.
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	49	8.1	7.906	10.6	5.5	1.534	1.239	6.1	7.05	8.7	9.5

** - 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 1967 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	43	12.	11.967	18.	6.5	12.561	3.544	7.2	8.8	15.	17.
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	43	9.	8.284	10.7	4.8	3.34	1.828	5.2	6.6	9.7	10.2

** - 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 1968 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	38	11.	11.332	17.	5.5	10.683	3.269	6.98	9.375	13.25	16.73
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	2	3937.	3937.	6300.	1574.	11167538.	3341.787	**	**	**	**
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	36	8.5	8.547	11.7	4.1	3.757	1.938	5.65	6.875	10.175	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 1969 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	27	12.	12.852	18.	9.	9.227	3.038	9.	10.	16.	17.2
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	27	8.1	8.233	10.8	5.4	2.044	1.43	5.82	7.3	9.5	10.24

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

Annual Analysis for 1970 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	45	12.	12.429	19.5	6.	19.071	4.367	6.5	8.	15.35	19.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	11	4600.	4402.091	6327.	2520.	1337999.091	1156.719	2574.4	3698.	5012.	6212.4
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	45	9.	8.593	11.8	4.7	4.349	2.085	5.5	6.8	10.45	11.24

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

Annual Analysis for 1971 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	42	11.4	11.683	18.3	6.5	10.944	3.308	7.	9.225	13.8	16.9
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	37	5339.	5775.432	8081.	1896.	3361984.363	1833.571	3403.2	4588.5	7745.	7915.8
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	42	9.1	8.66	11.1	5.	3.587	1.894	5.4	7.675	10.325	10.8

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

Annual Analysis for 1972 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	46	11.9	12.124	17.2	7.2	9.386	3.064	7.8	9.35	14.55	16.7
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	46	6368.5	5801.565	8015.	0.	4729786.607	2174.807	2367.8	4999.25	7665.	7903.
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	46	8.9	8.615	11.	4.7	2.822	1.68	6.27	6.9	10.1	10.63

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	44	11.25	12.132	18.1	6.7	13.397	3.66	7.2	8.9	15.6	17.2
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	44	7563.5	6529.636	10320.	280.	3672786.144	1916.451	4511.5	5086.25	7773.	8081.
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	43	8.8	8.66	11.2	5.2	2.835	1.684	6.28	7.2	10.3	10.7

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

Annual Analysis for 1974 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	57	12.5	12.867	18.3	7.2	10.556	3.249	9.14	10.	15.7	17.8
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	56	6573.	6360.429	10610.	2836.	2238028.795	1496.004	4411.2	5115.5	7708.	7839.
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	49	8.6	8.229	10.7	4.1	3.842	1.96	5.6	6.4	10.05	10.3

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

Annual Analysis for 1975 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	56	12.2	12.521	19.2	7.2	13.806	3.716	8.1	8.9	15.6	18.3
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	55	6337.	6204.509	8017.	3258.	1956431.032	1398.725	4306.	5060.	7611.	7840.
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	53	9.8	9.272	11.2	6.	2.074	1.44	7.04	8.15	10.45	10.8

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

Annual Analysis for 1976 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	55	11.9	11.916	18.3	6.1	15.057	3.88	6.96	8.	15.6	17.4
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	52	5596.5	5514.288	8269.	770.	5873875.699	2423.608	1464.4	3903.	7722.75	8012.3
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	54	9.1	8.933	13.	5.1	3.818	1.954	6.35	7.225	10.8	11.2

** - 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 1977 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	53	12.	11.226	19.	3.5	21.563	4.644	4.2	7.5	15.	17.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	50	5905.	5924.58	8193.	1470.	3180530.82	1783.404	3658.	4700.25	7675.75	7860.6
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	53	8.8	8.855	11.8	6.	2.563	1.601	6.8	7.3	10.4	11.

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

Annual Analysis for 1978 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	52	10.75	10.74	16.5	4.	16.622	4.077	4.65	8.	15.	16.35
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	52	5081.	5010.077	8195.	700.	4796348.543	2190.057	1820.	3313.25	7516.25	7936.3
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	52	9.7	9.202	12.2	6.1	2.338	1.529	6.9	8.2	10.5	11.

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

Annual Analysis for 1979 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	55	11.	11.345	17.5	5.	14.341	3.787	6.	8.	14.5	16.5
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	55	7546.	6607.618	8373.	1890.	2965741.907	1722.133	3607.8	5256.	7863.	8015.8
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	55	8.8	9.691	19.6	6.4	8.956	2.993	6.66	7.7	10.6	14.28

** - Less than 9 observations ## - Computed with 50% or 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 GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	52	11.5	11.588	17.5	6.	14.266	3.777	6.5	8.125	15.5	17.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	52	5344.	5430.404	10790.	560.	6907820.442	2628.273	1354.	3411.	7635.25	8148.8
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	52	8.9	8.448	11.3	5.9	2.023	1.422	6.33	7.125	9.7	10.17

** - 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 1981 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	52	12.	11.606	17.	5.5	11.709	3.422	6.5	8.625	14.	16.
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	52	4299.	4380.019	8081.	280.	3678940.294	1918.056	1975.3	2731.75	5926.	7256.9
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	52	8.2	8.194	11.1	6.	1.718	1.311	6.6	6.925	9.2	10.11

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

Annual Analysis for 1982 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	54	12.	11.476	16.5	5.	12.35	3.514	6.5	8.	15.	15.75
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	54	5101.	5702.944	16000.	1620.	6970762.431	2640.22	2342.	3920.	7725.	8135.5
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	53	8.6	8.302	10.	4.	1.391	1.18	6.8	7.6	9.3	9.8

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

Annual Analysis for 1983 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	50	11.25	11.852	17.	7.	10.546	3.247	8.	9.	14.75	16.5
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	50	6191.	5845.7	8293.	1255.	3759901.235	1939.046	2459.	4839.75	7559.5	7886.7
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	50	8.9	8.358	10.6	5.1	2.352	1.534	6.02	6.95	9.425	10.18

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

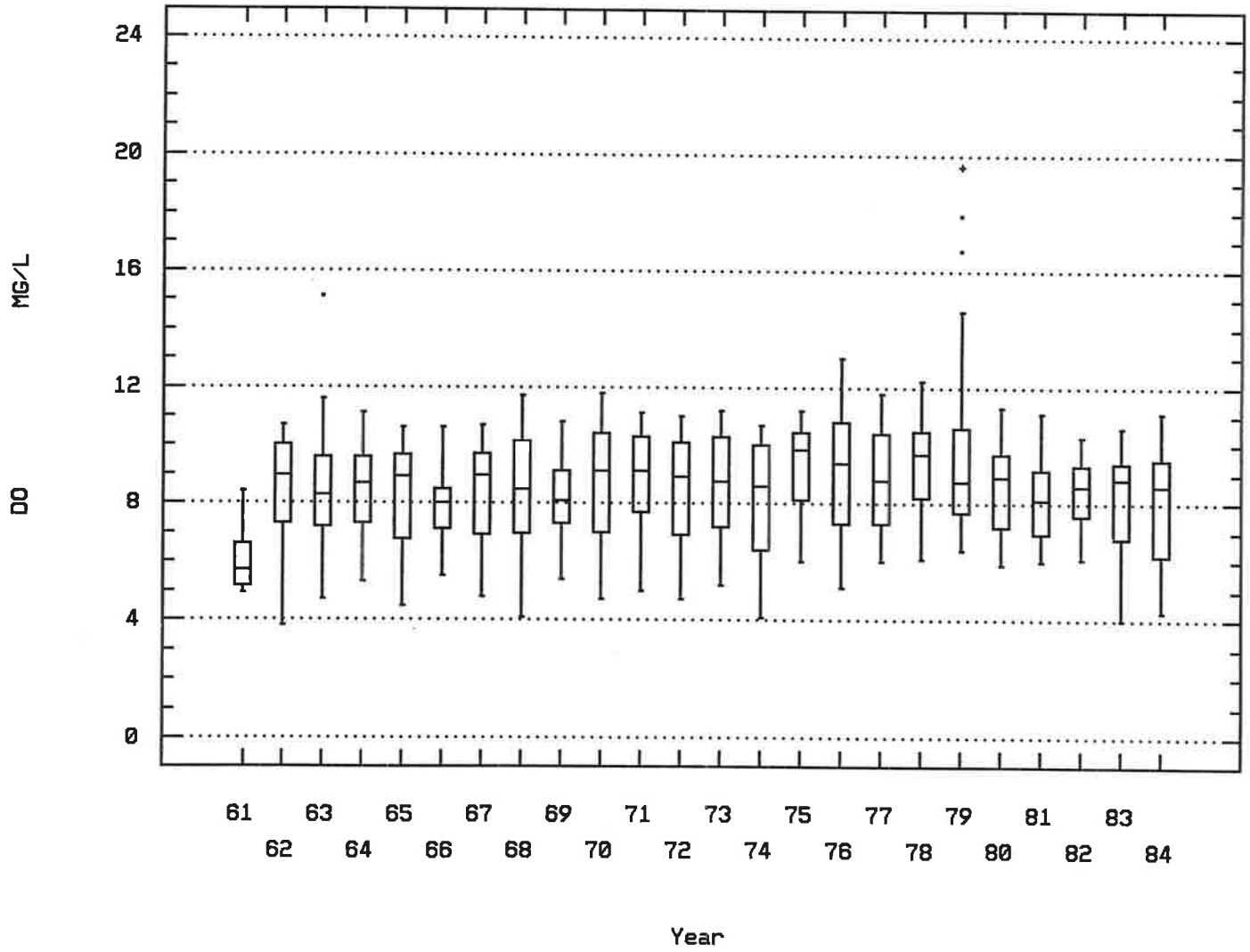
Annual Analysis for 1984 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	46	10.25	11.117	18.5	6.	16.145	4.018	6.5	7.	14.125	17.65
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	46	6127.	5930.804	8585.	490.	4114263.361	2028.365	2654.5	4926.	7725.	8081.
00300p OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	46	8.6	8.174	11.1	4.3	3.4	1.844	5.27	6.2	9.55	10.43

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

Station: GRSM0078 Parameter Code: 00300

OXYGEN, DISSOLVED



CALDERWOOD POWERHOUSE PENSTOCK

Seasonal Analysis for Season #1: 10/01 to 3/31 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	563	10.	11.076	19.5	3.5	19.385	4.403	6.	7.	15.8	17.2
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	368	6750.	6319.734	16000.	1255.	3549754.763	1884.079	3844.3	5110.	7725.	7980.
00300 OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	553	8.8	8.483	19.6	3.8	4.624	2.15	5.6	6.7	10.2	10.8

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

Seasonal Analysis for Season #2: 4/01 to 9/30 - Station GRSM0078

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		10/02/61-11/05/84	565	12.2	12.521	19.	7.	7.016	2.649	9.	10.55	14.5	16.44
00061 FLOW, STREAM, INSTANTANEOUS	CFS	08/02/46-11/05/84	347	5060.	5155.885	10300.	0.	4655120.484	2157.573	2135.2	3684.	7210.	7828.
00300 OXYGEN, DISSOLVED	MG/L	10/02/61-11/05/84	556	8.7	8.589	17.9	4.3	2.037	1.427	6.67	7.6	9.6	10.3

** - 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

Station Inventory for Station: GRSM0079

NPS Station ID: GRSM0079 LAT/LON: 35.494171/ -83.988893 Agency: 112WRD Date Created: 12/11/78
Location: LITTLE TENNESSEE RIVER AT CALDERWOOD POWERHOUSE
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03517950
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010204020 RF1 Mile Point: 4.830 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010201073000.00 RF3 Mile Point: 1.24 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0079

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		11/10/77-05/17/78	2	13.	13.	16.5	9.5	24.5	4.95	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/10/77-11/10/77	1	4850.	4850.	4850.	4850.	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		11/10/77-05/17/78	2	10.	10.	10.	10.	0.	0.	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		11/10/77-05/17/78	2	1.	1.	1.	1.	0.	0.	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C				GEOMETRIC MEAN =	10.								

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

EPA Water Quality Criteria Analysis for Station: GRSM0079

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	2	0	0.00	1	0	0.00	1	0	0.00						

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

Station Inventory for Station: GRSM0080

NPS Station ID: GRSM0080 LAT/LON: 35.495837/ -83.966670 Agency: 12ELS1 Date Created: 04/16/88
Location: CALDERWOOD LAKE FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 3A1-002
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 147 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010204017900.00 RF3 Mile Point: 0.00 Distance from RF3: 0.05 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0080

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/20/84-11/20/84	1	15.1	15.1	15.1	15.1	0.	0.	**	**	**	**
00078 TRANSPARENCY, SECCHI DISC (METERS)	11/20/84-11/20/84	1	3.25	3.25	3.25	3.25	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	11/20/84-11/20/84	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/20/84-11/20/84	1	23.	23.	23.	23.	0.	0.	**	**	**	**
00154 SULFATE (AS S) WHOLE WATER, MG/L	11/20/84-11/20/84	1	1.64	1.64	1.64	1.64	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	11/20/84-11/20/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	11/20/84-11/20/84	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/20/84-11/20/84	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00409 ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	11/20/84-11/20/84	1	148.2	148.2	148.2	148.2	0.	0.	**	**	**	**
00662 PHOSPHORUS (P), WATER, TOTAL RECOVERABLE UG/L	11/20/84-11/20/84	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00681 CARBON, DISSOLVED ORGANIC (MG/L AS C)	11/20/84-11/20/84	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00691 CARBON, DISSOLVED INORGANIC (MG/L AS C)	11/20/84-11/20/84	1	2.7	2.7	2.7	2.7	0.	0.	**	**	**	**
00910 CALCIUM (MG/L AS CACO3)	11/20/84-11/20/84	1	1.6	1.6	1.6	1.6	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	11/20/84-11/20/84	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	11/20/84-11/20/84	1	1.42	1.42	1.42	1.42	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	11/20/84-11/20/84	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00941 CHLORIDE, DISSOLVED IN WATER MG/L	11/20/84-11/20/84	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	11/20/84-11/20/84	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	11/20/84-11/20/84	1	7.5	7.5	7.5	7.5	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	11/20/84-11/20/84	1	113.	113.	113.	113.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	11/20/84-11/20/84	1	38.	38.	38.	38.	0.	0.	**	**	**	**
70151 SURFACE AREA OF LAKE OR RESERVOIR SQ KM	11/20/84-11/20/84	1	2.31	2.31	2.31	2.31	0.	0.	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	11/20/84-11/20/84	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71885 IRON (UG/L AS FE)	11/20/84-11/20/84	1	0.	0.	0.	0.	0.	0.	**	**	**	**
72020 ELEVATION IN FEET ABOVE MEAN SEA LEVEL	11/20/84-11/20/84	1	1086.02	1086.02	1086.02	1086.02	0.	0.	**	**	**	**
82047 DEPTH TO THE TOP OF THE SAMPLING INTERVAL (METERS)	11/20/84-11/20/84	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	11/20/84-11/20/84	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0080

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00154 SULFATE (AS S) WHOLE WATER	Drinking Water	400.	1	0	0.00	1	0	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: GRSM0080

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00409 ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00	1	1	1.00									
00941 CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0081

NPS Station ID: GRSM0081 LAT/LON: 35.498059/ -83.763338 Agency: 12NSS Date Created: 10/22/88
Location: EAGLE CREEK FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 2A07816L /2AS2A07816L
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 579 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010202 RF1 Mile Point: 0.000 Distance from RF1: 0.50 On/Off RF1:
RF3 Index: 06010203000100.40 RF3 Mile Point: 0.40 Distance from RF3: 0.01 On/Off RF3:
Description:

THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0081

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/25/85-07/08/85	4	10.55	11.275	18.	6.	33.103	5.753	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	03/25/85-07/08/85	4	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	03/25/85-07/08/85	4	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/25/85-07/08/85	4	10.5	10.5	11.	10.	0.333	0.577	**	**	**	**
00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	03/25/85-07/08/85	4	10.	9.875	11.1	8.4	1.776	1.333	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/25/85-07/08/85	4	6.6	6.6	6.8	6.4	0.033	0.183	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/25/85-07/08/85	4	6.589	6.572	6.8	6.4	0.034	0.185	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/25/85-07/08/85	4	0.258	0.268	0.398	0.158	0.012	0.109	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/25/85-07/08/85	4	62.6	61.7	73.2	48.4	111.293	10.55	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/25/85-07/08/85	4	2.5	2.5	3.	2.	0.333	0.577	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/85-07/08/85	4	0.009	0.01	0.015	0.006	0.	0.004	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/85-07/08/85	4	0.65	0.75	1.2	0.5	0.097	0.311	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/25/85-07/08/85	4	0.8	0.775	0.8	0.7	0.003	0.05	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/25/85-07/08/85	4	0.7	0.725	0.8	0.7	0.003	0.05	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/25/85-07/08/85	4	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/25/85-07/08/85	4	0.805	0.815	0.88	0.77	0.003	0.051	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/25/85-07/08/85	4	0.42	0.41	0.43	0.37	0.001	0.027	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/25/85-07/08/85	4	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/25/85-07/08/85	4	0.9	0.95	1.2	0.8	0.03	0.173	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/85-07/08/85	4	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/85-07/08/85	4	6.05	5.925	6.5	5.1	0.349	0.591	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/25/85-07/08/85	4	0.5	1.	3.	0.	2.	1.414	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/85-07/08/85	4	43.5	46.75	71.	29.	312.25	17.671	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/25/85-07/08/85	4	0.5	0.45	0.5	0.3	0.01	0.1	**	**	**	**
71885	IRON (UG/L AS FE)	03/25/85-07/08/85	4	2.5	3.248	6.99	1.	6.892	2.625	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/25/85-07/08/85	4	1900.	1900.	1900.	1900.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/25/85-07/08/85	4	0.4	0.425	0.7	0.2	0.042	0.206	**	**	**	**
83509	STREAM, WIDTH METER	03/25/85-07/08/85	4	11.	11.	11.	11.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0081

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299	OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00403	PH, LAB	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	3	0	0.00						
		Other-Lo Lim.	6.5	4	2	0.50	1	1	1.00	3	1	0.33						
00409	ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	4	4	1.00	1	1	1.00	3	3	1.00						
00941	CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	3	0	0.00						
00946	SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	4	0	0.00	1	0	0.00	3	0	0.00						
71851	NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00	3	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	4	0	0.00	1	0	0.00	3	0	0.00						

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

Station Inventory for Station: GRSM0082

NPS Station ID: GRSM0082 LAT/LON: 35.502227/ -83.994448 Agency: 131TVAC Date Created: 12/13/86
Location: CHILHOWEE RESERVOIR FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): 476970
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 041.90
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 41.9 ECO Region:
RF1 Index: 06010204020 RF1 Mile Point: 4.290 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010201002500.00 RF3 Mile Point: 0.00 Distance from RF3: 0.05 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0082

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39491 PCB - 1221 BOT. DEP..PCB SERIES DRY SOL UG/KG	10/06/86-10/06/86	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39495 PCB - 1232 BOT. DEP..PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39499 PCB - 1242 BOT. DEP..PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39503 PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39507 PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39511 PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39514 PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/06/86-10/06/86	1##	50.	50.	50.	50.	0.	0.	**	**	**	**
39519 PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/06/86-10/06/86	1##	50.	50.	50.	50.	0.	0.	**	**	**	**

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

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

Station Inventory for Station: GRSM0083

NPS Station ID: GRSM0083 LAT/LON: 35.504170/ -84.001392 Agency: 131TVAC Date Created: 06/27/87
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/FISH/STREAM
STORET Station ID(s): 477021
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 041.50
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 41.5 ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010201097200.65 RF3 Mile Point: 2.25 Distance from RF3: 0.38 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0083

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00019 SAMPLE WEIGHT IN GRAMS		02/25/87-02/25/87	5	3810.	3900.	4980.	2910.	577850.	760.164	**	**	**	**
00039 SAMPLE LENGTH IN MILLIMETERS		02/25/87-02/25/87	5	640.	641.	684.	590.	1159.	34.044	**	**	**	**
34664 PCB - 1221	WET WGTTISMG/KG	02/25/87-02/25/87	5##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34667 PCB - 1232	WET WGTTISMG/KG	02/25/87-02/25/87	5##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34669 PCB - 1248	WET WGTTISMG/KG	02/25/87-02/25/87	5##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34670 PCB - 1260	WET WGTTISMG/KG	02/25/87-02/25/87	5	0.5	0.72	1.4	0.2	0.297	0.545	**	**	**	**
34674 PCB - 1016	WET WGTTISMG/KG	02/25/87-02/25/87	5##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34689 PCB - 1242	WET WGTTISMG/KG	02/25/87-02/25/87	5##	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
34690 PCB - 1254	WET WGTTISMG/KG	02/25/87-02/25/87	5	0.4	0.55	1.4	0.05	0.265	0.515	**	**	**	**
39515 PCBS (MG/KG)	FISH TISSUE MG/KG	02/25/87-02/25/87	5	0.9	1.26	2.8	0.2	1.088	1.043	**	**	**	**
45579 PERCENT LIPID EXTRACTABLE MATERIAL		02/25/87-02/25/87	5	10.	9.2	14.	2.	23.7	4.868	**	**	**	**

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

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

Station Inventory for Station: GRSM0084

NPS Station ID: GRSM0084 LAT/LON: 35.506115/ -83.300560 Agency: 131TVAC Date Created: / /
Location:
Station Type: /TYPA/AMBNT/STREAM
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
STORET Station ID(s): 360146 /4061
RMI-Indexes: 1021500 007720 00920 8540 4030 0730
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 009.79
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: OCANALUFTEE RIVER 9.79 ECO Region:
RF1 Index: 06010203031 RF1 Mile Point: 3.420 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203002903.15 RF3 Mile Point: 3.41 Distance from RF3: 0.07 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0084

