

**RESULTS OF THE U.S. GEOLOGICAL SURVEY'S ANALYTICAL EVALUATION
PROGRAM FOR STANDARD REFERENCE SAMPLES : T-147 (TRACE
CONSTITUENTS), T-149 (TRACE CONSTITUENTS), M-142
(MAJOR CONSTITUENTS), N-53 (NUTRIENT CONSTITUENTS), N-54
(NUTRIENT CONSTITUENTS), P-28 (LOW IONIC STRENGTH CONSTITUENTS)
GW-1 (GROUND-WATER CONSTITUENTS), AND Hg-24 (MERCURY)
DISTRIBUTED IN APRIL 1997**

by Jerry W. Farrar

U.S. GEOLOGICAL SURVEY

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CONTENTS

| | Page |
|---|------|
| Abstract | 1 |
| Introduction | 1 |
| Purpose and scope | 2 |
| Preparation of standard reference water samples | 6 |
| Laboratory analyses | 8 |
| Laboratory performance ratings | 10 |
| Statistical presentation of data | 10 |
| Reference | 11 |

FIGURE

| | |
|--|----|
| Figure 1. Statistical parameters shown on reported-data graphs in tables 13-20 | 11 |
|--|----|

TABLES

| | |
|---|-----|
| Table 1. Laboratory participants in the analyses of standard reference samples distributed in April 1997 | 3 |
| 2. Constituents determined in standard reference samples distributed in April 1997..... | 8 |
| 3. Analytical method codes | 9 |
| 4. Overall laboratory performance ratings for standard reference water samples distributed in April 1997 | 12 |
| 5. Laboratory performance ratings for standard reference water sample T-147 (trace constituents) | 14 |
| 6. Laboratory performance ratings for standard reference water sample T-149 (trace constituents) | 22 |
| 7. Laboratory performance ratings for standard reference water sample M-142 (major constituents) | 30 |
| 8. Laboratory performance ratings for standard reference water sample N-53 (nutrient constituents) | 36 |
| 9. Laboratory performance ratings for standard reference water sample N-54 (nutrient constituents) | 38 |
| 10. Laboratory performance ratings for standard reference water sample P-28 (low ionic strength constituents) | 40 |
| 11. Laboratory performance ratings for standard reference water sample GW-1 (ground-water constituents) | 44 |
| 12. Laboratory performance ratings for standard reference water sample Hg-24 (mercury) | 52 |
| 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents) | 53 |
| 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents) | 82 |
| 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents) | 111 |
| 16. Statistical summary of reported data for standard reference water sample N-53 (nutrient constituents) | 128 |
| 17. Statistical summary of reported data for standard reference water sample N-54 (nutrient constituents) | 134 |
| 18. Statistical summary of reported data for standard reference water sample P-28 (low ionic strength constituents) | 140 |
| 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents) | 153 |
| 20. Statistical summary of reported data for standard reference water sample Hg-24 (mercury) | 182 |
| 21. Most probable values for constituents and properties in standard reference samples distributed in April 1997 | 184 |

RESULTS OF THE U.S. GEOLOGICAL SURVEY'S ANALYTICAL EVALUATION PROGRAM FOR STANDARD REFERENCE SAMPLES : T-147 (TRACE CONSTITUENTS), T-149 (TRACE CONSTITUENTS), M-142 (MAJOR CONSTITUENTS), N-53 (NUTRIENT CONSTITUENTS), N-54 (NUTRIENT CONSTITUENTS), P-28 (LOW IONIC STRENGTH CONSTITUENTS), GW-1 (GROUND-WATER CONSTITUENTS), AND Hg-24 (MERCURY) DISTRIBUTED IN APRIL 1997

By Jerry W. Farrar

ABSTRACT

This report presents the results of the U.S. Geological Survey's analytical evaluation program for eight standard reference samples -- T-147 (trace constituents), T-149 (trace constituents), M-142 (major constituents), N-53 (nutrient constituents), N-54 (nutrient constituents), P-28 (low ionic strength constituents), GW-1 (ground-water constituents), and Hg-24 (mercury) -- that were distributed in April 1997 to 170 laboratories enrolled in the U.S. Geological Survey sponsored interlaboratory testing program. Analytical data that were received from 147 of the laboratories were evaluated with respect to: overall laboratory performance and relative laboratory performance for each analyte in the eight reference samples. Results of these evaluations are presented in tabular form. Also presented are tables and graphs summarizing the analytical data provided by each laboratory for each analyte in the eight standard reference samples. The most probable value for each analyte was determined using nonparametric statistics.

INTRODUCTION

The U.S. Geological Survey (USGS) conducts an interlaboratory analytical evaluation program semiannually. This program provides a variety of standard reference samples (SRSs) to accomplish quality assurance testing of laboratories and to provide an adequate supply of samples that contribute to quality control programs of participating laboratories. Natural-matrix reference materials are preferred for use in this interlaboratory evaluation program. A series of samples are prepared and distributed each spring and fall.

The program began in 1962 with a single sample containing major constituents that was prepared from distilled water and reagent grade chemicals. Twenty-three USGS laboratories participated in the first analytical evaluation program. Since that time, objectives of the program have been to:

- (1) evaluate and improve the performance of USGS and other participating laboratories;
- (2) provide a library of carefully prepared, homogeneous, stable reference materials for use in the quality control programs of laboratories;
- (3) identify analytical problem areas;
- (4) identify quality assurance needs with respect to environmental analyses and develop new reference materials to meet these needs; and
- (5) evaluate the accuracy and precision of analytical methods.

A total of 230 USGS and non-USGS laboratories are enrolled in the program, which can currently provide eight different types of SRSs:

1. Trace constituents.
2. Major constituents.
3. Nutrient constituents.
4. Low ionic strength constituents.
5. Mercury.
6. Whole water (water with suspended sediment).
7. Acid mine drainage constituents.
8. Ground-water constituents

Though this is not a laboratory certification program, participation in this continuing quality assurance program is mandatory for all laboratories providing water-quality data for USGS sponsored reports or storage in the USGS national data bases. Federal, State, municipal, and university laboratories can participate even though they do not provide data to the USGS. SRS results can be used to alert participating laboratories of possible deficiencies in their analytical operations, and provide reference materials for laboratory quality-control programs. Participating laboratories are identified only by a confidential laboratory code number.

A library of SRSs, from previous evaluations, is available. USGS offices and participating laboratories can request these SRSs for further testing, continuing quality assurance, and quality-control programs by contacting:

U.S. Geological Survey
Branch of Technical Development and Quality Systems
Denver Federal Center, Bldg. 53
P. O. Box 25046 MS 401
Denver, Colorado 80225-0046
(303) 236-1870

PURPOSE AND SCOPE

This report summarizes the analytical results submitted by 147 of the 170 laboratories that requested and were shipped SRS for the August 1997 evaluation (table 1). Not all SRSs are requested or necessarily analyzed by all the laboratories; nor do all laboratories enrolled in the program participate in each evaluation. Analytical results for the following, which were mailed the week of April 7, 1997, are presented in this report

| | | | |
|-------|-----------------------|-------|---------------------------------|
| T-147 | Trace constituents | N-54 | Nutrient constituents |
| T-149 | Trace constituents | P-28 | Low ionic strength constituents |
| M-142 | Major constituents | GW-1 | Ground-water constituents |
| N-53 | Nutrient constituents | Hg-24 | Mercury |

The USGS requested that analytical results be returned by May 19, 1997 for evaluation and preparation of this report. Laboratories that are providing analytical services to USGS offices are requested to analyze the appropriate SRSs for the same analytes requested by the USGS offices. All laboratories are requested to include the analytical methods used to determine the concentration of each analyte. When analytical-method information was provided, it has been included in tables 13 - 20.

Table 1.-Laboratory participants in the analyses of standard reference samples distributed in April 1997

| State | City | Participating Laboratory |
|-------------|----------------------------------|---|
| Alabama | Mobile | Alabama Department of Environmental Management |
| | Tuscaloosa | Geological Survey of Alabama |
| Arizona | Yuma | Burns and Roe Services Corporation |
| Arkansas | Arkadelphia | Ouachita Baptist University |
| | Fayetteville | University of Arkansas |
| | Little Rock | Arkansas Department of Pollution Control and Ecology |
| California | Davis | University of California - Davis |
| | La Verne | Metropolitan Water District |
| | Oakland | East Bay Municipal Utility District |
| | Santa Fe Springs | West Coast Analytical Service, Inc. |
| | Tahoe City | Tahoe Research Group |
| | West Sacramento | California Department of Water Resources |
| | West Sacramento | Quanterra Environmental Services |
| Colorado | Alamosa | Bureau of Reclamation |
| | Arvada | Quanterra Environmental Services |
| | Arvada | USGS NWQL |
| | Aurora | Core Laboratories, Inc. |
| | Boulder | USGS |
| | Boulder | USGS |
| | Colorado Springs | City of Colorado Springs |
| | Denver | USGS/WRD Acid Rain Global Climate |
| | Denver | Denver Water Department |
| | Denver | Metro Wastewater Reclamation |
| | Denver | USGS |
| | Denver | USGS Colorado District Upper Arkansas Toxic Project |
| | Fort Collins | City of Fort Collins - Water Quality |
| | Fort Collins | USDA Forest Service |
| | Greeley | Central Colorado Water Conservation |
| | Lakewood | U.S. EPA |
| | Loveland | Northern Colorado Water Conservation |
| Northglenn | Northglenn Water Treatment Plant | |
| Westminster | City of Westminster | |
| Florida | Brooksville | SW Florida Water Management District |
| | Ocala | USGS WRD QWSU |
| | Orlando | Post, Buckley, Schuh, and Jernigan, Inc. |
| | Ormond Beach | Environmental Laboratory |
| | Palatka | St. John's River Management District |
| | Tallahassee | City of Tallahassee |
| | Tallahassee | Florida Department of Environmental Regulations |
| | Tallahassee | Savannah Laboratories |
| | Tampa | Hillsborough County Environmental Protection Commission |
| | West Palm Beach | South Florida Water Management District |
| Georgia | Athens | University of Georgia |
| | Atlanta | Georgia Department of Natural Resources |
| | Atlanta | USGS WRD |
| | Decatur | Dekalb County Water Quality Laboratory |
| Hawaii | Honolulu | University of Hawaii - SOEST Analytical Services |
| Idaho | Boise | US Bureau of Reclamation |
| | Pocatello | Idaho State University |
| Illinois | Champaign | Hazardous Waste Research Center |
| | Champaign | Illinois Environmental Protection Agency |
| Iowa | Des Moines | University Hygienic Laboratory, Des Moines Branch |

Table 1.-Laboratory participants in the analyses of standard reference samples distributed in April 1997 --continued

| State | City | Participating Laboratory |
|----------------|---|---|
| Kansas | Lawrence | Kansas Geological Survey |
| | Topeka | City of Topeka |
| | Wichita | City of Wichita |
| Kentucky | Frankfort | Division of Environmental Studies |
| | Lexington | Kentucky Geological Survey |
| | Louisville | Metropolitan Sewer District |
| Maine | Orono | University of Maine |
| | Orono | Environmental Chemistry Lab |
| Maryland | Baltimore | Maryland Department of Health and Mental Hygiene |
| Michigan | Detroit | Detroit Water and Sewerage Department |
| Minnesota | Minneapolis | University of Minnesota, Department of Geology and Geophysics |
| | St. Paul | Metro Waste Control Commission |
| | St. Paul | University of Minnesota |
| Missouri | Columbia | University of Missouri |
| | Jefferson City | Missouri Department of Health |
| Montana | Butte | Montana Bureau of Mines & Geology |
| | Helena | Department of Health & Environmental Sciences |
| | Jefferson City | Montana Tunnels Laboratory |
| Nevada | Boulder City | U.S. Bureau of Reclamation |
| | Las Vegas | University of Nevada - Las Vegas |
| | Reno | Desert Research Institute |
| | Reno | Nevada State Health Laboratory |
| | Reno | Reno-Sparks Wastewater Treatment |
| | Sutcliffe | Pyramid Lake Fisheries |
| New York | Buffalo | Erie County Public Health Lab |
| | Grahamsville | New York City Department of Environmental Protection |
| | Hauppauge | Suffolk County Water Authority |
| | Hempstead | Nassau County Department of Health |
| | Milbrook | Institute of Ecosystem Studies |
| | North Babylon | Ecotest Laboratories |
| | Port Washington | Nytest Environmental, Inc. |
| | Rochester | Monroe County |
| | Shokan | New York City Department of Environmental Protection |
| | Syracuse | Onandaga County DDS |
| | Syracuse | SUNY CESF |
| | Troy | USGS WRD |
| | Valhalla | Department of Environmental Protection |
| Wantagh | Cedar Creeks Projects laboratory | |
| Yorktown | New York City Department of Environmental | |
| North Carolina | Chapel Hill | City of Durham Water Resources |
| | Charlotte | Mecklenburg County |
| North Dakota | Durham | Duke University |
| | Bismarck | North Dakota Health Department |
| | Bismarck | North Dakota State Water Commission |
| Ohio | Bismarck | U.S. Bureau of Reclamation |
| | Cincinnati | U.S. EPA |
| | Cuyahoga Heights | Northeast Ohio Regional Sewer District |
| | Medina | Medina County Sanitary Engineering |
| | Tiffin | Heidelberg College |
| Oklahoma | Wooster | The Ohio State University |
| | Norman | Oklahoma Geological Survey |
| | Oklahoma City | Oklahoma Department of Environmental Quality |
| Oregon | Corvallis | USDA |
| | Corvallis | USDA CCAL |

Table 1.-Laboratory participants in the analyses of standard reference samples distributed in April 1997 --continued

| <u>State</u> | <u>City</u> | <u>Participating Laboratory</u> |
|----------------|-----------------|--|
| Oregon | Tigard | Unified Sewerage Agency |
| Pennsylvania | Harrisburg | Pennsylvania Department of Environmental Resources |
| | Somerset | Geochemical Testing |
| Puerto Rico | San Juan | Department of Natural Resources |
| South Carolina | Cayce | Shealy Environmental Testing |
| | Columbia | Columbia Analytical Services |
| South Dakota | Brookings | SDSU - Water Quality Laboratory |
| | Brookings | Northern Great Plains |
| Tennessee | Chattanooga | TVA Environmental Chemistry |
| Texas | Austin | Lower Colorado River Authority |
| | College Station | Texas A & M |
| | College Station | Intermountain Labs |
| Vermont | Waterbury | Vermont Agency of Natural Resources |
| Virginia | Chesapeake | City of Chesapeake |
| | Manassas | Occoquan Watershed Monitoring Laboratory |
| | Richmond | Consolidated Laboratory Services |
| Washington | Richland | Battelle Pacific NW |
| | Seattle | Frontier Geoscience |
| | Seattle | Brooks-Rand, Ltd. |
| Wisconsin | Madison | University of Wisconsin, Department of Hygiene |
| | Milwaukee | Milwaukee Metro Sewerage District |
| Wyoming | Wyoming | Department of Agriculture |

European Laboratories

| <u>Location</u> | <u>Participating Laboratory</u> |
|-----------------|--|
| Norway | Oslo Norwegian Institute for Water Research |

Middle East Laboratories

| <u>Location</u> | <u>Participating Laboratory</u> |
|-----------------|--|
| Gaza | Al-Azar University, Water Research Center Laboratory Birzeit University - Gaza Ministry of Agriculture Laboratory Ministry of Health, Public Health Laboratory |
| Israel | Geological Survey of Israel Laboratory Israeli Hydrological Service Laboratory Mekeroth Water Company, Ashqelon Laboratory Mekeroth Water Company, Central Laboratory Mekeroth Water Company, Dan Sewage Treatment Plant Mekeroth Water Company, Eylat Laboratory Mekeroth Water Company, Lake Kinneret Laboratory Mekeroth Water Company, Rosh Ha'ayn Laboratory Water Resources Research Center, Institute for Desert Research |
| Jordan | Royal Scientific Society of Jordan, Environmental Research Center Laboratory Water Authority of Jordan, Central Laboratory |
| West Bank | Al-Quds University, College of Science and Technology, Water Research Center Bethlehem University, Water and Soil Environmental Research Unit Birzeit University, Center for Environmental & Occupational Health Sciences Najah Water & Environmental Studies Center |

PREPARATION OF STANDARD REFERENCE SAMPLES

All of the SRSs used in this evaluation were prepared by USGS personnel located in Lakewood, Colorado and were analyzed for analyte concentrations and physical property values prior to mailing. A library of these SRSs is maintained and can be requested by participating laboratories and USGS offices for use in their quality-control programs.

Trace constituents sample T-147 was prepared using water collected from the Rio Grande River near Alde, New Mexico. The water was pumped through 0.45- 0.2- and 0.1- μm filters, in series, into a 1200-L polypropylene drum. The water was continuously circulated and passed through a 0.1- μm filter and ultraviolet sterilizer for 24 hours. Following this circulation, the water was acidified to pH 1.3 with nitric acid and chlorinated to 5 ppm free chlorine with sodium hypochlorite. The trace constituent concentrations were adjusted by adding reagent grade chemicals. The sample was circulated an additional 24 hours prior to bottling. During bottling, the sample was pumped through an ultraviolet sterilizer and a 0.1 μm filter. The polypropylene bottles used were acid leached, deionized-water rinsed, and autoclave sterilized.

Trace constituents sample T-149 was prepared using water collected from the Gunnison River near Delta, Colorado. The water was pumped through 0.45- 0.2- and 0.1- μm filters, in series, into a 1200-L polypropylene drum. The water was continuously circulated and passed through a 0.1- μm filter and ultraviolet sterilizer for 24 hours. Following this circulation, the water was acidified to pH 1.3 with nitric acid and chlorinated to 5 ppm free chlorine with sodium hypochlorite. The trace constituent concentrations were adjusted by adding reagent grade chemicals. The sample was circulated an additional 24 hours prior to bottling. During bottling the sample was pumped through an ultraviolet sterilizer and a 0.1- μm filter. The 500-mL polypropylene bottles used were acid leached, deionized-water rinsed, and autoclave sterilized.

Major constituents sample M-142 was prepared using water collected from the Missouri River near Omaha, Nebraska. The water was pumped through 0.45- 0.2- and 0.1- μm filters, in series, into a 1200-L polypropylene drum. The water was chlorinated to 5-ppm free chlorine with sodium hypochlorite, continuously circulated, and passed through a 0.1- μm filter and ultraviolet sterilizer for 24 hours prior to bottling. During bottling the sample was pumped through an ultraviolet sterilizer and a 0.1- μm filter. The 500-mL polypropylene bottles used were acid leached, deionized-water rinsed, and autoclave sterilized.

Nutrient constituents sample N-53 was prepared using deionized water. These samples were prepared the week prior to the mailing for this SRS evaluation. The water was pumped through 0.45- 0.2- and 0.1- μm filters, in series, into a 600-L polypropylene drum and continuously circulated and passed through a 0.1- μm filter for 24 hours. The desired nutrient concentrations were obtained by adding reagent-grade chemicals. The sample was continuously circulated for 24 hours prior to being bottled. The 30-mL glass vials used were new, amber, acid leached, and deionized-water rinsed.

Nutrient constituents sample N-54 was prepared using water collected from the Fall River near Idaho Springs, Colorado. These samples were prepared the week prior to the mailing for this SRS evaluation. The water was pumped through 0.45- 0.2- and 0.1- μm filters, in series, into a 600-L polypropylene drum and continuously circulated and passed through a 0.1- μm filter for 24 hours. The desired nutrient concentrations were obtained by adding reagent-grade chemicals. The sample was continuously circulated for 24 hours prior to being bottled. The 250-mL polyethylene bottles used were new, amber, acid leached, and deionized-water rinsed.

Low ionic strength constituents sample P-28 was prepared in a 400-L polypropylene drum using snow collected from the Squaw pass near Idaho Springs, Colorado. The water was pumped into the drum through 0.45- 0.2- and 0.1- μ m filters in series. Desired phosphate and fluoride concentrations were obtained by adding reagent-grade chemicals. Prior to bottling, the sample was continuously mixed for 24 hours while being circulated through a 0.1- μ m filter and an ultraviolet sterilizer. During bottling the sample was pumped through an ultraviolet sterilizer and a 0.1- μ m filter. The 500-mL polypropylene bottles used were acid leached, deionized-water rinsed, and autoclave sterilized.

Ground-water constituents sample GW-1 was prepared using water collected from a well in Ohio. The water was pumped through 0.45- 0.2- and 0.1- μ m filters, in series, into a 200-L polypropylene drum. The water was acidified to a pH of about 1.0 with nitric acid. During bottling the sample was pumped through an ultraviolet sterilizer and a 0.1- μ m filter. The 250-mL polyethylene bottles used were acid leached, and deionized-water rinsed.

Mercury sample Hg-24 was prepared using water collected from the Fall River near Idaho Springs, Colorado. The sample was prepared in a 190-L polypropylene drum. The river water was pumped into this drum through 0.45- 0.2- and 0.1- μ m filters in series. The water was continuously circulated and passed through a 0.1- μ m filter and ultraviolet sterilizer for 48 hours. Nitric acid (5-percent, by volume) and dichromate compound (0.05-percent, by weight) were added to stabilize the sample. The desired mercury concentration was obtained by adding a mercury standard solution. Following an additional 24 hours of circulation, the sample was bottled. The 250-mL glass bottles and tetrafluoroethylene fluorocarbon resin caps used were new, acid leached, and deionized-water rinsed.

LABORATORY ANALYSES

The participating laboratories were asked to determine constituents that are summarized in table 2. The number of analytes varied from 28 in T-147 & T-149 (trace constituents) and GW-1 (ground-water constituents) to 1 in Hg-24 (mercury).

Table 2.-Constituents determined in standard reference samples distributed in April 1997

| [mg/L, milligrams per liter; µg/L, micrograms per liter; µS/cm, microsiemens per centimeter at 25 degrees Celsius] | | | T-147,T-149 | M-142 | N-53, N-54 | P-28 | GW-1 | Hg-24 |
|--|---------------------------------|-------|-------------|-------|------------|------|------|-------|
| Constituent or property | | Units | | | | | | |
| Acidity | Acidity as CaCO ₃ | mg/L | | | | X | | |
| Alk | Alkalinity as CaCO ₃ | mg/L | | X | | | | |
| Ag | Silver | µg/L | X | | | | X | |
| Al | Aluminum | µg/L | X | | | | X | |
| As | Arsenic | µg/L | X | | | | X | |
| B | Boron | µg/L | X | | | | X | |
| Ba | Barium | µg/L | X | | | | X | |
| Be | Beryllium | µg/L | X | | | | X | |
| Ca | Calcium | mg/L | X | X | | X | X | |
| Cd | Cadmium | µg/L | X | | | | X | |
| Cl | Chloride | mg/L | | X | | | X | |
| Co | Cobalt | µg/L | X | | | | X | |
| Cr | Chromium | µg/L | X | | | | X | |
| Cu | Copper | µg/L | X | | | | X | |
| DSRD | Dissolved solids | mg/L | | X | | | | |
| F | Fluoride | mg/L | | X | | X | | |
| Fe | Iron | µg/L | X | | | | X | |
| Hg | Mercury | µg/L | | | | | | X |
| K | Potassium | mg/L | X | X | | X | X | |
| Li | Lithium | µg/L | X | | | | | |
| Mg | Magnesium | mg/L | X | X | | X | X | |
| Mn | Manganese | µg/L | X | | | | X | |
| Mo | Molybdenum | µg/L | X | | | | X | |
| Na | Sodium | mg/L | X | X | | X | X | |
| NH ₃ as N | Ammonia | mg/L | | | X | | | |
| NH ₃ +Org N as N | Ammonia + Organic N | mg/L | | | X | | | |
| Ni | Nickel | µg/L | X | | | | X | |
| NO ₃ +NO ₂ as N | Nitrate + Nitrite | mg/L | | | X | | | |
| Pb | Lead | µg/L | X | | | | X | |
| pH | | unit | | X | | X | | |
| PO ₄ as P | Orthophosphate | mg/L | | | X | | | |
| total P as P | Phosphorus | mg/L | | X | X | X | | |
| Sb | Antimony | µg/L | X | | | | X | |
| Se | Selenium | µg/L | X | | | | X | |
| SiO ₂ | Silica | mg/L | X | X | | | X | |
| SO ₄ | Sulfate | mg/L | | X | | X | X | |
| Sp Cond | Specific conductance | µS/cm | | X | | X | | |
| Sr | Strontium | µg/L | X | X | | | X | |
| Tl | Thallium | µg/L | X | | | | X | |
| U | Uranium | µg/L | X | | | | | |
| V | Vanadium | µg/L | X | X | | | X | |
| Zn | Zinc | µg/L | X | | | | X | |

Laboratories were requested to identify the method used for each constituent according to table 3 analytical method codes.