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/68-03/24/69	8	11.3	10.525	17.5	1.7	22.871	4.782	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	04/30/68-03/24/69	8	1.	1.5	4.	0.5	1.643	1.282	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	04/30/68-03/24/69	8	7.5	9.063	20.	2.5	48.103	6.936	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/68-03/24/69	8	18.	18.	22.	14.	8.286	2.878	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	04/30/68-03/24/69	8	9.9	9.35	11.1	4.7	4.023	2.006	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	04/30/68-03/24/69	8##	0.5	0.888	2.6	0.5	0.53	0.728	**	**	**	**
00400 PH (STANDARD UNITS)	04/30/68-03/24/69	7	6.8	6.986	7.7	6.5	0.255	0.505	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	04/30/68-03/24/69	7	6.8	6.787	7.7	6.5	0.301	0.549	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/30/68-03/24/69	7	0.158	0.163	0.316	0.02	0.018	0.132	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/68-03/24/69	7	4.	4.429	7.	3.	1.952	1.397	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/30/68-03/24/69	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	04/30/68-03/24/69	7	30.	25.714	40.	10.	95.238	9.759	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/30/68-03/24/69	7	20.	22.857	30.	10.	57.143	7.559	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/30/68-03/24/69	8	0.155	0.136	0.27	0.005	0.008	0.092	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/68-03/24/69	8	0.02	0.025	0.08	0.005	0.001	0.024	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	8##	0.005	0.009	0.03	0.005	0.	0.009	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	8	0.16	0.173	0.32	0.05	0.007	0.082	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/21/68-03/24/69	7	0.007	0.012	0.036	0.002	0.	0.013	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	05/21/68-03/24/69	6	0.007	0.007	0.016	0.002	0.	0.006	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	04/30/68-03/24/69	8	0.75	0.719	1.	0.25	0.097	0.312	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	04/30/68-03/24/69	8##	0.25	0.281	0.5	0.25	0.008	0.088	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)	04/30/68-03/24/69	7	0.5	1.179	3.	0.05	1.503	1.226	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	04/30/68-03/24/69	7	1.1	1.614	3.	0.5	1.078	1.038	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	04/30/68-03/24/69	8	2.	1.813	3.	0.5	0.567	0.753	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	04/30/68-03/24/69	8	2.	2.813	10.	0.5	8.996	2.999	**	**	**	**
00951 FLUORIDE, TOTAL (MG/L AS F)	04/30/68-03/24/69	8	0.04	0.043	0.08	0.005	0.001	0.024	**	**	**	**
00956 SILICA, TOTAL (MG/L AS SI02)	04/30/68-03/24/69	8	4.9	4.55	7.3	0.5	4.369	2.09	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	04/30/68-03/24/69	8	170.	198.125	390.	25.	17656.696	132.879	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	04/30/68-03/24/69	7##	25.	39.286	100.	25.	803.571	28.347	**	**	**	**
01047 IRON, FERROUS (UG/L AS FE)	04/30/68-03/24/69	8##	25.	25.	25.	25.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	04/30/68-03/24/69	8	20.	22.5	50.	10.	221.429	14.88	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	04/30/68-03/24/69	8	10.	13.125	40.	5.	120.982	10.999	**	**	**	**
31501 COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	04/30/68-03/24/69	8	265.	303.125	800.	5.	53220.982	230.697	**	**	**	**
31501 LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,	04/30/68-03/24/69	8	2.419	2.263	2.903	0.699	0.439	0.663	**	**	**	**
31501 GM COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,3		GEOMETRIC MEAN =		183.064								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	8	10.	58.75	250.	5.	8376.786	91.525	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	8	1.	1.306	2.398	0.699	0.428	0.654	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		20.237								

** - Less than 9 observations ## - 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: GRSM0084

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/02/68-12/02/68	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: GRSM0084

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	8	0	0.00	4	0	0.00	4	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	8	0	0.00	4	0	0.00	4	0	0.00						
00400 PH	Other-Hi Lim.	9.	7	0	0.00	3	0	0.00	4	0	0.00						
	Other-Lo Lim.	6.5	7	2	0.29	3	2	0.67	4	0	0.00						
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	8	0	0.00	4	0	0.00	4	0	0.00						
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	8	0	0.00	4	0	0.00	4	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	4	0	0.00	4	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	8	0	0.00	4	0	0.00	4	0	0.00						
31501 COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	8	0	0.00	4	0	0.00	4	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	1	0.13	4	0	0.00	4	1	0.25						

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

Station Inventory for Station: GRSM0085

NPS Station ID: GRSM0085 LAT/LON: 35.512504/ -83.297226 Agency: 21NC01WQ Date Created: 05/16/77
Location: STRAIGHT FORK CK @ SR1368 @RAVENSFORD IN-750224 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G8150000 /LTN027D
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010203032 RF1 Mile Point: 0.290 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203003205.40 RF3 Mile Point: 5.42 Distance from RF3: 0.09 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0085

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	10	16.5	13.65	19.	5.	31.892	5.647	5.3	8.	18.625	19.
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	3	1.5	1.667	2.	1.5	0.083	0.289	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/24/75	6	25.5	25.5	30.	21.	16.3	4.037	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/13/74-02/24/75	10	9.15	10.05	13.6	8.9	2.407	1.552	8.9	9.05	11.	13.4
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-02/24/75	8	95.5	94.875	106.	86.	33.268	5.768	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-02/24/75	9	0.8	0.789	1.5	0.1	0.221	0.47	0.1	0.35	1.2	1.5
00340 COD, .25N K2CR2O7 MG/L	01/29/75-01/29/75	1##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	08/13/74-02/24/75	10	6.45	6.56	7.5	6.	0.174	0.417	6.03	6.3	6.8	7.43
00400 CONVERTED PH (STANDARD UNITS)	08/13/74-02/24/75	10	6.447	6.424	7.5	6.	0.194	0.441	6.03	6.3	6.8	7.43
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-02/24/75	10	0.357	0.377	1.	0.032	0.076	0.276	0.044	0.158	0.501	0.95
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	10	5.	4.7	6.	2.	1.789	1.337	2.1	3.75	6.	6.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/29/75	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	8	27.	39.	98.	18.	771.714	27.78	**	**	**	**
00505 RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	8	17.5	17.75	35.	3.	109.071	10.444	**	**	**	**
00510 RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	8	13.5	21.25	71.	3.	547.643	23.402	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	8	5.	11.25	63.	1.	441.357	21.009	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	8	2.5	2.625	6.	0.	3.982	1.996	**	**	**	**
00540 RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	7	1.	9.571	59.	0.	477.952	21.862	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	3##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	4	0.15	0.138	0.2	0.05	0.006	0.075	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	4	0.375	0.37	0.47	0.26	0.009	0.097	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	01/29/75-02/24/75	2##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	4##	0.025	0.059	0.16	0.025	0.005	0.068	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	01/29/75-01/29/75	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	9	30.	48.889	170.	10.	2386.111	48.848	10.	20.	60.	170.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	9	1.477	1.548	2.23	1.	0.127	0.356	1.	1.301	1.772	2.23
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	35.326								
70305 SALINITY BASED ON CONDUCTIVITY	08/18/74-08/19/74	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0085

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00	1	0	0.00	2	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	10	0	0.00	4	0	0.00	6	0	0.00						
00400 PH	Other-Hi Lim.	9.	10	0	0.00	4	0	0.00	6	0	0.00						
	Other-Lo Lim.	6.5	10	6	0.60	4	4	1.00	6	2	0.33						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	3	0	0.00	1	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	0	0.00	3	0	0.00	6	0	0.00						

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

Station Inventory for Station: GRSM0086

NPS Station ID: GRSM0086 LAT/LON: 35.513059/ -83.557504 Agency: 12NSS Date Created: 10/22/88
Location: FORNEY CREEK FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 2A07817L /2AS2A07817L
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 3 Aquifer:
Major Basin: Elevation: 731 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 3.20 On/Off RF1:
RF3 Index: 06010202009200.00 RF3 Mile Point: 0.00 Distance from RF3: 0.18 On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0086

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		03/20/85-07/03/85	4	9.55	9.325	12.2	6.	10.476	3.237	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)		03/20/85-07/03/85	4	2.	2.	2.	2.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)		03/20/85-07/03/85	4	10.	8.75	10.	5.	6.25	2.5	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		03/20/85-07/03/85	4	12.	11.5	12.	10.	1.	1.	**	**	**	**
00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	03/20/85-07/03/85	4	10.4	10.5	12.2	9.	2.387	1.545	**	**	**	**
00403	PH, LAB, STANDARD UNITS	SU	03/20/85-07/03/85	4	6.5	6.5	6.6	6.4	0.007	0.082	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS		03/20/85-07/03/85	4	6.5	6.494	6.6	6.4	0.007	0.082	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		03/20/85-07/03/85	4	0.316	0.32	0.398	0.251	0.004	0.06	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	03/20/85-07/03/85	4	33.4	34.1	40.9	28.7	31.46	5.609	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)		03/20/85-07/03/85	4	2.	1.75	2.	1.	0.25	0.5	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)		03/20/85-07/03/85	4	0.007	0.008	0.014	0.003	0.	0.005	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)		03/20/85-07/03/85	4	0.6	0.6	0.8	0.4	0.027	0.163	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)		03/20/85-07/03/85	4	0.5	0.5	0.6	0.4	0.013	0.115	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)		03/20/85-07/03/85	4	0.85	0.825	0.9	0.7	0.009	0.096	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		03/20/85-07/03/85	4	0.2	0.225	0.3	0.2	0.002	0.05	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)		03/20/85-07/03/85	4	0.675	0.678	0.71	0.65	0.001	0.028	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)		03/20/85-07/03/85	4	0.355	0.355	0.39	0.32	0.001	0.029	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER	MG/L	03/20/85-07/03/85	4	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)		03/20/85-07/03/85	4	1.25	1.275	1.7	0.9	0.109	0.33	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)		03/20/85-07/03/85	4	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SIO2)		03/20/85-07/03/85	4	4.9	4.8	5.4	4.	0.347	0.589	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)		03/20/85-07/03/85	4	1.	0.875	1.5	0.	0.563	0.75	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)		03/20/85-07/03/85	4	51.5	46.75	60.	24.	246.25	15.692	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)		03/20/85-07/03/85	4	1.45	1.325	1.5	0.9	0.082	0.287	**	**	**	**
71885	IRON (UG/L AS FE)		03/20/85-07/03/85	4	2.5	2.5	5.	0.	4.333	2.082	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL		03/20/85-07/03/85	4	2400.	2400.	2400.	2400.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS,	NTU	03/20/85-07/03/85	4	0.25	0.325	0.7	0.1	0.069	0.263	**	**	**	**
83509	STREAM, WIDTH	METER	03/20/85-07/03/85	4	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0086

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00403 PH, LAB	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	3	0	0.00						
	Other-Lo Lim.	6.5	4	3	0.75	1	1	1.00	3	2	0.67						
00409 ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	4	4	1.00	1	1	1.00	3	3	1.00						
00941 CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	3	0	0.00						
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	4	0	0.00	1	0	0.00	3	0	0.00						
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00	3	0	0.00						
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	4	0	0.00	1	0	0.00	3	0	0.00						

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

Station Inventory for Station: GRSM0087

NPS Station ID: GRSM0087 LAT/LON: 35.516392/ -83.133337 Agency: 131TVAC Date Created: / /
Location: BRIDGE 100 FEET ABOVE MOUTH OF INDIAN CREEK FIPS State/County: 37087 NORTH CAROLINA/HAYWOOD
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 360086 /5620
RMI-Indexes: 1021500 007720 00920 9300 2520 2380
RMI-Miles: 0953.80 0046.50 652.10 073.80 045.90 016.40
HUC: 06010106 Depth of Water: 0 Aquifer:
Major Basin: FRENCH BROAD RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: JONATHANS CREEK 16.4 ECO Region:
RF1 Index: 06010106 RF1 Mile Point: 0.000 Distance from RF1: 2.80 On/Off RF1:
RF3 Index: 06010106003900.00 RF3 Mile Point: 0.00 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0087

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	01/23/67-03/24/69	17	10.	9.653	17.4	1.5	20.869	4.568	2.78	6.	13.	15.88
00061	FLOW, STREAM, INSTANTANEOUS CFS	01/23/67-05/20/68	11	13.	16.818	32.	9.	67.964	8.244	9.2	10.	27.	31.
00070	TURBIDITY, (JACKSON CANDLE UNITS)	01/23/67-03/24/69	17	2.	5.059	25.	0.5	51.715	7.191	0.5	0.5	7.	21.
00080	COLOR (PLATINUM-COBALT UNITS)	01/23/67-03/24/69	16	10.	9.531	15.	2.5	23.516	4.849	4.25	5.	15.	15.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	01/23/67-03/24/69	17	23.	24.118	35.	19.	17.735	4.211	19.8	20.5	26.	31.8
00300	OXYGEN, DISSOLVED MG/L	01/23/67-03/24/69	16	9.55	9.781	12.1	8.	1.311	1.145	8.42	8.9	10.575	11.89
00310	BOD, 5 DAY, 20 DEG C MG/L	01/23/67-03/24/69	17##	0.5	1.265	7.3	0.5	2.73	1.652	0.5	0.5	1.15	3.22
00335	COD, .025N K2CR2O7 MG/L	01/23/67-05/27/67	9	12.	15.444	26.	7.	62.528	7.907	7.	8.	23.5	26.
00400	PH (STANDARD UNITS)	01/23/67-03/24/69	15	7.2	7.14	7.5	6.5	0.078	0.28	6.56	7.	7.3	7.44
00400	CONVERTED PH (STANDARD UNITS)	01/23/67-03/24/69	15	7.2	7.037	7.5	6.5	0.09	0.299	6.56	7.	7.3	7.44
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	01/23/67-03/24/69	15	0.063	0.092	0.316	0.032	0.007	0.081	0.037	0.05	0.1	0.277
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	01/23/67-03/24/69	14	4.5	5.786	21.	3.	20.181	4.492	3.5	4.	5.25	14.
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	01/23/67-03/24/69	15	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00500	RESIDUE, TOTAL (MG/L)	02/12/67-03/24/69	13	50.	53.462	120.	5.	1014.103	31.845	11.	30.	80.	104.
00515	RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	02/12/67-03/24/69	9	30.	42.778	110.	5.	1094.444	33.082	5.	20.	65.	110.
00605	NITROGEN, ORGANIC, TOTAL (MG/L AS N)	01/23/67-03/24/69	17	0.1	0.147	0.56	0.005	0.027	0.164	0.005	0.04	0.19	0.52
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/23/67-03/24/69	17##	0.005	0.02	0.08	0.005	0.001	0.025	0.005	0.005	0.035	0.072
00615	NITRITE NITROGEN, TOTAL (MG/L AS N)	01/23/67-03/24/69	17	0.01	0.011	0.03	0.005	0.	0.008	0.005	0.005	0.02	0.022
00620	NITRATE NITROGEN, TOTAL (MG/L AS N)	01/23/67-03/24/69	17	0.09	0.091	0.16	0.02	0.002	0.041	0.02	0.06	0.115	0.152
00665	PHOSPHORUS, TOTAL (MG/L AS P)	01/23/67-03/24/69	17	0.02	0.021	0.072	0.002	0.	0.017	0.002	0.01	0.028	0.046
00666	PHOSPHORUS, DISSOLVED (MG/L AS P)	01/23/67-03/24/69	15	0.007	0.012	0.072	0.002	0.	0.017	0.002	0.003	0.01	0.038
00916	CALCIUM, TOTAL (MG/L AS CA)	01/23/67-03/24/69	17	1.	0.971	2.	0.25	0.343	0.586	0.25	0.375	1.5	1.6
00927	MAGNESIUM, TOTAL (MG/L AS MG)	01/23/67-03/24/69	17##	0.25	0.353	1.	0.25	0.063	0.251	0.25	0.25	0.25	1.
00929	SODIUM, TOTAL (MG/L AS NA)	01/23/67-03/24/69	17	1.6	1.876	4.3	0.9	0.816	0.903	1.22	1.35	1.9	4.06
00937	POTASSIUM, TOTAL MG/L AS K)	01/23/67-03/24/69	17	1.2	1.594	5.5	0.2	1.799	1.341	0.36	0.7	2.4	3.82
00940	CHLORIDE,TOTAL IN WATER MG/L	01/23/67-03/24/69	17	3.	3.176	6.	1.	1.529	1.237	1.	2.5	4.	4.4
00945	SULFATE, TOTAL (MG/L AS SO4)	01/23/67-03/24/69	17	1.	1.324	4.	0.5	0.967	0.983	0.5	0.5	2.	3.2
00951	FLUORIDE, TOTAL (MG/L AS F)	05/02/68-03/24/69	8	0.04	0.036	0.05	0.005	0.	0.016	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SIO2)	01/23/67-03/24/69	17	5.4	5.094	7.6	0.7	2.594	1.611	2.86	4.1	6.2	6.8
01042	COPPER, TOTAL (UG/L AS CU)	04/30/67-04/30/67	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	01/23/67-03/24/69	17	380.	411.765	860.	80.	54977.941	234.474	96.	225.	620.	772.
01046	IRON, DISSOLVED (UG/L AS FE)	05/02/68-02/19/69	7	50.	56.429	100.	25.	1097.619	33.13	**	**	**	**
01047	IRON, FERROUS (UG/L AS FE)	01/23/67-03/24/69	17##	25.	26.471	50.	25.	36.765	6.063	25.	25.	25.	30.
01055	MANGANESE, TOTAL (UG/L AS MN)	01/23/67-03/24/69	17	20.	115.294	1500.	10.	127813.971	357.511	10.	20.	35.	380.
01056	MANGANESE, DISSOLVED (UG/L AS MN)	05/02/68-02/19/69	6##	7.5	9.167	20.	5.	34.167	5.845	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	04/30/67-04/30/67	1	40.	40.	40.	40.	0.	0.	**	**	**	**
31501	COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	05/02/68-03/24/69	6	200.	1182.5	6400.	5.	6541377.5	2557.612	**	**	**	**
31501	LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,	05/02/68-03/24/69	6	2.3	2.208	3.806	0.699	1.012	1.006	**	**	**	**

** - 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 time series plot

Parameter Inventory for Station: GRSM0087

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
31501 GM COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,3			GEOMETRIC MEAN =	161.312								
31505 COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506)	01/23/67-05/27/67	9	620.	825.556	2300.	280.	392977.778	626.879	280.	350.	1020.	2300.
31505 LOG COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 3150	01/23/67-05/27/67	9	2.792	2.824	3.362	2.447	0.086	0.293	2.447	2.544	3.007	3.362
31505 GM COLIFORM,TOT,MPN,CONFIRMED TEST,35C (TUBE 31506			GEOMETRIC MEAN =	666.989								
31615 FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/67-05/27/67	9	16.	38.556	110.	1.	1771.028	42.084	1.	11.	73.	110.
31615 LOG FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)	01/23/67-05/27/67	9	1.204	1.298	2.041	0.	0.384	0.62	0.	1.041	1.799	2.041
31615 GM FECAL COLIFORM,MPN,EC MED,44.5C (TUBE 31614)			GEOMETRIC MEAN =	19.883								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/02/68-03/24/69	7	10.	25.714	100.	5.	1153.571	33.964	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	05/02/68-03/24/69	7	1.	1.168	2.	0.699	0.217	0.466	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	14.724								
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	02/23/67-05/04/67	2	8.5	8.5	9.	8.	0.5	0.707	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRSM0087

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	17	0	0.00	9	0	0.00	8	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	16	0	0.00	9	0	0.00	7	0	0.00						
00400 PH	Other-Hi Lim.	9.	15	0	0.00	7	0	0.00	8	0	0.00						
	Other-Lo Lim.	6.5	15	1	0.07	7	1	0.14	8	0	0.00						
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	17	0	0.00	9	0	0.00	8	0	0.00						
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	17	0	0.00	9	0	0.00	8	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	17	0	0.00	9	0	0.00	8	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	17	0	0.00	9	0	0.00	8	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						
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
31501 COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	6	1	0.17	3	0	0.00	3	1	0.33						
31505 COLIFORM, TOTAL, MPN, CONF, TEST, 35C	Other-Hi Lim.	1000.	9	2	0.22	5	1	0.20	4	1	0.25						
31615 FECAL COLIFORM, MPN	Other-Hi Lim.	200.	9	0	0.00	5	0	0.00	4	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	7	0	0.00	4	0	0.00	3	0	0.00						

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

Station Inventory for Station: GRSM0088

NPS Station ID: GRSM0088 LAT/LON: 35.516670/ -83.304170 Agency: 21NC01WQ Date Created: 05/16/77
Location: OCONALUFTEE R @SR1368 N RAVENSFORD INACT-750224
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): G8050000 /LTN027B
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010203035 RF1 Mile Point: 0.350 Distance from RF1: 11.80 On/Off RF1: OFF
RF3 Index: 06010203003505.81 RF3 Mile Point: 14.15 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0088

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	8	16.5	13.5	23.	4.	47.714	6.908	**	**	**	**
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	3	3.7	7.567	17.	2.	67.463	8.214	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/19/74-02/24/75	5	27.	25.4	30.	20.	21.3	4.615	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/13/74-02/24/75	8	9.2	10.1	13.7	9.	2.669	1.634	**	**	**	**
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-02/24/75	6	95.	95.833	105.	83.	69.767	8.353	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-02/24/75	8	0.8	0.763	1.3	0.4	0.1	0.316	**	**	**	**
00400 PH (STANDARD UNITS)	08/13/74-02/24/75	8	6.65	6.587	6.9	6.2	0.073	0.27	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	08/13/74-02/24/75	8	6.647	6.51	6.9	6.2	0.08	0.282	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-02/24/75	8	0.225	0.309	0.631	0.126	0.043	0.208	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	8	4.	4.25	7.	3.	1.643	1.282	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-09/16/74	4	0.	0.	0.	0.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	8	26.	41.875	105.	12.	1150.125	33.913	**	**	**	**
00505 RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	8	21.5	22.	50.	2.	229.429	15.147	**	**	**	**
00510 RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	8	10.5	19.875	85.	1.	794.411	28.185	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	7	6.	11.143	48.	1.	273.476	16.537	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	7	5.	3.429	5.	1.	3.952	1.988	**	**	**	**
00540 RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	7	2.	7.714	43.	0.	244.571	15.639	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	3##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	3	0.1	0.117	0.2	0.05	0.006	0.076	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	3	0.28	0.317	0.43	0.24	0.01	0.1	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	02/24/75-02/24/75	1##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	3##	0.025	0.057	0.12	0.025	0.003	0.055	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	8	40.	35.625	60.	5.	295.982	17.204	**	**	**	**
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	8	1.602	1.47	1.778	0.699	0.118	0.343	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	29.516								
70305 SALINITY BASED ON CONDUCTIVITY	08/19/74-08/19/74	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0088

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00	1	0	0.00	2	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	8	0	0.00	3	0	0.00	5	0	0.00						

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

EPA Water Quality Criteria Analysis for Station: GRSM0088

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Other-Hi Lim.	9.	8	0	0.00	3	0	0.00	5	0	0.00						
	Other-Lo Lim.	6.5	8	3	0.38	3	2	0.67	5	1	0.20						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	3	0	0.00	2	0	0.00	1	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	0	0.00	2	0	0.00	6	0	0.00						