Table 3. Analytical method codes

| Code | Method |
|------|---|
| 0 | Other |
| 1 | Atomic absorption: direct, air |
| 2 | Atomic absorption: direct, nitrous oxide |
| 3 | Atomic absorption: graphite furnace |
| 4 | Inductively coupled plasma |
| 5 | Direct current plasma |
| 6 | Inductively coupled plasma/mass spectrometry |
| 7 | Ion chromatography |
| 8 | Atomic absorption: cold vapor |
| 9 | Atomic fluorescence |
| 10 | Atomic absorption: extraction [<i>specify chelating agents</i>] |
| 11 | Atomic absorption: hydride [<i>specify reducing agent</i>] |
| 12 | Flame emission |
| 20 | Titration: colorimetric [<i>specify color reagent</i>] |
| 21 | Titration: electrometric [<i>specify reducing or oxidizing agent/color reagent</i>] |
| 22 | Colorimetric: [<i>specify reducing or oxidizing agent/color reagent</i>] |
| 40 | Ion selective electrode |
| 41 | Electrometric [<i>pH and specific conductance</i>] |
| 50 | Gravimetric: [<i>specify filtration, evaporation, and so forth</i>] |
| 51 | Turbidimetric |

Participating laboratories were also asked to identify the method used, such as those references listed next, to further define the methods.

1. American Public Health Association and others, 1992, Standard methods for the examination of water and wastewater (18th ed.): Washington, D.C., American Public Health Association, 981 p.
2. American Society for Testing and Materials, Annual book of ASTM standards: Philadelphia, v. 11.01, and v. 11.02.
3. Kopp, J.F., and McKee, G.F., 1979, Methods for chemical analysis of water and wastes: Cincinnati, U.S. Environmental Protection Agency, EPA 600/4-79-020, rev. 1983, 460 p.
4. Fishman, M.J., and Friedman, L.C., eds., 1989. Methods for determination of inorganic substances in water and fluvial sediments (3d ed.): U.S. Geological Survey Techniques of Water-Resources Investigations, Book 5, Chapter A1, 545 p.
5. Miscellaneous manufacturer's instrument manuals or references.

LABORATORY PERFORMANCE RATINGS

To facilitate laboratory intercomparison, laboratory performance ratings, based on the analyses reported for each SRS, are included in tables 4 through 12 in this report. For each SRS, averages of all the analyte ratings and the number of analyte values reported are given for each participating laboratory. In some cases, laboratory reported values in tables 4 - 12 may have been reformatted in terms of significant figures to meet publication criteria. For example, a reported value of 15 may have been changed to 15.0 or a value of 102.86 may have changed to 102.9 in these tables. However, the actual reported values by all the laboratories were used to calculate the statistical results and performance ratings presented in the report.

Laboratory performance for each analyte is rated on a scale 4 to 0, based on the absolute Z-value, as listed below:

| Rating | Absolute Z-value |
|------------------|-------------------|
| 4 (Excellent) | 0.00 to 0.50 |
| 3 (Good) | 0.51 to 1.00 |
| 2 (Satisfactory) | 1.01 to 1.50 |
| 1 (Questionable) | 1.51 to 2.00 |
| 0 (Poor) | Greater than 2.00 |

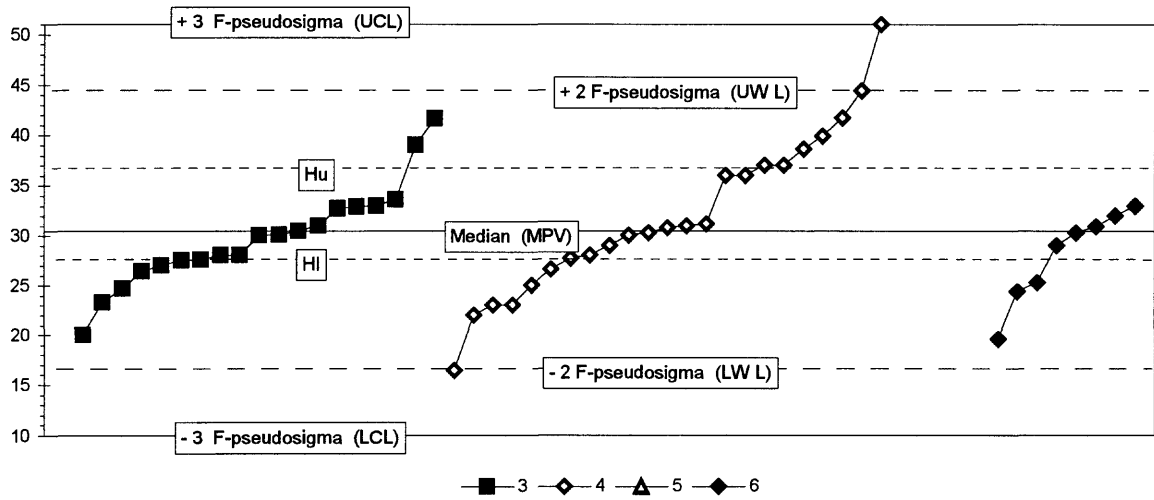
Overall laboratory performance ratings greater than 2.4 are considered satisfactory. Overall laboratory performance ratings between 2.0 and 2.39 are considered marginal; those less than 2.0 are considered poor. These ratings should be reviewed and evaluated on a case-by-case basis for each laboratory considering such factors as methods used and data needs of specific USGS projects using the laboratory data.

STATISTICAL PRESENTATION OF DATA

Data in this report have been evaluated using nonparametric statistics as described by Hoaglin and others (1983). This statistical approach is a resistant statistic because the median is not influenced by outliers as is the mean in traditional statistics. Analytical data for each analyte are presented in tabular and graphical forms in tables 13 through 20. Tabulated data for each analyte include the laboratory code number, reported values, analytical method, most probable value (MPV), number of reported values - excluding less than values (N), data range, Z-value, and the F-pseudostandard deviation. The Z-value is equivalent to the Z-score of traditional statistics, being the number of deviations the reported value is from the MPV. The F-pseudostandard deviation is equivalent to the standard deviation (σ) of traditional statistics when the data has a Gaussian distribution. If an analyte has a sufficient number of determinations by a given method, usually 7, the F-pseudostandard deviation for that analytical method is reported in the block of data listed for each analyte.

The median value is considered the MPV. The median (midpoint) divides the ordered data into halves and is designated the MPV. The hinges include the middle 50-percent of the data and are the mid-values of the upper and lower halves of the data. The hinges are similar to quartiles, but are not mathematically equivalent. The range of data between the upper hinge (Hu) and the lower hinge (Hl), the hinge spread (H-spr), is used to calculate the F-pseudostandard deviation, the laboratory performance rating, the upper warning level (UWL) and lower warning level (LWL), the upper control level (UCL) and the lower control level (LCL). The F-pseudostandard deviation is calculated by comparison of the H-spr value to the Gaussian distribution relation; 67.45 percent of the data "hinges" between plus and minus 1σ , resulting in a H-spr of $2 \times 0.6745 = 1.349\sigma$. This relation allows the calculation of the F-pseudostandard deviation = (H-spr)/1.349. Laboratories reporting "less than" values are not performance rated unless their reported "less than" values are greater than two Z-values from the MPV.

The graphical plot of the reported data is shown in figure 1. The upper and lower boundaries of the graphical plots generally are +3 and -3 F-pseudosigma deviations from the median. Computer-program scaling constraints do not permit these boundaries to always be graphed at exactly these values are shown in the graphical plot. Reported values grouped by analytical method in ascending order of value. Lines designate the MPV, Hu, HI, and the (UWL) and (LWL) at +2 and -2 F-pseudosigma, respectively. "Less than" values are not plotted.



NOTE: vertical scale is the concentration value of the individual analyte in appropriate units (see table 2.) Horizontal scale is the laboratory reported values separated by method (different symbols) and plotted by increasing values. Numbers next to each symbol at the bottom of the figure are method codes that are described in table 3.

Figure 1.-Statistical parameters shown on reported-data graphs in tables 13 - 20

REFERENCE

Hoaglin, D.C., Mosteller, F., and Tukey, J.W., eds., 1983, Understanding robust and exploratory data analysis: New York, NY, John Wiley, Inc., 447 p.

Table 5. Laboratory performance ratings for standard reference water sample T-147 (trace constituents)

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Ag (Silver) | | | Al (Aluminium) | | As (Arsenic) | | B (Boron) | | Ba (Barium) | | Be (Beryllium) | | Ca (Calcium) | | | |
|-----------------------|-----|------|-----------------|----|--------------|----|-----------|----|-------------|----|----------------|----|--------------|----|--------|---|
| Lab | OLR | V/28 | MPV = 7.60 µg/L | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | |
| 1 | 3.7 | 26 | 7.36 | 4 | 12.0 | 4 | 2.20 | 4 | 50.4 | 4 | 73.4 | 4 | 15.9 | 4 | 40.5 | 4 |
| 3 | 2.4 | 22 | 10.00 | 0 | < 30 | NR | < 5 | NR | 53.0 | 3 | 75.0 | 3 | 17.0 | 3 | 43.8 | 1 |
| 4 | 2.6 | 11 | | | < 500 | NR | | | 53.0 | 3 | 74.0 | 4 | 15.0 | 3 | 45.0 | 0 |
| 9 | 2.3 | 12 | | | | | | | | | | | | | 37.0 | 0 |
| 10 | 3.0 | 7 | | | | | | | | | | | | | | |
| 11 | 2.1 | 20 | 7.00 | 3 | | | | | 138.0 | 0 | 75.0 | 3 | 17.0 | 3 | 44.2 | 1 |
| 12 | 1.3 | 9 | 9.80 | 0 | | | | | | | | | | | 41.0 | 4 |
| 13 | 2.9 | 17 | 6.31 | 1 | 11.1 | 4 | < 5 | NR | | | 75.6 | 3 | 16.6 | 3 | 43.1 | 2 |
| 16 | 3.0 | 26 | 7.40 | 4 | 12.6 | 4 | 2.30 | 4 | 157.0 | 0 | 71.2 | 3 | 13.9 | 1 | 43.0 | 2 |
| 18 | 2.9 | 18 | 7.00 | 3 | < 100 | NR | 2.30 | 4 | < 50 | NR | 71.0 | 3 | 15.0 | 3 | 40.6 | 4 |
| 19 | 2.1 | 8 | | | | | | | | | 75.9 | 3 | | | | |
| 21 | 3.0 | 1 | | | | | | | | | | | | | | |
| 23 | 2.8 | 11 | 7.22 | 3 | < 50 | NR | 2.81 | 3 | | | | | | | 46.1 | 0 |
| 24 | 3.0 | 7 | | | | | | | 47.4 | 4 | | | | | 40.1 | 3 |
| 25 | 1.9 | 17 | < 6 | 0 | < 19 | NR | < 50 | NR | < 23 | 0 | 68.4 | 2 | 15.7 | 4 | 43.4 | 2 |
| 26 | 3.5 | 23 | 7.61 | 4 | 11.5 | 4 | 2.28 | 4 | 44.9 | 3 | 74.9 | 3 | 16.6 | 3 | 41.3 | 4 |
| 30 | 3.0 | 20 | 7.50 | 4 | 13.2 | 4 | 3.00 | 3 | | | 75.0 | 3 | 16.7 | 3 | 42.0 | 3 |
| 33 | 2.8 | 8 | | | < 10 | NR | | | | | 79.0 | 1 | | | 41.8 | 4 |
| 34 | 2.8 | 6 | 8.37 | 2 | 26.8 | 1 | 2.10 | 4 | | | | | | | | |
| 36 | 2.2 | 15 | | | | | 2.00 | 3 | | | | | 16.1 | 4 | 43.0 | 2 |
| 39 | 3.1 | 20 | | | | | 2.20 | 4 | 58.1 | 2 | 71.5 | 4 | 15.4 | 3 | 40.2 | 3 |
| 40 | 2.9 | 17 | | | | | | | 45.2 | 3 | 71.7 | 4 | 15.2 | 3 | 39.4 | 3 |
| 42 | 2.4 | 25 | 7.60 | 4 | 14.2 | 4 | 3.50 | 1 | 49.0 | 4 | 74.0 | 4 | 15.8 | 4 | 45.8 | 0 |
| 43 | 3.8 | 6 | | | | | | | | | | | | | 40.7 | 4 |
| 45 | 2.8 | 4 | | | | | | | | | | | | | 41.3 | 4 |
| 46 | 3.3 | 16 | 7.09 | 3 | | | 2.67 | 4 | 45.2 | 3 | 70.3 | 3 | 15.4 | 3 | 40.8 | 4 |
| 48 | 3.3 | 22 | 7.60 | 4 | 13.8 | 4 | 2.80 | 3 | 20.0 | 0 | 72.7 | 4 | 16.7 | 3 | 43.6 | 2 |
| 50 | 2.6 | 20 | 7.80 | 4 | 10.8 | 4 | 2.70 | 4 | | | 69.2 | 2 | 13.8 | 1 | | |
| 51 | 2.3 | 4 | | | | | | | | | | | | | 38.7 | 2 |
| 59 | 2.2 | 17 | 6.60 | 2 | | | 2.30 | 4 | | | 73.0 | 4 | 14.0 | 1 | 42.0 | 3 |
| 61 | 2.1 | 21 | 8.10 | 3 | 62.0 | 0 | < 4.5 | NR | 35.5 | 0 | 77.5 | 2 | 16.4 | 4 | 43.7 | 2 |
| 64 | 3.0 | 4 | | | | | | | | | | | | | | |
| 68 | 2.7 | 24 | 8.40 | 2 | 42.0 | 0 | 2.80 | 3 | 88.0 | 0 | 73.0 | 4 | 16.0 | 4 | 41.0 | 4 |
| 69 | 2.4 | 18 | 6.60 | 2 | 13.0 | 4 | < 5 | NR | | | 80.5 | 0 | 15.2 | 3 | 40.1 | 3 |
| 70 | 2.9 | 14 | < 10 | NR | < 100 | NR | < 10 | NR | < 100 | NR | 72.4 | 4 | 16.0 | 4 | 42.5 | 3 |
| 76 | 3.7 | 10 | | | | | | | | | | | | | 41.6 | 4 |
| 80 | 2.9 | 7 | | | | | 2.40 | 4 | | | | | | | | |
| 81 | 3.0 | 22 | 8.00 | 3 | < 32 | NR | 3.00 | 3 | | | 74.0 | 4 | 15.0 | 3 | 41.8 | 4 |
| 83 | 2.2 | 14 | | | < 25 | NR | | | | | 66.3 | 0 | 14.3 | 2 | 38.4 | 1 |
| 84 | 2.7 | 6 | | | | | | | | | | | | | 40.5 | 4 |
| 85 | 2.2 | 20 | 9.00 | 1 | | | 4.00 | 0 | 47.0 | 3 | 74.0 | 4 | 15.0 | 3 | 41.0 | 4 |
| 86 | 2.8 | 16 | | | | | 1.56 | 2 | 46.1 | 3 | 73.5 | 4 | 16.1 | 4 | 42.9 | 2 |
| 87 | 2.0 | 16 | 13.00 | 0 | | | 2.70 | 4 | | | 72.4 | 4 | | | 38.1 | 1 |
| 89 | 2.7 | 20 | 7.33 | 4 | 16.9 | 4 | 2.25 | 4 | | | 89.6 | 0 | 14.1 | 1 | 40.0 | 3 |
| 91 | 4.0 | 1 | | | | | | | | | | | | | | |
| 93 | 2.0 | 4 | | | | | | | | | | | | | 40.3 | 4 |
| 96 | 2.7 | 11 | 8.10 | 3 | | | 2.00 | 3 | | | < 100 | NR | 15.0 | 3 | | |
| 97 | 2.8 | 24 | 4.96 | 0 | 15.0 | 4 | 1.96 | 3 | | | 75.0 | 3 | 16.9 | 3 | 41.2 | 4 |
| 104 | 3.0 | 1 | | | | | | | | | | | | | | |
| 105 | 2.7 | 23 | 6.50 | 2 | 15.2 | 4 | < 4 | NR | | | 66.9 | 1 | 12.8 | 0 | 41.1 | 4 |
| 107 | 2.7 | 11 | 7.50 | 4 | | | < 5 | NR | | | 71.0 | 3 | | | | |
| 108 | 0.7 | 14 | 3.00 | 0 | | | 1.55 | 2 | | | | | | | 175.0 | 0 |
| 109 | 3.1 | 12 | | | | | 1.80 | 3 | | | | | | | 40.5 | 4 |
| 111 | 2.2 | 13 | | | | | 3.30 | 2 | | | | | | | 48.2 | 0 |
| 113 | 2.9 | 21 | 7.48 | 4 | 12.3 | 4 | 2.07 | 4 | | | 68.2 | 1 | 15.7 | 4 | 45.2 | 0 |
| 114 | 1.7 | 9 | < 10 | NR | | | | | | | | | < 10 | 0 | 37.0 | 0 |
| 119 | 2.9 | 26 | 8.00 | 3 | 13.2 | 4 | 2.40 | 4 | 55.0 | 3 | 75.0 | 3 | 15.7 | 4 | 42.2 | 3 |
| 121 | 3.1 | 14 | | | | | | | | | 70.0 | 3 | 17.0 | 3 | 40.8 | 4 |
| 127 | 3.0 | 24 | 7.25 | 4 | < 30 | NR | 2.05 | 3 | 44.8 | 3 | 72.5 | 4 | 15.1 | 3 | 40.2 | 3 |
| 129 | 0.7 | 7 | | | | | | | 15.0 | 0 | | | | | 47.0 | 0 |

Table 5. Laboratory performance ratings for standard reference water sample T-147 (trace constituents)

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Ag (Silver) | | Al (Aluminium) | | As (Arsenic) | | B (Boron) | | Ba (Barium) | | Be (Beryllium) | | Ca (Calcium) | | | | |
|-----------------------|------|----------------|--------|--------------|--------|-----------|--------|-------------|--------|----------------|--------|--------------|------|--------|------|---|
| MPV = | µg/L | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | mg/L | | | |
| F-pseudostigma = | 0.75 | | | 7.5 | | 0.67 | | 5.8 | | 3.2 | | 1.1 | 1.7 | | | |
| Lab | OLR | V/28 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | | |
| 131 | 1.8 | 21 | | | < 100 | NR | 12.00 | 0 | 50.0 | 4 | 75.5 | 3 | 14.0 | 1 | 42.7 | 3 |
| 133 | 2.6 | 12 | 8.04 | 3 | | | < 5 | NR | | | 76.5 | 2 | 17.6 | 2 | 43.3 | 2 |
| 134 | 3.6 | 26 | 7.11 | 3 | 12.3 | 4 | 2.16 | 4 | 50.4 | 4 | 71.9 | 4 | 15.5 | 4 | 40.0 | 3 |
| 138 | 3.5 | 25 | 7.03 | 3 | 12.4 | 4 | 1.98 | 3 | 51.4 | 4 | 72.0 | 4 | 15.9 | 4 | 41.4 | 4 |
| 140 | 2.1 | 15 | 7.00 | 3 | | | | | | | 245.0 | 0 | | | 37.0 | 0 |
| 141 | 2.4 | 20 | 8.30 | 3 | < 50 | NR | < 5 | NR | 50.0 | 4 | 77.4 | 2 | 16.6 | 3 | 43.5 | 2 |
| 142 | 3.0 | 26 | 3.97 | 0 | < 50 | NR | 2.22 | 4 | 48.1 | 4 | 75.0 | 3 | 18.5 | 0 | 40.8 | 4 |
| 143 | 4.0 | 5 | | | | | 2.09 | 4 | | | | | | | | |
| 145 | 2.3 | 22 | | | < 50 | NR | 10.00 | 0 | 38.0 | 0 | 74.0 | 4 | 16.0 | 4 | 42.1 | 3 |
| 146 | 2.7 | 14 | < 10 | NR | < 200 | NR | < 10 | NR | | | 77.6 | 2 | 16.7 | 3 | 41.9 | 4 |
| 147 | 3.7 | 26 | 7.50 | 4 | 13.0 | 4 | 2.38 | 4 | 52.0 | 4 | 70.0 | 3 | 15.8 | 4 | 41.0 | 4 |
| 149 | 2.8 | 13 | 8.00 | 3 | | | 2.00 | 3 | | | | | 15.0 | 3 | 38.7 | 2 |
| 151 | 3.3 | 22 | 7.80 | 4 | 14.2 | 4 | 2.60 | 4 | | | 80.3 | 0 | 16.1 | 4 | 42.4 | 3 |
| 154 | 2.3 | 21 | | | 6.0 | 2 | 1.40 | 2 | 49.3 | 4 | 65.0 | 0 | 16.6 | 3 | 40.2 | 3 |
| 158 | 3.2 | 17 | | | 24.9 | 2 | | | 49.8 | 4 | 70.8 | 3 | 16.0 | 4 | 41.6 | 4 |
| 180 | 2.9 | 16 | 8.90 | 1 | 27.5 | 1 | < 40.1 | NR | 48.3 | 4 | 70.7 | 3 | 14.9 | 3 | 41.6 | 4 |
| 183 | 1.4 | 10 | 8.42 | 2 | | | | | | | 84.7 | 0 | | | 31.4 | 0 |
| 185 | 2.5 | 6 | | | 22.6 | 2 | | | | | | | | | 40.3 | 4 |
| 190 | 2.4 | 15 | 8.83 | 1 | 11.5 | 4 | | | | | | | | | 42.7 | 3 |
| 191 | 3.3 | 18 | | | 14.0 | 4 | 2.90 | 3 | | | 76.7 | 2 | | | 40.3 | 4 |
| 193 | 2.8 | 12 | 7.50 | 4 | | | < 5 | NR | | | | | 15.0 | 3 | 38.5 | 2 |
| 196 | 3.7 | 24 | 7.46 | 4 | 13.5 | 4 | 2.49 | 4 | | | 73.3 | 4 | 16.6 | 3 | 41.2 | 4 |
| 198 | 3.3 | 16 | 8.10 | 3 | 15.9 | 4 | 2.66 | 4 | | | 75.6 | 3 | 17.2 | 2 | 42.6 | 3 |
| 204 | 1.0 | 1 | | | | | | | | | | | | | | |
| 209 | 0.5 | 2 | | | | | | | | | | | | | 44.1 | 1 |
| 212 | 2.9 | 23 | 6.85 | 3 | < 100 | NR | 2.65 | 4 | 55.2 | 3 | 68.4 | 2 | 12.6 | 0 | 42.0 | 3 |
| 213 | 2.7 | 10 | 8.03 | 3 | | | 2.60 | 4 | | | | | 19.2 | 0 | | |
| 215 | 2.5 | 21 | 8.00 | 3 | < 50 | NR | < 5 | NR | 50.0 | 4 | 73.0 | 4 | 16.0 | 4 | 40.3 | 4 |
| 217 | 3.0 | 26 | 7.80 | 4 | 34.2 | 0 | 1.09 | 1 | 39.2 | 1 | 72.4 | 4 | 16.4 | 4 | 40.8 | 4 |
| 218 | 1.3 | 7 | | | 120.7 | 0 | | | | | | | | | 44.0 | 1 |
| 219 | 2.9 | 17 | | | 14.0 | 4 | | | 50.0 | 4 | 70.0 | 3 | 16.0 | 4 | 40.0 | 3 |
| 220 | 3.4 | 16 | | | | | 1.95 | 3 | | | 72.8 | 4 | 15.6 | 4 | 39.0 | 2 |
| 221 | 3.8 | 15 | 7.43 | 4 | 9.9 | 3 | | | | | | | | | 40.5 | 4 |
| 224 | 1.1 | 17 | | | 11.3 | 4 | 4.20 | 0 | | | 87.5 | 0 | 11.4 | 0 | 22.2 | 0 |
| 234 | 3.0 | 26 | 7.66 | 4 | 16.1 | 4 | 3.31 | 2 | 48.6 | 4 | 76.4 | 2 | 16.6 | 3 | 42.0 | 3 |
| 235 | 2.7 | 19 | | | 14.4 | 4 | 3.88 | 0 | | | 78.8 | 1 | 16.3 | 4 | 36.7 | 0 |
| 236 | 2.0 | 22 | 6.00 | 0 | 16.0 | 4 | < 35 | NR | 39.0 | 1 | 71.0 | 3 | 16.0 | 4 | 39.5 | 3 |
| 237 | 2.6 | 15 | | | 30.0 | 0 | | | | | 71.0 | 3 | 16.0 | 4 | 40.3 | 4 |
| 241 | 2.5 | 23 | 6.10 | 1 | 11.8 | 4 | 1.80 | 3 | | | 59.3 | 0 | 8.4 | 0 | 42.0 | 3 |
| 245 | 2.9 | 18 | 7.63 | 4 | 11.0 | 4 | 2.91 | 3 | | | 73.5 | 4 | 16.7 | 3 | | |
| 247 | 0.3 | 23 | < 1 | 0 | 35.5 | 0 | < 5 | NR | 127.0 | 0 | 42.9 | 0 | < 1 | 0 | 40.8 | 4 |
| 252 | 2.2 | 15 | 7.34 | 4 | | | 1.95 | 3 | | | | | 26.0 | 0 | | |
| 255 | 3.7 | 18 | 8.04 | 3 | < 34 | NR | < 5.6 | NR | 50.2 | 4 | 74.6 | 3 | 16.0 | 4 | 40.8 | 4 |
| 256 | 0.9 | 18 | 10.00 | 0 | | | 2.90 | 3 | < 10 | 0 | < 50 | 0 | | | 41.3 | 4 |
| 257 | 1.7 | 16 | 8.76 | 1 | 25.9 | 1 | 2.70 | 4 | | | | | | | 43.0 | 2 |
| 259 | 3.2 | 18 | 7.60 | 4 | 12.3 | 4 | 2.00 | 3 | 65.0 | 0 | 70.0 | 3 | | | | |
| 262 | 2.0 | 2 | | | | | | | | | | | | | 41.5 | 4 |
| 265 | 3.4 | 26 | 8.50 | 2 | 14.8 | 4 | 3.00 | 3 | 52.0 | 4 | 75.0 | 3 | 16.7 | 3 | 40.5 | 4 |
| 268 | 1.0 | 4 | | | | | | | | | | | | | 33.5 | 0 |
| 273 | 2.2 | 20 | 9.14 | 0 | 21.8 | 2 | | | 90.1 | 0 | 63.4 | 0 | | | 42.4 | 3 |
| 274 | 0.3 | 11 | | | | | | | | | | | | | 27.0 | 0 |
| 282 | 2.4 | 14 | < 10 | NR | < 100 | NR | < 5 | NR | < 50 | NR | 71.6 | 4 | 15.8 | 4 | 41.8 | 4 |
| 284 | 1.3 | 24 | 7.00 | 3 | 29.0 | 1 | 2.00 | 3 | | | 76.0 | 3 | 39.0 | 0 | 38.1 | 1 |
| 287 | 1.5 | 13 | | | 2.0 | 1 | | | | | | | | | 36.9 | 0 |
| 289 | 2.3 | 21 | 8.80 | 1 | 10.4 | 4 | < 5 | NR | 30.0 | 0 | 67.0 | 1 | 18.0 | 1 | 38.5 | 2 |
| 292 | 2.6 | 19 | 7.00 | 3 | < 100 | NR | 3.00 | 3 | | | 72.0 | 4 | 19.0 | 0 | 43.1 | 2 |

Table 5. Laboratory performance ratings for standard reference water sample T-147 (trace constituents)--Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = | Cd (Cadmium) | | Co (Cobalt) | | Cr (Chromium) | | Cu (Copper) | | Fe (Iron) | | K (Potassium) | | Li (Lithium) | |
|-----------------|--------------|--------|--------------|--------|---------------|--------|-------------|--------|-----------|--------|---------------|--------|--------------|--------|
| MPV = | 15.9 | µg/L | insuff. data | | 12.8 | µg/L | 11.4 | µg/L | 8.4 | µg/L | 3.52 | mg/L | 18.0 | µg/L |
| F-pseudosigma = | 1.2 | | | | 1.2 | | 1.3 | | 6.4 | | 0.19 | | 1.3 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 15.4 | 4 | < 1 | NR | 11.4 | 2 | 11.0 | 4 | < 10 | NR | 3.48 | 4 | 17.3 | 3 |
| 3 | 158.0 | 0 | < 5 | NR | 13.0 | 4 | 12.0 | 4 | < 30 | NR | 3.10 | 0 | 18.0 | 4 |
| 4 | 16.0 | 4 | < 100 | NR | < 40 | NR | 7.7 | 0 | < 30 | NR | | | < 20 | NR |
| 9 | 15.7 | 4 | | | 13.5 | 3 | 6.0 | 0 | | | 3.40 | 3 | | |
| 10 | 15.0 | 3 | | | 12.8 | 4 | 10.8 | 4 | 17.0 | 2 | | | | |
| 11 | 17.0 | 3 | | | 18.0 | 0 | 14.0 | 0 | | | 3.67 | 3 | 15.0 | 0 |
| 12 | 17.0 | 3 | | | < 20 | NR | 10.0 | 2 | 60.0 | 0 | 3.00 | 0 | | |
| 13 | 15.6 | 4 | < 10 | NR | 12.4 | 4 | < 20 | NR | < 10 | NR | 3.69 | 3 | | |
| 16 | 15.8 | 4 | < 1 | NR | 11.2 | 2 | 11.1 | 4 | 8.4 | 4 | 3.60 | 4 | 14.9 | 0 |
| 18 | 15.0 | 3 | < 10 | NR | 11.0 | 2 | 11.0 | 4 | < 50 | NR | 3.30 | 2 | | |
| 19 | 14.6 | 2 | | | 11.4 | 2 | 9.0 | 1 | | | | | | |
| 21 | | | | | | | | | 12.0 | 3 | | | | |
| 23 | 14.4 | 2 | | | 12.6 | 4 | 11.6 | 4 | < 100 | NR | 3.34 | 3 | | |
| 24 | | | | | | | | | | | 3.26 | 2 | | |
| 25 | 16.0 | 4 | < 12 | NR | < 8 | 0 | 10.0 | 2 | < 6 | NR | 3.59 | 4 | 19.0 | 3 |
| 26 | 17.4 | 2 | < 6 | NR | 13.2 | 4 | 11.3 | 4 | 5.2 | 4 | 3.58 | 4 | 17.8 | 4 |
| 30 | 16.6 | 3 | < 1 | NR | 12.5 | 4 | 11.6 | 4 | | | 3.30 | 2 | | |
| 33 | | | | | | | | | < 20 | NR | 3.60 | 4 | | |
| 34 | 16.0 | 4 | | | | | | | | | | | | |
| 36 | 15.0 | 3 | | | 13.4 | 4 | 9.7 | 2 | | | 3.50 | 4 | | |
| 39 | 16.0 | 4 | | | 12.2 | 4 | 12.5 | 3 | | | | | 16.9 | 3 |
| 40 | 16.3 | 4 | | | 12.0 | 3 | 9.1 | 1 | 6.7 | 4 | 3.47 | 4 | 17.0 | 3 |
| 42 | 17.6 | 2 | < 2 | NR | 11.2 | 2 | 12.1 | 3 | 10.0 | 4 | 3.65 | 3 | | |
| 43 | | | | | | | | | < 10 | NR | 3.50 | 4 | | |
| 45 | | | | | | | | | | | 3.61 | 4 | | |
| 46 | 15.0 | 3 | | | 12.5 | 4 | 12.3 | 3 | | | 3.65 | 3 | | |
| 48 | 16.2 | 4 | < 50 | NR | 12.1 | 3 | 12.1 | 3 | < 30 | NR | 3.44 | 4 | | |
| 50 | 14.6 | 2 | < 1 | NR | 11.2 | 2 | 13.7 | 1 | 2.4 | 3 | | | 16.4 | 2 |
| 51 | | | | | | | | * | | | 3.82 | 1 | | |
| 59 | 14.0 | 1 | | | 11.0 | 2 | 140.0 | 0 | | | | | | |
| 61 | 16.2 | 4 | < 1.7 | NR | 13.5 | 3 | 11.0 | 4 | < 34 | NR | 6.14 | 0 | | |
| 64 | | | | | | | | | | | 3.72 | 2 | | |
| 68 | 17.0 | 3 | < 80 | NR | 13.0 | 4 | 11.0 | 4 | < 39 | NR | 3.60 | 4 | 18.0 | 4 |
| 69 | 15.1 | 3 | | | 11.6 | 3 | 9.2 | 1 | < 50 | NR | 3.82 | 1 | 18.1 | 4 |
| 70 | 18.4 | 0 | < 50 | NR | 14.2 | 2 | 11.4 | 4 | < 20 | NR | 3.54 | 4 | | |
| 76 | 16.5 | 3 | | | 12.2 | 4 | | | | | | | 16.8 | 3 |
| 80 | 16.0 | 4 | | | | | 8.4 | 0 | < 11 | NR | | | | |
| 81 | 16.0 | 4 | < 7 | NR | 13.0 | 4 | 11.0 | 4 | < 9 | NR | 3.59 | 4 | | |
| 83 | 16.6 | 3 | | | 13.4 | 4 | 12.5 | 3 | 8.1 | 4 | 3.61 | 4 | | |
| 84 | | | | | | | 11.3 | 4 | | | | | | |
| 85 | 15.0 | 3 | < 10 | NR | < 10 | 0 | 17.0 | 0 | < 10 | NR | 3.56 | 4 | 18.0 | 4 |
| 86 | 16.1 | 4 | | | | | 13.6 | 1 | | | 3.42 | 3 | | |
| 87 | 17.0 | 3 | | | 11.9 | 3 | 14.0 | 0 | < 40 | NR | 3.39 | 3 | | |
| 89 | 15.9 | 4 | < 10 | NR | 14.1 | 2 | < 10 | NR | < 50 | NR | 3.34 | 3 | | |
| 91 | | | | | | | | | < 10 | NR | | | | |
| 93 | | | | | | | | | | | 3.24 | 1 | | |
| 96 | 17.3 | 2 | | | 13.3 | 4 | 14.0 | 0 | < 50 | NR | | | | |
| 97 | 15.2 | 3 | < 0.5 | NR | 15.2 | 1 | 13.5 | 1 | 9.4 | 4 | 3.49 | 4 | | |
| 104 | | | | | | | | | | | | | | |
| 105 | 14.0 | 1 | < 1 | NR | 11.0 | 2 | 10.8 | 4 | < 10 | NR | 3.62 | 3 | 15.3 | 0 |
| 107 | | | | | 14.0 | 3 | 12.3 | 3 | 40.0 | 0 | 3.49 | 4 | | |
| 108 | 10.1 | 0 | | | 10.0 | 0 | 12.0 | 4 | 63.0 | 0 | 340.00 | 0 | | |
| 109 | | | | | | | | | 9.4 | 4 | 3.73 | 2 | 18.1 | 4 |
| 111 | 14.3 | 2 | | | 13.9 | 3 | 13.2 | 2 | | | 3.60 | 4 | | |
| 113 | 15.9 | 4 | | | 12.0 | 3 | 12.8 | 2 | 6.4 | 4 | 3.93 | 0 | | |
| 114 | 20.0 | 0 | | | 13.0 | 4 | < 10 | NR | < 10 | NR | 3.65 | 3 | | |
| 119 | 14.7 | 2 | 0.16 | NR | 12.8 | 4 | 12.0 | 4 | 15.0 | 2 | 3.20 | 1 | | |
| 121 | 16.5 | 3 | 4.00 | NR | | | 14.0 | 0 | 9.6 | 4 | | | | |
| 127 | 15.8 | 4 | < 0.8 | NR | 11.8 | 3 | 10.5 | 3 | < 5 | NR | 3.41 | 3 | 17.3 | 3 |
| 129 | | | | | | | | | 48.0 | 0 | | | | |

Table 5. Laboratory performance ratings for standard reference water sample T-147 (trace constituents)—Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = | Cd (Cadmium) | | Co (Cobalt) | | Cr (Chromium) | | Cu (Copper) | | Fe (Iron) | | K (Potassium) | | Li (Lithium) | |
|------------------|--------------|--------|--------------|--------|---------------|--------|-------------|--------|-----------|--------|---------------|--------|--------------|--------|
| MPV = | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| F-pseudostigma = | 1.2 | | insuff. data | | 1.2 | | 1.3 | | 6.4 | | 0.19 | | 1.3 | |
| 131 | 15.0 | 3 | 4.00 | NR | 17.0 | 0 | 9.0 | 1 | 8.4 | 4 | 3.70 | 3 | 19.7 | 2 |
| 133 | 17.7 | 1 | | | 14.7 | 1 | 10.6 | 3 | 7.0 | 4 | | | | |
| 134 | 15.3 | 4 | < 1 | NR | 11.7 | 3 | 11.6 | 4 | 7.3 | 4 | 3.50 | 4 | 18.5 | 4 |
| 138 | 15.3 | 3 | < 0.5 | NR | 11.4 | 2 | 11.2 | 4 | 5.7 | 4 | 3.30 | 2 | | |
| 140 | 15.2 | 3 | | | 21.0 | 0 | 13.0 | 2 | 6.0 | 4 | 3.52 | 4 | | |
| 141 | 16.5 | 3 | < 10 | NR | 15.3 | 1 | 10.8 | 4 | < 50 | NR | 3.72 | 2 | | |
| 142 | 15.7 | 4 | < 1 | NR | 11.7 | 3 | 11.1 | 4 | 13.0 | 3 | 3.51 | 4 | 19.0 | 3 |
| 143 | | | | | 12.7 | 4 | | | | | | | | |
| 145 | 18.0 | 1 | 3.00 | NR | 14.0 | 3 | 16.0 | 0 | 7.0 | 4 | 3.55 | 4 | 18.0 | 4 |
| 146 | 16.3 | 4 | < 10 | NR | 14.1 | 2 | < 25 | NR | < 50 | NR | 4.45 | 0 | | |
| 147 | 15.5 | 4 | 0.08 | NR | 13.1 | 4 | 11.2 | 4 | 8.0 | 4 | | | 17.7 | 4 |
| 149 | | | | | | | 11.0 | 4 | < 10 | NR | 3.40 | 3 | | |
| 151 | 16.6 | 3 | | | 11.5 | 2 | 12.6 | 3 | < 10 | NR | 3.40 | 3 | 16.9 | 3 |
| 154 | 16.3 | 4 | | | 11.8 | 3 | 9.6 | 2 | 3.0 | 3 | 3.30 | 2 | | |
| 158 | 15.7 | 4 | | | 16.8 | 0 | 11.9 | 4 | 4.6 | 3 | 3.26 | 2 | | |
| 180 | 16.5 | 3 | < 5.22 | NR | 12.2 | 4 | 12.9 | 2 | < 3.33 | NR | 3.74 | 2 | | |
| 183 | 17.6 | 2 | | | 13.2 | 4 | 11.4 | 4 | | | | | | |
| 185 | | | | | | | | | | | 3.41 | 3 | | |
| 190 | 0.1 | 0 | | | 12.9 | 4 | 11.2 | 4 | 15.6 | 2 | 3.61 | 4 | | |
| 191 | 17.1 | 2 | 0.15 | NR | 12.9 | 4 | 11.9 | 4 | 170.0 | 0 | 3.47 | 4 | | |
| 193 | 15.0 | 3 | | | 12.9 | 4 | < 25 | NR | | | 3.50 | 4 | | |
| 196 | 15.8 | 4 | 0.13 | NR | 12.3 | 4 | 11.9 | 4 | | | 3.56 | 4 | 19.0 | 3 |
| 198 | 15.5 | 4 | | | 13.6 | 3 | 12.1 | 3 | < 50 | NR | 3.49 | 4 | | |
| 204 | | | | | | | | | | | | | | |
| 209 | | | | | | | | | | | | | | |
| 212 | 16.1 | 4 | 0.16 | NR | 9.1 | 0 | 11.2 | 4 | < 100 | NR | 3.65 | 3 | < 50 | NR |
| 213 | 12.6 | 0 | < 0.68 | NR | 14.0 | 3 | 11.8 | 4 | 8.2 | 4 | | | | |
| 215 | 14.0 | 1 | < 1 | NR | 12.0 | 3 | 13.2 | 2 | 10.0 | 4 | 1.00 | 0 | | |
| 217 | 15.1 | 3 | | | 13.8 | 3 | 9.7 | 2 | 27.7 | 0 | 3.28 | 2 | 17.0 | 3 |
| 218 | | | | | | | | | 8.8 | 4 | 3.73 | 2 | | |
| 219 | 14.0 | 1 | | | 12.0 | 3 | 8.0 | 0 | | | 3.50 | 4 | 17.0 | 3 |
| 220 | 13.9 | 1 | 1.80 | NR | 11.3 | 4 | 11.3 | 4 | 6.8 | 4 | 3.31 | 2 | 17.9 | 4 |
| 221 | 16.2 | 4 | 0.50 | NR | 12.4 | 4 | 11.2 | 4 | 7.6 | 4 | 3.52 | 4 | | |
| 224 | 15.3 | 3 | < 3 | NR | | | 14.8 | 0 | 50.4 | 0 | 3.21 | 1 | | |
| 234 | 15.9 | 4 | 0.33 | NR | 14.4 | 2 | 12.0 | 4 | 7.1 | 4 | 3.63 | 3 | 17.0 | 3 |
| 235 | 17.0 | 3 | | | 12.7 | 4 | 11.3 | 4 | < 10 | NR | | | | |
| 236 | 17.0 | 3 | 8.00 | NR | 13.0 | 4 | 8.0 | 0 | 7.0 | 4 | 3.06 | 0 | 16.0 | 1 |
| 237 | 18.0 | 1 | < 10 | NR | < 10 | 0 | 11.0 | 4 | 20.0 | 1 | | | 20.0 | 1 |
| 241 | 15.6 | 4 | | | 12.8 | 4 | 10.1 | 2 | 7.0 | 4 | 3.40 | 3 | | |
| 245 | 15.2 | 3 | 0.21 | NR | 11.2 | 2 | 11.0 | 4 | 147.0 | 0 | | | | |
| 247 | 2.3 | 0 | < 1 | NR | 44.5 | 0 | 7.3 | 0 | | | 1.80 | 0 | 36.6 | 0 |
| 252 | 14.6 | 2 | | | 12.9 | 4 | 11.1 | 4 | 1.0 | 2 | | | | |
| 255 | 16.4 | 4 | < 4.1 | NR | 10.8 | 1 | 11.8 | 4 | < 68 | NR | 3.58 | 4 | | |
| 256 | 18.9 | 0 | < 50 | NR | 15.0 | 1 | 10.0 | 2 | < 10 | NR | 4.30 | 0 | 120.0 | 0 |
| 257 | 18.0 | 1 | < 0.04 | NR | 17.7 | 0 | 14.0 | 0 | < 0.02 | NR | 4.10 | 0 | 18.0 | 4 |
| 259 | 15.0 | 3 | | | 11.8 | 3 | 11.5 | 4 | 8.0 | 4 | 3.50 | 4 | | |
| 262 | | | | | | | | | | | | | | |
| 265 | 16.5 | 3 | 0.04 | NR | 13.4 | 4 | 12.6 | 3 | < 10 | NR | 3.52 | 4 | 18.0 | 4 |
| 268 | | | | | | | | | | | 4.53 | 0 | | |
| 273 | 9.4 | 0 | 6.70 | NR | 13.0 | 4 | 12.5 | 3 | 7.2 | 4 | 3.50 | 4 | 21.2 | 0 |
| 274 | 7.6 | 0 | | | | | 17.0 | 0 | 453.7 | 0 | 4.85 | 0 | | |
| 282 | 16.1 | 4 | < 20 | NR | 13.5 | 3 | < 10 | NR | < 50 | NR | 4.20 | 0 | | |
| 284 | 20.0 | 0 | 20.00 | NR | 8.0 | 0 | 8.0 | 0 | 11.0 | 4 | 3.99 | 0 | | |
| 287 | 17.1 | 2 | | | 12.0 | 3 | 15.0 | 0 | 31.0 | 0 | 5.05 | 0 | | |
| 289 | 17.7 | 1 | | | | | 12.3 | 3 | 7.0 | 4 | 3.30 | 2 | 25.0 | 0 |
| 292 | 14.9 | 3 | | | 12.0 | 3 | 13.0 | 2 | 10.0 | 4 | 3.40 | 3 | | |