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

Station Inventory for Station: GRSM0089

NPS Station ID: GRSM0089 LAT/LON: 35.516670/ -83.966670 Agency: 11EPALES Date Created: / /
Location: RICHLAND CREEK FIPS State/County: 37000 NORTH CAROLINA/
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 3709A2 /LS3709A2
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: I/LAKE JUNALUSKA Elevation: 0 Water Body Id:
Minor Basin: US 19 BY-P AND 23 BY-P BRDG.5 SW OF TOWN ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 18.10 On/Off RF1:
RF3 Index: 06010204034401.87 RF3 Mile Point: 2.41 Distance from RF3: 0.28 On/Off RF3:
Description:
AT US 19 BY-P AND 23 BY-P BRDG ABOUT .5 MI SW OF TOWN OF JUNALUSKA

Parameter Inventory for Station: GRSM0089

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.032	0.042	0.126	0.003	0.001	0.032	0.007	0.023	0.056	0.106
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.001	0.002	0.004	0.001	0.	0.001	0.001	0.001	0.003	0.004
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.5	0.462	0.64	0.294	0.014	0.12	0.296	0.349	0.551	0.636
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	13	0.38	0.412	1.3	0.05	0.11	0.332	0.09	0.185	0.575	1.06
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	13	0.5	0.463	0.64	0.29	0.014	0.12	0.294	0.355	0.55	0.636
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	13	0.04	0.039	0.06	0.02	0.	0.012	0.022	0.03	0.05	0.058
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	13	0.008	0.008	0.016	0.003	0.	0.005	0.003	0.003	0.012	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0089

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	13	0	0.00	8	0	0.00	5	0	0.00						
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						

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

Station Inventory for Station: GRSM0090

NPS Station ID: GRSM0090 LAT/LON: 35.516670/ -83.975004 Agency: 11EPALES Date Created: / /
Location: UNNAMED STREAM
Station Type: /TYPA/AMBNT/STREAM
FIPS State/County: 37000 NORTH CAROLINA/
STORET Station ID(s): 3709B1 /LS3709B1
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: T/LAKE JUNALUSKA Elevation: 0 Water Body Id:
Minor Basin: RD BRDG SE EDGE GOLF COURSEFAIRWAY HILLS ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 12.70 On/Off RF1:
RF3 Index: 06010204034401.87 RF3 Mile Point: 2.06 Distance from RF3: 0.19 On/Off RF3:
Description:
AT SECONDARY RD BRDG AT SE EDGE OF GOLF COURSE AT FAIRWAY HILLS ABOUT 500 FT S OF JCT WITH US HWY 19

Parameter Inventory for Station: GRSM0090

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.056	0.065	0.12	0.02	0.001	0.03	0.028	0.044	0.092	0.114
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.005	0.005	0.01	0.003	0.	0.002	0.003	0.004	0.007	0.009
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	1.24	1.305	1.76	1.1	0.04	0.2	1.1	1.12	1.45	1.664
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	12	0.245	0.401	1.3	0.05	0.169	0.411	0.05	0.088	0.575	1.24
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	13	1.24	1.311	1.76	1.1	0.038	0.196	1.108	1.13	1.45	1.664
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	12	0.033	0.033	0.05	0.012	0.	0.013	0.012	0.025	0.045	0.05
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	13	0.012	0.012	0.018	0.007	0.	0.003	0.007	0.01	0.016	0.018

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

EPA Water Quality Criteria Analysis for Station: GRSM0090

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	13	0	0.00	8	0	0.00	5	0	0.00						
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						

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

Station Inventory for Station: GRSM0091

NPS Station ID: GRSM0091 LAT/LON: 35.520003/ -83.308337 Agency: 112WRD Date Created: / /
Location: MINGUS CREEK AT RAVENSFORD FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03510815
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010203035 RF1 Mile Point: 0.640 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203000700.54 RF3 Mile Point: 0.54 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0091

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	10/23/73-10/03/77	3	13.5	13.633	15.6	11.8	3.623	1.904	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	10/23/73-08/08/74	2	4.5	4.5	5.	4.	0.5	0.707	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	10/23/73-03/10/78	4	12.	13.	16.	12.	4.	2.	**	**	**	**
00400 PH (STANDARD UNITS)	10/23/73-08/08/74	2	6.65	6.65	7.	6.3	0.245	0.495	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	10/23/73-08/08/74	2	6.522	6.522	7.	6.3	0.278	0.527	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	10/23/73-08/08/74	2	0.301	0.301	0.501	0.1	0.08	0.284	**	**	**	**
00405 CARBON DIOXIDE (MG/L AS CO2)	10/23/73-08/08/74	2	3.35	3.35	5.6	1.1	10.125	3.182	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	10/23/73-08/08/74	2	6.	6.	6.	6.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	10/23/73-08/08/74	2	7.	7.	7.	7.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	10/23/73-10/23/73	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00600 NITROGEN, TOTAL (MG/L AS N)	10/03/77-03/10/78	2	0.07	0.07	0.14	0.	0.01	0.099	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	10/03/77-03/10/78	2	0.06	0.06	0.12	0.	0.007	0.085	**	**	**	**
00607 NITROGEN, ORGANIC, DISSOLVED (MG/L AS N)	10/03/77-03/10/78	2	0.045	0.045	0.09	0.	0.004	0.064	**	**	**	**
00608 NITROGEN, AMMONIA, DISSOLVED (MG/L AS N)	10/03/77-03/10/78	2##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	10/03/77-03/10/78	2##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	10/03/77-03/10/78	2##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	10/03/77-03/10/78	2	0.005	0.005	0.01	0.	0.	0.007	**	**	**	**
00623 NITROGEN, KJELDAHL, DISSOLVED (MG/L AS N)	10/03/77-03/10/78	2##	0.075	0.075	0.1	0.05	0.001	0.035	**	**	**	**
00624 NITROGEN, KJELDAHL, SUSPENDED (MG/L AS N)	10/03/77-03/10/78	2	0.015	0.015	0.03	0.	0.	0.021	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	10/03/77-03/10/78	2##	0.09	0.09	0.13	0.05	0.003	0.057	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	10/03/77-03/10/78	2##	0.03	0.03	0.05	0.01	0.001	0.028	**	**	**	**
00631 NITRITE PLUS NITRATE, DISS, 1 DET. (MG/L AS N)	10/03/77-03/10/78	2##	0.03	0.03	0.05	0.01	0.001	0.028	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	10/03/77-03/10/78	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	10/03/77-03/10/78	2	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	10/03/77-03/10/78	2##	0.008	0.008	0.01	0.005	0.	0.004	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	10/03/77-03/10/78	2##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	10/23/73-08/08/74	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	10/23/73-08/08/74	2	0.	0.	0.	0.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	10/23/73-08/08/74	2	0.9	0.9	1.	0.8	0.02	0.141	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	10/23/73-08/08/74	2	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	10/23/73-08/08/74	2	1.1	1.1	1.3	0.9	0.08	0.283	**	**	**	**
00931 SODIUM ADSORPTION RATIO	10/23/73-08/08/74	2	0.25	0.25	0.3	0.2	0.005	0.071	**	**	**	**
00932 SODIUM, PERCENT	10/23/73-08/08/74	2	32.	32.	32.	32.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	10/23/73-08/08/74	2	1.25	1.25	1.8	0.7	0.605	0.778	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	10/23/73-08/08/74	2	0.65	0.65	1.	0.3	0.245	0.495	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	10/23/73-08/08/74	2	1.4	1.4	2.	0.8	0.72	0.849	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	10/23/73-08/08/74	2	0.15	0.15	0.2	0.1	0.005	0.071	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SIO2)	10/23/73-08/08/74	2	8.35	8.35	8.5	8.2	0.045	0.212	**	**	**	**

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

Parameter Inventory for Station: GRSM0091

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01002 ARSENIC, TOTAL (UG/L AS AS)	10/03/77-03/10/78	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01030 CHROMIUM, DISSOLVED (UG/L AS CR)	10/03/77-03/10/78	2##	0.	0.	0.	0.	0.	0.	**	**	**	**
01031 CHROMIUM, SUSPEND (UG/L AS CR)	10/03/77-03/10/78	2##	5.	5.	5.	5.	0.	0.	**	**	**	**
01034 CHROMIUM, TOTAL (UG/L AS CR)	10/03/77-03/10/78	2##	10.	10.	10.	10.	0.	0.	**	**	**	**
01040 COPPER, DISSOLVED (UG/L AS CU)	10/03/77-03/10/78	2##	0.	0.	0.	0.	0.	0.	**	**	**	**
01041 COPPER, SUSPENDED (UG/L AS CU)	10/03/77-03/10/78	2	2.	2.	3.	1.	2.	1.414	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	10/03/77-03/10/78	2##	2.	2.	3.	1.	2.	1.414	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	10/03/77-03/10/78	2	60.	60.	100.	20.	3200.	56.569	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	10/03/77-03/10/78	2##	17.5	17.5	30.	5.	312.5	17.678	**	**	**	**
01049 LEAD, DISSOLVED (UG/L AS PB)	10/03/77-03/10/78	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
01050 LEAD, SUSPENDED (UG/L AS PB)	10/03/77-03/10/78	2	5.5	5.5	11.	0.	60.5	7.778	**	**	**	**
01051 LEAD, TOTAL (UG/L AS PB)	10/03/77-03/10/78	2	9.	9.	16.	2.	98.	9.899	**	**	**	**
01090 ZINC, DISSOLVED (UG/L AS ZN)	10/03/77-03/10/78	2##	0.	0.	0.	0.	0.	0.	**	**	**	**
01091 ZINC, SUSPENDED (UG/L ZN)	10/03/77-03/10/78	2	0.	0.	0.	0.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	10/03/77-03/10/78	2##	0.	0.	0.	0.	0.	0.	**	**	**	**
01147 SELENIUM, TOTAL (UG/L AS SE)	10/03/77-03/10/78	2##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	10/23/73-08/08/74	2	13.5	13.5	17.	10.	24.5	4.95	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	10/23/73-08/08/74	2	17.5	17.5	19.	16.	4.5	2.121	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	10/23/73-08/08/74	2	0.015	0.015	0.02	0.01	0.	0.007	**	**	**	**
70507 PHOSPHORUS,IN TOTAL ORTHOPHOSPHATE (MG/L AS P)	10/03/77-03/10/78	2##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
71846 NITROGEN, AMMONIA, DISSOLVED (MG/L AS NH4)	10/03/77-03/10/78	2	0.005	0.005	0.01	0.	0.	0.007	**	**	**	**
71886 PHOSPHORUS, TOTAL, AS PO4 - MG/L	03/10/78-03/10/78	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71887 NITROGEN, TOTAL, AS NO3 - MG/L	10/03/77-03/10/78	2	0.3	0.3	0.6	0.	0.18	0.424	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	10/03/77-03/10/78	2##	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
80154 SUSP, SEDIMENT CONCENTRATION-EVAP, AT 110C (MG/L)	10/03/77-03/10/78	2	6.	6.	9.	3.	18.	4.243	**	**	**	**

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EPA Water Quality Criteria Analysis for Station: GRSM0091

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Other-Hi Lim.	9.	2	0	0.00	1	0	0.00	1	0	0.00						
	Other-Lo Lim.	6.5	2	1	0.50	1	0	0.00	1	1	1.00						
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	2	0	0.00	2	0	0.00									
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	2	0	0.00	2	0	0.00									
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	2	0	0.00	2	0	0.00									
00631 NITRITE PLUS NITRATE, DISS. 1 DET.	Drinking Water	10.	2	0	0.00	2	0	0.00									
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	2	0	0.00	1	0	0.00	1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	2	0	0.00	1	0	0.00	1	0	0.00						
01002 ARSENIC, TOTAL	Fresh Acute	360.	2	0	0.00	2	0	0.00									
	Drinking Water	50.	2	0	0.00	2	0	0.00									
01030 CHROMIUM, DISSOLVED	Drinking Water	100.	2	0	0.00	2	0	0.00									
01031 CHROMIUM, SUSPENDED	Drinking Water	100.	2	0	0.00	2	0	0.00									
01034 CHROMIUM, TOTAL	Drinking Water	100.	2	0	0.00	2	0	0.00									
01040 COPPER, DISSOLVED	Fresh Acute	18.	2	0	0.00	2	0	0.00									
	Drinking Water	1300.	2	0	0.00	2	0	0.00									
01041 COPPER, SUSPENDED	Fresh Acute	18.	2	0	0.00	2	0	0.00									
	Drinking Water	1300.	2	0	0.00	2	0	0.00									
01042 COPPER, TOTAL	Fresh Acute	18.	2	0	0.00	2	0	0.00									
	Drinking Water	1300.	2	0	0.00	2	0	0.00									
01049 LEAD, DISSOLVED	Fresh Acute	82.	2	0	0.00	2	0	0.00									
	Drinking Water	5.	2	1	0.50	2	1	0.50									
01050 LEAD, SUSPENDED	Fresh Acute	82.	2	0	0.00	2	0	0.00									
	Drinking Water	5.	2	1	0.50	2	1	0.50									
01051 LEAD, TOTAL	Fresh Acute	82.	2	0	0.00	2	0	0.00									
	Drinking Water	5.	2	1	0.50	2	1	0.50									
01090 ZINC, DISSOLVED	Fresh Acute	120.	2	0	0.00	2	0	0.00									
01091 ZINC, SUSPENDED	Fresh Acute	120.	2	0	0.00	2	0	0.00									
01092 ZINC, TOTAL	Fresh Acute	120.	2	0	0.00	2	0	0.00									

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

EPA Water Quality Criteria Analysis for Station: GRSM0091

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
01147 SELENIUM, TOTAL	Fresh Acute	20.	2	0	0.00	2	0	0.00									
	Drinking Water	50.	2	0	0.00	2	0	0.00									
71900 MERCURY, TOTAL	Fresh Acute	2.4	2	0	0.00	2	0	0.00									
	Drinking Water	2.	2	0	0.00	2	0	0.00									

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

Station Inventory for Station: GRSM0092

NPS Station ID: GRSM0092 LAT/LON: 35.525004/ -83.966670 Agency: 11EPALES Date Created: / /
Location: RICHLAND CREEK
Station Type: /TYPA/AMBNT/STREAM FIPS State/County: 37000 NORTH CAROLINA/
RMI-Indexes: STORET Station ID(s): 3709A1 /LS3709A1
RMI-Miles:
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: T/LAKE JUNALUSKA Elevation: 0 Water Body Id:
Minor Basin: RD BRDG 400 FT BELO DAM-LAKE JUNALUSKA ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010202051400.00 RF3 Mile Point: 0.92 Distance from RF3: 0.09 On/Off RF3:
Description:
AT SECONDARY RD BRDG ABOUT 400 FT BELO DAM AT LAKE JUNALUSKA

Parameter Inventory for Station: GRSM0092

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.08	0.083	0.21	0.025	0.002	0.049	0.025	0.05	0.11	0.171
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.005	0.005	0.009	0.002	0.	0.002	0.002	0.004	0.006	0.008
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.47	0.39	0.7	0.154	0.039	0.198	0.16	0.191	0.56	0.66
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	13	0.5	0.669	1.55	0.25	0.181	0.425	0.27	0.365	0.895	1.518
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	13	0.48	0.395	0.7	0.16	0.039	0.198	0.164	0.2	0.565	0.66
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/10/74	12	0.035	0.044	0.078	0.025	0.	0.019	0.025	0.03	0.064	0.076
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	13	0.008	0.009	0.016	0.003	0.	0.004	0.004	0.006	0.011	0.015

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EPA Water Quality Criteria Analysis for Station: GRSM0092

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	13	0	0.00	8	0	0.00	5	0	0.00						
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						

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

Station Inventory for Station: GRSM0093

NPS Station ID: GRSM0093 LAT/LON: 35.525004/ -83.983337 Agency: 11EPALES Date Created: / /
Location: FACTORY BRANCH FIPS State/County: 37000 NORTH CAROLINA/
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 3709C1 /LS3709C1
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: T/LAKE JUNALUSKA Elevation: 0 Water Body Id:
Minor Basin: HWY 19 BRDG .2 MI UPSTREAM FROM W END LK ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 11.60 On/Off RF1:
RF3 Index: 06010204034500.00 RF3 Mile Point: 0.08 Distance from RF3: 0.04 On/Off RF3:
Description:
AT US HWY 19 BRDG ABOUT 0.2 MI UPSTREAM FROM WEST END OF LAKE

Parameter Inventory for Station: GRSM0093

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.063	0.075	0.18	0.03	0.001	0.038	0.039	0.054	0.092	0.15
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.005	0.005	0.01	0.002	0.	0.002	0.002	0.003	0.006	0.009
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	03/25/73-02/24/74	13	0.8	0.831	1.26	0.595	0.041	0.201	0.605	0.645	0.98	1.16
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	03/25/73-02/24/74	13	0.33	0.597	1.8	0.1	0.308	0.555	0.14	0.2	1.055	1.66
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	03/25/73-02/24/74	13	0.81	0.834	1.26	0.6	0.04	0.2	0.608	0.645	0.985	1.16
00665 PHOSPHORUS, TOTAL (MG/L AS P)	03/25/73-02/24/74	13	0.05	0.055	0.12	0.03	0.	0.022	0.034	0.043	0.06	0.1
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	03/25/73-02/24/74	13	0.011	0.013	0.032	0.003	0.	0.007	0.004	0.009	0.015	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0093

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	13	0	0.00	8	0	0.00	5	0	0.00						
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	13	0	0.00	8	0	0.00	5	0	0.00						

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

Station Inventory for Station: GRSM0094

NPS Station ID: GRSM0094 LAT/LON: 35.536392/ -83.208892
Location: TRIBUTARY TO RAVEN FORK 7.43
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0180
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 07.43 03.25
HUC: 06010203 Depth of Water: 0
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0
Minor Basin: BUNCHES CREEK 3.25
RF1 Index: 06010203 RF1 Mile Point: 0.000
RF3 Index: 06010203004400.70 RF3 Mile Point: 0.95
Description:

Agency: 131TVAC Date Created: 04/17/82
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
STORET Station ID(s): 370042

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 12.00 On/Off RF1:
Distance from RF3: 0.02 On/Off RF3:

Parameter Inventory for Station: GRSM0094

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/26/82-03/26/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/82-03/26/82	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	03/26/82-03/26/82	1	10.2	10.2	10.2	10.2	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	03/26/82-03/26/82	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	03/26/82-03/26/82	1	6.2	6.2	6.2	6.2	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/82-03/26/82	1	0.631	0.631	0.631	0.631	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/26/82-03/26/82	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/26/82-03/26/82	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/82-03/26/82	1	1.259	1.259	1.259	1.259	0.	0.	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/82-03/26/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00415	ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/26/82-03/26/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/26/82-03/26/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	1##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	4.8	4.8	4.8	4.8	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	03/26/82-03/26/82	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	03/26/82-03/26/82	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	03/26/82-03/26/82	1	0.98	0.98	0.98	0.98	0.	0.	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	03/26/82-03/26/82	1	0.43	0.43	0.43	0.43	0.	0.	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	03/26/82-03/26/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	03/26/82-03/26/82	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SIO2)	03/26/82-03/26/82	1	3.3	3.3	3.3	3.3	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SIO2)	03/26/82-03/26/82	1	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01042	COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	03/26/82-03/26/82	1	140.	140.	140.	140.	0.	0.	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	03/26/82-03/26/82	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067	NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	03/26/82-03/26/82	1	17.	17.	17.	17.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/26/82-03/26/82	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	03/26/82-03/26/82	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	03/26/82-03/26/82	1	40.	40.	40.	40.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/26/82-03/26/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
70300	RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/82-03/26/82	1	20.	20.	20.	20.	0.	0.	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0094

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900 MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0094

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400 PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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									
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0095

NPS Station ID: GRSM0095 LAT/LON: 35.543615/ -83.506671 Agency: 12NSS Date Created: 10/22/88
Location: FORNEY CREEK FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 2A07817U /2AS2A07817U
RMI-Indexes:
RMI-Miles:
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 1292 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010202 RF1 Mile Point: 0.000 Distance from RF1: 1.00 On/Off RF1:
RF3 Index: 06010203004303.08 RF3 Mile Point: 3.07 Distance from RF3: 0.04 On/Off RF3:
Description:

THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0095

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/03/85-07/03/85	1	12.	12.	12.	12.	0.	0.	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	07/03/85-07/03/85	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/03/85-07/03/85	1	10.	10.	10.	10.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/03/85-07/03/85	1	17.	17.	17.	17.	0.	0.	**	**	**	**
00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/03/85-07/03/85	1	9.3	9.3	9.3	9.3	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/03/85-07/03/85	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/03/85-07/03/85	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/03/85-07/03/85	1	0.794	0.794	0.794	0.794	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	07/03/85-07/03/85	1	12.2	12.2	12.2	12.2	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/03/85-07/03/85	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/03/85-07/03/85	1	0.002	0.002	0.002	0.002	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/03/85-07/03/85	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/03/85-07/03/85	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/03/85-07/03/85	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/03/85-07/03/85	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/03/85-07/03/85	1	0.62	0.62	0.62	0.62	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/03/85-07/03/85	1	0.32	0.32	0.32	0.32	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	07/03/85-07/03/85	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/03/85-07/03/85	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/03/85-07/03/85	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/03/85-07/03/85	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/03/85-07/03/85	1	6.	6.	6.	6.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/03/85-07/03/85	1	62.	62.	62.	62.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/03/85-07/03/85	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	07/03/85-07/03/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/03/85-07/03/85	1	4240.	4240.	4240.	4240.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/03/85-07/03/85	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
83509	STREAM, WIDTH METER	07/03/85-07/03/85	1	9.1	9.1	9.1	9.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0095

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	1	0	0.00				1	0	0.00						
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00409 ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00				1	1	1.00						
00941 CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0096

NPS Station ID: GRSM0096 LAT/LON: 35.544448/ -84.034726 Agency: 131TVAC Date Created: 06/27/87
Location: CHILHOWEE RESERVOIR FIPS State/County: 47123 TENNESSEE/MONROE
Station Type: /TYPA/AMBNT/FISH/STREAM STORET Station ID(s): 477022
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 034.50
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 34.5 ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010204069700.00 RF3 Mile Point: 0.00 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0096

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00019 SAMPLE WEIGHT IN GRAMS	02/11/87-02/11/87	10	1110.	1163.	1485.	900.	25451.111	159.534	918.	1091.25	1292.5	1466.5
00039 SAMPLE LENGTH IN MILLIMETERS	02/11/87-02/11/87	10	464.	463.4	492.	415.	453.156	21.287	418.6	456.25	481.	491.2