Table 5. Laboratory performance ratings for standard reference water sample T-147 (trace constituents)—Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| F-pseudosigma = | Analyte = Mg (Magnesium) | | Mn (Manganese) | | Mo (Molybdenum) | | Na (Sodium) | | Ni (Nickel) | | Pb (Lead) | | Sb (Antimony) | | |
|-----------------|--------------------------|-------|----------------|------|-----------------|--------|-------------|------|-------------|------|-----------|-------|---------------|-------|--------|
| | MPV = | mg/L | RV | µg/L | RV | µg/L | RV | mg/L | RV | µg/L | RV | µg/L | RV | µg/L | |
| | 8.20 | | 17.2 | | 11.8 | | 52.6 | | 13.6 | | 13.8 | | 10.5 | | |
| | 0.30 | | 1.4 | | 1.3 | | 2.2 | | 1.5 | | 1.1 | | 0.9 | | |
| | Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| | 1 | 8.04 | 3 | 15.9 | 3 | 10.9 | 3 | 53.7 | 4 | 13.0 | 4 | 14.0 | 4 | 11.0 | 3 |
| | 3 | 8.08 | 4 | 18.0 | 3 | 14.0 | 1 | 55.8 | 2 | 14.0 | 4 | 15.0 | 2 | 10.0 | 3 |
| | 4 | 8.40 | 3 | 17.0 | 4 | < 20 | NR | 57.0 | 1 | < 20 | NR | < 200 | NR | | |
| | 9 | 8.20 | 4 | 20.4 | 0 | | | 51.0 | 3 | 14.0 | 4 | 15.0 | 2 | | |
| | 10 | | | 20.0 | 1 | | | | | | | 13.2 | 3 | | |
| | 11 | 8.79 | 1 | 18.0 | 3 | 13.0 | 3 | 50.3 | 2 | 17.0 | 0 | 14.0 | 4 | | |
| | 12 | 9.10 | 0 | < 30 | NR | < 30 | NR | 54.0 | 3 | < 20 | NR | < 10 | 0 | | |
| | 13 | 8.28 | 4 | 18.0 | 3 | | | 56.5 | 1 | < 20 | NR | 13.9 | 4 | 12.6 | 0 |
| | 16 | 8.50 | 3 | 15.4 | 2 | 12.0 | 4 | 54.0 | 3 | 13.0 | 4 | 13.3 | 4 | 9.7 | 3 |
| | 18 | 8.00 | 3 | 17.0 | 4 | < 20 | NR | 52.4 | 4 | < 25 | NR | 12.5 | 2 | 8.7 | 1 |
| | 19 | | | 17.3 | 4 | | | | | 24.3 | 0 | 12.0 | 1 | | |
| | 21 | | | | | | | | | | | | | | |
| | 23 | | | 17.6 | 4 | | | 50.6 | 3 | < 20 | NR | 13.7 | 4 | | |
| | 24 | 7.88 | 2 | | | | | 51.4 | 3 | | | | | | |
| | 25 | 8.33 | 4 | 18.0 | 3 | | | 55.0 | 2 | < 49 | NR | < 71 | NR | < 51 | NR |
| | 26 | 8.45 | 3 | 17.2 | 4 | 10.6 | 3 | 51.8 | 4 | 13.6 | 4 | 14.3 | 4 | | |
| | 30 | 8.10 | 4 | 16.8 | 4 | 10.6 | 3 | | | 14.8 | 3 | 13.8 | 4 | 22.0 | 0 |
| | 33 | 8.23 | 4 | 20.0 | 1 | | | 53.9 | 3 | | | | | | |
| | 34 | | | | | | | | | | | 14.6 | 3 | | |
| | 36 | 8.72 | 1 | 16.1 | 3 | | | 57.4 | 0 | 11.6 | 2 | 11.7 | 1 | 9.5 | 2 |
| | 39 | 8.16 | 4 | 17.2 | 4 | 9.0 | 0 | 52.3 | 4 | 12.7 | 3 | 11.0 | 0 | 10.2 | 4 |
| | 40 | 8.27 | 4 | 16.8 | 4 | 21.5 | 0 | 53.2 | 4 | | | | | | |
| | 42 | 9.40 | 0 | 15.4 | 2 | 12.6 | 3 | 55.1 | 2 | 17.0 | 0 | 14.7 | 3 | 11.4 | 3 |
| | 43 | 8.10 | 4 | 18.0 | 3 | | | 52.1 | 4 | | | | | | |
| | 45 | 8.00 | 3 | | | | | 58.0 | 0 | | | | | | |
| | 46 | 7.96 | 3 | 16.4 | 3 | | | 51.8 | 4 | | | 13.2 | 3 | | |
| | 48 | 8.16 | 4 | 17.3 | 4 | 12.9 | 3 | 52.1 | 4 | 14.0 | 4 | 14.3 | 4 | 10.7 | 4 |
| | 50 | | | 15.2 | 2 | 13.8 | 1 | | | 12.9 | 4 | 15.3 | 2 | 10.4 | 4 |
| | 51 | 8.16 | 4 | | | | | 49.6 | 2 | | | | | | |
| | 59 | 8.40 | 3 | 14.0 | 0 | | | 51.0 | 3 | 11.0 | 1 | 13.0 | 3 | 10.0 | 3 |
| | 61 | 8.86 | 0 | 18.2 | 3 | < 17.2 | NR | 48.6 | 1 | 12.6 | 3 | 13.0 | 3 | < 7.6 | 0 |
| | 64 | 7.84 | 2 | | | | | 53.6 | 4 | | | | | | |
| | 68 | 8.20 | 4 | 17.0 | 4 | 14.0 | 1 | 53.0 | 4 | 14.0 | 4 | 15.4 | 2 | 13.9 | 0 |
| | 69 | 8.30 | 4 | 21.0 | 0 | | | 50.2 | 2 | 12.6 | 3 | 12.9 | 3 | 7.7 | 0 |
| | 70 | 8.34 | 4 | < 20 | NR | < 50 | NR | 53.6 | 4 | < 50 | NR | 19.9 | 0 | 13.5 | 0 |
| | 76 | 8.31 | 4 | | | | | 53.7 | 4 | 13.3 | 4 | 13.9 | 4 | 11.2 | 3 |
| | 80 | | | 15.4 | 2 | | | | | | | 13.3 | 4 | | |
| | 81 | 8.51 | 2 | 17.0 | 4 | 12.0 | 4 | 55.3 | 2 | 12.0 | 2 | 13.0 | 3 | 8.0 | 0 |
| | 83 | 7.53 | 0 | 16.0 | 3 | | | 48.9 | 1 | 16.4 | 1 | | | | |
| | 84 | 7.90 | 3 | 14.4 | 1 | | | 52.6 | 4 | | | 17.4 | 0 | | |
| | 85 | 8.40 | 3 | 17.0 | 4 | < 10 | NR | 53.2 | 4 | 18.0 | 0 | < 10 | 0 | | |
| | 86 | 8.15 | 4 | 16.8 | 4 | | | 54.7 | 3 | | | 14.8 | 3 | | |
| | 87 | 7.76 | 2 | 19.0 | 2 | 12.2 | 4 | 50.0 | 2 | < 15 | NR | 16.7 | 0 | | |
| | 89 | 7.86 | 2 | 17.1 | 4 | | | 49.4 | 2 | 13.9 | 4 | 11.4 | 0 | 10.8 | 4 |
| | 91 | | | 16.9 | 4 | | | | | | | | | | |
| | 93 | 8.41 | 3 | | | | | 10.7 | 0 | | | | | | |
| | 96 | | | < 20 | NR | | | | | 14.8 | 3 | 15.0 | 2 | 10.0 | 3 |
| | 97 | 7.95 | 3 | 17.2 | 4 | 11.2 | 4 | 53.0 | 4 | 14.5 | 3 | 14.6 | 3 | 10.4 | 4 |
| | 104 | | | | | | | | | | | | | | |
| | 105 | 7.90 | 3 | 14.9 | 1 | 12.2 | 4 | 52.2 | 4 | 12.9 | 4 | 13.6 | 4 | 9.6 | 3 |
| | 107 | 8.09 | 4 | 19.0 | 2 | | | | | | | 10.6 | 0 | | |
| | 108 | | | 20.0 | 1 | 14.5 | 0 | | | 11.0 | 1 | 12.4 | 2 | | |
| | 109 | 8.38 | 3 | 17.0 | 4 | 11.4 | 4 | 52.4 | 4 | | | 11.9 | 1 | | |
| | 111 | 7.90 | 3 | | | | | 49.0 | 1 | 13.6 | 4 | 19.6 | 0 | | |
| | 113 | 9.21 | 0 | 16.3 | 3 | | | 48.3 | 1 | 13.3 | 4 | 14.7 | 3 | 10.9 | 4 |
| | 114 | 8.35 | 4 | 22.0 | 0 | | | 52.0 | 4 | < 10 | NR | < 10 | 0 | | |
| | 119 | 8.40 | 3 | 18.0 | 3 | 12.4 | 4 | 54.1 | 3 | 12.5 | 3 | 15.0 | 2 | 11.0 | 3 |
| | 121 | 8.00 | 3 | 18.0 | 3 | | | 53.4 | 4 | 15.0 | 3 | | | | |
| | 127 | 7.99 | 3 | 18.1 | 3 | 11.3 | 4 | 50.2 | 2 | 13.2 | 4 | 12.1 | 2 | 11.3 | 3 |
| | 129 | 13.00 | 0 | 10.0 | 0 | | | 49.0 | 1 | | | | | | |

Table 5. Laboratory performance ratings for standard reference water sample T-147 (trace constituents)--Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = | Mg (Magnesium) | Mn (Manganese) | Mo (Molybdenum) | Na (Sodium) | Ni (Nickel) | Pb (Lead) | Sb (Antimony) | | | | | | | |
|-----------------|----------------|----------------|-----------------|-------------|-------------|-----------|---------------|--------|--------|--------|--------|--------|--------|--------|
| MPV = | 8.20 mg/L | 17.2 µg/L | 11.8 µg/L | 52.6 mg/L | 13.6 µg/L | 13.8 µg/L | 10.5 µg/L | | | | | | | |
| F-pseudosigma = | 0.30 | 1.4 | 1.3 | 2.2 | 1.5 | 1.1 | 0.9 | | | | | | | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 131 | 7.57 | 0 | 17.6 | 4 | < 15 | NR | 45.0 | 0 | 44.0 | 0 | < 30 | NR | 12.0 | 1 |
| 133 | 8.56 | 2 | | | | | | | 13.5 | 4 | < 20 | NR | | |
| 134 | 7.92 | 3 | 16.8 | 4 | 11.8 | 4 | 48.7 | 1 | 13.4 | 4 | 12.8 | 3 | 9.8 | 3 |
| 138 | 8.12 | 4 | 15.8 | 3 | 11.2 | 4 | 51.6 | 4 | 12.9 | 4 | 14.1 | 4 | 10.5 | 4 |
| 140 | 7.80 | 2 | 15.0 | 1 | | | 51.5 | 4 | 14.0 | 4 | 16.0 | 1 | | |
| 141 | 8.55 | 2 | 17.6 | 4 | 14.7 | 0 | 54.7 | 3 | 13.5 | 4 | 16.9 | 0 | 8.0 | 0 |
| 142 | 8.04 | 3 | 16.0 | 3 | 12.3 | 4 | 54.0 | 3 | 13.7 | 4 | 13.5 | 4 | 12.2 | 1 |
| 143 | | | | | 11.8 | 4 | | | 13.3 | 4 | | | | |
| 145 | 8.49 | 3 | 18.0 | 3 | 11.0 | 3 | 53.6 | 4 | 16.0 | 1 | 28.0 | 0 | | |
| 146 | 8.13 | 4 | 18.1 | 3 | 12.0 | 4 | 56.2 | 1 | < 40 | NR | 15.1 | 2 | < 50 | NR |
| 147 | 8.40 | 3 | 18.4 | 3 | 12.5 | 3 | 56.0 | 1 | 13.0 | 4 | 13.8 | 4 | 10.5 | 4 |
| 149 | 7.70 | 1 | 12.0 | 0 | 12.0 | 4 | 52.0 | 4 | | | 13.0 | 3 | 10.0 | 3 |
| 151 | 8.00 | 3 | 16.8 | 4 | 12.2 | 4 | 53.0 | 4 | 13.1 | 4 | 14.2 | 4 | 11.3 | 3 |
| 154 | 8.20 | 4 | 14.0 | 0 | | | 57.4 | 0 | 14.0 | 4 | 14.5 | 3 | 10.0 | 3 |
| 158 | 8.34 | 4 | 17.2 | 4 | | | 50.6 | 3 | 13.1 | 4 | 11.6 | 1 | | |
| 180 | 8.18 | 4 | 17.5 | 4 | 9.8 | 1 | 52.1 | 4 | < 16.3 | NR | < 31.9 | NR | < 27.8 | NR |
| 183 | 6.20 | 0 | | | | | | | 15.2 | 2 | 9.3 | 0 | | |
| 185 | 7.96 | 3 | | | | | 53.9 | 3 | | | | | | |
| 190 | 8.37 | 3 | 21.9 | 0 | | | 52.7 | 4 | 16.8 | 0 | 13.7 | 4 | | |
| 191 | 8.18 | 4 | 17.0 | 4 | | | 52.3 | 4 | 15.0 | 3 | 14.5 | 3 | | |
| 193 | 7.45 | 0 | | | | | 51.4 | 3 | < 50 | NR | 13.8 | 4 | 11.0 | 3 |
| 196 | 8.06 | 4 | 17.0 | 4 | 11.6 | 4 | 54.9 | 2 | 14.0 | 4 | 13.5 | 4 | 10.2 | 4 |
| 198 | 8.06 | 4 | 18.5 | 3 | | | 52.8 | 4 | < 50 | NR | 13.3 | 4 | 10.4 | 4 |
| 204 | | | | | | | | | | | | | | |
| 209 | 9.00 | 0 | | | | | | | | | | | | |
| 212 | 8.40 | 3 | 15.1 | 2 | 11.7 | 4 | 55.8 | 2 | 13.2 | 4 | 14.2 | 4 | 9.4 | 2 |
| 213 | | | | | | | | | 13.2 | 4 | 14.8 | 3 | | |
| 215 | 8.00 | 3 | 17.0 | 4 | 11.6 | 4 | 51.2 | 3 | 12.6 | 3 | 13.0 | 3 | < 7 | 0 |
| 217 | 8.20 | 4 | 18.1 | 3 | 11.1 | 3 | 52.6 | 4 | | | 14.1 | 4 | 10.3 | 4 |
| 218 | 9.06 | 0 | | | | | 59.9 | 0 | | | | | | |
| 219 | 8.00 | 3 | 22.0 | 0 | | | 52.0 | 4 | 15.0 | 3 | | | | |
| 220 | 7.97 | 3 | 16.1 | 3 | | | 52.5 | 4 | 13.7 | 4 | | | | |
| 221 | 7.86 | 2 | 17.7 | 4 | 11.6 | 4 | 53.4 | 4 | 13.3 | 4 | 14.1 | 4 | | |
| 224 | 7.37 | 0 | 17.6 | 4 | < 5 | 0 | 47.3 | 0 | < 24 | NR | 13.5 | 4 | | |
| 234 | 8.45 | 3 | 18.2 | 3 | 16.2 | 0 | 53.0 | 4 | 16.5 | 1 | 14.4 | 3 | 8.9 | 1 |
| 235 | 7.57 | 0 | 15.5 | 2 | 11.8 | 4 | | | 13.0 | 4 | 14.3 | 4 | 11.4 | 3 |
| 236 | 8.10 | 4 | 16.0 | 3 | 15.0 | 0 | 50.3 | 2 | 13.0 | 4 | < 19 | NR | < 100 | NR |
| 237 | 8.10 | 4 | 17.0 | 4 | < 50 | NR | 52.1 | 4 | < 9 | NR | < 40 | NR | | |
| 241 | 8.40 | 3 | 19.0 | 2 | 9.4 | 1 | 55.0 | 2 | 13.9 | 4 | 11.8 | 1 | 10.4 | 4 |
| 245 | | | 15.0 | 1 | 11.7 | 4 | | | 13.2 | 4 | 14.0 | 4 | 10.5 | 4 |
| 247 | 12.80 | 0 | 11.9 | 0 | 1.2 | 0 | 42.8 | 0 | 36.2 | 0 | 8.8 | 0 | 19.3 | 0 |
| 252 | 8.70 | 1 | < 40 | NR | 8.0 | 0 | 50.0 | 2 | 15.2 | 2 | 12.0 | 1 | 10.2 | 4 |
| 255 | 8.27 | 4 | 17.3 | 4 | 11.3 | 4 | 53.1 | 4 | 13.9 | 4 | 13.6 | 4 | < 24 | NR |
| 256 | 9.20 | 0 | 20.0 | 1 | | | 48.5 | 1 | 45.5 | 0 | 9.0 | 0 | | |
| 257 | 7.00 | 0 | 19.1 | 2 | < 20 | NR | 46.6 | 0 | 20.0 | 0 | 14.3 | 4 | 10.6 | 4 |
| 259 | | | 15.8 | 3 | 11.7 | 4 | 52.9 | 4 | 13.2 | 4 | 12.6 | 2 | | |
| 262 | 9.30 | 0 | | | | | | | | | | | | |
| 265 | 8.10 | 4 | 17.5 | 4 | 14.0 | 1 | 52.8 | 4 | 13.5 | 4 | 13.6 | 4 | 11.0 | 3 |
| 268 | 8.35 | 4 | | | | | 61.9 | 0 | | | | | | |
| 273 | 8.30 | 4 | 15.2 | 2 | | | 54.3 | 3 | 14.0 | 4 | 15.5 | 2 | | |
| 274 | 9.15 | 0 | 20.4 | 0 | | | 66.4 | 0 | | | 11.1 | 0 | | |
| 282 | 8.43 | 3 | 17.4 | 4 | < 50 | NR | 53.3 | 4 | < 50 | NR | 11.0 | 0 | 8.6 | 0 |
| 284 | 8.56 | 2 | 25.0 | 0 | 84.0 | 0 | 58.0 | 0 | 12.0 | 2 | 13.0 | 3 | 25.0 | 0 |
| 287 | 8.35 | 4 | 23.0 | 0 | | | 51.3 | 3 | 32.0 | 0 | 14.2 | 4 | | |
| 289 | 7.77 | 2 | 16.8 | 4 | 14.4 | 0 | 49.3 | 2 | 13.3 | 4 | 13.0 | 3 | | |
| 292 | 8.80 | 1 | 17.0 | 4 | 10.0 | 2 | 53.6 | 4 | < 20 | NR | 13.0 | 3 | 11.0 | 3 |

Table 5. Laboratory performance ratings for standard reference water sample T-147 (trace constituents)--Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| F-pseudosigma = | Analyte = Se (Selenium) | | SiO ₂ (Silica) | | Sr (Strontium) | | Tl (Thallium) | | U (Uranium) | | V (Vanadium) | | Zn (Zinc) | |
|-----------------|-------------------------|-----------|---------------------------|--------|----------------|-----------|---------------|-----------|-------------|--------|--------------|--------|-----------|--------|
| | MPV = | 10.1 µg/L | 24.0 mg/L | 1.4 | 313 µg/L | 20.0 µg/L | 3.21 µg/L | 15.2 µg/L | 14.0 µg/L | 1.8 | 24.0 | 15.2 | 14.0 | 2.2 |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 9.4 | 4 | 24.2 | 4 | 304 | 3 | 19.1 | 4 | 3.00 | 4 | 15.3 | 4 | 12.6 | 3 |
| 3 | < 10 | NR | 25.1 | 3 | 338 | 1 | 17.0 | 2 | | | 16.0 | 3 | 17.0 | 2 |
| 4 | | | 25.0 | 3 | | | | | | | < 20 | NR | 13.0 | 4 |
| 9 | | | | | 287 | 1 | | | | | | | 13.0 | 4 |
| 10 | | | | | | | | | | | | | 15.0 | 4 |
| 11 | | | 23.1 | 3 | 320 | 3 | 20.0 | 4 | | | 16.0 | 3 | | |
| 12 | | | | | | | | | | | | | < 20 | NR |
| 13 | 8.8 | 3 | 25.2 | 3 | | | 19.3 | 4 | | | < 50 | NR | 13.7 | 4 |
| 16 | 11.8 | 3 | | | 299 | 2 | 19.4 | 4 | 3.50 | 4 | 15.7 | 4 | 10.8 | 2 |
| 18 | 12.0 | 2 | | | 304 | 3 | 18.4 | 3 | | | 14.0 | 3 | < 100 | NR |
| 19 | | | | | | | | | | | | | 14.2 | 4 |
| 21 | | | | | | | | | | | | | | |
| 23 | 8.8 | 1 | | | | | | | | | | | < 20 | NR |
| 24 | | | 25.0 | 3 | 313 | 4 | | | | | | | | |
| 25 | < 129 | NR | 12.1 | 0 | 328 | 2 | | | | | 13.0 | 1 | 146.0 | 0 |
| 26 | 8.2 | 2 | 25.1 | 3 | | | | | | | 14.1 | 3 | 11.9 | 3 |
| 30 | 16.0 | 0 | | | | | | | 4.00 | 2 | 15.8 | 4 | 15.5 | 3 |
| 33 | | | 25.9 | 2 | 325 | 3 | | | | | | | | |
| 34 | 8.8 | 3 | | | | | | | | | | | | |
| 36 | 7.9 | 2 | | | | | 7.0 | 0 | | | | | | |
| 39 | 12.0 | 2 | | | 304 | 3 | 21.9 | 3 | | | | | 13.8 | 4 |
| 40 | | | 22.5 | 2 | 24 | 0 | | | | | | | 13.0 | 4 |
| 42 | 13.9 | 0 | 26.9 | 0 | 326 | 3 | 21.5 | 3 | | | 14.0 | 3 | 14.7 | 4 |
| 43 | | | 23.9 | 4 | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | |
| 46 | 11.0 | 3 | | | | | | | | | 15.4 | 4 | | |
| 48 | 11.4 | 3 | | | | | 20.5 | 4 | | | 15.3 | 4 | 18.1 | 1 |
| 50 | 11.0 | 3 | | | 328 | 2 | 21.8 | 3 | | | 13.6 | 2 | 12.7 | 3 |
| 51 | | | | | | | | | | | | | | |
| 59 | 10.0 | 4 | | | | | 18.0 | 3 | | | | | 18.0 | 1 |
| 61 | 8.9 | 3 | 11.9 | 0 | | | 19.6 | 4 | | | 16.2 | 3 | 15.7 | 3 |
| 64 | | | 23.4 | 4 | | | | | | | | | | |
| 68 | 3.9 | 0 | | | 310 | 4 | 21.5 | 3 | | | 14.0 | 3 | 24.0 | 0 |
| 69 | 10.0 | 4 | | | | | 18.0 | 3 | | | | | < 50 | NR |
| 70 | < 10 | NR | 24.4 | 4 | 317 | 4 | 18.5 | 3 | | | < 50 | NR | < 20 | NR |
| 76 | | | | | | | 20.7 | 4 | | | | | | |
| 80 | 11.0 | 3 | | | | | | | | | | | 16.0 | 3 |
| 81 | 9.0 | 3 | 26.4 | 1 | 324 | 3 | 19.0 | 4 | | | 13.0 | 1 | 13.0 | 4 |
| 83 | | | 21.6 | 1 | | | | | | | | | 13.1 | 4 |
| 84 | | | | | | | | | | | | | | |
| 85 | 7.0 | 1 | | | 331 | 2 | | | | | 11.0 | 0 | 16.0 | 3 |
| 86 | 5.6 | 0 | | | 310 | 4 | | | | | 21.3 | 0 | 12.8 | 3 |
| 87 | 3.9 | 0 | 23.3 | 4 | | | | | | | | | 19.0 | 0 |
| 89 | 3.5 | 0 | 24.0 | 4 | | | 19.8 | 4 | | | 21.0 | 0 | 13.4 | 4 |
| 91 | | | | | | | | | | | | | | |
| 93 | | | | | | | | | | | | | | |
| 96 | 9.4 | 4 | | | | | | | | | | | 16.0 | 3 |
| 97 | 9.1 | 3 | 23.3 | 4 | 252 | 0 | 23.1 | 2 | | | 16.1 | 3 | < 8.4 | 0 |
| 104 | | | 25.2 | 3 | | | | | | | | | | |
| 105 | 11.2 | 3 | 24.6 | 4 | 316 | 4 | 18.6 | 3 | | | 13.9 | 3 | 16.6 | 2 |
| 107 | | | 24.8 | 3 | | | | | | | | | 15.0 | 4 |
| 108 | 20.0 | 0 | | | | | | | | | | | 22.0 | 0 |
| 109 | 9.8 | 4 | | | 349 | 0 | | | | | | | | |
| 111 | 7.8 | 2 | 24.0 | 4 | | | | | | | 17.6 | 1 | | |
| 113 | 10.1 | 4 | 25.3 | 3 | 313 | 4 | 19.1 | 4 | | | | | | |
| 114 | | | | | | | | | | | | | < 10 | NR |
| 119 | 10.1 | 4 | 26.0 | 2 | 178 | 0 | 21.6 | 3 | 2.90 | 3 | 16.2 | 3 | 11.0 | 2 |
| 121 | | | 23.8 | 4 | 316 | 4 | | | | | 15.0 | 4 | 11.0 | 2 |
| 127 | 10.7 | 4 | 22.9 | 3 | 306 | 3 | 16.6 | 1 | | | 14.6 | 4 | 10.2 | 1 |
| 129 | | | 24.3 | 4 | | | | | | | | | | |

Table 5. Laboratory performance ratings for standard reference water sample T-147 (trace constituents)--Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = | Se (Selenium) | | SiO ₂ (Silica) | | Sr (Strontium) | | Tl (Thallium) | | U (Uranium) | | V (Vanadium) | | Zn (Zinc) | |
|------------------|---------------|--------|---------------------------|--------|----------------|--------|---------------|--------|-------------|--------|--------------|--------|-----------|--------|
| MPV = | 10.1 | µg/L | 24.0 | mg/L | 313 | µg/L | 20.0 | µg/L | 3.21 | µg/L | 15.2 | µg/L | 14.0 | µg/L |
| F-pseudostigma = | 1.8 | | 1.4 | | 13 | | 2.1 | | 0.59 | | 1.4 | | 2.2 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 131 | 15.0 | 0 | 24.4 | 4 | 3 | 0 | | | | | 11.0 | 0 | 13.0 | 4 |
| 133 | 9.7 | 4 | | | | | | | | | | | 15.9 | 3 |
| 134 | 10.7 | 4 | 24.1 | 4 | 308 | 4 | 21.6 | 3 | | | 14.5 | 3 | 14.0 | 4 |
| 138 | 11.2 | 3 | 24.2 | 4 | 308 | 4 | 21.4 | 3 | | | 14.2 | 3 | 12.3 | 3 |
| 140 | | | 24.0 | 4 | | | | | | | | | 21.0 | 0 |
| 141 | 8.9 | 3 | | | | | 34.2 | 0 | | | 14.1 | 3 | 14.6 | 4 |
| 142 | 12.4 | 2 | 28.2 | 0 | 321 | 3 | 20.5 | 4 | 3.01 | 4 | 14.8 | 4 | 15.0 | 4 |
| 143 | 9.7 | 4 | | | | | | | | | | | | |
| 145 | | | 25.0 | 3 | 316 | 4 | < 3 | 0 | | | 19.0 | 0 | 16.0 | 3 |
| 146 | 12.5 | 2 | | | | | 20.5 | 4 | | | 16.0 | 3 | < 20 | NR |
| 147 | 10.4 | 4 | 24.6 | 4 | 309 | 4 | 19.5 | 4 | 3.20 | 4 | 15.9 | 4 | 13.1 | 4 |
| 149 | | | | | | | | | | | | | 15.0 | 4 |
| 151 | 11.6 | 3 | | | 322 | 3 | 21.2 | 3 | | | | | 14.5 | 4 |
| 154 | 9.5 | 4 | | | 302 | 3 | | | | | 21.0 | 0 | 8.0 | 0 |
| 158 | | | | | | | | | | | 14.5 | 4 | 14.4 | 4 |
| 180 | < 53.2 | NR | | | | | < 40.1 | NR | | | 16.0 | 3 | 12.5 | 3 |
| 183 | | | | | | | | | | | 21.2 | 0 | | |
| 185 | | | 27.7 | 0 | | | | | | | | | | |
| 190 | | | 11.7 | 0 | | | | | | | | | 12.1 | 3 |
| 191 | | | 23.9 | 4 | 310 | 4 | 21.2 | 3 | | | | | 15.3 | 3 |
| 193 | 9.0 | 3 | | | | | 3.0 | 0 | | | | | < 50 | NR |
| 196 | 13.1 | 1 | | | 313 | 4 | 19.0 | 4 | 3.21 | 4 | 15.4 | 4 | 13.4 | 4 |
| 198 | < 20 | NR | | | | | 16.6 | 1 | | | | | < 25 | NR |
| 204 | | | 26.2 | 1 | | | | | | | | | | |
| 209 | | | | | | | | | | | | | | |
| 212 | 11.0 | 3 | 24.1 | 4 | 313 | 4 | 20.9 | 4 | | | 13.1 | 2 | 15.3 | 3 |
| 213 | | | | | | | 17.1 | 2 | | | | | < 38 | NR |
| 215 | 12.0 | 2 | 21.1 | 0 | | | 7.0 | 0 | | | | | 11.0 | 2 |
| 217 | 10.4 | 4 | 23.3 | 4 | 320 | 3 | 20.8 | 4 | 3.80 | 3 | 15.2 | 4 | 13.6 | 4 |
| 218 | | | | | 330 | 2 | | | | | | | | |
| 219 | | | | | 303 | 3 | | | | | 15.0 | 4 | 12.0 | 3 |
| 220 | 10.3 | 4 | | | | | | | | | 14.7 | 4 | 15.0 | 4 |
| 221 | 9.2 | 4 | | | | | | | | | | | | |
| 224 | 37.0 | 0 | | | | | | | | | 11.6 | 0 | 11.5 | 2 |
| 234 | 9.7 | 4 | 24.8 | 3 | 314 | 4 | 22.5 | 2 | | | 16.0 | 3 | 13.4 | 4 |
| 235 | 10.2 | 4 | | | 268 | 0 | 20.7 | 4 | | | 17.0 | 2 | 14.8 | 4 |
| 236 | 93.0 | 0 | 12.2 | 0 | 304 | 3 | | | | | 10.0 | 0 | < 1 | 0 |
| 237 | | | 23.2 | 3 | 307 | 4 | | | | | 17.0 | 2 | < 10 | NR |
| 241 | 10.5 | 4 | 23.5 | 4 | | | 6.2 | 0 | | | 14.8 | 4 | 7.0 | 0 |
| 245 | 12.6 | 2 | | | | | 20.4 | 4 | | | 13.2 | 2 | 25.4 | 0 |
| 247 | 7.4 | 2 | | | 334 | 1 | 31.2 | 0 | | | 31.0 | 0 | 3.2 | 0 |
| 252 | 9.2 | 4 | | | | | | | | | | | 7.0 | 0 |
| 255 | 9.4 | 4 | | | | | < 59 | NR | | | 14.8 | 4 | 14.1 | 4 |
| 256 | 3.2 | 0 | 21.4 | 1 | | | | | | | | | 15.0 | 4 |
| 257 | | | | | | | | | | | < 100 | NR | 14.0 | 4 |
| 259 | 11.2 | 3 | | | 306 | 3 | | | | | | | 11.7 | 2 |
| 262 | | | | | | | | | | | | | | |
| 265 | 13.5 | 1 | 24.0 | 4 | 303 | 3 | 20.5 | 4 | 3.00 | 4 | 15.5 | 4 | 14.0 | 4 |
| 268 | | | | | | | | | | | | | | |
| 273 | | | 23.1 | 3 | 332 | 2 | 9.5 | 0 | | | | | 12.5 | 3 |
| 274 | | | 20.9 | 0 | | | | | | | | | 15.5 | 3 |
| 282 | < 5 | 0 | 11.7 | 0 | | | 20.3 | 4 | | | < 20 | NR | < 20 | NR |
| 284 | 10.0 | 4 | 17.4 | 0 | 322 | 3 | 9.0 | 0 | | | 266.0 | 0 | 10.4 | 1 |
| 287 | | | | | | | | | | | | | 12.0 | 3 |
| 289 | 8.0 | 2 | 23.9 | 4 | 308 | 4 | | | | | 15.1 | 4 | | |
| 292 | 10.0 | 4 | | | | | 23.0 | 2 | | | | | 20.0 | 0 |

Table 6. Laboratory performance ratings for standard reference water sample T-149 (trace constituents)

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Ag (Silver) | | Al (Aluminium) | | As (Arsenic) | | B (Boron) | | Ba (Barium) | | Be (Beryllium) | | Ca (Calcium) | | | | |
|-------------------------|-----|----------------|------|--------------|-------|-----------|------|-------------|------|-------------------|------|--------------|-------|--------|-------|---|
| MPV = insufficient data | | 35.5 | µg/L | 1.0 | µg/L | 128 | µg/L | 42.5 | µg/L | insufficient data | 42.3 | mg/L | | | | |
| F-pseudosigma = | | 9.0 | | 0.6 | | 10 | | 2.5 | | | 1.9 | | | | | |
| Lab | OLR | V/28 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | | |
| 1 | 3.8 | 24 | <1 | NR | 32.5 | 4 | <1 | NR | 124 | 4 | 42.1 | 4 | <0.5 | NR | 42.0 | 4 |
| 3 | 2.8 | 20 | <5 | NR | <30 | NR | <5 | NR | 133 | 4 | 43.0 | 4 | <1 | NR | 45.6 | 1 |
| 4 | 2.6 | 14 | | | <500 | NR | | | <50 | 0 | 44.0 | 3 | <10 | NR | 45.0 | 2 |
| 10 | 2.9 | 7 | | | | | | | | | | | | | | |
| 11 | 2.1 | 20 | | | 270.0 | 0 | | | 53 | 0 | 44.0 | 3 | | | 46.1 | 0 |
| 12 | 3.1 | 10 | | | | | | | | | | | | | 42.0 | 4 |
| 13 | 2.1 | 16 | <10 | NR | 30.2 | 3 | <5 | NR | | | 44.4 | 3 | <5 | NR | 44.8 | 2 |
| 16 | 3.2 | 23 | <1 | NR | 34 | 4 | 0.9 | 4 | 262 | 0 | 41.2 | 3 | <1 | NR | 45.0 | 2 |
| 18 | 3.6 | 17 | <3 | NR | <100 | NR | <1 | NR | 128 | 4 | 40.0 | 3 | <1 | NR | 41.7 | 4 |
| 19 | 2.7 | 7 | | | | | | | | | 44.1 | 3 | | | | |
| 21 | 4.0 | 1 | | | | | | | | | | | | | | |
| 23 | 2.3 | 14 | | | 44.2 | 3 | | | | | | | <0.5 | NR | 55.3 | 0 |
| 24 | 3.4 | 7 | | | | | | | 126 | 4 | | | | | 42.2 | 4 |
| 25 | 1.7 | 13 | <6 | NR | <19 | NR | <50 | NR | <23 | 0 | 37.9 | 1 | <2.4 | NR | 46.0 | 1 |
| 26 | 3.5 | 20 | <0.2 | NR | 32.8 | 4 | 1.0 | 4 | 119 | 3 | 42.7 | 4 | <1 | NR | 42.8 | 4 |
| 30 | 2.8 | 18 | <1 | NR | 36 | 4 | 1.1 | 4 | | | 44.6 | 3 | <1 | NR | 43.0 | 4 |
| 32 | 3.2 | 24 | <0.1 | NR | 35.5 | 4 | 1.0 | 4 | 103 | 0 | 42.5 | 4 | <0.1 | NR | 43.0 | 4 |
| 33 | 2.1 | 9 | | | 20 | 1 | | | | | 52.0 | 0 | | | 42.8 | 4 |
| 34 | 3.2 | 5 | <0.2 | NR | 45.0 | 2 | 0.9 | 4 | | | | | | | | |
| 36 | 2.4 | 14 | <50 | NR | <1000 | NR | 0.9 | 4 | | | | | | | 41.0 | 3 |
| 40 | 2.7 | 13 | | | | | | | 119 | 3 | 41.7 | 4 | | | 41.0 | 3 |
| 42 | 1.7 | 22 | <1 | NR | 27.3 | 3 | 1.7 | 2 | 146 | 1 | 34.8 | 0 | <2 | NR | 47.8 | 0 |
| 43 | 3.9 | 7 | | | | | | | | | | | | | 42.0 | 4 |
| 45 | 3.3 | 4 | | | | | | | | | | | | | 42.1 | 4 |
| 46 | 3.3 | 15 | | | 36.2 | 4 | | | 130 | 4 | | | | | 41.1 | 3 |
| 48 | 3.3 | 21 | <0.6 | NR | 37.2 | 4 | 0.9 | 4 | 100 | 0 | 40.6 | 3 | <0.4 | NR | 43.1 | 4 |
| 51 | 3.0 | 4 | | | | | | | | | | | | | 41.1 | 3 |
| 59 | 3.5 | 14 | <5 | NR | | | <2 | NR | | | 42.0 | 4 | <2 | NR | 43.0 | 4 |
| 61 | 2.4 | 19 | <2 | NR | 83.2 | 0 | <4.5 | NR | 134 | 3 | 45.2 | 2 | 0.25 | NR | 44.7 | 2 |
| 64 | 3.8 | 4 | | | | | | | | | | | | | | |
| 68 | 2.3 | 21 | <0.3 | NR | 61 | 0 | 2.8 | 0 | 170 | 0 | 43.0 | 4 | 50.00 | NR | 42.0 | 4 |
| 69 | 2.9 | 14 | <1 | NR | 29.5 | 3 | <5 | NR | | | <50 | NR | <1 | NR | 40.7 | 3 |
| 70 | 3.2 | 13 | <10 | NR | <100 | NR | <10 | NR | 132 | 4 | <50 | NR | <2 | NR | 44.0 | 3 |
| 76 | 3.7 | 9 | | | | | | | | | | | | | 42.5 | 4 |
| 80 | 1.8 | 5 | | | | | 2.0 | 1 | | | | | | | | |
| 81 | 2.7 | 18 | <1 | NR | <32 | NR | <2 | NR | | | 43.0 | 4 | <1 | NR | 43.8 | 3 |
| 83 | 2.5 | 12 | | | <25 | NR | | | | | 38.4 | 1 | <0.2 | NR | 39.6 | 2 |
| 84 | 2.7 | 6 | | | | | | | | | | | | | 41.6 | 4 |
| 86 | 2.5 | 16 | | | | | 0.4 | 3 | 124 | 4 | 42.7 | 4 | | | 44.5 | 2 |
| 87 | 2.1 | 15 | 9.00 | NR | | | <2 | NR | | | 37.3 | 0 | | | 42.0 | 4 |
| 89 | 2.3 | 15 | <2 | NR | 164 | 0 | <2 | NR | | | <50 | NR | <2 | NR | 40.9 | 3 |
| 91 | 4.0 | 2 | | | | | | | | | | | | | | |
| 92 | 0.9 | 12 | | | | | | | | | | | | | 35.5 | 0 |
| 98 | 3.2 | 9 | <1 | NR | | | 1.1 | 4 | | | <100 | NR | <10 | NR | | |
| 97 | 2.6 | 20 | 0.94 | NR | 40.4 | 3 | <0.9 | NR | | | 45.0 | 3 | <0 | NR | 41.6 | 4 |
| 104 | 3.0 | 1 | | | | | | | | | | | | | | |
| 105 | 3.0 | 19 | <0.4 | NR | 31.4 | 4 | <4 | NR | | | 39.2 | 2 | <1 | NR | 41.6 | 4 |
| 108 | 1.2 | 13 | 0.40 | NR | | | 0.4 | 2 | | | | | | | 130.0 | 0 |
| 109 | 3.6 | 12 | | | | | 0.5 | 3 | | | | | | | 41.5 | 4 |
| 110 | 2.0 | 4 | | | | | | | | | | | | | 42.9 | 4 |
| 111 | 2.3 | 14 | | | 46.6 | 2 | <2 | NR | | | | | | | 48.7 | 0 |
| 113 | 3.1 | 19 | <0.5 | NR | 34.5 | 4 | <1.5 | NR | | | 40.1 | 3 | <0.1 | NR | 45.9 | 1 |
| 114 | 2.1 | 7 | <10 | NR | | | | | | | | | <10 | NR | 37.0 | 0 |
| 118 | 2.1 | 9 | <0.5 | NR | <2000 | NR | <4 | NR | | | | | | | | |
| 119 | 2.8 | 24 | 1.00 | NR | 36.5 | 4 | 0.9 | 4 | 109 | 1 | 44.0 | 3 | 0.01 | NR | 43.6 | 3 |
| 121 | 3.7 | 13 | | | | | | | | | 41.0 | 3 | <1 | NR | 42.0 | 4 |
| 126 | 1.8 | 9 | 0.40 | NR | | | | | | | | | | | | |
| 129 | 2.0 | 7 | | | | | | | 170 | 0 | | | | | 45.0 | 2 |
| 131 | 2.2 | 19 | <10 | NR | <100 | NR | | | 128 | 4 | 43.1 | 4 | | | 42.8 | 4 |
| 133 | 2.5 | 8 | <6 | NR | | | <5 | NR | | | 44.4 | 3 | <0.5 | NR | 43.9 | 3 |

Table 6. Laboratory performance ratings for standard reference water sample T-149 (trace constituents)—continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Lab | Analyte = Ag (Silver) | | | | Al (Aluminium) | | As (Arsenic) | | B (Boron) | | Ba (Barium) | | Be (Beryllium) | | Ca (Calcium) | |
|-----|-----------------------|------|--------|--------|----------------|--------|--------------|--------|-----------|--------|-------------|--------|----------------|--------|--------------|--------|
| | OLR | V/28 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 134 | 3.7 | 23 | < 1 | NR | 35.3 | 4 | 0.6 | 3 | 130 | 4 | 42.3 | 4 | < 0.5 | NR | 41.8 | 4 |
| 138 | 3.6 | 22 | 0.06 | NR | 35.1 | 4 | < 1 | NR | 129 | 4 | 41.6 | 4 | < 0.03 | NR | 42.6 | 4 |
| 140 | 2.1 | 14 | 2.50 | NR | | | | | | | 326.0 | 0 | | | 39.0 | 1 |
| 141 | 2.1 | 16 | < 10 | NR | < 100 | NR | < 5 | NR | 141 | 2 | 45.3 | 2 | < 5 | NR | 45.1 | 1 |
| 142 | 3.1 | 24 | 7.16 | NR | < 50 | NR | 0.4 | 2 | 123 | 4 | 43.2 | 4 | < 1 | NR | 42.3 | 4 |
| 143 | 3.6 | 5 | | | | | 0.5 | 3 | | | | | | | | |
| 145 | 1.9 | 21 | | | 77 | 0 | 12.0 | 0 | 121 | 3 | 44.0 | 3 | < 1 | NR | 43.4 | 3 |
| 146 | 3.0 | 11 | < 10 | NR | < 200 | NR | < 10 | NR | | | 44.5 | 3 | < 4 | NR | 41.9 | 4 |
| 147 | 3.6 | 24 | 0.60 | NR | 36 | 4 | 0.9 | 4 | 129 | 4 | 41.0 | 3 | < 0.03 | NR | 43.0 | 4 |
| 149 | 3.0 | 10 | < 0.1 | NR | | | < 1 | NR | | | | | < 0.5 | NR | 40.7 | 3 |
| 151 | 3.4 | 17 | 0.25 | NR | 52.6 | 1 | 0.9 | 4 | | | 45.1 | 2 | 0.02 | NR | | |
| 154 | 2.6 | 19 | | | 30.0 | 3 | | | 128 | 4 | 37.2 | 0 | | | 42.3 | 4 |
| 158 | 2.6 | 16 | | | 42.1 | 3 | | | 125 | 4 | 41.0 | 3 | | | 43.2 | 4 |
| 180 | 2.7 | 13 | < 3.22 | NR | < 20.2 | NR | < 40.1 | NR | 142 | 2 | 40.8 | 3 | < 0.667 | NR | 42.1 | 4 |
| 183 | 1.6 | 8 | | | | | | | | | 54.0 | 0 | | | 35.8 | 0 |
| 185 | 3.0 | 7 | | | 62.1 | 0 | | | | | | | | | 41.0 | 3 |
| 190 | 2.3 | 14 | 0.00 | NR | 33.6 | 4 | | | | | | | | | 50.1 | 0 |
| 191 | 2.8 | 18 | | | 52 | 1 | 1.4 | 3 | | | 45.6 | 2 | | | 41.0 | 3 |
| 193 | 2.6 | 9 | < 5 | NR | | | < 5 | NR | | | | | < 1 | NR | 40.9 | 3 |
| 198 | 3.3 | 12 | < 2.5 | NR | 34.3 | 4 | < 2 | NR | | | 45.6 | 2 | < 0.5 | NR | 44.8 | 2 |
| 203 | 2.5 | 13 | < 2 | NR | 35.5 | 4 | < 5 | NR | | | 51.6 | 0 | | | 41.4 | 4 |
| 204 | 3.0 | 1 | | | | | | | | | | | | | | |
| 209 | 0.0 | 2 | | | | | | | | | | | | | 46.3 | 0 |
| 212 | 3.1 | 23 | 0.15 | NR | 158 | 0 | 0.9 | 4 | 135 | 3 | 39.4 | 2 | < 0.1 | NR | 43.6 | 3 |
| 213 | 2.5 | 8 | < 0.11 | NR | | | 1.7 | 2 | | | | | < 0.11 | NR | | |
| 215 | 2.2 | 18 | < 1 | NR | < 50 | NR | < 5 | NR | 120 | 3 | 40.0 | 3 | 1.00 | NR | 41.1 | 3 |
| 218 | 1.9 | 7 | | | 150.66 | 0 | | | | | | | | | 44.0 | 3 |
| 219 | 3.9 | 14 | | | 35 | 4 | | | | | 42.0 | 4 | | | 43.0 | 4 |
| 220 | 2.9 | 14 | | | | | < 1 | NR | | | 42.3 | 4 | < 1 | NR | 40.2 | 2 |
| 221 | 3.1 | 14 | 0.20 | NR | 33.5 | 4 | | | | | | | | | 41.3 | 3 |
| 224 | 1.8 | 15 | | | 30.7 | 3 | < 12 | NR | | | 50.9 | 0 | < 0.5 | NR | 39.5 | 1 |
| 234 | 3.2 | 24 | 0.40 | NR | 32.7 | 4 | 1.5 | 3 | 127 | 4 | 43.3 | 4 | 0.24 | NR | 43.4 | 3 |
| 235 | 2.6 | 19 | | | 36.5 | 4 | 1.9 | 1 | | | 45.7 | 2 | | | 38.4 | 0 |
| 236 | 2.2 | 19 | 5.00 | NR | 37 | 4 | < 35 | NR | 111 | 1 | 41.0 | 3 | < 0 | NR | 40.4 | 2 |
| 237 | 2.9 | 14 | | | 93 | 0 | | | | | 44.0 | 3 | < 1 | NR | 42.5 | 4 |
| 241 | 2.7 | 19 | 1.00 | NR | 33.1 | 4 | 0.8 | 4 | | | 35.1 | 0 | < 1 | NR | 43.0 | 4 |
| 245 | 2.9 | 16 | 0.11 | NR | 31.2 | 4 | 1.1 | 4 | | | 42.5 | 4 | 0.02 | NR | | |
| 247 | 0.1 | 21 | 4.20 | NR | 12.7 | 0 | < 5 | NR | 49 | 0 | 73.7 | 0 | 14.10 | NR | 40.0 | 2 |
| 252 | 2.6 | 12 | < 0.75 | NR | | | 0.9 | 4 | | | | | < 1 | NR | | |
| 255 | 3.1 | 17 | < 4.6 | NR | 33.52 | 4 | < 5.6 | NR | 136 | 3 | 42.5 | 4 | < 0.6 | NR | 41.8 | 4 |
| 256 | 0.9 | 15 | < 10 | NR | | | 1.6 | 2 | < 10 | 0 | < 50 | NR | | | 40.0 | 2 |
| 257 | 1.8 | 15 | < 0.01 | NR | 106.19 | 0 | < 0.3 | NR | | | | | | | 43.0 | 4 |
| 259 | 3.4 | 16 | | | 31.4 | 4 | | | 145 | 1 | 40.6 | 3 | | | | |
| 262 | 4.0 | 2 | | | | | | | | | | | | | 42.4 | 4 |
| 265 | 3.6 | 25 | 0.02 | NR | 35 | 4 | 1.0 | 4 | 120 | 3 | 41.0 | 3 | 0.03 | NR | 40.5 | 3 |
| 268 | 1.5 | 4 | | | | | | | | | | | | | 39.1 | 1 |
| 272 | 2.0 | 4 | | | | | | | | | | | | | 43.3 | 3 |
| 273 | 2.1 | 19 | 0.98 | NR | 37.7 | 4 | | | 131 | 4 | 33.7 | 0 | | | 44.6 | 2 |
| 274 | 0.0 | 11 | | | | | | | | | | | | | 53.7 | 0 |
| 275 | 1.5 | 4 | | | | | | | | | | | | | 40.0 | 2 |
| 282 | 2.7 | 15 | < 10 | NR | < 100 | NR | < 5 | NR | 131 | 4 | 42.1 | 4 | < 5 | NR | 43.2 | 4 |
| 284 | 1.2 | 22 | 7.00 | NR | 36 | 4 | 3.0 | 0 | | | 51.0 | 0 | < 1 | NR | 41.2 | 3 |
| 287 | 2.3 | 13 | | | 9.07 | 0 | | | | | | | | | 41.3 | 3 |
| 289 | 2.3 | 19 | < 0.5 | NR | 34.3 | 4 | 5.0 | 0 | 101 | 0 | 39.0 | 2 | 2.00 | NR | 42.3 | 4 |
| 292 | 3.4 | 15 | < 3 | NR | < 100 | NR | < 3 | NR | | | 42.0 | 4 | < 1 | NR | 41.8 | 4 |