** - 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

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

Station Inventory for Station: GRSM0097

NPS Station ID: GRSM0097 LAT/LON: 35.546670/ -84.027504 Agency: 131TVAC Date Created: / /
Location: CHILHOWEE RESERVOIR FIPS State/County: 47123 TENNESSEE/MONROE
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): 475856 /3932
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 035.00
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 35.0 ECO Region:
RF1 Index: 06010204019 RF1 Mile Point: 3.480 Distance from RF1: 1.40 On/Off RF1: ON
RF3 Index: 06010204006400.00 RF3 Mile Point: 0.00 Distance from RF3: 0.06 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0097

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00339 COD, BOTTOM DEPOSITS, DRY WEIGHT MG/KG	06/27/73-06/27/73	1	76400.	76400.	76400.	76400.	0.	0.	**	**	**	**
00668 PHOSPHORUS,TOTAL,BOTTOM DEPOSIT (MG/KG-P DRY WGT)	06/27/73-06/27/73	1	620.	620.	620.	620.	0.	0.	**	**	**	**
01003 ARSENIC IN BOTTOM DEPOSITS (MG/KG AS AS DRY WGT)	06/27/73-06/27/73	1##	1.	1.	1.	1.	0.	0.	**	**	**	**
01008 BARIUM IN BOTTOM DEPOSITS (MG/KG AS BA DRY WGT)	06/27/73-06/27/73	1	110.	110.	110.	110.	0.	0.	**	**	**	**
01013 BERYLLIUM IN BOTTOM DEPOSITS(MG/KG AS BE DRY WGT)	06/27/73-06/27/73	1##	0.35	0.35	0.35	0.35	0.	0.	**	**	**	**
01028 CADMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
01029 CHROMIUM,TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1	13.	13.	13.	13.	0.	0.	**	**	**	**
01038 COBALT IN BOTTOM DEPOSITS (MG/KG AS CO DRY WGT)	06/27/73-06/27/73	1	21.	21.	21.	21.	0.	0.	**	**	**	**
01043 COPPER IN BOTTOM DEPOSITS (MG/KG AS CU DRY WGT)	06/27/73-06/27/73	1	19.	19.	19.	19.	0.	0.	**	**	**	**
01052 LEAD IN BOTTOM DEPOSITS (MG/KG AS PB DRY WGT)	06/27/73-06/27/73	1	29.	29.	29.	29.	0.	0.	**	**	**	**
01053 MANGANESE IN BOTTOM DEPOSITS (MG/KG AS MN DRY WGT)	06/27/73-06/27/73	1	1000.	1000.	1000.	1000.	0.	0.	**	**	**	**
01063 MOLYBDENUM IN BOT. DEPOSITS (MG/KG AS MO DRY WGT)	06/27/73-06/27/73	1##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01068 NICKEL, TOTAL IN BOTTOM DEPOSITS (MG/KG,DRY WGT)	06/27/73-06/27/73	1##	1.65	1.65	1.65	1.65	0.	0.	**	**	**	**
01078 SILVER IN BOTTOM DEPOSITS (MG/KG AS AG DRY WGT)	06/27/73-06/27/73	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01083 STRONTIUM IN BOTTOM DEPOSITS(MG/KG AS SR DRY WGT)	06/27/73-06/27/73	1##	1.65	1.65	1.65	1.65	0.	0.	**	**	**	**
01088 VANADIUM IN BOTTOM DEPOSITS (MG/KG AS V DRY WGT)	06/27/73-06/27/73	1##	17.	17.	17.	17.	0.	0.	**	**	**	**
01093 ZINC IN BOTTOM DEPOSITS (MG/KG AS ZN DRY WGT)	06/27/73-06/27/73	1	80.	80.	80.	80.	0.	0.	**	**	**	**
01098 ANTIMONY IN BOTTOM DEPOSITS (MG/KG AS SB DRY WGT)	06/27/73-06/27/73	1##	3.5	3.5	3.5	3.5	0.	0.	**	**	**	**
01103 TIN IN BOTTOM DEPOSITS (MG/KG AS SN DRY WGT)	06/27/73-06/27/73	1##	33.5	33.5	33.5	33.5	0.	0.	**	**	**	**
01108 ALUMINUM IN BOTTOM DEPOSITS (MG/KG AS AL DRY WGT)	06/27/73-06/27/73	1	11000.	11000.	11000.	11000.	0.	0.	**	**	**	**
01133 LITHIUM IN BOTTOM DEPOSITS (MG/KG AS LI DRY WGT)	06/27/73-06/27/73	1	6.7	6.7	6.7	6.7	0.	0.	**	**	**	**
01148 SELENIUM IN BOTTOM DEPOSITS (MG/KG AS SE DRY WGT)	06/27/73-06/27/73	1	2.	2.	2.	2.	0.	0.	**	**	**	**
01170 IRON IN BOTTOM DEPOSITS (MG/KG AS FE DRY WGT)	06/27/73-06/27/73	1	21000.	21000.	21000.	21000.	0.	0.	**	**	**	**
71921 MERCURY,TOT. IN BOT. DEPOS. (MG/KG AS HG DRY WGT)	06/27/73-06/27/73	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
80111 NITROGEN, TOTAL IN DRIED MATERIAL (MG/KG)	06/27/73-06/27/73	1	2500.	2500.	2500.	2500.	0.	0.	**	**	**	**

** - Less than 9 observations ## - 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 exists to compare against the data at this station. **********

Station Inventory for Station: GRSM0098

NPS Station ID: GRSM0098 LAT/LON: 35.547226/ -83.230560 Agency: 131TVAC Date Created: 04/17/82
Location: TRIBUTARY TO RAVEN FORK 7.43 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 370041
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0180
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 07.43 01.52
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: BUNCHES CREEK 1.52 ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010203003400.00 RF3 Mile Point: 0.05 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0098

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		03/26/82-03/26/82	1	6.6	6.6	6.6	6.6	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		03/26/82-03/26/82	1	20.	20.	20.	20.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	03/26/82-03/26/82	1	10.6	10.6	10.6	10.6	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		03/26/82-03/26/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		03/26/82-03/26/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		03/26/82-03/26/82	1	0.794	0.794	0.794	0.794	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0098

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400 PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									

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

Station Inventory for Station: GRSM0099

NPS Station ID: GRSM0099 LAT/LON: 35.550281/ -83.231948 Agency: 12NSS Date Created: 10/22/88
Location: BUNCHES CREEK FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 2A07818U /2AS2A07818U
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 780 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 1.00 On/Off RF1:
RF3 Index: 06010203004400.00 RF3 Mile Point: 0.00 Distance from RF3: 0.06 On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0099

Parameter			Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		04/22/85-07/16/85	2	14.5	14.5	17.	12.	12.5	3.536	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)		04/22/85-07/16/85	2	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)		04/22/85-07/16/85	2	15.	15.	15.	15.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		04/22/85-07/16/85	2	16.	16.	17.	15.	2.	1.414	**	**	**	**
00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE	MG/L	04/22/85-07/16/85	2	8.5	8.5	8.8	8.2	0.18	0.424	**	**	**	**
00403	PH, LAB, STANDARD UNITS	SU	04/22/85-07/16/85	2	6.9	6.9	7.	6.8	0.02	0.141	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS		04/22/85-07/16/85	2	6.889	6.889	7.	6.8	0.02	0.142	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		04/22/85-07/16/85	2	0.129	0.129	0.158	0.1	0.002	0.041	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS	UEQ/L	04/22/85-07/16/85	2	107.1	107.1	114.7	99.5	115.52	10.748	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)		04/22/85-07/16/85	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)		04/22/85-07/16/85	2	0.018	0.018	0.024	0.012	0.	0.008	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)		04/22/85-07/16/85	2	0.65	0.65	0.7	0.6	0.005	0.071	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)		04/22/85-07/16/85	2	1.25	1.25	1.3	1.2	0.005	0.071	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)		04/22/85-07/16/85	2	1.	1.	1.1	0.9	0.02	0.141	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)		04/22/85-07/16/85	2	0.35	0.35	0.4	0.3	0.005	0.071	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)		04/22/85-07/16/85	2	1.19	1.19	1.24	1.14	0.005	0.071	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)		04/22/85-07/16/85	2	0.58	0.58	0.6	0.56	0.001	0.028	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER	MG/L	04/22/85-07/16/85	2	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)		04/22/85-07/16/85	2	1.15	1.15	1.3	1.	0.045	0.212	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)		04/22/85-07/16/85	2	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SIO2)		04/22/85-07/16/85	2	8.5	8.5	8.9	8.1	0.32	0.566	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)		04/22/85-07/16/85	2	1.	1.	2.	0.	2.	1.414	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)		04/22/85-07/16/85	2	82.	82.	88.	76.	72.	8.485	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)		04/22/85-07/16/85	2	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)		04/22/85-07/16/85	2	9.99	9.99	12.99	6.99	18.	4.243	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL		04/22/85-07/16/85	2	2560.	2560.	2560.	2560.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS,	NTU	04/22/85-07/16/85	2	2.55	2.55	3.2	1.9	0.845	0.919	**	**	**	**
83509	STREAM, WIDTH	METER	04/22/85-07/16/85	2	3.	3.	3.	3.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0099

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	2	0	0.00				2	0	0.00						
00403 PH, LAB	Other-Hi Lim.	9.	2	0	0.00				2	0	0.00						
	Other-Lo Lim.	6.5	2	0	0.00				2	0	0.00						
00409 ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	2	2	1.00				2	2	1.00						
00941 CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	2	0	0.00				2	0	0.00						
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	2	0	0.00				2	0	0.00						
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	2	0	0.00				2	0	0.00						
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	2	0	0.00				2	0	0.00						

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

Station Inventory for Station: GRSM0100

NPS Station ID: GRSM0100 LAT/LON: 35.552226/ -83.715838 Agency: 12NSS Date Created: 10/22/88
Location: EAGLE CREEK
Station Type: /TYPA/AMBNT/STREAM FIPS State/County: 37173 NORTH CAROLINA/SWAIN
RMI-Indexes: STORET Station ID(s): 2A07816U /2AS2A07816U
RMI-Miles:
HUC: 06010202 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 1231 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010202 RF1 Mile Point: 0.000 Distance from RF1: 2.30 On/Off RF1:
RF3 Index: 06010202011501.03 RF3 Mile Point: 1.02 Distance from RF3: 0.02 On/Off RF3:
Description:

THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0100

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/08/85-07/08/85	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	07/08/85-07/08/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	07/08/85-07/08/85	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/08/85-07/08/85	1	11.	11.	11.	11.	0.	0.	**	**	**	**
00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	07/08/85-07/08/85	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/08/85-07/08/85	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/08/85-07/08/85	1	6.5	6.5	6.5	6.5	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/08/85-07/08/85	1	0.316	0.316	0.316	0.316	0.	0.	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	07/08/85-07/08/85	1	32.2	32.2	32.2	32.2	0.	0.	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	07/08/85-07/08/85	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	07/08/85-07/08/85	1	0.008	0.008	0.008	0.008	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/08/85-07/08/85	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	07/08/85-07/08/85	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	07/08/85-07/08/85	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	07/08/85-07/08/85	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	07/08/85-07/08/85	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	07/08/85-07/08/85	1	0.25	0.25	0.25	0.25	0.	0.	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	07/08/85-07/08/85	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	07/08/85-07/08/85	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/08/85-07/08/85	1	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/08/85-07/08/85	1	4.1	4.1	4.1	4.1	0.	0.	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	07/08/85-07/08/85	1	0.	0.	0.	0.	0.	0.	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	07/08/85-07/08/85	1	127.	127.	127.	127.	0.	0.	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	07/08/85-07/08/85	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
71885	IRON (UG/L AS FE)	07/08/85-07/08/85	1	2.	2.	2.	2.	0.	0.	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	07/08/85-07/08/85	1	4040.	4040.	4040.	4040.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	07/08/85-07/08/85	1	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
83509	STREAM, WIDTH METER	07/08/85-07/08/85	1	3.	3.	3.	3.	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0100

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	1	0	0.00				1	0	0.00						
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00409 ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	1	1	1.00				1	1	1.00						
00941 CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0101

NPS Station ID: GRSM0101 LAT/LON: 35.552781/ -83.258337 Agency: 21NC01WQ Date Created: 05/16/77
Location: STRAIGHT FORK CK BELOW RAVEN FORK INACT-750224 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G8100000 /LTN027C
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010203032 RF1 Mile Point: 5.510 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203003500.00 RF3 Mile Point: 0.19 Distance from RF3: 0.09 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0101

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	10	16.5	14.2	22.	4.	37.511	6.125	4.4	8.75	19.	21.7
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	3	3.	4.4	9.	1.2	16.68	4.084	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/24/75	6	25.	25.	29.	22.	8.	2.828	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/13/74-02/24/75	10	9.1	9.95	14.1	8.6	3.078	1.755	8.6	8.675	11.1	13.8
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-02/24/75	7	93.	82.986	108.	9.9	1078.435	32.84	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-02/24/75	9	0.6	0.733	1.4	0.2	0.13	0.361	0.2	0.5	1.	1.4
00340 COD, .25N K2CR2O7 MG/L	01/29/75-01/29/75	1##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	08/13/74-02/24/75	10	6.5	6.515	6.9	6.2	0.062	0.249	6.2	6.275	6.725	6.89
00400 CONVERTED PH (STANDARD UNITS)	08/13/74-02/24/75	10	6.489	6.454	6.9	6.2	0.066	0.258	6.2	6.275	6.725	6.89
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-02/24/75	10	0.325	0.352	0.631	0.126	0.036	0.189	0.129	0.189	0.534	0.631
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	10	4.	4.5	6.	4.	0.5	0.707	4.	4.	5.	5.9
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/29/75	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	8	24.	22.75	41.	7.	111.643	10.566	**	**	**	**
00505 RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	8	10.5	13.875	29.	5.	80.125	8.951	**	**	**	**
00510 RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	8	3.5	8.875	30.	0.	120.125	10.96	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	8	3.5	4.875	14.	2.	14.696	3.834	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	8	2.	2.125	4.	1.	1.268	1.126	**	**	**	**
00540 RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	7	1.	2.714	11.	0.	15.238	3.904	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	3##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	4	0.2	0.175	0.2	0.1	0.003	0.05	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	4	0.335	0.35	0.43	0.3	0.004	0.059	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	01/29/75-02/24/75	2##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	4##	0.025	0.031	0.05	0.025	0.	0.013	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	01/29/75-01/29/75	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	9##	5.	16.111	50.	5.	298.611	17.28	5.	5.	30.	50.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	9##	0.699	1.011	1.699	0.699	0.174	0.417	0.699	0.699	1.452	1.699
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C			GEOMETRIC MEAN =	10.251								
70305 SALINITY BASED ON CONDUCTIVITY	08/18/74-08/19/74	2	0.4	0.4	0.5	0.3	0.02	0.141	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0101

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00	1	0	0.00	2	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	10	0	0.00	4	0	0.00	6	0	0.00						
00400 PH	Other-Hi Lim.	9.	10	0	0.00	4	0	0.00	6	0	0.00						
	Other-Lo Lim.	6.5	10	5	0.50	4	3	0.75	6	2	0.33						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	3	0	0.00	1	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	0	0.00	3	0	0.00	6	0	0.00						

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

Station Inventory for Station: GRSM0102

NPS Station ID: GRSM0102 LAT/LON: 35.552781/ -83.309726 Agency: 131TVAC Date Created: / /
Location: BRIDGE AT SMOKEMONT CAMPGROUND FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 360147 /4064
RMI-Indexes: 1021500 007720 00920 8540 4030 0730
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 013.96
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: OCONALUFTEE RIVER 13.96 ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010203003101.97 RF3 Mile Point: 7.54 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0102

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/68-03/24/69	8	11.75	10.6	16.8	2.2	20.86	4.567	**	**	**	**
00070 TURBIDITY, (JACKSON CANDLE UNITS)	04/30/68-03/24/69	8	1.	1.25	3.	0.5	0.714	0.845	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	04/30/68-03/24/69	8	10.	8.75	15.	2.5	25.	5.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/68-03/24/69	8	18.	20.25	36.	14.	55.357	7.44	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	04/30/68-03/24/69	8	9.55	9.675	11.	8.2	0.782	0.884	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	04/30/68-03/24/69	8##	0.5	1.075	2.4	0.5	0.659	0.812	**	**	**	**
00400 PH (STANDARD UNITS)	04/30/68-03/24/69	7	6.9	7.014	7.6	6.4	0.208	0.456	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	04/30/68-03/24/69	7	6.9	6.829	7.6	6.4	0.248	0.498	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/30/68-03/24/69	7	0.126	0.148	0.398	0.025	0.019	0.137	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/68-03/24/69	7	5.	4.143	5.	2.	1.476	1.215	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/30/68-03/24/69	7	0.	0.	0.	0.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	04/30/68-03/24/69	7	30.	28.571	50.	10.	180.952	13.452	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/30/68-03/24/69	7	30.	27.143	50.	10.	157.143	12.536	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/30/68-03/24/69	8	0.115	0.162	0.48	0.005	0.024	0.156	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/68-03/24/69	8##	0.018	0.031	0.09	0.005	0.001	0.032	**	**	**	**
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	8##	0.008	0.009	0.02	0.005	0.	0.005	**	**	**	**
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	8	0.225	0.2	0.29	0.08	0.007	0.086	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/30/68-03/24/69	8	0.007	0.021	0.104	0.002	0.001	0.035	**	**	**	**
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	04/30/68-12/02/68	5	0.016	0.011	0.02	0.002	0.	0.009	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	04/30/68-03/24/69	8	1.	0.781	1.	0.25	0.097	0.312	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	04/30/68-03/24/69	8##	0.25	0.313	0.5	0.25	0.013	0.116	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)	04/30/68-03/24/69	7	0.7	1.057	2.3	0.3	0.56	0.748	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	04/30/68-03/24/69	7	1.1	1.557	3.2	0.5	1.046	1.023	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	04/30/68-03/24/69	8	2.	1.688	2.	0.5	0.353	0.594	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	04/30/68-03/24/69	8	2.	2.25	5.	1.	1.643	1.282	**	**	**	**
00951 FLUORIDE, TOTAL (MG/L AS F)	04/30/68-03/24/69	8	0.035	0.042	0.07	0.005	0.001	0.023	**	**	**	**
00956 SILICA, TOTAL (MG/L AS SI02)	04/30/68-03/24/69	8	4.55	4.5	6.9	2.6	1.871	1.368	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	05/21/68-07/21/68	2##	7.5	7.5	10.	5.	12.5	3.536	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	04/30/68-03/24/69	8	110.	154.375	540.	25.	26210.268	161.896	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	04/30/68-03/24/69	8##	25.	75.625	370.	25.	14338.839	119.745	**	**	**	**
01047 IRON, FERROUS (UG/L AS FE)	04/30/68-03/24/69	8##	25.	34.375	100.	25.	703.125	26.517	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	04/30/68-03/24/69	8	20.	37.5	120.	10.	1650.	40.62	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)	04/30/68-03/24/69	6	15.	30.833	80.	5.	984.167	31.371	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	05/21/68-07/21/68	2##	47.5	47.5	90.	5.	3612.5	60.104	**	**	**	**
31501 COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	04/30/68-03/24/69	8	135.	140.	300.	5.	13421.429	115.851	**	**	**	**
31501 LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,	04/30/68-03/24/69	8	2.128	1.835	2.477	0.699	0.534	0.731	**	**	**	**
31501 GM COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,3			GEOMETRIC MEAN =	68.45								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	8##	5.	27.5	140.	5.	2314.286	48.107	**	**	**	**

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

Parameter Inventory for Station: GRSM0102

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	04/30/68-03/24/69	8##	0.699	1.005	2.146	0.699	0.335	0.579	**	**	**	**
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		10.113								
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	10/21/68-12/02/68	2	4.	4.	5.	3.	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: GRSM0102

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	8	0	0.00	4	0	0.00	4	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	8	0	0.00	4	0	0.00	4	0	0.00						
00400 PH	Other-Hi Lim.	9.	7	0	0.00	3	0	0.00	4	0	0.00						
	Other-Lo Lim.	6.5	7	1	0.14	3	1	0.33	4	0	0.00						
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	8	0	0.00	4	0	0.00	4	0	0.00						
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	8	0	0.00	4	0	0.00	4	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	8	0	0.00	4	0	0.00	4	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	8	0	0.00	4	0	0.00	4	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	2	0	0.00				2	0	0.00						
	Drinking Water	1300.	2	0	0.00				2	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	2	0	0.00				2	0	0.00						
31501 COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	8	0	0.00	4	0	0.00	4	0	0.00						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	8	0	0.00	4	0	0.00	4	0	0.00						

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

Station Inventory for Station: GRSM0103

NPS Station ID: GRSM0103 LAT/LON: 35.553059/ -83.999171 Agency: 21TNWQ Date Created: 03/28/92
Location: CHILHOWEE RESERVOIR @ ABRAMS CREEK
FIPS State/County: 47123 TENNESSEE/MONROE
Station Type: /RESERV/TYPA/AMBNT
STORET Station ID(s): CHILHOWEE02
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 46 Aquifer:
Major Basin: TENNESSEE RIVER Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.40 On/Off RF1:
RF3 Index: 06010204018500.00 RF3 Mile Point: 0.07 Distance from RF3: 0.02 On/Off RF3:
Description:
1991 CLEAN LAKES STATEWIDE ASSESSMENT LOCATION

Parameter Inventory for Station: GRSM0103

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	05/23/91-09/30/91	6	16.45	17.783	25.2	12.4	22.342	4.727	**	**	**	**
00068 DEPTH, MAXIMUM, OF SAMPLE (FEET)	05/23/91-09/30/91	6	18.05	21.333	45.9	3.3	407.403	20.184	**	**	**	**
00077 TRANSPARENCY, SECCHI DISC (INCHES)	05/23/91-09/30/91	6	138.	143.	157.	134.	120.8	10.991	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	05/23/91-09/30/91	5	29.	25.8	31.	15.	43.7	6.611	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	05/23/91-09/30/91	6	7.35	7.45	9.1	5.1	2.227	1.492	**	**	**	**
00400 PH (STANDARD UNITS)	05/23/91-08/01/91	4	6.65	6.663	7.14	6.21	0.146	0.382	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	05/23/91-08/01/91	4	6.647	6.545	7.14	6.21	0.164	0.405	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	05/23/91-08/01/91	4	0.225	0.285	0.617	0.072	0.055	0.234	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	05/23/91-09/30/91	6##	0.01	0.013	0.03	0.005	0.	0.009	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	05/23/91-09/30/91	6	0.11	0.12	0.19	0.05	0.003	0.057	**	**	**	**
00635 NITROGEN, AMMONIA&ORG., TOTAL 1 DET (MG/L AS N)	05/23/91-09/30/91	6	0.2	0.408	1.5	0.05	0.292	0.541	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	05/23/91-09/30/91	6##	0.008	0.054	0.25	0.005	0.01	0.098	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	08/01/91-08/01/91	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	05/23/91-09/30/91	3##	2.	2.	2.	2.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	05/23/91-09/30/91	3	117.	239.	543.	57.	70212.	264.975	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	05/23/91-09/30/91	2	45.	45.	68.	22.	1058.	32.527	**	**	**	**
32209 CHLOROPHYLL A UG/L FLUOROMETRIC CORRECTED	05/23/91-09/30/91	3	2.5	2.767	4.	1.8	1.263	1.124	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0103