Table 6. Laboratory performance ratings for standard reference water sample T-149 (trace constituents)--Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absoluta Z-value | Rating | Absoluta Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = | Cd (Cadmium) | | Co (Cobalt) | | Cr (Chromium) | | Cu (Copper) | | Fe (Iron) | | K (Potassium) | | Li (Lithium) | |
|-----------------|--------------|--------|-------------------|--------|---------------|--------|-------------|--------|-----------|--------|---------------|--------|--------------|--------|
| MPV = | 2.18 | µg/L | insufficient data | | 48.8 | µg/L | 8.00 | µg/L | 70.0 | µg/L | 2.00 | mg/L | 44.2 | µg/L |
| F-pseudosigma = | 0.30 | | | | 2.9 | | 1.21 | | 11.5 | | 0.14 | | 3.2 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 2.30 | 4 | < 1 | NR | 46.7 | 3 | 7.60 | 4 | 67.7 | 4 | 1.88 | 3 | 43.5 | 4 |
| 3 | 2.30 | 4 | < 5 | NR | 50.0 | 4 | 8.00 | 4 | 80.0 | 3 | 1.70 | 0 | 48.0 | 2 |
| 4 | < 10 | NR | < 100 | NR | 49.0 | 4 | < 5 | 0 | 67.0 | 4 | | | 43.0 | 4 |
| 10 | 2.40 | 3 | | | 49.3 | 4 | 6.60 | 2 | 77.0 | 3 | | | | |
| 11 | 2.00 | 3 | | | 58.0 | 0 | 11.00 | 0 | 190.0 | 0 | 2.04 | 4 | 45.0 | 4 |
| 12 | 2.20 | 4 | | | 50.0 | 4 | 7.00 | 3 | 80.0 | 3 | 2.00 | 4 | | |
| 13 | 2.07 | 4 | < 10 | NR | 48.9 | 4 | < 20 | NR | 49.6 | 1 | 1.96 | 4 | | |
| 16 | 2.20 | 4 | < 1 | NR | 47.8 | 4 | 8.20 | 4 | 74.9 | 4 | 2.30 | 0 | 44.2 | 4 |
| 18 | < 3 | NR | < 10 | NR | 47.0 | 3 | 8.00 | 4 | 70.0 | 4 | 2.00 | 4 | | |
| 19 | | | | | 47.7 | 4 | 6.00 | 1 | 69.6 | 4 | | | | |
| 21 | | | | | | | | | 69.0 | 4 | | | | |
| 23 | | | | | 46.7 | 3 | 9.01 | 3 | 96.4 | 0 | 1.80 | 2 | | |
| 24 | | | | | | | | | | | 1.79 | 2 | | |
| 25 | < 6 | NR | < 12 | NR | 46.0 | 3 | < 7 | NR | 54.0 | 2 | 1.92 | 3 | 47.0 | 3 |
| 26 | 2.07 | 4 | < 6 | NR | 40.0 | 0 | 8.00 | 4 | 71.9 | 4 | 1.98 | 4 | 45.6 | 4 |
| 30 | 2.90 | 0 | < 1 | NR | 49.5 | 4 | 8.30 | 4 | | | 1.80 | 2 | | |
| 32 | 2.18 | 4 | 0.20 | NR | 49.0 | 4 | 9.20 | 3 | 160.0 | 0 | 1.94 | 4 | 42.5 | 3 |
| 33 | | | | | | | | | 37.0 | 0 | 2.00 | 4 | | |
| 34 | 2.29 | 4 | | | | | | | | | | | | |
| 36 | 2.00 | 3 | | | 50.0 | 4 | 6.50 | 2 | | | 2.00 | 4 | | |
| 40 | | | | | 44.1 | 1 | | | 68.6 | 4 | 1.93 | 4 | 42.5 | 3 |
| 42 | 3.20 | 0 | < 2 | NR | 38.8 | 0 | 7.10 | 3 | 83.0 | 2 | 2.00 | 4 | | |
| 43 | | | | | | | | | 71.0 | 4 | 1.90 | 3 | | |
| 45 | | | | | | | | | | | 2.05 | 4 | | |
| 46 | 2.00 | 3 | | | 44.9 | 2 | 8.97 | 3 | 67.2 | 4 | 2.02 | 4 | | |
| 48 | 2.30 | 4 | < 50 | NR | 46.8 | 3 | 8.20 | 4 | < 30 | 0 | 1.92 | 3 | | |
| 51 | | | | | | | | | | | 2.08 | 3 | | |
| 59 | 2.00 | 3 | | | 47.0 | 3 | 8.00 | 4 | | | | | | |
| 61 | 2.00 | 3 | < 1.7 | NR | 50.8 | 3 | 7.40 | 4 | 78.5 | 3 | 3.49 | 0 | | |
| 64 | | | | | | | | | | | 2.06 | 4 | | |
| 68 | 2.54 | 2 | < 8 | NR | 46.0 | 3 | 7.00 | 3 | 100.0 | 0 | 1.90 | 3 | 44.0 | 4 |
| 69 | 1.96 | 3 | | | 45.2 | 2 | 6.10 | 1 | 69.5 | 4 | 2.10 | 3 | 47.0 | 3 |
| 70 | 2.67 | 1 | < 50 | NR | 49.6 | 4 | < 10 | NR | 64.0 | 3 | 1.96 | 4 | | |
| 76 | 2.25 | 4 | | | 45.1 | 2 | | | | | | | 41.3 | 3 |
| 80 | < 2 | NR | | | | | 4.80 | 0 | 70.0 | 4 | | | | |
| 81 | 2.00 | 3 | 231 | NR | 53.0 | 2 | 7.00 | 3 | 50.0 | 1 | 2.01 | 4 | | |
| 83 | < 5 | NR | | | 46.7 | 3 | 7.40 | 4 | 66.2 | 4 | 1.97 | 4 | | |
| 84 | | | | | | | 8.26 | 4 | | | | | | |
| 86 | | | | | 48.6 | 4 | 16.50 | 0 | 40.0 | 0 | 1.94 | 4 | | |
| 87 | 2.00 | 3 | | | 47.5 | 4 | 7.00 | 3 | 57.0 | 2 | 0.90 | 0 | | |
| 89 | 1.78 | 2 | < 10 | NR | 53.8 | 1 | < 10 | NR | 106.0 | 0 | 1.96 | 4 | | |
| 91 | | | | | | | | | 68.4 | 4 | | | | |
| 92 | 4.00 | 0 | 2.00 | NR | 17.5 | 0 | 10.00 | 1 | 100.0 | 0 | 1.80 | 2 | | |
| 96 | 2.20 | 4 | | | 52.3 | 2 | 6.60 | 2 | 80.0 | 3 | | | | |
| 97 | 2.14 | 4 | < 0.29 | NR | 57.8 | 0 | 9.10 | 3 | 72.4 | 4 | 1.90 | 3 | | |
| 104 | | | | | | | | | | | | | | |
| 105 | 1.90 | 3 | < 1 | NR | 44.0 | 1 | 7.60 | 4 | 63.0 | 3 | 1.94 | 4 | 39.2 | 1 |
| 108 | 1.35 | 0 | | | 39.0 | 0 | 8.00 | 4 | 107.0 | 0 | 540.00 | 0 | | |
| 109 | | | | | | | | | 68.3 | 4 | 2.08 | 3 | 44.9 | 4 |
| 110 | | | | | | | | | | | 2.31 | 0 | | |
| 111 | 2.00 | 3 | | | 58.5 | 0 | 6.90 | 3 | 80.0 | 3 | 1.95 | 4 | | |
| 113 | 2.33 | 3 | | | 48.1 | 4 | 8.19 | 4 | 70.0 | 4 | 2.17 | 2 | | |
| 114 | < 10 | NR | | | 56.0 | 0 | < 10 | NR | | | 2.15 | 2 | | |
| 118 | 2.00 | 3 | | | 57.3 | 0 | 7.90 | 4 | | | | | | |
| 119 | 2.04 | 4 | 0.15 | NR | 50.2 | 4 | 12.00 | 0 | 75.0 | 4 | 2.80 | 0 | | |
| 121 | 2.40 | 3 | 3.00 | NR | | | 8.00 | 4 | 68.0 | 4 | | | | |
| 126 | 2.00 | 3 | | | 42.0 | 0 | 20.00 | 0 | 85.0 | 2 | | | | |
| 129 | | | | | | | | | 75.0 | 4 | 2.70 | 0 | | |
| 131 | 2.00 | 3 | 3.00 | NR | 55.7 | 0 | < 8 | NR | 77.1 | 3 | 2.00 | 4 | 47.5 | 2 |
| 133 | < 2 | NR | | | 55.3 | 0 | 7.06 | 3 | 80.2 | 3 | | | | |

Table 6. Laboratory performance ratings for standard reference water sample T-149 (trace constituents)–Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Cd (Cadmium) | | Co (Cobalt) | | Cr (Chromium) | | Cu (Copper) | | Fe (Iron) | | K (Potassium) | | Li (Lithium) | | |
|------------------------|-----------|-------------------|--------|---------------|------|-------------|-------|-----------|-------|---------------|------|--------------|-------|--------|
| MPV = | 2.18 µg/L | insufficient data | | 48.8 µg/L | | 8.00 µg/L | | 70.0 µg/L | | 2.00 mg/L | | 44.2 µg/L | | |
| F-pseudostigma = | 0.30 | | | 2.9 | | 1.21 | | 11.5 | | 0.14 | | 3.2 | | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 134 | 2.11 | 4 | < 1 | NR | 47.9 | 4 | 7.75 | 4 | 68.0 | 4 | 1.90 | 3 | 43.4 | 4 |
| 138 | 2.12 | 4 | < 0.5 | NR | 44.3 | 1 | 7.71 | 4 | 62.2 | 3 | 1.81 | 2 | | |
| 140 | 2.75 | 1 | | | 50.0 | 4 | 12.50 | 0 | 60.0 | 3 | 1.96 | 4 | | |
| 141 | 2.36 | 3 | < 10 | NR | 58.9 | 0 | 6.90 | 3 | 51.6 | 1 | 2.09 | 3 | | |
| 142 | 1.65 | 1 | < 1 | NR | 47.5 | 4 | 7.40 | 4 | 60.0 | 3 | 1.91 | 3 | 45.0 | 4 |
| 143 | | | | | 50.2 | 4 | | | | | | | | |
| 145 | 4.00 | 0 | 4.00 | NR | 54.0 | 1 | 15.00 | 0 | 63.0 | 3 | 2.06 | 4 | 46.0 | 3 |
| 146 | < 5 | NR | < 10 | NR | 50.6 | 3 | < 25 | NR | 76.6 | 3 | 2.35 | 0 | | |
| 147 | 2.14 | 4 | 0.08 | NR | 49.0 | 4 | 7.70 | 4 | 0.1 | 0 | | | 44.0 | 4 |
| 149 | | | | | | | 7.00 | 3 | 70.0 | 4 | 2.00 | 4 | | |
| 151 | 2.30 | 4 | | | 46.6 | 3 | 8.60 | 4 | 56.2 | 2 | | | 44.2 | 4 |
| 154 | 2.30 | 4 | | | 50.0 | 4 | 5.70 | 1 | 43.0 | 0 | 1.82 | 2 | | |
| 158 | 1.29 | 0 | | | 60.6 | 0 | 8.40 | 4 | 61.6 | 3 | 1.64 | 0 | | |
| 180 | < 4.11 | NR | < 5.22 | NR | 49.1 | 4 | 9.20 | 3 | 53.0 | 2 | 2.26 | 1 | | |
| 183 | 2.58 | 2 | | | 51.6 | 3 | 8.40 | 4 | | | | | | |
| 185 | | | | | | | | | 70.0 | 4 | 1.86 | 3 | | |
| 190 | 2.50 | 2 | | | 48.8 | 4 | 7.50 | 4 | 78.4 | 3 | 1.88 | 3 | | |
| 191 | 2.58 | 2 | 0.18 | NR | 52.3 | 2 | 8.46 | 4 | 85.0 | 2 | 1.81 | 2 | | |
| 193 | 2.00 | 3 | | | 50.4 | 3 | < 25 | NR | | | 1.92 | 3 | | |
| 198 | 1.92 | 3 | | | 52.8 | 2 | < 10 | NR | < 100 | NR | 1.94 | 4 | | |
| 203 | 2.87 | 0 | | | | | 9.50 | 2 | 80.0 | 3 | 2.26 | 1 | | |
| 204 | | | | | | | | | | | | | | |
| 209 | | | | | | | | | | | | | | |
| 212 | 2.28 | 4 | 0.18 | NR | 45.3 | 2 | 7.86 | 4 | 108.0 | 0 | 2.06 | 4 | 43.6 | 4 |
| 213 | 1.71 | 1 | < 0.68 | NR | 52.1 | 2 | 7.94 | 4 | 69.8 | 4 | | | | |
| 215 | 2.00 | 3 | < 1 | NR | 47.0 | 3 | 8.00 | 4 | 73.0 | 4 | 1.00 | 0 | | |
| 218 | | | | | | | | | 78.5 | 3 | 2.18 | 2 | | |
| 219 | | | | | 48.0 | 4 | | | 65.0 | 4 | 2.00 | 4 | 42.0 | 3 |
| 220 | 2.80 | 0 | 3.20 | NR | | | 9.30 | 2 | 95.6 | 0 | 2.02 | 4 | 42.4 | 3 |
| 221 | 2.18 | 4 | 0.10 | NR | 45.8 | 2 | 7.65 | 4 | 81.0 | 3 | 1.93 | 4 | | |
| 224 | 1.80 | 2 | < 3 | NR | | | 9.20 | 3 | 86.1 | 2 | 2.13 | 3 | | |
| 234 | 3.64 | 0 | 0.40 | NR | 46.2 | 3 | 8.02 | 4 | 66.8 | 4 | 1.99 | 4 | 44.9 | 4 |
| 235 | 2.19 | 4 | | | 50.2 | 4 | 7.75 | 4 | 50.0 | 1 | | | | |
| 236 | 2.00 | 3 | 4.00 | NR | 48.0 | 4 | 5.00 | 0 | 67.0 | 4 | 1.43 | 0 | 41.0 | 2 |
| 237 | < 10 | NR | < 10 | NR | 51.0 | 3 | 8.00 | 4 | 48.0 | 1 | | | 52.0 | 0 |
| 241 | 2.20 | 4 | | | 47.4 | 4 | 8.60 | 4 | 59.0 | 3 | 1.80 | 2 | | |
| 245 | 2.16 | 4 | 0.19 | NR | 45.3 | 2 | 7.41 | 4 | 206.0 | 0 | | | | |
| 247 | 15.50 | 0 | < 1 | NR | 12.6 | 0 | 10.80 | 0 | | | 3.39 | 0 | 13.1 | 0 |
| 252 | 2.28 | 4 | | | 48.6 | 4 | 7.60 | 4 | 89.0 | 1 | | | | |
| 255 | 1.51 | 0 | < 4.1 | NR | 51.2 | 3 | 8.02 | 4 | 81.5 | 3 | 1.93 | 4 | | |
| 256 | 2.58 | 2 | < 50 | NR | 40.0 | 0 | 10.00 | 1 | 55.0 | 2 | 3.13 | 0 | 180.0 | 0 |
| 257 | 4.00 | 0 | < 0.04 | NR | 70.2 | 0 | 12.00 | 0 | 77.6 | 3 | 2.60 | 0 | 48.0 | 2 |
| 259 | 2.08 | 4 | | | 46.8 | 3 | 7.40 | 4 | 69.7 | 4 | 2.03 | 4 | | |
| 262 | | | | | | | | | | | | | | |
| 265 | 2.50 | 2 | 0.05 | NR | 49.6 | 4 | 8.50 | 4 | 74.5 | 4 | 1.93 | 4 | 43.0 | 4 |
| 268 | | | | | | | | | | | 2.51 | 0 | | |
| 272 | | | | | | | | | | | 2.00 | 4 | | |
| 273 | 15.90 | 0 | 8.36 | NR | 48.8 | 4 | 8.82 | 3 | 64.5 | 4 | 2.05 | 4 | 52.7 | 0 |
| 274 | 11.47 | 0 | | | | | 5.00 | 0 | 121.5 | 0 | 2.41 | 0 | | |
| 275 | | | | | | | | | | | 2.00 | 4 | | |
| 282 | 2.10 | 4 | < 20 | NR | 49.9 | 4 | < 10 | NR | 68.4 | 4 | 2.31 | 0 | | |
| 284 | 2.00 | 3 | < 10 | NR | 35.0 | 0 | 6.00 | 1 | 76.0 | 3 | 2.26 | 1 | | |
| 287 | 2.12 | 4 | | | 49.0 | 4 | 10.00 | 1 | 88.0 | 1 | 3.49 | 0 | | |
| 289 | 2.40 | 3 | | | | | 6.00 | 1 | 89.0 | 1 | 1.89 | 3 | 63.0 | 0 |
| 292 | 2.00 | 3 | | | 47.0 | 3 | 7.00 | 3 | 70.0 | 4 | 1.80 | 2 | | |