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	6	0	0.00				6	0	0.00						
00400 PH	Other-Hi Lim.	9.	4	0	0.00				4	0	0.00						
	Other-Lo Lim.	6.5	4	1	0.25				4	1	0.25						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00				6	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	3	0	0.00				3	0	0.00						

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

Station Inventory for Station: GRSM0104

NPS Station ID: GRSM0104 LAT/LON: 35.555281/ -83.998892 Agency: 131TVAC Date Created: 12/13/86
Location: CHILHOWEE RESERVOIR - MOUTH OF ABRAMS CREEK
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 476971
RMI-Indexes: 1021500 007720 00920 8540
RMI-Miles: 0953.80 0046.50 601.10 037.00
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER 37.0 ECO Region:
RF1 Index: 06010204019 RF1 Mile Point: 6.060 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010204002005.31 RF3 Mile Point: 8.38 Distance from RF3: 0.03 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0104

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
39491	PCB - 1221 BOT. DEP.,PCB SERIES DRY SOL UG/KG	10/06/86-10/06/86	2##	50.	50.	50.	50.	0.	0.	**	**	**	**
39495	PCB - 1232 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	2##	50.	50.	50.	50.	0.	0.	**	**	**	**
39499	PCB - 1242 BOT. DEP.,PCB-SERIES DRY SOL UG/KG	10/06/86-10/06/86	2##	50.	50.	50.	50.	0.	0.	**	**	**	**
39503	PCB - 1248 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	2##	50.	50.	50.	50.	0.	0.	**	**	**	**
39507	PCB - 1254 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	2##	50.	50.	50.	50.	0.	0.	**	**	**	**
39511	PCB - 1260 IN BOTTOM DEPOS. DRY SOLIDS UG/KG	10/06/86-10/06/86	2##	50.	50.	50.	50.	0.	0.	**	**	**	**
39514	PCB - 1016 IN BOTTOM SEDIMENTS DRY WT UG/KG	10/06/86-10/06/86	2##	50.	50.	50.	50.	0.	0.	**	**	**	**
39519	PCBS IN BOTTOM DEPOSITS (UG/KG DRY SOLIDS)	10/06/86-10/06/86	2##	50.	50.	50.	50.	0.	0.	**	**	**	**
81900	SEDIMENT CORE SAMPLE,UPPER DEPTH,REPORT IN INCHES	10/06/86-10/06/86	2	1.51	1.51	3.01	0.01	4.5	2.121	**	**	**	**
81901	SEDIMENT CORE SAMPLE, LOWER DEPTH,REPORT IN INCHES	10/06/86-10/06/86	2	4.	4.	5.	3.	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

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

Station Inventory for Station: GRSM0105

NPS Station ID: GRSM0105 LAT/LON: 35.558615/ -83.248059 Agency: 131TVAC Date Created: / /
Location: ROAD CROSSING 0.5 MILE SW OF STRAIGHT FK MOUTH FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 360148 /4067
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 07.41
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: RAVEN FORK 7.41 ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 1.20 On/Off RF1:
RF3 Index: 06010203003504.07 RF3 Mile Point: 4.94 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0105

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	04/30/68-03/24/69	9	11.9	11.089	17.5	1.7	23.084	4.805	1.7	7.95	14.75	17.5
00070 TURBIDITY, (JACKSON CANDLE UNITS)	04/30/68-03/24/69	9	1.	1.222	3.	0.5	0.632	0.795	0.5	0.75	1.5	3.
00080 COLOR (PLATINUM-COBALT UNITS)	04/30/68-03/24/69	9	10.	9.722	25.	2.5	47.569	6.897	2.5	5.	12.5	25.
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	04/30/68-03/24/69	9	17.	18.778	25.	13.	18.444	4.295	13.	15.	22.5	25.
00300 OXYGEN, DISSOLVED MG/L	04/30/68-03/24/69	9	9.6	9.344	11.	5.9	2.15	1.466	5.9	8.9	10.2	11.
00310 BOD, 5 DAY, 20 DEG C MG/L	04/30/68-03/24/69	9##	0.5	0.7	1.3	0.5	0.098	0.312	0.5	0.5	1.	1.3
00400 PH (STANDARD UNITS)	04/30/68-03/24/69	8	6.9	6.925	7.6	6.4	0.196	0.443	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	04/30/68-03/24/69	8	6.9	6.755	7.6	6.4	0.23	0.479	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	04/30/68-03/24/69	8	0.126	0.176	0.398	0.025	0.021	0.145	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	04/30/68-03/24/69	8	4.	4.125	6.	3.	0.982	0.991	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	04/30/68-03/24/69	8	0.	0.	0.	0.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	04/30/68-03/24/69	8	20.	26.25	50.	10.	169.643	13.025	**	**	**	**
00515 RESIDUE, TOTAL FILTRABLE (DRIED AT 105C),MG/L	04/30/68-03/24/69	8	20.	23.125	50.	5.	220.982	14.865	**	**	**	**
00605 NITROGEN, ORGANIC, TOTAL (MG/L AS N)	04/30/68-03/24/69	9	0.15	0.182	0.44	0.005	0.019	0.14	0.005	0.065	0.295	0.44
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	04/30/68-03/24/69	9##	0.005	0.022	0.08	0.005	0.001	0.028	0.005	0.005	0.04	0.08
00615 NITRITE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	9##	0.005	0.011	0.03	0.005	0.	0.009	0.005	0.005	0.015	0.03
00620 NITRATE NITROGEN, TOTAL (MG/L AS N)	04/30/68-03/24/69	9	0.21	0.218	0.39	0.14	0.006	0.076	0.14	0.155	0.245	0.39
00665 PHOSPHORUS, TOTAL (MG/L AS P)	04/30/68-03/24/69	9	0.007	0.011	0.023	0.002	0.	0.008	0.002	0.003	0.018	0.023
00666 PHOSPHORUS, DISSOLVED (MG/L AS P)	04/30/68-03/24/69	8	0.007	0.007	0.016	0.002	0.	0.005	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	04/30/68-03/24/69	9	0.5	0.722	1.5	0.25	0.288	0.537	0.25	0.25	1.25	1.5
00927 MAGNESIUM, TOTAL (MG/L AS MG)	04/30/68-03/24/69	9##	0.25	0.25	0.25	0.25	0.	0.	0.25	0.25	0.25	0.25
00929 SODIUM, TOTAL (MG/L AS NA)	04/30/68-03/24/69	8	0.55	0.825	2.9	0.05	0.936	0.967	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	04/30/68-03/24/69	8	1.15	1.575	5.1	0.2	2.505	1.583	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	04/30/68-03/24/69	9	2.	1.722	2.	0.5	0.319	0.565	0.5	1.5	2.	2.
00945 SULFATE, TOTAL (MG/L AS SO4)	04/30/68-03/24/69	9	1.	1.556	3.	1.	0.528	0.726	1.	1.	2.	3.
00951 FLUORIDE, TOTAL (MG/L AS F)	04/30/68-03/24/69	9	0.04	0.047	0.1	0.005	0.001	0.027	0.005	0.03	0.065	0.1
00956 SILICA, TOTAL (MG/L AS SI02)	04/30/68-03/24/69	9	4.8	4.589	7.	1.4	2.966	1.722	1.4	3.55	6.1	7.
01045 IRON, TOTAL (UG/L AS FE)	04/30/68-03/24/69	9	120.	147.222	290.	25.	8144.444	90.247	25.	75.	235.	290.
01046 IRON, DISSOLVED (UG/L AS FE)	04/30/68-03/24/69	9##	25.	56.667	280.	5.	7206.25	84.89	5.	25.	50.	280.
01047 IRON, FERROUS (UG/L AS FE)	04/30/68-03/24/69	8##	25.	25.	25.	25.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	04/30/68-03/24/69	9	30.	94.444	550.	10.	30202.778	173.789	10.	10.	90.	550.
01056 MANGANESE, DISSOLVED (UG/L AS MN)	04/30/68-03/24/69	9	20.	66.111	390.	5.	15348.611	123.89	5.	10.	65.	390.
31501 COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	04/30/68-03/24/69	9	200.	492.778	2900.	5.	826131.944	908.918	5.	120.	325.	2900.
31501 LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,	04/30/68-03/24/69	9	2.301	2.256	3.462	0.699	0.514	0.717	0.699	2.073	2.506	3.462
31501 GM COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,3		GEOMETRIC MEAN =		180.16								
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	9##	5.	201.111	1700.	5.	316392.361	562.488	5.	5.	40.	1700.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	04/30/68-03/24/69	9##	0.699	1.141	3.23	0.699	0.757	0.87	0.699	0.699	1.423	3.23
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		13.837								

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

EPA Water Quality Criteria Analysis for Station: GRSM0105

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00070 TURBIDITY, JACKSON CANDLE UNITS	Other-Hi Lim.	50.	9	0	0.00	4	0	0.00	5	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	9	0	0.00	4	0	0.00	5	0	0.00						
00400 PH	Other-Hi Lim.	9.	8	0	0.00	3	0	0.00	5	0	0.00						
	Other-Lo Lim.	6.5	8	3	0.38	3	3	1.00	5	0	0.00						
00615 NITRITE NITROGEN, TOTAL AS N	Drinking Water	1.	9	0	0.00	4	0	0.00	5	0	0.00						
00620 NITRATE NITROGEN, TOTAL AS N	Drinking Water	10.	9	0	0.00	4	0	0.00	5	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	9	0	0.00	4	0	0.00	5	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	9	0	0.00	4	0	0.00	5	0	0.00						
31501 COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	9	1	0.11	4	0	0.00	5	1	0.20						
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	1	0.11	4	0	0.00	5	1	0.20						

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

Station Inventory for Station: GRSM0106

NPS Station ID: GRSM0106 LAT/LON: 35.559726/ -83.246949 Agency: 12NSS Date Created: 10/22/88
Location: BUNCHES CREEK FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 2A07818L /2AS2A07818L
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 731 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 18.90 On/Off RF1:
RF3 Index: 06010203004305.14 RF3 Mile Point: 5.74 Distance from RF3: 0.06 On/Off RF3:
Description:
THESE DATA WERE COLLECTED DURING PHASE I OF THE NATIONAL STREAM SURVEY AS PART OF EPA'S NATIONAL SURFACE WATER SURVEY AND AQUATIC EFFECTS RESEARCH PROGRAM UNDER THE NATIONAL ACID PRECIPITATION ASSESSMENT PROGRAM. THE SURVEY DESIGN, METHODS, AND DATA LIMITAITONS ARE DESCRIBED IN:

Parameter Inventory for Station: GRSM0106

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/25/85-07/16/85	4	9.15	10.325	18.	5.	33.689	5.804	**	**	**	**
00064	DEPTH OF STREAM, MEAN (FT)	03/25/85-07/16/85	4	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00080	COLOR (PLATINUM-COBALT UNITS)	03/25/85-07/16/85	4	12.5	12.5	15.	10.	8.333	2.887	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/25/85-07/16/85	4	15.	15.25	17.	14.	1.583	1.258	**	**	**	**
00299	OXYGEN ,DISSOLVED, ANALYSIS BY PROBE MG/L	03/25/85-07/16/85	4	10.7	10.25	11.6	8.	2.97	1.723	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	03/25/85-07/16/85	4	6.8	6.8	7.1	6.5	0.06	0.245	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	03/25/85-07/16/85	4	6.8	6.749	7.1	6.5	0.063	0.252	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/25/85-07/16/85	4	0.158	0.178	0.316	0.079	0.01	0.099	**	**	**	**
00409	ALKALINITY,TOTAL,LOW LEVEL GRAN ANALYSIS UEQ/L	03/25/85-07/16/85	4	91.7	96.05	117.7	83.1	231.583	15.218	**	**	**	**
00440	BICARBONATE ION (MG/L AS HCO3)	03/25/85-07/16/85	4	4.	4.25	5.	4.	0.25	0.5	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	03/25/85-07/16/85	4	0.013	0.013	0.019	0.007	0.	0.005	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/25/85-07/16/85	4	0.6	0.65	0.8	0.6	0.01	0.1	**	**	**	**
00691	CARBON, DISSOLVED INORGANIC (MG/L AS C)	03/25/85-07/16/85	4	1.25	1.225	1.4	1.	0.029	0.171	**	**	**	**
00915	CALCIUM, DISSOLVED (MG/L AS CA)	03/25/85-07/16/85	4	1.	1.	1.1	0.9	0.007	0.082	**	**	**	**
00925	MAGNESIUM, DISSOLVED (MG/L AS MG)	03/25/85-07/16/85	4	0.3	0.325	0.4	0.3	0.003	0.05	**	**	**	**
00930	SODIUM, DISSOLVED (MG/L AS NA)	03/25/85-07/16/85	4	1.11	1.138	1.26	1.07	0.008	0.09	**	**	**	**
00935	POTASSIUM, DISSOLVED (MG/L AS K)	03/25/85-07/16/85	4	0.54	0.55	0.62	0.5	0.003	0.056	**	**	**	**
00941	CHLORIDE, DISSOLVED IN WATER MG/L	03/25/85-07/16/85	4	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00946	SULFATE, DISSOLVED (MG/L AS SO4)	03/25/85-07/16/85	4	1.15	1.125	1.2	1.	0.009	0.096	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	03/25/85-07/16/85	4	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	03/25/85-07/16/85	4	8.55	8.35	8.9	7.4	0.47	0.686	**	**	**	**
01056	MANGANESE, DISSOLVED (UG/L AS MN)	03/25/85-07/16/85	4	1.5	1.75	4.	0.	4.25	2.062	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	03/25/85-07/16/85	4	86.	88.	124.	56.	1042.667	32.29	**	**	**	**
71851	NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	03/25/85-07/16/85	4	0.85	0.825	0.9	0.7	0.009	0.096	**	**	**	**
71885	IRON (UG/L AS FE)	03/25/85-07/16/85	4	9.49	9.243	15.99	2.	32.868	5.733	**	**	**	**
72020	ELEVATION IN FEET ABOVE MEAN SEA LEVEL	03/25/85-07/16/85	4	2400.	2400.	2400.	2400.	0.	0.	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	03/25/85-07/16/85	4	1.35	1.8	3.7	0.8	1.807	1.344	**	**	**	**
83509	STREAM, WIDTH METER	03/25/85-07/16/85	4	8.8	8.8	8.8	8.8	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0106

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00299 OXYGEN, DISSOLVED, ANALYSIS BY PROBE	Fresh Acute	4.	4	0	0.00	1	0	0.00	3	0	0.00						
00403 PH, LAB	Other-Hi Lim.	9.	4	0	0.00	1	0	0.00	3	0	0.00						
	Other-Lo Lim.	6.5	4	1	0.25	1	1	1.00	3	0	0.00						
00409 ALKALINITY, TOTAL, LOW LEVEL GRAN ANALYS	Other-Lo Lim.	200.	4	4	1.00	1	1	1.00	3	3	1.00						
00941 CHLORIDE, DISSOLVED IN WATER	Fresh Acute	860.	4	0	0.00	1	0	0.00	3	0	0.00						
00946 SULFATE, DISSOLVED (AS SO4)	Drinking Water	400.	4	0	0.00	1	0	0.00	3	0	0.00						
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	4	0	0.00	1	0	0.00	3	0	0.00						
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	4	0	0.00	1	0	0.00	3	0	0.00						

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

Station Inventory for Station: GRSM0107

NPS Station ID: GRSM0107 LAT/LON: 35.563059/ -83.847226 Agency: 112WRD Date Created: / /
Location: FORGE CREEK NEAR CADES COVE, TENN FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 03518110
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010204004100.00 RF3 Mile Point: 0.00 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0107

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY	CFS	09/24/68-09/24/68	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)		09/24/68-09/24/68	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)		09/24/68-09/24/68	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		09/24/68-09/24/68	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		09/24/68-09/24/68	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		09/24/68-09/24/68	1	2.512	2.512	2.512	2.512	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		09/24/68-09/24/68	1	7.	7.	7.	7.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)		09/24/68-09/24/68	1	8.	8.	8.	8.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)		09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)		09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		09/24/68-09/24/68	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)		09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)		09/24/68-09/24/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		09/24/68-09/24/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)		09/24/68-09/24/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO		09/24/68-09/24/68	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00932 SODIUM, PERCENT		09/24/68-09/24/68	1	34.	34.	34.	34.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)		09/24/68-09/24/68	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	09/24/68-09/24/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		09/24/68-09/24/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)		09/24/68-09/24/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SIO2)		09/24/68-09/24/68	1	7.1	7.1	7.1	7.1	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)		09/24/68-09/24/68	1	60.	60.	60.	60.	0.	0.	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L		09/24/68-09/24/68	1	28.	28.	28.	28.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)		09/24/68-09/24/68	1	17.	17.	17.	17.	0.	0.	**	**	**	**
70302 SOLIDS, DISSOLVED-TONS PER DAY		09/24/68-09/24/68	1	0.21	0.21	0.21	0.21	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT		09/24/68-09/24/68	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)		09/24/68-09/24/68	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0107

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0108

NPS Station ID: GRSM0108 LAT/LON: 35.565281/ -83.245837 Agency: 131TVAC Date Created: 04/17/82
Location: TRIBUTARY TO RAVEN FORK 7.43
Station Type: /TYPA/AMBNT/STREAM
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
STORET Station ID(s): 370040
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0180
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 07.43 00.23
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: BUNCHES CREEK 0.23 ECO Region:
RF1 Index: 06010203034 RF1 Mile Point: 0.310 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203003304.22 RF3 Mile Point: 4.64 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0108

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	03/26/82-03/26/82	1	7.2	7.2	7.2	7.2	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	03/26/82-03/26/82	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	03/26/82-03/26/82	1	10.2	10.2	10.2	10.2	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	03/26/82-03/26/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	03/26/82-03/26/82	1	6.1	6.1	6.1	6.1	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/82-03/26/82	1	0.794	0.794	0.794	0.794	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	03/26/82-03/26/82	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	03/26/82-03/26/82	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	03/26/82-03/26/82	1	1.259	1.259	1.259	1.259	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	03/26/82-03/26/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	03/26/82-03/26/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	03/26/82-03/26/82	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	03/26/82-03/26/82	1##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	2.1	2.1	2.1	2.1	0.	0.	**	**	**	**
00681 CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	0.8	0.8	0.8	0.8	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	03/26/82-03/26/82	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	03/26/82-03/26/82	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)	03/26/82-03/26/82	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	03/26/82-03/26/82	1	0.49	0.49	0.49	0.49	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	03/26/82-03/26/82	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	03/26/82-03/26/82	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	1##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	1	3.6	3.6	3.6	3.6	0.	0.	**	**	**	**
00956 SILICA, TOTAL (MG/L AS SI02)	03/26/82-03/26/82	1	3.9	3.9	3.9	3.9	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	1	46.	46.	46.	46.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	03/26/82-03/26/82	1	210.	210.	210.	210.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	03/26/82-03/26/82	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	03/26/82-03/26/82	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	03/26/82-03/26/82	1	210.	210.	210.	210.	0.	0.	**	**	**	**
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023 ACIDS, STRONG	03/26/82-03/26/82	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024 ACIDS, WEAK	03/26/82-03/26/82	1	50.	50.	50.	50.	0.	0.	**	**	**	**
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	03/26/82-03/26/82	1	5.	5.	5.	5.	0.	0.	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	03/26/82-03/26/82	1	10.	10.	10.	10.	0.	0.	**	**	**	**
71845 NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0108

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900 MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0108

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400 PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									
01042 COPPER, TOTAL	Fresh Acute	18.	1	1	1.00	1	1	1.00									
	Drinking Water	1300.	1	0	0.00	1	0	0.00									
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0109

NPS Station ID: GRSM0109 LAT/LON: 35.566670/ -83.333338 Agency: 21NC01WQ Date Created: 05/16/77
Location: OCONALUFTEE R @US441 NR SMOKEMONT INACT-750224 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): G8000000 /LTN027A
RMI-Indexes:
RMI-Miles:
HUC: 06010203 Depth of Water: 999 Aquifer:
Major Basin: SOUTHEAST Elevation: 0 Water Body Id:
Minor Basin: LITTLE TENNESSEE RIVER ECO Region:
RF1 Index: 06010203 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010202000100.56 RF3 Mile Point: 0.56 Distance from RF3: 0.05 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0109

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/13/74-02/24/75	10	16.	12.95	18.	4.	24.358	4.935	4.4	8.75	16.375	17.95
00076 TURBIDITY,HACH TURBIDIMETER (FORMAZIN TURB UNIT)	08/19/74-11/19/74	3	1.5	3.2	6.9	1.2	10.29	3.208	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/18/74-02/24/75	6	26.5	26.	31.	21.	13.6	3.688	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/13/74-02/24/75	10	9.15	10.09	14.	8.8	2.928	1.711	8.8	8.875	11.275	13.75
00301 OXYGEN, DISSOLVED, PERCENT OF SATURATION %	08/13/74-02/24/75	8	93.	94.5	107.	90.	34.571	5.88	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C MG/L	08/13/74-02/24/75	9	0.6	0.667	1.5	0.2	0.138	0.371	0.2	0.45	0.8	1.5
00340 COD, .25N K2CR2O7 MG/L	01/29/75-01/29/75	1##	12.5	12.5	12.5	12.5	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	08/13/74-02/24/75	10	6.5	6.51	7.1	6.2	0.088	0.296	6.2	6.2	6.7	7.06
00400 CONVERTED PH (STANDARD UNITS)	08/13/74-02/24/75	10	6.5	6.431	7.1	6.2	0.095	0.307	6.2	6.2	6.7	7.06
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/13/74-02/24/75	10	0.316	0.37	0.631	0.079	0.044	0.211	0.091	0.2	0.631	0.631
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	08/13/74-02/24/75	10	4.	4.2	6.	3.	0.844	0.919	3.	3.75	5.	5.9
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/13/74-01/29/75	5	0.	0.	0.	0.	0.	0.	**	**	**	**
00500 RESIDUE, TOTAL (MG/L)	08/13/74-02/24/75	8	14.	19.625	47.	3.	239.125	15.464	**	**	**	**
00505 RESIDUE, TOTAL VOLATILE (MG/L)	08/13/74-02/24/75	8	5.	8.5	31.	2.	93.714	9.681	**	**	**	**
00510 RESIDUE, TOTAL FIXED (MG/L)	08/13/74-02/24/75	8	7.5	11.125	34.	0.	114.411	10.696	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	08/13/74-02/24/75	8	2.	3.125	8.	0.	7.268	2.696	**	**	**	**
00535 RESIDUE, VOLATILE NONFILTRABLE (MG/L)	08/13/74-02/24/75	8	2.	1.75	4.	0.	1.357	1.165	**	**	**	**
00540 RESIDUE, FIXED NONFILTRABLE (MG/L)	08/13/74-02/24/75	7	0.	1.286	6.	0.	4.905	2.215	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/18/74-02/24/75	3##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00625 NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	08/18/74-02/24/75	4	0.15	0.138	0.2	0.05	0.006	0.075	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	08/18/74-02/24/75	4	0.205	0.215	0.28	0.17	0.003	0.051	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	01/29/75-02/24/75	2##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)	08/18/74-02/24/75	4##	0.025	0.025	0.025	0.025	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	01/29/75-01/29/75	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
31616 FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	9##	5.	17.222	80.	5.	619.444	24.889	5.	5.	20.	80.
31616 LOG FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C	08/13/74-02/24/75	9##	0.699	0.986	1.903	0.699	0.187	0.432	0.699	0.699	1.239	1.903
31616 GM FECAL COLIFORM,MEMBR FILTER,M-FC BROTH,44.5 C		GEOMETRIC MEAN =		9.685								
70305 SALINITY BASED ON CONDUCTIVITY	08/18/74-08/19/74	2	0.45	0.45	0.5	0.4	0.005	0.071	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0109

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00076 TURBIDITY, HACH TURBIDIMETER	Other-Hi Lim.	50.	3	0	0.00	1	0	0.00	2	0	0.00						
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	10	0	0.00	4	0	0.00	6	0	0.00						
00400 PH	Other-Hi Lim.	9.	10	0	0.00	4	0	0.00	6	0	0.00						
	Other-Lo Lim.	6.5	10	6	0.60	4	4	1.00	6	2	0.33						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	4	0	0.00	3	0	0.00	1	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
31616 FECAL COLIFORM, MEMBRANE FILTER, BROTH	Other-Hi Lim.	200.	9	0	0.00	3	0	0.00	6	0	0.00						

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

Station Inventory for Station: GRSM0110

NPS Station ID: GRSM0110 LAT/LON: 35.566948/ -83.243892 Agency: 131TVAC Date Created: 12/12/81
Location: TRIBUTARY TO RAVEN FORK 8.38
Station Type: /TYPA/AMBNT/STREAM FIPS State/County: 37173 NORTH CAROLINA/SWAIN
STORET Station ID(s): 370022
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0200
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 08.38 00.09
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: STRAIGHT FORK 0.09 ECO Region:
RF1 Index: 06010203034 RF1 Mile Point: 0.200 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203003401.82 RF3 Mile Point: 2.04 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0110

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/81-03/26/82	3	6.9	7.233	8.	6.8	0.443	0.666	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/12/81-03/26/82	3	12.	13.	17.	10.	13.	3.606	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	12/02/81-03/26/82	2	11.8	11.8	12.7	10.9	1.62	1.273	**	**	**	**
00400 PH (STANDARD UNITS)	11/12/81-03/26/82	3	5.9	5.833	6.	5.6	0.043	0.208	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	11/12/81-03/26/82	3	5.9	5.799	6.	5.6	0.045	0.212	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/81-03/26/82	3	1.259	1.59	2.512	1.	0.654	0.809	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	11/12/81-03/26/82	3	6.	6.	6.4	5.6	0.16	0.4	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	11/12/81-03/26/82	3	6.	5.885	6.4	5.6	0.18	0.424	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/81-03/26/82	3	1.	1.303	2.512	0.398	1.186	1.089	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	11/12/81-03/26/82	3	1.	1.5	3.	0.5	1.75	1.323	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/12/81-03/26/82	3	0.	0.	0.	0.	0.	0.	**	**	**	**
00435 ACIDITY, TOTAL (MG/L AS CACO3)	11/12/81-12/02/81	2	3.5	3.5	4.	3.	0.5	0.707	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/12/81-03/26/82	3##	0.5	20.	59.	0.5	1140.75	33.775	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	03/26/82-03/26/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS P04)	03/26/82-03/26/82	1##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00681 CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-03/26/82	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	11/12/81-03/26/82	3	1.2	1.733	3.	1.	1.213	1.102	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	11/12/81-03/26/82	3	0.3	0.3	0.4	0.2	0.01	0.1	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)	11/12/81-03/26/82	3	0.89	0.863	0.9	0.8	0.003	0.055	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	11/12/81-03/26/82	3	0.46	0.463	0.54	0.39	0.006	0.075	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	11/12/81-03/26/82	3##	0.5	0.467	0.5	0.4	0.003	0.058	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	12/02/81-03/26/82	2	1.5	1.5	2.	1.	0.5	0.707	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	03/26/82-03/26/82	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-03/26/82	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
00956 SILICA, TOTAL (MG/L AS SI02)	03/26/82-03/26/82	1	2.8	2.8	2.8	2.8	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	03/26/82-03/26/82	1	32.	32.	32.	32.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	11/12/81-03/26/82	3	82.	116.	216.	50.	7756.	88.068	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	11/12/81-03/26/82	3##	5.	4.167	5.	2.5	2.083	1.443	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	03/26/82-03/26/82	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	11/12/81-03/26/82	3	8.	7.333	9.	5.	4.333	2.082	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	11/12/81-03/26/82	3	80.	71.667	110.	25.	1858.333	43.108	**	**	**	**
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-03/26/82	1##	25.	25.	25.	25.	0.	0.	**	**	**	**
32023 ACIDS, STRONG	03/26/82-03/26/82	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024 ACIDS, WEAK	03/26/82-03/26/82	1	50.	50.	50.	50.	0.	0.	**	**	**	**
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	11/12/81-03/26/82	3	4.	5.333	9.	3.	10.333	3.215	**	**	**	**
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/12/81-03/26/82	3	20.	23.333	40.	10.	233.333	15.275	**	**	**	**
70508 ACIDITY, TOTAL, HOT (MG/L AS CACO3)	12/02/81-12/02/81	1	11.	11.	11.	11.	0.	0.	**	**	**	**

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

Parameter Inventory for Station: GRSM0110

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71845 NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/26/82-03/26/82	1	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/26/82-03/26/82	1	1.4	1.4	1.4	1.4	0.	0.	**	**	**	**
71900 MERCURY, TOTAL (UG/L AS HG)	03/26/82-03/26/82	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0110

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	2	0	0.00	2	0	0.00									
00400 PH	Other-Hi Lim.	9.	3	0	0.00	3	0	0.00									
	Other-Lo Lim.	6.5	3	3	1.00	3	3	1.00									
00403 PH, LAB	Other-Hi Lim.	9.	3	0	0.00	3	0	0.00									
	Other-Lo Lim.	6.5	3	3	1.00	3	3	1.00									
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	3	0	0.00	3	0	0.00									
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	2	0	0.00	2	0	0.00									
01042 COPPER, TOTAL	Fresh Acute	18.	1	1	1.00	1	1	1.00									
	Drinking Water	1300.	1	0	0.00	1	0	0.00									
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01092 ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	3	0	0.00									
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									

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

Station Inventory for Station: GRSM0111

NPS Station ID: GRSM0111 LAT/LON: 35.581392/ -83.264448
Location: TRIBUTARY TO OCONOLUFTEE RIVER 10.26
Station Type: /TYPA/AMBNT/STREAM
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 10.14
HUC: 06010203 Depth of Water: 0
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0
Minor Basin: DIVERSION DITCH ADJ. TO RAVEN FORK 10.14
RF1 Index: 06010203034 RF1 Mile Point: 1.980
RF3 Index: 06010203005000.00 RF3 Mile Point: 0.48
Description:

Agency: 131TVAC Date Created: 01/09/82
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
STORET Station ID(s): 370028

Aquifer:
Water Body Id:
ECO Region:
Distance from RF1: 6.40 On/Off RF1: OFF
Distance from RF3: 0.02 On/Off RF3:

Parameter Inventory for Station: GRSM0111

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/29/82-07/29/82	1	14.	14.	14.	14.	0.	0.	**	**	**	**
00400	PH (STANDARD UNITS)	07/29/82-07/29/82	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	07/29/82-07/29/82	1	5.5	5.5	5.5	5.5	0.	0.	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/82-07/29/82	1	3.162	3.162	3.162	3.162	0.	0.	**	**	**	**
00403	PH, LAB, STANDARD UNITS SU	07/29/82-07/29/82	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00403	CONVERTED PH, LAB, STANDARD UNITS	07/29/82-07/29/82	1	5.8	5.8	5.8	5.8	0.	0.	**	**	**	**
00403	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/29/82-07/29/82	1	1.585	1.585	1.585	1.585	0.	0.	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	07/29/82-07/29/82	1	0.09	0.09	0.09	0.09	0.	0.	**	**	**	**
00650	PHOSPHATE, TOTAL (MG/L AS PO4)	07/29/82-07/29/82	1##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680	CARBON, TOTAL ORGANIC (MG/L AS C)	07/29/82-07/29/82	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00681	CARBON, DISSOLVED ORGANIC (MG/L AS C)	07/29/82-07/29/82	1	4.6	4.6	4.6	4.6	0.	0.	**	**	**	**
00916	CALCIUM, TOTAL (MG/L AS CA)	12/01/81-12/01/81	3	1.4	2.933	6.1	1.3	7.523	2.743	**	**	**	**
00927	MAGNESIUM, TOTAL (MG/L AS MG)	12/01/81-12/01/81	3	0.4	0.367	0.4	0.3	0.003	0.058	**	**	**	**
00929	SODIUM, TOTAL (MG/L AS NA)	12/01/81-12/01/81	3	0.72	3.923	10.5	0.55	32.447	5.696	**	**	**	**
00937	POTASSIUM, TOTAL MG/L AS K)	12/01/81-12/01/81	3	0.68	0.67	0.78	0.55	0.013	0.115	**	**	**	**
00940	CHLORIDE,TOTAL IN WATER MG/L	07/29/82-07/29/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00945	SULFATE, TOTAL (MG/L AS SO4)	07/29/82-07/29/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950	FLUORIDE, DISSOLVED (MG/L AS F)	07/29/82-07/29/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00955	SILICA, DISSOLVED (MG/L AS SI02)	07/29/82-07/29/82	1	1.1	1.1	1.1	1.1	0.	0.	**	**	**	**
00956	SILICA, TOTAL (MG/L AS SI02)	07/29/82-07/29/82	1	1.5	1.5	1.5	1.5	0.	0.	**	**	**	**
01045	IRON, TOTAL (UG/L AS FE)	12/01/81-12/01/81	3	237.	181.	240.	66.	9921.	99.604	**	**	**	**
01055	MANGANESE, TOTAL (UG/L AS MN)	12/01/81-12/01/81	3	51.	41.667	53.	21.	321.333	17.926	**	**	**	**
01092	ZINC, TOTAL (UG/L AS ZN)	12/01/81-12/01/81	3	11.	10.333	15.	5.	25.333	5.033	**	**	**	**
01105	ALUMINUM, TOTAL (UG/L AS AL)	12/01/81-07/29/82	4	465.	420.	580.	170.	35533.333	188.503	**	**	**	**
01106	ALUMINUM, DISSOLVED (UG/L AS AL)	07/29/82-07/29/82	1	190.	190.	190.	190.	0.	0.	**	**	**	**
32023	ACIDS, STRONG	07/29/82-07/29/82	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024	ACIDS, WEAK	07/29/82-07/29/82	1	50.	50.	50.	50.	0.	0.	**	**	**	**
46570	HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	12/01/81-12/01/81	3	5.	9.	17.	5.	48.	6.928	**	**	**	**
71845	NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	07/29/82-07/29/82	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
71850	NITRATE NITROGEN,TOTAL (MG/L AS NO3)	07/29/82-07/29/82	1	2.6	2.6	2.6	2.6	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0111

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	3	0	0.00	3	0	0.00									
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0112

NPS Station ID: GRSM0112 LAT/LON: 35.584171/ -83.265004 Agency: 131TVAC Date Created: 12/12/81
Location: TRIBUTARY TO OCONALUFTEE RIVER 10.26
FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 370021
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 10.45
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: RAVEN FORK 10.45 ECO Region:
RF1 Index: 06010203034 RF1 Mile Point: 2.130 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203005000.00 RF3 Mile Point: 0.17 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0112

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/12/81-08/01/82	36	8.2	10.108	20.9	0.	27.177	5.213	5.73	7.	13.95	20.22
00061 FLOW, STREAM, INSTANTANEOUS CFS	11/30/81-08/02/82	328	161.5	232.604	1763.	28.	64284.619	253.544	51.9	72.	234.	571.3
00065 STAGE, STREAM (FEET)	11/30/81-08/02/82	328	1.605	1.671	4.19	0.92	0.282	0.531	1.129	1.25	1.81	2.422
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	11/12/81-06/21/82	13	14.	14.231	19.	10.	5.026	2.242	10.8	14.	14.	18.6
00123 PRECIPITATION,CUMULATIVE AT GIVEN TIME,LOC.1(IN)	11/30/81-08/02/82	328	0.	0.045	1.85	0.	0.032	0.179	0.	0.	0.	0.11
00134 STORM EVENT SERIAL NUMBER MAXIMUM OF 6 SIG.FIG.	11/30/81-03/19/82	86	4.	3.698	6.	1.	3.743	1.935	1.	2.	6.	6.
00300 OXYGEN, DISSOLVED MG/L	12/01/81-06/21/82	6	11.65	11.65	14.2	9.8	2.599	1.612	**	**	**	**
00400 PH (STANDARD UNITS)	11/12/81-08/01/82	135	4.6	4.707	6.1	3.5	0.423	0.65	3.9	4.2	5.3	5.6
00400 CONVERTED PH (STANDARD UNITS)	11/12/81-08/01/82	135	4.6	4.326	6.1	3.5	0.569	0.754	3.9	4.2	5.3	5.6
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/81-08/01/82	135	25.119	47.165	316.228	0.794	3759.501	61.315	2.512	5.012	63.096	125.893
00403 PH, LAB, STANDARD UNITS SU	11/12/81-08/01/82	149	4.9	5.006	6.5	4.3	0.205	0.453	4.5	4.7	5.2	5.7
00403 CONVERTED PH, LAB, STANDARD UNITS	11/12/81-08/01/82	149	4.9	4.838	6.5	4.3	0.233	0.483	4.5	4.7	5.2	5.7
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/12/81-08/01/82	149	12.589	14.505	50.119	0.316	111.454	10.557	1.995	6.31	19.953	31.623
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	11/12/81-06/21/82	96	1.	0.99	4.	0.	0.505	0.711	0.	0.5	1.	2.
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	11/12/81-06/21/82	96	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
00435 ACIDITY, TOTAL (MG/L AS CACO3)	11/12/81-12/02/81	2	4.	4.	5.	3.	2.	1.414	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)	11/12/81-06/21/82	96	3.	5.906	76.	0.5	128.149	11.32	0.5	1.	6.	12.3
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	01/21/82-08/01/82	114	0.035	0.074	0.64	0.005	0.01	0.098	0.005	0.01	0.1	0.185
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	01/21/82-01/23/82	23	0.74	0.748	1.1	0.53	0.017	0.129	0.614	0.66	0.83	0.9
00650 PHOSPHATE, TOTAL (MG/L AS P04)	03/17/82-08/01/82	91##	0.02	0.024	0.2	0.02	0.	0.022	0.02	0.02	0.02	0.02
00665 PHOSPHORUS, TOTAL (MG/L AS P)	01/21/82-01/23/82	23	0.05	0.05	0.12	0.005	0.001	0.035	0.005	0.02	0.07	0.1
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	03/26/82-08/01/82	64	7.1	8.413	45.	1.6	46.468	6.817	2.45	5.725	9.3	13.5
00681 CARBON, DISSOLVED ORGANIC (MG/L AS C)	03/26/82-08/01/82	64	4.75	4.633	8.	0.9	3.127	1.768	1.95	3.625	5.7	7.25
00916 CALCIUM, TOTAL (MG/L AS CA)	11/12/81-08/01/82	130	1.1	1.192	9.2	0.8	0.542	0.736	0.9	1.	1.2	1.39
00927 MAGNESIUM, TOTAL (MG/L AS MG)	11/12/81-08/01/82	130	0.3	0.343	0.7	0.2	0.006	0.079	0.3	0.3	0.4	0.4
00929 SODIUM, TOTAL (MG/L AS NA)	11/12/81-08/01/82	130	0.67	0.701	1.6	0.36	0.034	0.185	0.56	0.61	0.72	0.896
00937 POTASSIUM, TOTAL MG/L AS K)	11/12/81-08/01/82	130	0.465	0.497	0.92	0.39	0.009	0.096	0.421	0.44	0.52	0.589
00940 CHLORIDE,TOTAL IN WATER MG/L	11/12/81-08/01/82	126	0.5	0.487	1.	0.2	0.012	0.111	0.4	0.4	0.5	0.6
00945 SULFATE, TOTAL (MG/L AS SO4)	11/30/81-08/01/82	140	2.	2.025	4.	0.5	0.48	0.693	1.	2.	2.	3.
00950 FLUORIDE, DISSOLVED (MG/L AS F)	03/17/82-08/01/82	91	0.04	0.094	1.2	0.02	0.022	0.147	0.02	0.03	0.11	0.2
00955 SILICA, DISSOLVED (MG/L AS SI02)	03/26/82-08/01/82	64	1.5	1.577	2.5	0.8	0.171	0.414	1.05	1.3	1.9	2.2
00956 SILICA, TOTAL (MG/L AS SI02)	03/26/82-08/01/82	71	1.6	1.797	3.6	0.9	0.298	0.546	1.2	1.4	2.2	2.5
01042 COPPER, TOTAL (UG/L AS CU)	03/26/82-06/21/82	12	20.	17.833	30.	10.	53.97	7.346	10.	10.	20.75	30.
01045 IRON, TOTAL (UG/L AS FE)	11/12/81-06/21/82	101	160.	318.604	2800.	44.	208989.342	457.154	96.	120.	349.	545.4
01055 MANGANESE, TOTAL (UG/L AS MN)	11/12/81-06/21/82	101	22.	39.124	530.	2.5	4403.497	66.359	8.	13.	40.	62.2
01067 NICKEL, TOTAL (UG/L AS NI)	03/26/82-06/21/82	12##	0.5	1.917	9.	0.5	10.947	3.309	0.5	0.5	0.5	9.
01092 ZINC, TOTAL (UG/L AS ZN)	11/12/81-06/21/82	47	8.	21.191	300.	5.	2401.897	49.009	5.	5.	16.	30.
01105 ALUMINUM, TOTAL (UG/L AS AL)	11/12/81-08/01/82	160	365.	476.813	2900.	50.	187153.927	432.613	141.	242.5	520.	887.

** - Less than 9 observations ## - 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: GRSM0112

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	03/26/82-08/01/82	64	190.	202.109	430.	25.	6888.734	82.998	130.	142.5	257.5	310.
32023 ACIDS, STRONG	01/21/82-08/01/82	114	20.	14.912	70.	5.	116.806	10.808	5.	5.	20.	30.
32024 ACIDS, WEAK	01/21/82-08/01/82	114	80.	80.526	150.	40.	504.145	22.453	50.	70.	100.	110.
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	11/12/81-08/01/82	130	4.	4.354	26.	3.	4.184	2.045	3.	4.	5.	5.
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	11/12/81-06/21/82	96	20.	18.073	50.	5.	86.51	9.301	5.	10.	20.	30.
70508 ACIDITY, TOTAL, HOT (MG/L AS CACO3)	11/30/81-01/03/82	34	9.5	9.765	34.	0.5	41.322	6.428	2.	5.75	13.	15.5
71845 NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	03/17/82-08/01/82	91	0.06	0.114	0.8	0.005	0.019	0.137	0.005	0.03	0.2	0.3
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	03/17/82-08/01/82	91	3.5	3.582	5.7	1.4	0.633	0.796	2.72	3.1	3.9	4.8
71900 MERCURY, TOTAL (UG/L AS HG)	03/26/82-06/21/82	12##	0.1	0.1	0.1	0.1	0.	0.	0.1	0.1	0.1	0.1

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

EPA Water Quality Criteria Analysis for Station: GRSM0112

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	6	0	0.00	4	0	0.00	2	0	0.00						
00400 PH	Other-Hi Lim.	9.	135	0	0.00	80	0	0.00	55	0	0.00						
	Other-Lo Lim.	6.5	135	135	1.00	80	80	1.00	55	55	1.00						
00403 PH, LAB	Other-Hi Lim.	9.	149	0	0.00	86	0	0.00	63	0	0.00						
	Other-Lo Lim.	6.5	149	149	1.00	86	86	1.00	63	63	1.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	23	0	0.00	23	0	0.00									
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	126	0	0.00	63	0	0.00	63	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	140	0	0.00	77	0	0.00	63	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	12	7	0.58	1	1	1.00	11	6	0.55						
	Drinking Water	1300.	12	0	0.00	1	0	0.00	11	0	0.00						
01067 NICKEL, TOTAL	Fresh Acute	1400.	12	0	0.00	1	0	0.00	11	0	0.00						
	Drinking Water	100.	12	0	0.00	1	0	0.00	11	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	47	2	0.04	36	0	0.00	11	2	0.18						
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	91	0	0.00	28	0	0.00	63	0	0.00						
71900 MERCURY, TOTAL	Fresh Acute	2.4	12	0	0.00	1	0	0.00	11	0	0.00						
	Drinking Water	2.	12	0	0.00	1	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: GRSM0113

NPS Station ID: GRSM0113 LAT/LON: 35.584171/ -83.265004 Agency: 131TVAC Date Created: 01/23/82
Location: TRIBUTARY TO OCONALUFTEE RIVER 10.26 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 370029
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 10.45
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: RAVEN FORK 10.45 HYDROLAB STATION ECO Region:
RF1 Index: 06010203034 RF1 Mile Point: 2.130 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203003401.22 RF3 Mile Point: 1.22 Distance from RF3: 0.01 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0113