Table 6. Laboratory performance ratings for standard reference water sample T-149 (trace constituents)--Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Mg (Magnesium) | Mn (Manganese) | | Mo (Molybdenum) | | Na (Sodium) | | Ni (Nickel) | | Pb (Lead) | | Sb (Antimony) | | | |
|--------------------------|----------------|--------|-----------------|--------|-------------|--------|-------------|--------|-----------|--------|---------------|--------|------|----|
| MPV = 13.1 mg/L | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | | |
| F-pseudosigma = 0.7 | | | | | | | | | | | | | | |
| 1 | 13.1 | 4 | 11.2 | 3 | 1.14 | 4 | 43.0 | 4 | 33.1 | 3 | 8.60 | 4 | 22.1 | 4 |
| 3 | 13.1 | 4 | 12.0 | 4 | < 5 | NR | 45.2 | 3 | 36.0 | 0 | 11.00 | 1 | 20.0 | 4 |
| 4 | 13.0 | 4 | 12.0 | 4 | < 20 | NR | 46.0 | 2 | 30.0 | 3 | < 200 | NR | | |
| 10 | | | 15.0 | 0 | | | | | | | 8.40 | 4 | | |
| 11 | 14.2 | 1 | 13.0 | 2 | | | 40.8 | 3 | 37.0 | 0 | 9.70 | 3 | 22.0 | 4 |
| 12 | 14.6 | 0 | < 30 | NR | < 30 | NR | 45.0 | 3 | 30.0 | 3 | < 10 | NR | | |
| 13 | 13.5 | 3 | 12.8 | 2 | | | 45.8 | 2 | 27.7 | 1 | 5.50 | 0 | 25.2 | 1 |
| 18 | 13.7 | 3 | 11.6 | 4 | 1.60 | 3 | 43.0 | 4 | 31.0 | 4 | 8.80 | 4 | 19.1 | 3 |
| 18 | 12.8 | 4 | 11.0 | 3 | < 20 | NR | 42.1 | 4 | 33.0 | 3 | 8.50 | 4 | 17.7 | 2 |
| 19 | | | 11.6 | 4 | | | | | 37.0 | 0 | 8.00 | 3 | | |
| 21 | | | | | | | | | | | | | | |
| 23 | 13.5 | 3 | 12.0 | 4 | < 3 | NR | 43.9 | 4 | | | 8.40 | 4 | 18.3 | 2 |
| 24 | 13.0 | 4 | | | | | 42.6 | 4 | | | | | | |
| 25 | 14.1 | 1 | < 2 | 0 | | | 45.4 | 3 | < 49 | NR | < 71 | NR | < 51 | NR |
| 26 | 13.5 | 3 | 11.5 | 4 | < 4 | NR | 42.4 | 4 | 32.6 | 3 | 8.10 | 3 | | |
| 30 | 13.1 | 4 | 11.7 | 4 | 2.00 | 1 | | | 32.0 | 4 | 8.70 | 4 | 44.0 | 0 |
| 32 | 12.9 | 4 | 12.0 | 4 | 1.13 | 4 | 40.0 | 2 | 32.2 | 4 | 9.95 | 3 | 19.2 | 3 |
| 33 | 12.9 | 4 | < 20 | NR | | | 45.1 | 3 | | | | | | |
| 34 | | | | | | | | | | | 9.66 | 3 | | |
| 36 | 14.1 | 1 | 11.0 | 3 | | | 45.3 | 3 | 24.5 | 0 | 7.32 | 2 | 16.5 | 1 |
| 40 | 13.6 | 3 | 10.3 | 1 | | | 43.4 | 4 | | | | | | |
| 42 | 15.3 | 0 | 8.4 | 0 | < 10 | NR | 45.4 | 3 | 27.2 | 1 | 8.00 | 3 | 18.6 | 2 |
| 43 | 13.0 | 4 | 12.0 | 4 | | | 41.9 | 4 | | | | | | |
| 45 | 12.9 | 4 | | | | | 47.1 | 1 | | | | | | |
| 46 | 12.7 | 3 | 10.7 | 2 | | | 42.9 | 4 | 31.7 | 4 | 7.92 | 3 | 23.3 | 3 |
| 48 | 13.0 | 4 | 11.6 | 4 | 1.30 | 4 | 43.0 | 4 | 30.6 | 4 | 9.50 | 3 | 21.7 | 4 |
| 51 | 13.0 | 4 | | | | | 39.9 | 2 | | | | | | |
| 59 | 13.0 | 4 | 11.0 | 3 | | | 41.0 | 3 | 30.0 | 3 | 9.50 | 3 | 22.0 | 4 |
| 61 | 14.2 | 1 | 12.5 | 3 | < 17.2 | NR | 40.4 | 3 | 31.9 | 4 | 6.80 | 1 | 22.0 | 4 |
| 64 | 13.0 | 4 | | | | | 43.4 | 4 | | | | | | |
| 68 | 13.0 | 4 | 12.0 | 4 | < 7 | NR | 43.0 | 4 | 30.0 | 3 | 19.40 | 0 | 31.1 | 0 |
| 69 | 13.2 | 4 | < 20 | NR | | | 41.3 | 3 | 31.7 | 4 | 7.75 | 3 | 16.9 | 1 |
| 70 | 13.5 | 3 | < 20 | NR | < 50 | NR | 43.5 | 4 | < 50 | NR | 8.20 | 3 | 25.2 | 1 |
| 76 | 13.3 | 4 | | | | | 42.6 | 4 | 30.2 | 4 | 8.76 | 4 | 21.4 | 4 |
| 80 | | | 10.3 | 1 | | | | | | | 8.10 | 3 | | |
| 81 | 13.9 | 2 | 12.0 | 4 | < 5 | NR | 45.3 | 3 | 28.0 | 2 | 8.00 | 3 | 17.0 | 1 |
| 83 | 12.1 | 1 | 10.8 | 2 | | | 39.2 | 2 | 30.2 | 4 | | | | |
| 84 | 12.3 | 2 | 9.8 | 0 | | | 42.4 | 4 | | | 10.40 | 2 | | |
| 86 | 13.3 | 4 | 12.3 | 3 | | | 44.6 | 3 | 40.2 | 0 | 9.40 | 4 | | |
| 87 | 12.6 | 3 | 11.0 | 3 | 1.40 | 4 | 40.0 | 2 | 29.0 | 3 | 10.90 | 1 | | |
| 89 | 13.2 | 4 | 11.3 | 3 | | | 41.0 | 3 | 29.6 | 3 | 5.57 | 0 | 19.6 | 3 |
| 91 | | | 11.6 | 4 | | | | | | | | | | |
| 92 | 12.5 | 3 | 13.0 | 2 | | | 15.5 | 0 | 23.0 | 0 | 10.00 | 3 | | |
| 96 | | | < 20 | NR | | | | | 32.3 | 4 | 9.50 | 3 | 19.7 | 3 |
| 97 | 12.9 | 4 | 11.0 | 3 | < 1.05 | NR | 43.0 | 4 | 32.4 | 3 | 9.10 | 4 | 19.8 | 3 |
| 104 | | | | | | | | | | | | | | |
| 105 | 12.3 | 2 | 10.5 | 2 | < 4 | NR | 41.8 | 4 | 28.7 | 2 | 8.60 | 4 | 18.5 | 2 |
| 108 | | | 15.0 | 0 | 1.10 | 4 | | | 28.0 | 2 | 9.90 | 3 | | |
| 109 | 13.1 | 4 | 11.0 | 3 | 0.97 | 3 | 42.1 | 4 | | | 8.70 | 4 | | |
| 110 | 12.9 | 4 | | | | | 37.1 | 0 | | | | | | |
| 111 | 13.0 | 4 | | | | | 40.0 | 2 | 31.4 | 4 | 12.10 | 0 | | |
| 113 | 14.6 | 0 | 11.0 | 3 | | | 38.2 | 1 | 30.8 | 4 | 9.15 | 4 | 20.3 | 4 |
| 114 | 13.4 | 4 | 13.0 | 2 | | | 42.5 | 4 | 29.0 | 3 | < 10 | NR | | |
| 118 | | | 15.2 | 0 | | | 43.0 | 4 | 29.7 | 3 | 9.80 | 3 | | |
| 119 | 13.5 | 3 | 13.0 | 2 | 1.68 | 2 | 43.8 | 4 | 28.6 | 2 | 9.60 | 3 | 21.8 | 4 |
| 121 | 13.0 | 4 | 12.0 | 4 | | | 43.0 | 4 | 33.0 | 3 | | | | |
| 126 | | | 10.0 | 1 | | | 44.5 | 3 | 60.0 | 0 | 9.50 | 3 | | |
| 129 | 14.0 | 2 | | | | | 39.0 | 2 | | | | | | |
| 131 | 11.9 | 1 | 11.8 | 4 | < 15 | NR | 37.6 | 1 | 49.0 | 0 | 20.00 | 0 | 24.0 | 2 |
| 133 | 13.6 | 3 | | | | | | | 35.5 | 1 | < 20 | NR | | |

Table 6. Laboratory performance ratings for standard reference water sample T-149 (trace constituents)—Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Mg (Magnesium) | | | Mn (Manganese) | | Mo (Molybdenum) | | Na (Sodium) | | Ni (Nickel) | | Pb (Lead) | | Sb (Antimony) | |
|--------------------------|------|--------|----------------|--------|-----------------|--------|-------------|--------|-------------|--------|-----------|--------|---------------|--------|
| MPV = | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 13.1 | mg/L | | 11.8 | µg/L | 1.25 | µg/L | 42.8 | mg/L | 31.2 | µg/L | 8.84 | µg/L | 21.1 | µg/L |
| F-pseudostigma = | 0.7 | | 1.0 | | 0.41 | | 2.7 | | 2.2 | | 1.17 | | 2.4 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 134 | 12.9 | 4 | 11.5 | 4 | < 2 | NR | 39.6 | 2 | 31.7 | 4 | 8.87 | 4 | 18.9 | 3 |
| 138 | 13.0 | 4 | 11.2 | 3 | 1.06 | 4 | 41.9 | 4 | 30.8 | 4 | 8.79 | 4 | 21.3 | 4 |
| 140 | 12.6 | 3 | 10.0 | 1 | | | 40.0 | 2 | 32.5 | 3 | 12.50 | 0 | | |
| 141 | 13.7 | 3 | 12.3 | 3 | < 10 | NR | 44.8 | 3 | 32.1 | 4 | 10.90 | 1 | 24.1 | 2 |
| 142 | 13.4 | 3 | 10.0 | 1 | 1.25 | 4 | 43.7 | 4 | 31.3 | 4 | 8.66 | 4 | 23.4 | 3 |
| 143 | | | | | 1.36 | 4 | | | 30.2 | 4 | | | | |
| 145 | 13.7 | 3 | 12.0 | 4 | < 4 | NR | 43.3 | 4 | 38.0 | 0 | 28.00 | 0 | | |
| 146 | 13.0 | 4 | 11.7 | 4 | < 10 | NR | 46.1 | 2 | < 40 | NR | 10.30 | 2 | < 50 | NR |
| 147 | 13.5 | 3 | 12.2 | 4 | 1.15 | 4 | 48.0 | 1 | 31.0 | 4 | 8.70 | 4 | 21.1 | 4 |
| 149 | 12.4 | 2 | 10.0 | 1 | < 2 | NR | 42.0 | 4 | | | 8.00 | 3 | 18.0 | 2 |
| 151 | | | 11.8 | 4 | 1.20 | 4 | | | 29.6 | 3 | 9.20 | 4 | 22.4 | 3 |
| 154 | 13.6 | 3 | 9.0 | 0 | | | 46.8 | 2 | 31.0 | 4 | 9.10 | 4 | 20.5 | 4 |
| 158 | 13.4 | 3 | 11.7 | 4 | | | 39.3 | 2 | 33.5 | 2 | 7.10 | 2 | | |
| 180 | 13.0 | 4 | 11.8 | 4 | < 5.11 | NR | 42.1 | 4 | 40.1 | 0 | < 31.9 | NR | < 27.8 | NR |
| 183 | 10.1 | 0 | | | | | | | 32.8 | 3 | | | | |
| 185 | 12.8 | 4 | | | | | 44.8 | 3 | | | | | | |
| 190 | 12.9 | 4 | 13.8 | 0 | | | 42.8 | 4 | 37.9 | 0 | 6.82 | 1 | | |
| 191 | 13.3 | 4 | 11.3 | 3 | | | 42.1 | 4 | 34.6 | 1 | 9.68 | 3 | | |
| 193 | 12.1 | 1 | | | | | 41.4 | 3 | < 50 | NR | 9.40 | 4 | 23.0 | 3 |
| 198 | 13.0 | 4 | 12.4 | 3 | | | 42.9 | 4 | < 50 | NR | 8.72 | 4 | 20.7 | 4 |
| 203 | 13.3 | 4 | 10.0 | 1 | | | 40.5 | 3 | | | 8.30 | 4 | | |
| 204 | | | | | | | | | | | | | | |
| 209 | 14.9 | 0 | | | | | | | | | | | | |
| 212 | 13.5 | 3 | < 10 | NR | 1.13 | 4 | 45.5 | 3 | 31.1 | 4 | 9.16 | 4 | 18.8 | 3 |
| 213 | | | | | | | | | 29.4 | 3 | 8.43 | 4 | | |
| 215 | 12.7 | 3 | 12.0 | 4 | 2.00 | 1 | 41.2 | 3 | 31.0 | 4 | 7.00 | 1 | 16.0 | 0 |
| 218 | 14.7 | 0 | | | | | 47.6 | 1 | | | | | | |
| 219 | 13.0 | 4 | 12.0 | 4 | | | 43.0 | 4 | 31.0 | 4 | | | | |
| 220 | 13.0 | 4 | 11.3 | 3 | | | 42.4 | 4 | 31.8 | 4 | | | | |
| 221 | 13.1 | 4 | 14.7 | 0 | 2.00 | 1 | 43.5 | 4 | 32.1 | 4 | 8.15 | 3 | | |
| 224 | 12.2 | 2 | 11.9 | 4 | < 5 | NR | 39.8 | 2 | 11.8 | 0 | 6.13 | 0 | | |
| 234 | 13.6 | 3 | 12.4 | 3 | 0.44 | 1 | 42.8 | 4 | 34.8 | 1 | 10.60 | 2 | 20.3 | 4 |
| 235 | 12.4 | 2 | 10.5 | 2 | 1.63 | 3 | | | 30.1 | 4 | 9.33 | 4 | 23.2 | 3 |
| 236 | 13.0 | 4 | 12.0 | 4 | < 11 | NR | 40.6 | 3 | 32.0 | 4 | < 19 | NR | < 100 | NR |
| 237 | 13.2 | 4 | 12.0 | 4 | < 50 | NR | 43.2 | 4 | 32.0 | 4 | < 40 | NR | | |
| 241 | 14.0 | 2 | 15.0 | 0 | < 5 | NR | 46.0 | 2 | 32.8 | 3 | 7.20 | 2 | 22.2 | 4 |
| 245 | | | 10.3 | 1 | 1.15 | 4 | | | 29.2 | 3 | 8.99 | 4 | 21.2 | 4 |
| 247 | 8.1 | 0 | 17.0 | 0 | 11.60 | 0 | 53.6 | 0 | 18.9 | 0 | 13.40 | 0 | 9.1 | 0 |
| 252 | 15.4 | 0 | < 40 | NR | < 1 | NR | 40.5 | 3 | 34.0 | 2 | 6.13 | 0 | 20.5 | 4 |
| 255 | 13.1 | 4 | 12.1 | 4 | < 5.1 | NR | 42.9 | 4 | 34.9 | 1 | 8.87 | 4 | 26.1 | 1 |
| 256 | 15.5 | 0 | 15.0 | 0 | | | 40.3 | 3 | 37.3 | 0 | 6.88 | 1 | | |
| 257 | 13.0 | 4 | 16.6 | 0 | < 20 | NR | 38.0 | 1 | 28.0 | 2 | 10.01 | 3 | 21.2 | 4 |
| 259 | | | 10.7 | 2 | 1.20 | 4 | 42.2 | 4 | 30.0 | 3 | 8.00 | 3 | | |
| 262 | 13.4 | 4 | | | | | | | | | | | | |
| 265 | 12.9 | 4 | 11.8 | 4 | 0.80 | 2 | 42.0 | 4 | 31.0 | 4 | 8.50 | 4 | 20.5 | 4 |
| 268 | 13.1 | 4 | | | | | 48.4 | 1 | | | | | | |
| 272 | 27.7 | 0 | | | | | 38.0 | 1 | | | | | | |
| 273 | 13.5 | 3 | 10.7 | 2 | | | 46.9 | 2 | 35.6 | 1 | 9.60 | 3 | | |
| 274 | 7.1 | 0 | 16.5 | 0 | | | 53.6 | 0 | | | 11.93 | 0 | | |
| 275 | 6.8 | 0 | | | | | 50.0 | 0 | | | | | | |
| 282 | 13.5 | 3 | 11.8 | 4 | < 50 | NR | 44.4 | 3 | < 50 | NR | 6.00 | 0 | 16.0 | 0 |
| 284 | 13.4 | 4 | 16.0 | 0 | 47.00 | 0 | 47.3 | 1 | 26.0 | 0 | 8.00 | 3 | 35.0 | 0 |
| 287 | 13.1 | 4 | 13.0 | 2 | | | 41.6 | 4 | 44.0 | 0 | 8.84 | 4 | | |
| 289 | 12.6 | 3 | 10.2 | 1 | 1.70 | 2 | 37.5 | 1 | 30.7 | 4 | 9.00 | 4 | | |
| 292 | 13.2 | 4 | 12.0 | 4 | < 5 | NR | 41.8 | 4 | 30.0 | 3 | 11.00 | 1 | 22.0 | 4 |

Table 6. Laboratory performance ratings for standard reference water sample T-149 (trace constituents)--Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Se (Selenium) | | SiO2 (Silica) | | Sr (Strontium) | | Tl (Thallium) | | U (Uranium) | | V (Vanadium) | | Zn (Zinc) | | |
|-------------------------|-----------|---------------|------|----------------|-----|---------------|------|-------------|------|--------------|------|-----------|-------|--------|
| MPV = | 2.10 µg/L | 11.8 mg/L | | 331 µg/L | | 31.4 µg/L | | 2.71 µg/L | | 31.0 µg/L | | 5.80 µg/L | | |
| F-pseudostandard | 0.80 | 0.7 | | 17 | | 4.0 | | 0.43 | | 2.8 | | 2.15 | | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 1.30 | 3 | 11.8 | 4 | 323 | 4 | 31.0 | 4 | 2.40 | 3 | 31.0 | 4 | 4.90 | 4 |
| 3 | < 10 | NR | 12.4 | 3 | 359 | 1 | 27.0 | 2 | | | 32.0 | 4 | 7.00 | 3 |
| 4 | | | 12.0 | 4 | | | | | | | 20.0 | 0 | 4.50 | 3 |
| 10 | | | | | | | | | | | | | 5.00 | 4 |
| 11 | | | 11.8 | 4 | 340 | 3 | 33.0 | 4 | | | 33.0 | 3 | | |
| 12 | | | | | | 3 | | | | | | | < 20 | NR |
| 13 | < 5 | NR | 12.2 | 3 | | | 24.9 | 1 | | | 20.9 | 0 | < 10 | NR |
| 16 | < 5 | NR | | | 317 | 3 | 31.8 | 4 | 2.90 | 4 | 33.0 | 3 | 3.60 | 2 |
| 18 | 2.50 | 4 | | | 323 | 4 | 30.5 | 4 | | | 30.0 | 4 | < 100 | NR |
| 19 | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | |
| 23 | | | | | 329 | 4 | 44.0 | 0 | | | 36.9 | 0 | | |
| 24 | | | 12.5 | 3 | 342 | 3 | | | | | | | | |
| 25 | < 129 | NR | 14.4 | 0 | 358 | 1 | | | | | 30.0 | 4 | < 4 | NR |
| 26 | 1.60 | 3 | 11.7 | 4 | | | | | | | 31.3 | 4 | 3.85 | 3 |
| 30 | 5.00 | 0 | | | | | | | 3.40 | 1 | 32.0 | 4 | 6.40 | 4 |
| 32 | < 6 | NR | 11.6 | 4 | 354 | 2 | 35.8 | 2 | 3.15 | 2 | 31.7 | 4 | 6.20 | 4 |
| 33 | | | 9.8 | 0 | 346 | 3 | | | | | | | | |
| 34 | 1.62 | 3 | | | | | | | | | | | | |
| 36 | 1.80 | 4 | | | | | 10.5 | 0 | | | | | | |
| 40 | | | 11.0 | 2 | 262 | 0 | | | | | 29.3 | 3 | | |
| 42 | 2.70 | 3 | 13.2 | 1 | 359 | 1 | 30.4 | 4 | | | 24.9 | 0 | 5.00 | 4 |
| 43 | | | 11.9 | 4 | | | | | | | | | | |
| 45 | | | | | | | | | | | | | | |
| 46 | | | | | | | | | | | 30.7 | 4 | | |
| 48 | 2.00 | 4 | | | | | 33.8 | 3 | | | 30.0 | 4 | 8.30 | 2 |
| 51 | | | | | | | | | | | | | | |
| 59 | 2.70 | 3 | | | | | 33.0 | 4 | | | | | 6.00 | 4 |
| 61 | < 2.5 | NR | 5.8 | 0 | | | 36.4 | 2 | | | 33.4 | 3 | 6.40 | 4 |
| 64 | | | 11.4 | 3 | | | | | | | | | | |
| 68 | < 2.6 | NR | | | 330 | 4 | 38.4 | 1 | | | 33.0 | 3 | 7.40 | 3 |
| 69 | < 5 | NR | | | | | 31.4 | 4 | | | | | < 50 | NR |
| 70 | < 10 | NR | 11.5 | 4 | 338 | 4 | 29.1 | 3 | | | < 50 | NR | < 20 | NR |
| 76 | | | | | | | | | | | | | | |
| 80 | < 2 | NR | | | | | | | | | | | < 2 | NR |
| 81 | < 2 | NR | 12.2 | 3 | 351 | 2 | 30.0 | 4 | | | 33.0 | 3 | 3.00 | 2 |
| 83 | | | 10.5 | 1 | | | | | | | | | 2.90 | 2 |
| 84 | | | | | | | | | | | | | | |
| 86 | 0.71 | 1 | | | 332 | 4 | | | | | 41.1 | 0 | | |
| 87 | < 2 | NR | 5.9 | 0 | | | | | | | | | 11.00 | 0 |
| 89 | < 2 | NR | 12.0 | 4 | | | 31.2 | 4 | | | 42.8 | 0 | < 5 | NR |
| 91 | | | | | | | | | | | | | | |
| 92 | | | | | | | | | | | | | 12.00 | 0 |
| 96 | 1.70 | 4 | | | | | | | | | | | < 10 | NR |
| 97 | 3.03 | 2 | 10.6 | 1 | 277 | 0 | 34.1 | 3 | | | 23.2 | 0 | < 0 | 0 |
| 104 | | | 12.4 | 3 | | | | | | | | | | |
| 105 | < 7 | NR | 11.8 | 4 | 332 | 4 | 31.6 | 4 | | | 28.9 | 3 | < 5 | NR |
| 108 | 30.00 | 0 | | | | | | | | | | | 20.00 | 0 |
| 109 | 1.30 | 3 | | | 325 | 4 | | | | | | | | |
| 110 | | | | | | | | | | | | | | |
| 111 | 0.93 | 2 | 11.6 | 4 | | | | | | | 35.9 | 1 | | |
| 113 | 1.85 | 4 | 12.2 | 3 | 331 | 4 | 28.5 | 3 | | | | | 5.00 | 4 |
| 114 | | | | | | | | | | | | | < 10 | NR |
| 118 | 3.30 | 2 | 8.0 | 0 | | | | | | | | | < 15 | NR |
| 119 | 2.17 | 4 | 13.0 | 1 | 134 | 0 | 35.0 | 3 | 2.90 | 4 | 33.1 | 3 | 5.30 | 4 |
| 121 | | | 11.5 | 4 | 335 | 4 | | | | | 30.0 | 4 | 4.00 | 3 |
| 126 | | | | | | | | | | | | | 6.00 | 4 |
| 129 | | | 11.6 | 4 | | | | | | | | | | |
| 131 | 13.00 | 0 | 11.8 | 4 | 333 | 4 | | | | | 27.0 | 2 | 19.00 | 0 |
| 133 | < 5 | NR | | | | | | | | | | | 6.02 | 4 |