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12/02/81-10/20/82	513	9.8	10.088	15.9	0.1	10.704	3.272	7.	8.3	13.1	14.
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	12/02/81-10/20/82	513	10.	10.585	26.	3.	9.903	3.147	9.	9.	11.	12.
00300	OXYGEN, DISSOLVED MG/L	12/02/81-10/20/82	513	10.7	10.731	14.2	7.2	0.955	0.977	9.7	9.9	11.2	11.7
00400	PH (STANDARD UNITS)	12/02/81-10/20/82	512	5.425	5.324	6.5	4.06	0.17	0.412	4.71	5.113	5.578	5.71
00400	CONVERTED PH (STANDARD UNITS)	12/02/81-10/20/82	512	5.425	5.086	6.5	4.06	0.227	0.476	4.71	5.113	5.577	5.71
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	12/02/81-10/20/82	512	3.759	8.195	87.096	0.316	147.399	12.141	1.95	2.646	7.718	19.498

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

EPA Water Quality Criteria Analysis for Station: GRSM0113

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	513	0	0.00	513	0	0.00									
00400 PH	Other-Hi Lim.	9.	512	0	0.00	512	0	0.00									
	Other-Lo Lim.	6.5	512	512	1.00	512	512	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: GRSM0114

NPS Station ID: GRSM0114 LAT/LON: 35.584171/ -83.838059 Agency: 131TVAC Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 477628
RMI-Indexes: 1021500 007720 00920 8540 1930 0320
RMI-Miles: 0953.80 0046.50 601.10 037.00 015.79 002.15
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: MILL CREEK 2.15 ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010201002800.00 RF3 Mile Point: 2.05 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0114

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		11/16/93-04/13/94	5	6.4	8.28	13.3	4.5	18.807	4.337	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/15/93-04/13/94	6	10.	15.783	56.	0.7	412.362	20.307	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/16/93-04/13/94	5	8.	8.4	11.	6.	4.3	2.074	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	11/16/93-04/13/94	5	10.5	10.64	12.	9.8	0.813	0.902	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C	MG/L	09/15/93-04/13/94	6##	1.	1.	1.	1.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)		11/16/93-04/13/94	5	6.4	6.34	6.6	6.1	0.053	0.23	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		11/16/93-04/13/94	5	6.4	6.292	6.6	6.1	0.056	0.236	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/16/93-04/13/94	5	0.398	0.511	0.794	0.251	0.07	0.264	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		09/15/93-04/13/94	6	4.	4.333	6.	4.	0.667	0.816	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		09/15/93-04/13/94	6##	1.25	2.083	6.	0.5	4.742	2.178	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		09/15/93-04/13/94	6	0.02	0.022	0.05	0.01	0.	0.015	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		09/15/93-04/13/94	6	0.14	0.121	0.16	0.005	0.004	0.06	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		09/15/93-04/13/94	6	0.006	0.009	0.02	0.004	0.	0.006	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		09/15/93-04/13/94	6	3.5	4.167	8.	2.	5.767	2.401	**	**	**	**
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		09/15/93-06/15/94	7	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: GRSM0114

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00	4	0	0.00	1	0	0.00						
00400 PH	Other-Hi Lim.	9.	5	0	0.00	4	0	0.00	1	0	0.00						
	Other-Lo Lim.	6.5	5	4	0.80	4	3	0.75	1	1	1.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00	4	0	0.00	2	0	0.00						
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	7	0	0.00	4	0	0.00	3	0	0.00						

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

Station Inventory for Station: GRSM0115

NPS Station ID: GRSM0115 LAT/LON: 35.585559/ -83.237227 Agency: 131TVAC Date Created: 08/28/82
Location: TRIBUTARY TO RAVEN FORK 8.38 FIPS State/County: 37173 NORTH CAROLINA/SWAIN
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 370046
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0200
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 08.38 01.60
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: STRAIGHT FORK 1.60 ECO Region:
RF1 Index: 06010203033 RF1 Mile Point: 1.600 Distance from RF1: 5.10 On/Off RF1: OFF
RF3 Index: 06010203041200.00 RF3 Mile Point: 0.93 Distance from RF3: 0.41 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0115

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)	08/11/82-08/11/82	1	15.7	15.7	15.7	15.7	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	08/11/82-08/11/82	1	15.	15.	15.	15.	0.	0.	**	**	**	**
00300 OXYGEN, DISSOLVED MG/L	08/11/82-08/11/82	1	9.2	9.2	9.2	9.2	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	08/11/82-08/11/82	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	08/11/82-08/11/82	1	5.3	5.3	5.3	5.3	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/11/82-08/11/82	1	5.012	5.012	5.012	5.012	0.	0.	**	**	**	**
00403 PH, LAB, STANDARD UNITS SU	08/11/82-08/11/82	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS	08/11/82-08/11/82	1	6.3	6.3	6.3	6.3	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	08/11/82-08/11/82	1	0.501	0.501	0.501	0.501	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	08/11/82-08/11/82	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00415 ALKALINITY, PHENOLPHTHALEIN (MG/L)	08/11/82-08/11/82	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)	08/11/82-08/11/82	1	0.03	0.03	0.03	0.03	0.	0.	**	**	**	**
00650 PHOSPHATE, TOTAL (MG/L AS PO4)	08/11/82-08/11/82	1##	0.02	0.02	0.02	0.02	0.	0.	**	**	**	**
00680 CARBON, TOTAL ORGANIC (MG/L AS C)	08/11/82-08/11/82	1	30.	30.	30.	30.	0.	0.	**	**	**	**
00681 CARBON, DISSOLVED ORGANIC (MG/L AS C)	08/11/82-08/11/82	1	5.6	5.6	5.6	5.6	0.	0.	**	**	**	**
00916 CALCIUM, TOTAL (MG/L AS CA)	08/11/82-08/11/82	1	1.3	1.3	1.3	1.3	0.	0.	**	**	**	**
00927 MAGNESIUM, TOTAL (MG/L AS MG)	08/11/82-08/11/82	1	0.3	0.3	0.3	0.3	0.	0.	**	**	**	**
00929 SODIUM, TOTAL (MG/L AS NA)	08/11/82-08/11/82	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00937 POTASSIUM, TOTAL MG/L AS K)	08/11/82-08/11/82	1	0.63	0.63	0.63	0.63	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	08/11/82-08/11/82	1	0.2	0.2	0.2	0.2	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	08/11/82-08/11/82	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	08/11/82-08/11/82	1##	0.01	0.01	0.01	0.01	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SI02)	08/11/82-08/11/82	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00956 SILICA, TOTAL (MG/L AS SI02)	08/11/82-08/11/82	1	4.7	4.7	4.7	4.7	0.	0.	**	**	**	**
01042 COPPER, TOTAL (UG/L AS CU)	08/11/82-08/11/82	1	30.	30.	30.	30.	0.	0.	**	**	**	**
01045 IRON, TOTAL (UG/L AS FE)	08/11/82-08/11/82	1	4600.	4600.	4600.	4600.	0.	0.	**	**	**	**
01055 MANGANESE, TOTAL (UG/L AS MN)	08/11/82-08/11/82	1	390.	390.	390.	390.	0.	0.	**	**	**	**
01067 NICKEL, TOTAL (UG/L AS NI)	08/11/82-08/11/82	1	5.	5.	5.	5.	0.	0.	**	**	**	**
01092 ZINC, TOTAL (UG/L AS ZN)	08/11/82-08/11/82	1	60.	60.	60.	60.	0.	0.	**	**	**	**
01105 ALUMINUM, TOTAL (UG/L AS AL)	08/11/82-08/11/82	1	5900.	5900.	5900.	5900.	0.	0.	**	**	**	**
01106 ALUMINUM, DISSOLVED (UG/L AS AL)	08/11/82-08/11/82	1	250.	250.	250.	250.	0.	0.	**	**	**	**
32023 ACIDS, STRONG	08/11/82-08/11/82	1##	5.	5.	5.	5.	0.	0.	**	**	**	**
32024 ACIDS, WEAK	08/11/82-08/11/82	1	170.	170.	170.	170.	0.	0.	**	**	**	**
46570 HARDNESS, CA MG CALCULATED (MG/L AS CACO3)	08/11/82-08/11/82	1	5.	5.	5.	5.	0.	0.	**	**	**	**
71845 NITROGEN, AMMONIA, TOTAL (MG/L AS NH4)	08/11/82-08/11/82	1	0.04	0.04	0.04	0.04	0.	0.	**	**	**	**
71850 NITRATE NITROGEN,TOTAL (MG/L AS NO3)	08/11/82-08/11/82	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0115

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00				1	0	0.00						
00400 PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	1	1.00				1	1	1.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
01042 COPPER, TOTAL	Fresh Acute	18.	1	1	1.00				1	1	1.00						
	Drinking Water	1300.	1	0	0.00				1	0	0.00						
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00				1	0	0.00						
	Drinking Water	100.	1	0	0.00				1	0	0.00						
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00				1	0	0.00						
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0116

NPS Station ID: GRSM0116 LAT/LON: 35.585559/ -83.237227 Agency: 131TVAC Date Created: 08/28/82
Location: TRIBUTARY TO RAVEN FORK 8.38
Station Type: /TYPA/AMBNT/STREAM FIPS State/County: 37173 NORTH CAROLINA/SWAIN
RMI-Indexes: 1021500 007720 00920 8540 4030 0730 0580 0200 STORET Station ID(s): 370047
RMI-Miles: 0953.80 0046.50 601.10 076.20 018.30 010.26 08.38 01.60
HUC: 06010203 Depth of Water: 0 Aquifer:
Major Basin: LITTLE TENNESSEE R BASIN Elevation: 0 Water Body Id:
Minor Basin: STRAIGHT FORK 1.6 HYDROLAB STATION ECO Region:
RF1 Index: 06010203033 RF1 Mile Point: 1.600 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010203003300.28 RF3 Mile Point: 3.98 Distance from RF3: 0.02 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0116

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	07/27/82-10/20/82	380	13.55	13.044	17.5	7.1	9.038	3.006	8.81	10.1	16.	16.6
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	07/27/82-10/20/82	380	10.	12.316	17.	9.	8.913	2.985	10.	10.	16.	17.
00300	OXYGEN, DISSOLVED MG/L	07/27/82-10/20/82	380	9.5	9.738	11.4	8.3	0.438	0.662	9.1	9.3	10.3	10.8
00400	PH (STANDARD UNITS)	07/27/82-10/20/82	380	5.85	5.846	6.11	5.05	0.024	0.154	5.691	5.8	5.91	6.03
00400	CONVERTED PH (STANDARD UNITS)	07/27/82-10/20/82	380	5.85	5.81	6.11	5.05	0.025	0.158	5.691	5.8	5.91	6.03
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	07/27/82-10/20/82	380	1.413	1.548	8.913	0.776	0.864	0.93	0.933	1.23	1.585	2.037

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

EPA Water Quality Criteria Analysis for Station: GRSM0116

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	380	0	0.00	238	0	0.00	142	0	0.00						
00400	PH	Other-Hi Lim.	9.	380	0	0.00	238	0	0.00	142	0	0.00						
		Other-Lo Lim.	6.5	380	380	1.00	238	238	1.00	142	142	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: GRSM0117

NPS Station ID: GRSM0117 LAT/LON: 35.590559/ -83.852782 Agency: 131TVAC Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): 477629
RMI-Indexes: 1021500 007720 00920 8540 1930 0320
RMI-Miles: 0953.80 0046.50 601.10 037.00 015.79 009.80
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: MILL CREEK 0.09 ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010201002800.00 RF3 Mile Point: 2.05 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0117

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		11/16/93-04/13/94	5	7.	8.38	13.6	3.6	20.142	4.488	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/15/93-04/13/94	6	37.5	62.167	233.	4.	7310.967	85.504	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/16/93-04/13/94	5	9.	10.	15.	8.	8.5	2.915	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	11/16/93-04/13/94	5	10.6	10.64	12.	9.6	0.868	0.932	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C	MG/L	09/15/93-04/13/94	6##	1.	0.917	1.	0.5	0.042	0.204	**	**	**	**
00400 PH (STANDARD UNITS)		11/16/93-04/13/94	5	6.5	6.54	6.7	6.3	0.028	0.167	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		11/16/93-04/13/94	5	6.5	6.514	6.7	6.3	0.029	0.17	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/16/93-04/13/94	5	0.316	0.307	0.501	0.2	0.015	0.123	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		09/15/93-04/13/94	6	5.	6.167	10.	4.	5.367	2.317	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		09/15/93-04/13/94	6##	1.25	5.583	27.	0.5	111.142	10.542	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		09/15/93-04/13/94	6	0.01	0.017	0.05	0.01	0.	0.016	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		09/15/93-04/13/94	6	0.1	0.084	0.11	0.005	0.002	0.041	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		09/15/93-04/13/94	6	0.01	0.013	0.04	0.004	0.	0.013	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		09/15/93-04/13/94	6	5.	5.167	9.	2.	5.767	2.401	**	**	**	**
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		09/15/93-06/15/94	7	1.	2.429	11.	1.	14.286	3.78	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0117

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00	4	0	0.00	1	0	0.00						
00400 PH	Other-Hi Lim.	9.	5	0	0.00	4	0	0.00	1	0	0.00						
	Other-Lo Lim.	6.5	5	3	0.60	4	2	0.50	1	1	1.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00	4	0	0.00	2	0	0.00						
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	7	0	0.00	4	0	0.00	3	0	0.00						

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

Station Inventory for Station: GRSM0118

NPS Station ID: GRSM0118 LAT/LON: 35.591948/ -83.853059 Agency: 131TVAC Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): 477627
RMI-Indexes: 1021500 007720 00920 8540 1930
RMI-Miles: 0953.80 0046.50 601.10 037.00 015.87
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: ABRAMS CREEK 15.87 ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010201002800.00 RF3 Mile Point: 2.05 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0118

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		11/16/93-05/03/94	6	9.9	10.217	14.1	7.2	7.898	2.81	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	11/16/93-05/03/94	6	36.5	67.067	279.	0.4	11077.307	105.249	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/16/93-05/03/94	6	47.5	50.833	115.	12.	1303.767	36.108	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	11/16/93-05/03/94	6	9.1	9.217	10.4	8.5	0.53	0.728	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C	MG/L	09/15/93-03/16/94	5##	1.	0.9	1.	0.5	0.05	0.224	**	**	**	**
00400 PH (STANDARD UNITS)		11/16/93-05/03/94	6	7.3	7.083	7.9	6.	0.426	0.652	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		11/16/93-05/03/94	6	7.3	6.644	7.9	6.	0.657	0.811	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/16/93-05/03/94	6	0.05	0.227	1.	0.013	0.148	0.384	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		11/16/93-04/13/94	5	30.	38.8	82.	14.	669.2	25.869	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		09/15/93-03/16/94	5	2.	1.9	3.	0.5	0.8	0.894	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		09/15/93-04/13/94	6	0.01	0.015	0.04	0.01	0.	0.012	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		09/15/93-04/13/94	6	0.215	0.2	0.24	0.11	0.002	0.048	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		09/15/93-04/13/94	6	0.01	0.015	0.03	0.01	0.	0.008	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		09/15/93-03/16/94	5	41.	53.6	82.	33.	592.3	24.337	**	**	**	**
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		11/16/93-06/15/94	6	1.	1.717	5.	1.	2.602	1.613	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0118

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	6	0	0.00	4	0	0.00	2	0	0.00						
00400 PH	Other-Hi Lim.	9.	6	0	0.00	4	0	0.00	2	0	0.00						
	Other-Lo Lim.	6.5	6	1	0.17	4	0	0.00	2	1	0.50						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00	4	0	0.00	2	0	0.00						
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	6	0	0.00	4	0	0.00	2	0	0.00						

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

Station Inventory for Station: GRSM0119

NPS Station ID: GRSM0119 LAT/LON: 35.592781/ -83.824170 Agency: 131TVAC Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
FIPS State/County: 47009 TENNESSEE/BLOUNT
STORET Station ID(s): 477625
RMI-Indexes: 1021500 007720 00920 8540 1930
RMI-Miles: 0953.80 0046.50 601.10 037.00 018.34
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: ABRAMS CREEK 18.34 ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010201002800.00 RF3 Mile Point: 2.05 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0119

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		12/15/93-05/03/94	8	11.4	9.862	13.3	4.7	9.551	3.091	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	12/15/93-05/03/94	8	7.	28.125	160.	2.	2921.268	54.049	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		12/15/93-05/03/94	8	17.5	16.625	22.	11.	21.125	4.596	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	12/15/93-05/03/94	8	9.3	9.875	11.9	8.8	1.259	1.122	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C	MG/L	12/15/93-05/03/94	5##	1.	1.2	2.	1.	0.2	0.447	**	**	**	**
00400 PH (STANDARD UNITS)		12/15/93-05/03/94	8	6.55	6.563	6.7	6.5	0.006	0.074	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		12/15/93-05/03/94	8	6.547	6.557	6.7	6.5	0.006	0.075	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		12/15/93-05/03/94	8	0.284	0.277	0.316	0.2	0.002	0.045	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		12/15/93-05/03/94	5	7.	7.6	11.	6.	4.3	2.074	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		12/15/93-05/03/94	5	6.	8.6	23.	2.	68.3	8.264	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		12/15/93-05/03/94	5	0.04	0.034	0.05	0.01	0.	0.018	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		12/15/93-05/03/94	5	0.16	0.172	0.24	0.1	0.003	0.058	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		12/15/93-05/03/94	5	0.02	0.02	0.03	0.01	0.	0.007	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		12/15/93-05/03/94	5	8.	10.6	22.	5.	43.8	6.618	**	**	**	**
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		12/15/93-06/15/94	6	2.5	2.967	5.8	1.	4.967	2.229	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0119

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	8	0	0.00	3	0	0.00	5	0	0.00						
00400 PH	Other-Hi Lim.	9.	8	0	0.00	3	0	0.00	5	0	0.00						
	Other-Lo Lim.	6.5	8	4	0.50	3	2	0.67	5	2	0.40						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	5	0	0.00	3	0	0.00	2	0	0.00						
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	6	0	0.00	3	0	0.00	3	0	0.00						

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

Station Inventory for Station: GRSM0120

NPS Station ID: GRSM0120 LAT/LON: 35.593060/ -83.845003 Agency: 112WRD Date Created: / /
Location: ABRAMS CR BELOW CADES COVE TENN
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM
STORET Station ID(s): 03518100
RMI-Indexes:
RMI-Miles:
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010204041 RF1 Mile Point: 0.350 Distance from RF1: 0.00 On/Off RF1: OFF
RF3 Index: 06010204002013.00 RF3 Mile Point: 13.00 Distance from RF3: 0.17 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0120

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00060 FLOW, STREAM, MEAN DAILY CFS	09/24/68-09/24/68	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00080 COLOR (PLATINUM-COBALT UNITS)	09/24/68-09/24/68	1	5.	5.	5.	5.	0.	0.	**	**	**	**
00095 SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	09/24/68-09/24/68	1	161.	161.	161.	161.	0.	0.	**	**	**	**
00400 PH (STANDARD UNITS)	09/24/68-09/24/68	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)	09/24/68-09/24/68	1	6.8	6.8	6.8	6.8	0.	0.	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	09/24/68-09/24/68	1	0.158	0.158	0.158	0.158	0.	0.	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	1	78.	78.	78.	78.	0.	0.	**	**	**	**
00440 BICARBONATE ION (MG/L AS HCO3)	09/24/68-09/24/68	1	95.	95.	95.	95.	0.	0.	**	**	**	**
00445 CARBONATE ION (MG/L AS CO3)	09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00660 PHOSPHATE, ORTHO (MG/L AS PO4)	09/24/68-09/24/68	1	0.	0.	0.	0.	0.	0.	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)	09/24/68-09/24/68	1	81.	81.	81.	81.	0.	0.	**	**	**	**
00902 HARDNESS, NON-CARBONATE (MG/L AS CACO3)	09/24/68-09/24/68	1	2.	2.	2.	2.	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)	09/24/68-09/24/68	1	19.	19.	19.	19.	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)	09/24/68-09/24/68	1	8.3	8.3	8.3	8.3	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)	09/24/68-09/24/68	1	1.2	1.2	1.2	1.2	0.	0.	**	**	**	**
00931 SODIUM ADSORPTION RATIO	09/24/68-09/24/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00932 SODIUM, PERCENT	09/24/68-09/24/68	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)	09/24/68-09/24/68	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER MG/L	09/24/68-09/24/68	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)	09/24/68-09/24/68	1	3.	3.	3.	3.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)	09/24/68-09/24/68	1	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SIO2)	09/24/68-09/24/68	1	8.1	8.1	8.1	8.1	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)	09/24/68-09/24/68	1	10.	10.	10.	10.	0.	0.	**	**	**	**
31501 COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,35C	08/05/68-08/05/68	1	148.	148.	148.	148.	0.	0.	**	**	**	**
31501 LOG COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,	08/05/68-08/05/68	1	2.17	2.17	2.17	2.17	0.	0.	**	**	**	**
31501 GM COLIFORM,TOT,MEMBRANE FILTER,IMMED,M-ENDO MED,3			GEOMETRIC MEAN =	148.								
70300 RESIDUE,TOTAL FILTRABLE (DRIED AT 180C),MG/L	09/24/68-09/24/68	1	92.	92.	92.	92.	0.	0.	**	**	**	**
70301 SOLIDS, DISSOLVED-SUM OF CONSTITUENTS (MG/L)	09/24/68-09/24/68	1	89.	89.	89.	89.	0.	0.	**	**	**	**
70302 SOLIDS, DISSOLVED-TONS PER DAY	09/24/68-09/24/68	1	1.34	1.34	1.34	1.34	0.	0.	**	**	**	**
70303 SOLIDS, DISSOLVED-TONS PER ACRE-FT	09/24/68-09/24/68	1	0.13	0.13	0.13	0.13	0.	0.	**	**	**	**
71851 NITRATE NITROGEN, DISSOLVED (MG/L AS NO3)	09/24/68-09/24/68	1	0.9	0.9	0.9	0.9	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0120

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00400 PH	Other-Hi Lim.	9.	1	0	0.00				1	0	0.00						
	Other-Lo Lim.	6.5	1	0	0.00				1	0	0.00						
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00				1	0	0.00						
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00				1	0	0.00						
31501 COLIFORM, TOTAL, MEMBRANE FILTER, IMMED.	Other-Hi Lim.	1000.	1	0	0.00				1	0	0.00						
71851 NITRATE NITROGEN, DISSOLVED (AS NO3)	Drinking Water	44.	1	0	0.00				1	0	0.00						

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

Station Inventory for Station: GRSM0121

NPS Station ID: GRSM0121 LAT/LON: 35.593337/ -83.843893 Agency: 131TVAC Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): 477626
RMI-Indexes: 1021500 007720 00920 8540 1930
RMI-Miles: 0953.80 0046.50 601.10 037.00 016.58
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: ABRAMS CREEK 16.58 ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010201002800.00 RF3 Mile Point: 2.05 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0121

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11/16/93-04/13/94	5	13.5	13.2	15.1	10.5	3.83	1.957	**	**	**	**
00061	FLOW, STREAM, INSTANTANEOUS CFS	09/16/93-04/13/94	6	1.5	1.9	5.	0.6	2.668	1.633	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	11/16/93-04/13/94	5	108.	96.	125.	35.	1234.5	35.135	**	**	**	**
00300	OXYGEN, DISSOLVED MG/L	11/16/93-04/13/94	5	7.4	7.4	8.4	6.	1.08	1.039	**	**	**	**
00310	BOD, 5 DAY, 20 DEG C MG/L	09/15/93-03/16/94	6##	1.	0.917	1.	0.5	0.042	0.204	**	**	**	**
00400	PH (STANDARD UNITS)	11/16/93-04/13/94	5	7.6	7.48	7.9	6.7	0.212	0.46	**	**	**	**
00400	CONVERTED PH (STANDARD UNITS)	11/16/93-04/13/94	5	7.6	7.238	7.9	6.7	0.285	0.534	**	**	**	**
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	11/16/93-04/13/94	5	0.025	0.058	0.2	0.013	0.006	0.08	**	**	**	**
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	09/15/93-04/13/94	7	72.	65.714	82.	26.	335.238	18.31	**	**	**	**
00530	RESIDUE, TOTAL NONFILTRABLE (MG/L)	09/15/93-03/16/94	6##	0.5	1.333	4.	0.5	2.067	1.438	**	**	**	**
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	09/15/93-04/13/94	7	0.01	0.017	0.06	0.01	0.	0.019	**	**	**	**
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	09/15/93-04/13/94	7	0.25	0.237	0.29	0.12	0.003	0.056	**	**	**	**
00665	PHOSPHORUS, TOTAL (MG/L AS P)	09/15/93-04/13/94	7	0.01	0.013	0.03	0.008	0.	0.008	**	**	**	**
00900	HARDNESS, TOTAL (MG/L AS CACO3)	09/15/93-03/16/94	6	73.5	73.167	80.	68.	16.967	4.119	**	**	**	**
82079	TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU	09/15/93-06/15/94	8	1.	1.125	2.	1.	0.125	0.354	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0121

Parameter		Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300	OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00	4	0	0.00	1	0	0.00						
00400	PH	Other-Hi Lim.	9.	5	0	0.00	4	0	0.00	1	0	0.00						
		Other-Lo Lim.	6.5	5	0	0.00	4	0	0.00	1	0	0.00						
00630	NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	7	0	0.00	4	0	0.00	3	0	0.00						
82079	TURBIDITY, LAB	Other-Hi Lim.	50.	8	0	0.00	4	0	0.00	4	0	0.00						

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

Station Inventory for Station: GRSM0122

NPS Station ID: GRSM0122 LAT/LON: 35.595003/ -83.857781 Agency: 131TVAC Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR
FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS
STORET Station ID(s): 477630
RMI-Indexes: 1021500 007720 00920 8540 1930
RMI-Miles: 0953.80 0046.50 601.10 037.00 015.43
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: ABRAMS CREEK 15.43 ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010201002800.00 RF3 Mile Point: 2.05 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0122

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		11/16/93-04/13/94	5	6.7	8.34	12.8	5.2	9.928	3.151	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/15/93-04/13/94	6	70.	130.167	512.	11.	35928.567	189.548	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/16/93-04/13/94	5	29.	33.8	61.	20.	247.7	15.738	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	11/16/93-04/13/94	5	10.6	10.16	10.8	9.1	0.533	0.73	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C	MG/L	09/15/93-04/13/94	6##	1.	0.917	1.	0.5	0.042	0.204	**	**	**	**
00400 PH (STANDARD UNITS)		11/16/93-04/13/94	5	7.1	7.12	7.5	6.7	0.082	0.286	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		11/16/93-04/13/94	5	7.1	7.043	7.5	6.7	0.089	0.299	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/16/93-04/13/94	5	0.079	0.091	0.2	0.032	0.004	0.064	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		09/15/93-04/13/94	6	22.5	28.667	56.	12.	249.467	15.795	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		09/15/93-04/13/94	6	2.	3.583	8.	0.5	9.642	3.105	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		09/15/93-04/13/94	6	0.01	0.02	0.04	0.01	0.	0.015	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		09/15/93-04/13/94	6	0.16	0.143	0.18	0.08	0.001	0.037	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		09/15/93-04/13/94	6	0.01	0.013	0.02	0.008	0.	0.005	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		09/15/93-04/13/94	6	23.	29.	60.	12.	290.8	17.053	**	**	**	**
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		09/15/93-04/13/94	6	1.	1.5	3.	1.	0.7	0.837	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0122

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	5	0	0.00	4	0	0.00	1	0	0.00						
00400 PH	Other-Hi Lim.	9.	5	0	0.00	4	0	0.00	1	0	0.00						
	Other-Lo Lim.	6.5	5	0	0.00	4	0	0.00	1	0	0.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	6	0	0.00	4	0	0.00	2	0	0.00						
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	6	0	0.00	4	0	0.00	2	0	0.00						

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

Station Inventory for Station: GRSM0123

NPS Station ID: GRSM0123 LAT/LON: 35.597503/ -83.801393 Agency: 131TVAC Date Created: 10/29/94
Location: CHILHOWEE RESERVOIR FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): 477637
RMI-Indexes: 1021500 007720 00920 8540 1930 0340
RMI-Miles: 0953.80 0046.50 601.10 037.00 019.09 000.84
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: MAPLE CREEK 0.84 ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010201002800.00 RF3 Mile Point: 2.05 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0123

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: GRSM0126

NPS Station ID: GRSM0126 LAT/LON: 35.600004/ -83.165282 Agency: 11EPALES Date Created: / /
Location: LAKE HARTWELL FIPS State/County: 45073 SOUTH CAROLINA/OCONEE
Station Type: /TYPA/AMBNT/LAKE STORET Station ID(s): 450506
RMI-Indexes:
RMI-Miles:
HUC: 06010106 Depth of Water: 35 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: 06010106 RF1 Mile Point: 0.000 Distance from RF1: 6.50 On/Off RF1:
RF3 Index: 06010106041700.00 RF3 Mile Point: 0.00 Distance from RF3: 0.03 On/Off RF3:
Description:

W AREA OF LAKE,DUE E OF TOWN IN SHARP BEND OF RIVER WITH ROUND PENINSULA ON W SHORE, 35 YDS FR E SHORE, NEAR LANDMARK NO. 312 ON W SHORE.
COMMENTS: 6-27 ULE 17; 1% LIGHT AT 10 FT; 4.3% LIGHT REFLECTED AT SURFACE; TURBID, GREEN WATER W/O VISIBLE ALGAE OR AQUATICS.
9-15 ULE 21. TURBID MUDDY BROWN; NO SURF ALGAE OR HIGHER AQUATICS; H2S

Parameter Inventory for Station: GRSM0126

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	06/27/73-11/13/73	12	24.	21.742	26.7	13.2	27.672	5.26	13.2	15.65	25.475	26.37
00074	TURBIDITY, TRANSMISSOMETER, PERCENT TRANSMISSION	06/27/73-11/13/73	12	83.5	74.333	100.	9.	709.697	26.64	21.	60.	97.5	100.
00077	TRANSPARENCY, SECCHI DISC (INCHES)	06/27/73-11/13/73	3	60.	51.333	72.	22.	681.333	26.102	**	**	**	**
00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)	09/15/73-11/13/73	7	26.	24.286	29.	19.	19.905	4.461	**	**	**	**
00095	SPECIFIC CONDUCTANCE (UMHOS/CM @ 25C)	06/27/73-11/13/73	12	52.	86.667	176.	40.	3546.97	59.556	40.	41.25	160.5	176.
00300	OXYGEN, DISSOLVED MG/L	06/27/73-11/13/73	9	7.5	7.756	9.8	6.6	1.155	1.075	6.6	6.9	8.5	9.8
00400	PH (STANDARD UNITS)	06/27/73-11/13/73	12	6.45	6.333	6.5	5.9	0.055	0.235	5.9	6.15	6.5	6.5
00400	CONVERTED PH (STANDARD UNITS)	06/27/73-11/13/73	12	6.447	6.266	6.5	5.9	0.06	0.245	5.9	6.15	6.5	6.5
00400	MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH	06/27/73-11/13/73	12	0.357	0.542	1.259	0.316	0.131	0.362	0.316	0.316	0.721	1.259
00410	ALKALINITY, TOTAL (MG/L AS CACO3)	06/27/73-11/13/73	12##	5.	7.333	12.	5.	8.606	2.934	5.	5.	10.	11.7
00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	06/27/73-11/13/73	12	0.055	0.052	0.09	0.02	0.	0.022	0.023	0.03	0.068	0.087
00625	NITROGEN, KJELDAHL, TOTAL, (MG/L AS N)	06/27/73-11/13/73	12	0.35	0.325	0.8	0.1	0.044	0.209	0.1	0.1	0.4	0.71
00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)	06/27/73-11/13/73	12	0.05	0.058	0.12	0.04	0.	0.021	0.04	0.05	0.06	0.102
00665	PHOSPHORUS, TOTAL (MG/L AS P)	06/27/73-11/13/73	12	0.014	0.018	0.054	0.009	0.	0.012	0.009	0.011	0.021	0.044
00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)	06/27/73-11/13/73	12	0.004	0.004	0.008	0.001	0.	0.002	0.001	0.003	0.005	0.007
32217	CHLOROPHYLL A UG/L FLUOROMETRIC UNCORRECTED	06/27/73-11/13/73	3	2.9	2.933	3.1	2.8	0.023	0.153	**	**	**	**
72025	DEPTH OF POND OR RESERVOIR IN FEET	06/27/73-11/13/73	3	35.	30.	35.	20.	75.	8.66	**	**	**	**

** - 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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0126

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

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

Station Inventory for Station: GRSM0127

NPS Station ID: GRSM0127 LAT/LON: 35.600281/ -83.766948 Agency: 131TVAC Date Created: 10/29/94
Location: CHILHOWEE RESERVOIR FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): 477634
RMI-Indexes: 1021500 007720 00920 8540 1930
RMI-Miles: 0953.80 0046.50 601.10 037.00 022.34
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: ABRAMS CREEK 22.34 ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010201002800.00 RF3 Mile Point: 2.05 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0127

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		11/17/93-05/03/94	9	11.	9.178	13.3	4.	13.274	3.643	4.	4.65	11.55	13.3
00061 FLOW, STREAM, INSTANTANEOUS	CFS	05/03/94-05/03/94	4	0.45	0.45	0.5	0.4	0.003	0.058	**	**	**	**
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/17/93-05/03/94	8	10.5	11.25	17.	8.	7.929	2.816	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	11/17/93-05/03/94	9	9.2	9.8	11.4	8.7	1.173	1.083	8.7	8.9	11.05	11.4
00310 BOD, 5 DAY, 20 DEG C	MG/L	09/15/93-05/03/94	8##	1.	1.063	2.	0.5	0.174	0.417	**	**	**	**
00400 PH (STANDARD UNITS)		11/17/93-05/03/94	9	6.2	6.256	6.5	6.1	0.015	0.124	6.1	6.2	6.35	6.5
00400 CONVERTED PH (STANDARD UNITS)		11/17/93-05/03/94	9	6.2	6.241	6.5	6.1	0.016	0.125	6.1	6.2	6.35	6.5
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		11/17/93-05/03/94	9	0.631	0.574	0.794	0.316	0.021	0.145	0.316	0.45	0.631	0.794
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		11/16/93-05/03/94	2	14.5	14.5	20.	9.	60.5	7.778	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		09/15/93-05/03/94	8	2.	5.563	31.	0.5	108.031	10.394	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		09/15/93-05/03/94	8	0.01	0.023	0.05	0.01	0.	0.018	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		09/15/93-05/03/94	8	0.25	0.313	1.01	0.06	0.085	0.291	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		09/15/93-05/03/94	8	0.007	0.011	0.03	0.002	0.	0.009	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		09/15/93-05/03/94	8	4.5	8.75	24.	2.	71.071	8.43	**	**	**	**
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		11/16/93-06/16/94	3	1.	3.6	8.8	1.	20.28	4.503	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0127

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	9	0	0.00	4	0	0.00	5	0	0.00						
00400 PH	Other-Hi Lim.	9.	9	0	0.00	4	0	0.00	5	0	0.00						
	Other-Lo Lim.	6.5	9	9	1.00	4	4	1.00	5	5	1.00						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	5	0	0.00	3	0	0.00						
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	3	0	0.00	1	0	0.00	2	0	0.00						

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

Station Inventory for Station: GRSM0128

NPS Station ID: GRSM0128 LAT/LON: 35.604170/ -83.781116 Agency: 131TVAC Date Created: 09/03/94
Location: CHILHOWEE RESERVOIR FIPS State/County: 47009 TENNESSEE/BLOUNT
Station Type: /TYPA/AMBNT/STREAM/SOLIDS STORET Station ID(s): 477622
RMI-Indexes: 1021500 007720 00920 8540 1930
RMI-Miles: 0953.80 0046.50 601.10 037.00 021.28
HUC: 06010204 Depth of Water: 0 Aquifer:
Major Basin: TENNESSEE RIVER BASIN Elevation: 0 Water Body Id:
Minor Basin: ABRAMS CREEK 21.28 ECO Region:
RF1 Index: 06010204 RF1 Mile Point: 0.000 Distance from RF1: 0.00 On/Off RF1:
RF3 Index: 06010201002800.00 RF3 Mile Point: 2.05 Distance from RF3: 0.10 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0128

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00010 TEMPERATURE, WATER (DEGREES CENTIGRADE)		11/17/93-05/03/94	8	11.4	9.237	14.4	3.7	17.391	4.17	**	**	**	**
00061 FLOW, STREAM, INSTANTANEOUS	CFS	09/15/93-05/03/94	9	4.	12.822	62.	0.4	391.122	19.777	0.4	0.5	17.	62.
00094 SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		11/17/93-05/03/94	8	11.5	12.375	19.	7.	17.696	4.207	**	**	**	**
00300 OXYGEN, DISSOLVED	MG/L	11/17/93-05/03/94	8	10.05	9.913	11.8	8.	2.544	1.595	**	**	**	**
00310 BOD, 5 DAY, 20 DEG C	MG/L	11/17/93-05/03/94	7##	1.	1.286	2.	1.	0.238	0.488	**	**	**	**
00400 PH (STANDARD UNITS)		11/17/93-05/03/94	8	6.3	6.325	6.8	5.9	0.122	0.349	**	**	**	**
00400 CONVERTED PH (STANDARD UNITS)		11/17/93-05/03/94	8	6.289	6.213	6.8	5.9	0.136	0.369	**	**	**	**
00400 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH.		11/17/93-05/03/94	8	0.515	0.612	1.259	0.158	0.182	0.426	**	**	**	**
00410 ALKALINITY, TOTAL (MG/L AS CACO3)		09/15/93-05/03/94	8	6.	6.125	8.	4.	2.125	1.458	**	**	**	**
00530 RESIDUE, TOTAL NONFILTRABLE (MG/L)		11/17/93-05/03/94	7	2.	6.643	20.	0.5	84.143	9.173	**	**	**	**
00610 NITROGEN, AMMONIA, TOTAL (MG/L AS N)		09/15/93-05/03/94	8	0.03	0.044	0.1	0.01	0.002	0.039	**	**	**	**
00630 NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		09/15/93-05/03/94	8	0.2	0.193	0.25	0.05	0.004	0.061	**	**	**	**
00665 PHOSPHORUS, TOTAL (MG/L AS P)		09/15/93-05/03/94	8	0.009	0.014	0.03	0.002	0.	0.011	**	**	**	**
00900 HARDNESS, TOTAL (MG/L AS CACO3)		11/17/93-05/03/94	7	7.	9.429	18.	4.	35.952	5.996	**	**	**	**
82079 TURBIDITY,LAB NEPHELOMETRIC TURBIDITY UNITS, NTU		09/15/93-06/16/94	9	1.	2.833	8.8	1.	11.36	3.37	1.	1.	5.35	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 time series plot

EPA Water Quality Criteria Analysis for Station: GRSM0128

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	8	0	0.00	4	0	0.00	4	0	0.00						
00400 PH	Other-Hi Lim.	9.	8	0	0.00	4	0	0.00	4	0	0.00						
	Other-Lo Lim.	6.5	8	5	0.63	4	2	0.50	4	3	0.75						
00630 NITRITE PLUS NITRATE, TOTAL 1 DET.	Drinking Water	10.	8	0	0.00	4	0	0.00	4	0	0.00						
82079 TURBIDITY, LAB	Other-Hi Lim.	50.	9	0	0.00	4	0	0.00	5	0	0.00						

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

Station Inventory for Station: GRSM0129

NPS Station ID: GRSM0129 LAT/LON: 35.604448/ -83.563337 Agency: 112WRD Date Created: 03/21/92
Location: SLIDE HOLLOW AB ELKMONT FIPS State/County: 47155 TENNESSEE/SEVIER
Station Type: /TYPA/AMBNT/STREAM STORET Station ID(s): 353616083334800
RMI-Indexes:
RMI-Miles:
HUC: Depth of Water: 0 Aquifer:
Major Basin: Elevation: 0 Water Body Id:
Minor Basin: ECO Region:
RF1 Index: RF1 Mile Point: 0.000 Distance from RF1: 8.90 On/Off RF1:
RF3 Index: 06010201084000.00 RF3 Mile Point: 0.94 Distance from RF3: 0.00 On/Off RF3:
Description:

Parameter Inventory for Station: GRSM0129

Parameter		Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
00403 PH, LAB, STANDARD UNITS	SU	10/29/91-10/29/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403 CONVERTED PH, LAB, STANDARD UNITS		10/29/91-10/29/91	1	6.9	6.9	6.9	6.9	0.	0.	**	**	**	**
00403 MICRO EQUIVALENTS/LITER OF H+ COMPUTED FROM PH		10/29/91-10/29/91	1	0.126	0.126	0.126	0.126	0.	0.	**	**	**	**
00618 NITRATE NITROGEN, DISSOLVED (MG/L AS N)		10/29/91-10/29/91	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00671 PHOSPHORUS, DISSOLVED ORTHOPHOSPHATE (MG/L AS P)		10/29/91-10/29/91	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**
00915 CALCIUM, DISSOLVED (MG/L AS CA)		10/29/91-10/29/91	1	1.8	1.8	1.8	1.8	0.	0.	**	**	**	**
00925 MAGNESIUM, DISSOLVED (MG/L AS MG)		10/29/91-10/29/91	1	0.7	0.7	0.7	0.7	0.	0.	**	**	**	**
00930 SODIUM, DISSOLVED (MG/L AS NA)		10/29/91-10/29/91	1	1.	1.	1.	1.	0.	0.	**	**	**	**
00935 POTASSIUM, DISSOLVED (MG/L AS K)		10/29/91-10/29/91	1	0.4	0.4	0.4	0.4	0.	0.	**	**	**	**
00940 CHLORIDE,TOTAL IN WATER	MG/L	10/29/91-10/29/91	1	0.6	0.6	0.6	0.6	0.	0.	**	**	**	**
00945 SULFATE, TOTAL (MG/L AS SO4)		10/29/91-10/29/91	1	4.	4.	4.	4.	0.	0.	**	**	**	**
00950 FLUORIDE, DISSOLVED (MG/L AS F)		10/29/91-10/29/91	1	0.05	0.05	0.05	0.05	0.	0.	**	**	**	**
00955 SILICA, DISSOLVED (MG/L AS SIO2)		10/29/91-10/29/91	1	5.9	5.9	5.9	5.9	0.	0.	**	**	**	**
01046 IRON, DISSOLVED (UG/L AS FE)		10/29/91-10/29/91	1	7.	7.	7.	7.	0.	0.	**	**	**	**
01056 MANGANESE, DISSOLVED (UG/L AS MN)		10/29/91-10/29/91	1##	0.5	0.5	0.5	0.5	0.	0.	**	**	**	**
71870 BROMIDE (MG/L AS BR)		10/29/91-10/29/91	1##	0.005	0.005	0.005	0.005	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0129

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	0	0.00	1	0	0.00									
00618 NITRATE NITROGEN, DISSOLVED AS N	Drinking Water	10.	1	0	0.00	1	0	0.00									
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	1	0	0.00	1	0	0.00									

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

Parameter Inventory for Station: GRSM0139

Parameter	Period of Record	Obs	Median	Mean	Maximum	Minimum	Variance	Std. Dev.	10th	25th	75th	90th
71900 MERCURY, TOTAL (UG/L AS HG)	03/22/82-03/22/82	1##	0.1	0.1	0.1	0.1	0.	0.	**	**	**	**

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

EPA Water Quality Criteria Analysis for Station: GRSM0139

Parameter	Std. Type	Std. Value	Total Obs	Exceed Standard	Prop. Exceeding	10/01- 3/31 Obs	10/01- 3/31 Exceed	10/01- 3/31 Prop.	4/01- 9/30 Obs	4/01- 9/30 Exceed	4/01- 9/30 Prop.	n/a Obs	n/a Exceed	n/a Prop.	n/a Obs	n/a Exceed	n/a Prop.
00300 OXYGEN, DISSOLVED	Fresh Acute	4.	1	0	0.00	1	0	0.00									
00400 PH	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00403 PH, LAB	Other-Hi Lim.	9.	1	0	0.00	1	0	0.00									
	Other-Lo Lim.	6.5	1	1	1.00	1	1	1.00									
00940 CHLORIDE,TOTAL IN WATER	Fresh Acute	860.	1	0	0.00	1	0	0.00									
00945 SULFATE, TOTAL (AS SO4)	Drinking Water	400.	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									
01067 NICKEL, TOTAL	Fresh Acute	1400.	1	0	0.00	1	0	0.00									
	Drinking Water	100.	1	0	0.00	1	0	0.00									
01092 ZINC, TOTAL	Fresh Acute	120.	1	0	0.00	1	0	0.00									
71850 NITRATE NITROGEN, TOTAL (AS NO3)	Drinking Water	44.	1	0	0.00	1	0	0.00									
71900 MERCURY, TOTAL	Fresh Acute	2.4	1	0	0.00	1	0	0.00									
	Drinking Water	2.	1	0	0.00	1	0	0.00									

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As the nation's principal conservation agency, the Department of the Interior has the responsibility for most of our nationally owned public lands and natural and cultural resources. This includes fostering wise use of our land and water resources, protecting our fish and wildlife, preserving the environmental and cultural values of our national parks and historical places, and providing for enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people. The Department also promotes the goals of the Take Pride in America campaign by encouraging stewardship and citizen responsibility for the public lands and promoting citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

NPS D-433

May 1995