Table 6. Laboratory performance ratings for standard reference water sample T-149 (trace constituents)--Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = | Se (Selenium) | | SiO2 (Silica) | | Sr (Strontium) | | Tl (Thallium) | | U (Uranium) | | V (Vanadium) | | Zn (Zinc) | |
|------------------|---------------|--------|---------------|--------|----------------|--------|---------------|--------|-------------|--------|--------------|--------|-----------|--------|
| MPV = | 2.10 | µg/L | 11.8 | mg/L | 331 | µg/L | 31.4 | µg/L | 2.71 | µg/L | 31.0 | µg/L | 5.80 | µg/L |
| F-pseudostigma = | 0.80 | | 0.7 | | 17 | | 4.0 | | 0.43 | | 2.8 | | 2.15 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 134 | 2.32 | 4 | 11.9 | 4 | 331 | 4 | 34.5 | 3 | | | 30.8 | 4 | 4.47 | 3 |
| 138 | 2.12 | 4 | 11.8 | 4 | 328 | 4 | 33.3 | 4 | | | 31.0 | 4 | 4.50 | 3 |
| 140 | | | 11.6 | 4 | | | | | | | | | 7.50 | 3 |
| 141 | < 2 | NR | | | | | 49.5 | 0 | | | 29.2 | 3 | < 5 | NR |
| 142 | 1.47 | 3 | 13.5 | 0 | 343 | 3 | 34.0 | 3 | 2.51 | 4 | 30.9 | 4 | 1.85 | 1 |
| 143 | 1.55 | 3 | | | | | | | | | | | | |
| 145 | | | 12.2 | 3 | 336 | 4 | < 3 | 0 | | | 37.0 | 0 | 8.00 | 2 |
| 146 | < 10 | NR | | | | | 33.3 | 4 | | | 31.0 | 4 | < 20 | NR |
| 147 | 1.70 | 4 | 12.2 | 3 | 325 | 4 | 31.0 | 4 | 2.50 | 4 | 31.5 | 4 | 5.90 | 4 |
| 149 | | | | | | | | | | | | | 6.00 | 4 |
| 151 | 2.20 | 4 | | | 326 | 4 | 34.1 | 3 | | | | | 5.30 | 4 |
| 154 | 1.57 | 3 | | | 325 | 4 | | | | | 37.0 | 0 | 5.00 | 4 |
| 158 | | | | | | | | | | | 30.7 | 4 | 5.70 | 4 |
| 180 | < 53.2 | NR | | | | | < 40.1 | NR | | | 13.3 | 0 | 5.00 | 4 |
| 183 | | | | | | | | | | | 35.5 | 1 | | |
| 185 | | | 12.1 | 4 | | | | | | | | | | |
| 190 | | | 5.8 | 0 | | | | | | | | | 4.25 | 3 |
| 191 | | | 11.3 | 3 | 328 | 4 | 33.5 | 3 | | | | | 5.40 | 4 |
| 193 | < 5 | NR | | | | | 5.0 | 0 | | | | | < 50 | NR |
| 198 | < 5 | NR | | | | | 31.4 | 4 | | | | | < 25 | NR |
| 203 | | | 12.4 | 3 | | | | | | | | | 7.50 | 3 |
| 204 | | | 12.2 | 3 | | | | | | | | | | |
| 209 | | | | | | | | | | | | | | |
| 212 | 2.25 | 4 | 12.4 | 3 | 331 | 4 | 34.4 | 3 | | | 28.9 | 3 | 6.28 | 4 |
| 213 | | | | | | | 21.2 | 0 | | | | | < 38 | NR |
| 215 | < 5 | NR | 10.2 | 0 | | | 18.0 | 0 | | | | | 10.00 | 1 |
| 218 | | | | | 339 | 4 | | | | | | | | |
| 219 | | | | | 330 | 4 | | | | | 29.0 | 3 | 5.00 | 4 |
| 220 | 2.10 | 4 | | | | | | | | | 30.0 | 4 | 4.30 | 3 |
| 221 | 1.67 | 3 | | | | | | | | | | | | |
| 224 | 41.00 | 0 | | | | | | | | | 25.5 | 1 | 4.80 | 4 |
| 234 | 1.72 | 4 | 12.1 | 4 | 331 | 4 | 30.0 | 4 | | | 31.5 | 4 | 8.30 | 2 |
| 235 | 1.08 | 2 | | | 287 | 0 | 33.6 | 3 | | | 34.7 | 2 | 5.56 | 4 |
| 236 | 90.00 | 0 | 5.9 | 0 | 320 | 3 | | | | | 26.0 | 1 | < 1 | 0 |
| 237 | | | 11.6 | 4 | 336 | 4 | | | | | 35.0 | 2 | < 10 | NR |
| 241 | 2.70 | 3 | 11.3 | 3 | | | 10.7 | 0 | | | 30.8 | 4 | < 10 | NR |
| 245 | 1.99 | 4 | | | | | 33.9 | 3 | | | 28.1 | 2 | 17.20 | 0 |
| 247 | 14.00 | 0 | | | 305 | 1 | 20.0 | 0 | | | 14.5 | 0 | 12.00 | 0 |
| 252 | 1.18 | 2 | | | | | | | | | | | 4.00 | 3 |
| 255 | < 2 | NR | | | | | < 59 | NR | | | 31.4 | 4 | 8.00 | 2 |
| 256 | < 1 | NR | 10.5 | 1 | | | | | | | | | < 10 | NR |
| 257 | | | | | | | | | | | < 100 | NR | 5.00 | 4 |
| 259 | 2.30 | 4 | | | 326 | 4 | | | | | | | 5.20 | 4 |
| 262 | | | | | | | | | | | | | | |
| 265 | 2.50 | 4 | 12.0 | 4 | 325 | 3 | 30.5 | 4 | 2.40 | 3 | 30.0 | 4 | 4.50 | 3 |
| 268 | | | | | | | | | | | | | | |
| 272 | | | | | | | | | | | | | | |
| 273 | | | 11.6 | 4 | 378 | 0 | 20.6 | 0 | | | | | 25.90 | 0 |
| 274 | | | 14.8 | 0 | | | | | | | | | 15.71 | 0 |
| 275 | | | | | | | | | | | | | | |
| 282 | < 5 | NR | 5.9 | 0 | | | 27.7 | 3 | | | 30.3 | 4 | < 20 | NR |
| 284 | 4.00 | 0 | 8.7 | 0 | 338 | 4 | 10.0 | 0 | | | 561.0 | 0 | 17.00 | 0 |
| 287 | | | | | | | | | | | | | 7.00 | 3 |
| 289 | < 5 | NR | 11.2 | 3 | 323 | 4 | | | | | 31.7 | 4 | | |
| 292 | 2.00 | 4 | | | | | 33.0 | 4 | | | | | < 10 | NR |

Table 7. Laboratory performance ratings for standard reference water sample M-142 (major constituents)

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; µS/cm, microsiemens per centimeter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/16, number of reported values of 16 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| | | Analyte = Alkalinity | | | B (Boron) | | Ca (Calcium) | | Cl (Chloride) | | DSRD (Dissolved Solids) | |
|-----|-----|----------------------|-----|--------|-----------|--------|--------------|--------|---------------|--------|-------------------------|--------|
| | | MPV = 180 mg/L | | | 121 µg/L | | 67.6 mg/L | | 132 mg/L | | 746 mg/L | |
| | | F-pseudostigma = 9 | | | 10 | | 3.4 | | 7 | | 37 | |
| Lab | OLR | V/16 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 3.6 | 16 | 182 | 4 | 114 | 3 | 65.4 | 3 | 135 | 3 | 748 | 4 |
| 3 | 3.1 | 16 | 180 | 4 | 124 | 4 | 71.3 | 2 | 129 | 3 | 420 | 0 |
| 9 | 3.8 | 6 | 179 | 4 | | | | | 134 | 3 | 744 | 4 |
| 10 | 3.8 | 13 | 182 | 4 | 128 | 3 | 66.7 | 4 | 134 | 3 | 759 | 4 |
| 11 | 2.8 | 14 | 205 | 0 | 113 | 3 | 73.7 | 1 | 130 | 4 | 700 | 2 |
| 12 | 3.1 | 9 | 179 | 4 | | | 69.0 | 4 | 133 | 4 | 755 | 4 |
| 13 | 3.0 | 12 | 180 | 4 | | | 67.0 | 4 | 129 | 3 | 723 | 3 |
| 16 | 3.0 | 15 | 181 | 4 | 249 | 0 | 70.0 | 3 | 134 | 3 | 743 | 4 |
| 18 | 3.4 | 16 | 183 | 4 | 119 | 4 | 66.8 | 4 | 140 | 0 | 706 | 2 |
| 19 | 3.8 | 10 | 175 | 3 | | | 66.8 | 4 | 130 | 4 | 747 | 4 |
| 22 | 4.0 | 1 | | | | | | | | | | |
| 23 | 3.0 | 7 | 181 | 4 | | | 74.6 | 0 | | | 744 | 4 |
| 24 | 3.5 | 13 | 181 | 4 | 119 | 4 | 67.5 | 4 | 131 | 4 | | |
| 25 | 2.8 | 15 | 184 | 4 | < 23 | 0 | 72.7 | 1 | 129 | 3 | 736 | 4 |
| 26 | 3.8 | 13 | 182 | 4 | 109 | 2 | 68.3 | 4 | 133 | 4 | 744 | 4 |
| 30 | 3.0 | 5 | | | | | 73.5 | 1 | 128 | 2 | | |
| 32 | 2.7 | 15 | 183 | 4 | 104 | 1 | 68.8 | 4 | 134 | 3 | 752 | 4 |
| 33 | 2.5 | 10 | 182 | 4 | | | 67.6 | 4 | 121 | 0 | | |
| 36 | 3.2 | 11 | 220 | 0 | | | 70.5 | 3 | 132 | 4 | 769 | 3 |
| 38 | 3.6 | 10 | 183 | 4 | | | 66.6 | 4 | | | 754 | 4 |
| 39 | 2.8 | 15 | 170 | 2 | 119 | 4 | 65.0 | 3 | 120 | 0 | 745 | 4 |
| 40 | 2.2 | 14 | 168 | 2 | 105 | 1 | 61.7 | 1 | 129 | 3 | 744 | 4 |
| 42 | 1.3 | 12 | 165 | 1 | 102 | 1 | 76.7 | 0 | 28 | 0 | | |
| 43 | 3.5 | 11 | 180 | 4 | | | 69.8 | 3 | 134 | 3 | 746 | 4 |
| 45 | 2.5 | 6 | | | | | 68.8 | 4 | | | | |
| 46 | 3.8 | 14 | 182 | 4 | 121 | 4 | 65.6 | 3 | 133 | 4 | 760 | 4 |
| 48 | 1.9 | 13 | 161 | 0 | 70 | 0 | 73.0 | 1 | 123 | 0 | 770 | 3 |
| 50 | 3.7 | 13 | 190 | 2 | 130 | 3 | 67.0 | 4 | 133 | 4 | 744 | 4 |
| 51 | 2.9 | 10 | 182 | 4 | | | 63.6 | 2 | 137 | 2 | 738 | 4 |
| 57 | 2.9 | 13 | 180 | 4 | < 100 | NR | 65.0 | 3 | 130 | 4 | 770 | 3 |
| 59 | 0.0 | 3 | | | | | 81.0 | 0 | | | | |
| 61 | 1.3 | 15 | 180 | 4 | 129 | 3 | 77.1 | 0 | 124 | 0 | 477 | 0 |
| 64 | 3.5 | 8 | | | | | | | 133 | 4 | | |
| 68 | 3.2 | 13 | 184 | 4 | 180 | 0 | 67.0 | 4 | 134 | 3 | | |
| 69 | 3.5 | 10 | 179 | 4 | | | 65.8 | 3 | 129 | 3 | 744 | 4 |
| 70 | 3.7 | 14 | 180 | 4 | 125 | 4 | 70.6 | 3 | 129 | 3 | 750 | 4 |
| 76 | 3.7 | 7 | 175 | 3 | | | | | | | 746 | 4 |
| 80 | 3.4 | 10 | 179 | 4 | | | 75.0 | 0 | 132 | 4 | 746 | 4 |
| 81 | 3.4 | 14 | 182 | 4 | | | 70.2 | 3 | 130 | 4 | 745 | 4 |
| 83 | 1.9 | 7 | | | | | 62.9 | 2 | | | | |
| 84 | 2.9 | 8 | | | | | 69.1 | 4 | 191 | 0 | | |
| 85 | 3.6 | 14 | 182 | 4 | 112 | 3 | 69.4 | 3 | 134 | 3 | 742 | 4 |
| 86 | 3.0 | 11 | | | 114 | 3 | 70.5 | 3 | 148 | 0 | | |
| 87 | 2.2 | 12 | 180 | 4 | | | 67.6 | 4 | 109 | 0 | 704 | 2 |
| 89 | 3.2 | 14 | 179 | 4 | | | 65.0 | 3 | 134 | 3 | 729 | 4 |
| 90 | 3.0 | 5 | 163 | 1 | | | 65.8 | 3 | | | 722 | 3 |
| 92 | 2.8 | 11 | 181 | 4 | | | 58.0 | 0 | 134 | 3 | 764 | 4 |
| 93 | 1.9 | 9 | | | | | 64.2 | 2 | 29 | 0 | | |
| 96 | 4.0 | 7 | 184 | 4 | | | | | 132 | 4 | 748 | 4 |
| 97 | 3.4 | 14 | 181 | 4 | | | 67.1 | 4 | 129 | 3 | 763 | 4 |
| 102 | 1.7 | 11 | | | | | 72.0 | 2 | 119 | 0 | | |
| 104 | 4.0 | 2 | | | | | | | | | | |
| 105 | 3.1 | 15 | 180 | 4 | | | 66.7 | 4 | 131 | 4 | 776 | 2 |
| 107 | 3.4 | 9 | 177 | 4 | | | | | 129 | 3 | | |
| 108 | 1.3 | 3 | | | | | 175.0 | 0 | | | | |
| 109 | 3.5 | 11 | 192 | 2 | | | 66.8 | 4 | 130 | 4 | 751 | 4 |
| 111 | 2.7 | 11 | 179 | 4 | | | 93.7 | 0 | 147 | 0 | | |
| 113 | 3.1 | 14 | 184 | 4 | | | 70.9 | 3 | 134 | 3 | 734 | 4 |
| 114 | 3.4 | 9 | 184 | 4 | | | | | 130 | 4 | 763 | 4 |
| 118 | 2.1 | 7 | 190 | 2 | | | | | | | 750 | 4 |
| 119 | 3.1 | 16 | 178 | 4 | 103 | 1 | 67.6 | 4 | 129 | 3 | 729 | 4 |
| 121 | 3.9 | 7 | | | 124 | 4 | 66.0 | 4 | | | | |
| 126 | 4.0 | 1 | | | | | | | | | | |
| 127 | 3.3 | 16 | 180 | 4 | 119 | 4 | 66.7 | 4 | 134 | 3 | 747 | 4 |
| 129 | 2.0 | 14 | 182 | 4 | 198 | 0 | 74.0 | 1 | 131 | 4 | 719 | 3 |
| 131 | 2.6 | 14 | | | 123 | 4 | 71.4 | 2 | 125 | 1 | | |
| 133 | 2.7 | 6 | 181 | 4 | | | 72.5 | 2 | | | | |
| 134 | 3.8 | 16 | 182 | 4 | 121 | 4 | 65.0 | 3 | 133 | 4 | 759 | 4 |
| 138 | 3.8 | 16 | 189 | 2 | 121 | 4 | 68.0 | 4 | 132 | 4 | 736 | 4 |
| 140 | 3.3 | 12 | | | | | 68.0 | 4 | 131 | 4 | 722 | 3 |

Table 7. Laboratory performance ratings for standard reference water sample M-142 (major constituents)—continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; µS/cm, microsiemens per centimeter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/16, number of reported values of 16 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Lab | Analyte = Alkalinity | | | | B (Boron) | | Ca (Calcium) | | Cl (Chloride) | | DSRD (Dissolved Solids) | |
|-----|----------------------|-------------------|----------------|--------|-----------|--------|--------------|--------|---------------|--------|-------------------------|--------|
| | OLR | V/16 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| | | | MPV = 180 mg/L | | 121 µg/L | | 67.6 mg/L | | 132 mg/L | | 746 mg/L | |
| | | F-pseudosigma = 9 | | | 10 | | 3.4 | | 7 | | 37 | |
| 141 | 3.3 | 13 | 181 | 4 | 133 | 2 | 71.2 | 2 | 127 | 2 | 734 | 4 |
| 142 | 3.1 | 15 | 181 | 4 | 116 | 4 | 66.0 | 4 | 138 | 1 | 773 | 3 |
| 143 | 3.0 | 4 | | | | | | | 126 | 1 | 745 | 4 |
| 145 | 2.5 | 14 | 159 | 0 | 123 | 4 | 73.1 | 1 | 137 | 2 | | |
| 146 | 2.8 | 13 | 183 | 4 | | | 68.5 | 4 | 139 | 1 | 747 | 4 |
| 147 | 3.9 | 9 | | | 128 | 3 | 67.0 | 4 | 131 | 4 | | |
| 149 | 3.0 | 12 | 260 | 0 | | | 64.0 | 2 | 136 | 2 | 732 | 4 |
| 151 | 3.6 | 12 | 180 | 4 | | | 71.2 | 2 | 132 | 4 | 756 | 4 |
| 154 | 2.6 | 14 | 176 | 4 | 116 | 4 | 63.6 | 2 | 123 | 0 | | |
| 158 | 3.3 | 6 | 177 | 4 | | | | | 129 | 3 | 746 | 4 |
| 180 | 2.9 | 12 | 185 | 3 | 128 | 3 | 67.5 | 4 | 133 | 4 | | |
| 183 | 0.7 | 6 | | | | | 38.2 | 0 | 131 | 4 | | |
| 185 | 3.2 | 9 | 177 | 4 | | | 65.5 | 3 | 132 | 4 | | |
| 190 | 3.2 | 12 | 179 | 4 | | | 64.0 | 2 | 127 | 2 | 742 | 4 |
| 191 | 4.0 | 8 | | | | | 67.0 | 4 | 132 | 4 | | |
| 193 | 4.0 | 2 | 184 | 4 | | | | | | | | |
| 196 | 2.3 | 10 | 161 | 0 | | | 70.4 | 3 | 127 | 2 | | |
| 203 | 3.1 | 7 | 169 | 2 | | | | | 132 | 4 | | |
| 204 | 4.0 | 3 | | | | | | | | | | |
| 209 | 2.7 | 3 | | | | | 70.6 | 3 | | | | |
| 212 | 2.9 | 15 | 178 | 4 | 133 | 2 | 69.7 | 3 | 140 | 0 | 741 | 4 |
| 213 | 1.8 | 4 | 33 | 0 | | | | | 121 | 0 | | |
| 215 | 2.8 | 14 | 182 | 4 | 120 | 4 | 67.6 | 4 | 144 | 0 | 743 | 4 |
| 217 | 3.2 | 15 | 181 | 4 | 118 | 4 | 67.8 | 4 | 131 | 4 | 764 | 4 |
| 218 | 1.4 | 8 | 160 | 0 | | | 72.4 | 2 | | | | |
| 219 | 3.0 | 10 | | | 120 | 4 | 65.0 | 3 | 150 | 0 | | |
| 220 | 3.3 | 7 | 173 | 3 | | | 67.0 | 4 | 136 | 3 | | |
| 221 | 3.6 | 7 | | | | | 65.1 | 3 | 129 | 3 | | |
| 224 | 2.4 | 13 | 178 | 4 | | | 57.7 | 0 | 130 | 3 | 727 | 4 |
| 234 | 3.4 | 16 | 173 | 3 | 119 | 4 | 70.9 | 3 | 134 | 3 | 744 | 4 |
| 235 | 2.3 | 3 | | | | | 67.2 | 4 | | | | |
| 236 | 2.9 | 15 | 183 | 4 | 112 | 3 | 66.4 | 4 | 129 | 3 | 753 | 4 |
| 241 | 3.4 | 12 | | | | | 71.0 | 3 | 132 | 4 | | |
| 244 | 4.0 | 3 | 182 | 4 | | | | | | | | |
| 247 | 2.5 | 11 | 6 | 0 | | | 66.7 | 4 | 119 | 0 | 729 | 4 |
| 252 | 2.6 | 10 | 173 | 3 | | | | | 135 | 3 | | |
| 255 | 3.8 | 13 | 174 | 3 | 123 | 4 | 68.2 | 4 | 133 | 4 | 753 | 4 |
| 256 | 1.8 | 12 | 174 | 3 | < 10 | 0 | 65.5 | 3 | 130 | 3 | | |
| 257 | 2.8 | 12 | 180 | 4 | | | 70.0 | 3 | 136 | 2 | 754 | 4 |
| 258 | 2.6 | 10 | 191 | 2 | | | 67.7 | 4 | 139 | 1 | | |
| 259 | 3.7 | 15 | 180 | 4 | 135 | 2 | 66.0 | 4 | 133 | 4 | 749 | 4 |
| 261 | 1.7 | 10 | 273 | 0 | | | 66.2 | 4 | 130 | 3 | | |
| 262 | 3.5 | 10 | 179 | 4 | | | 68.5 | 4 | 131 | 4 | | |
| 263 | 2.9 | 8 | 171 | 2 | | | 64.0 | 2 | 129 | 3 | | |
| 264 | 3.5 | 11 | 180 | 4 | | | 68.0 | 4 | 133 | 4 | | |
| 265 | 3.2 | 13 | 212 | 0 | 122 | 4 | 68.6 | 4 | 138 | 1 | | |
| 266 | 3.2 | 13 | 177 | 4 | 141 | 1 | 68.0 | 4 | 134 | 3 | 752 | 4 |
| 267 | 3.8 | 6 | 180 | 4 | | | 68.0 | 4 | 131 | 4 | | |
| 268 | 2.1 | 8 | | | | | 62.5 | 1 | 133 | 4 | | |
| 269 | 3.4 | 8 | 179 | 4 | | | 66.0 | 4 | 135 | 3 | 785 | 2 |
| 270 | 1.2 | 6 | 199 | 0 | | | 45.9 | 0 | | | | |
| 272 | 1.9 | 9 | 241 | 0 | | | 64.2 | 2 | 128 | 2 | | |
| 273 | 1.7 | 15 | 148 | 0 | 52 | 0 | 72.1 | 2 | 132 | 4 | 820 | 1 |
| 274 | 0.7 | 12 | 151 | 0 | | | 29.4 | 0 | 127 | 2 | | |
| 275 | 1.9 | 10 | 168 | 2 | | | 68.0 | 4 | 142 | 0 | | |
| 276 | 3.0 | 6 | 185 | 3 | | | 62.4 | 1 | 131 | 4 | | |
| 282 | 3.0 | 14 | 176 | 4 | 125 | 4 | 69.5 | 3 | 133 | 4 | 730 | 4 |
| 284 | 2.7 | 13 | 182 | 4 | | | 67.8 | 4 | 131 | 4 | | |
| 287 | 2.7 | 10 | 168 | 2 | | | 67.4 | 4 | 138 | 1 | | |
| 290 | 2.8 | 5 | | | | | | | 119 | 0 | | |
| 291 | 4.0 | 1 | | | | | | | | | | |
| 292 | 3.3 | 11 | 180 | 4 | | | 69.5 | 3 | 136 | 2 | | |

2.84

Table 7. Laboratory performance ratings for standard reference water sample M-142 (major constituents)—Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; µS/cm, microsiemens per centimeter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/16, number of reported values of 16 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = F (Fluoride) | | K (Potassium) | | Mg (Magnesium) | | Na (Sodium) | | (total Phosphorus) as P | | |
|------------------------|------------|---------------|-----------|----------------|-----------|-------------|----------|-------------------------|-----------|--------|
| MPV = | 0.460 mg/L | | 5.72 mg/L | | 25.3 mg/L | | 153 mg/L | | 0.02 mg/L | |
| F-pseudostigma = | 0.054 | | 0.39 | | 1.3 | | 7 | | 0.01 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 0.500 | 3 | 5.60 | 4 | 24.4 | 3 | 150 | 4 | 0.01 | 3 |
| 3 | 0.470 | 4 | 6.05 | 3 | 24.6 | 3 | 158 | 3 | 0.02 | 4 |
| 9 | 0.440 | 4 | | | | | | | | |
| 10 | 0.460 | 4 | 5.59 | 4 | 25.5 | 4 | 153 | 4 | | |
| 11 | 0.440 | 4 | 6.17 | 2 | 27.0 | 2 | 144 | 2 | | |
| 12 | | | 6.00 | 3 | 28.2 | 0 | 149 | 3 | < 0.02 | NR |
| 13 | 0.331 | 0 | 5.69 | 4 | 25.1 | 4 | 144 | 2 | <0.05 | NR |
| 16 | 0.440 | 4 | 5.30 | 2 | 25.5 | 4 | 154 | 4 | 0.05 | 0 |
| 18 | 0.490 | 3 | 5.60 | 4 | 24.5 | 3 | 152 | 4 | 0.02 | 4 |
| 19 | | | 5.40 | 3 | 25.1 | 4 | 154 | 4 | | |
| 22 | | | | | | | | | 0.02 | 4 |
| 23 | | | 5.54 | 4 | | | 149 | 3 | | |
| 24 | 0.460 | 4 | 5.22 | 2 | 25.0 | 4 | 153 | 4 | | |
| 25 | 0.420 | 3 | 5.74 | 4 | 26.1 | 3 | 161 | 2 | < 0.121 | NR |
| 26 | | | 5.75 | 4 | 25.8 | 4 | 157 | 3 | | |
| 30 | | | | | 25.7 | 4 | | | | |
| 32 | 0.530 | 2 | 5.70 | 4 | 27.2 | 2 | 166 | 1 | | |
| 33 | | | 5.77 | 4 | 24.8 | 4 | 157 | 3 | | |
| 36 | 0.427 | 3 | 5.54 | 4 | 25.9 | 4 | 162 | 2 | < 0.025 | NR |
| 38 | | | 6.06 | 3 | 25.3 | 4 | 143 | 2 | 0.02 | 4 |
| 39 | 0.580 | 0 | | | 24.4 | 3 | 149 | 3 | 0.02 | 4 |
| 40 | 0.431 | 3 | 5.34 | 3 | 20.9 | 0 | 144 | 2 | | |
| 42 | | | 5.95 | 3 | 29.7 | 0 | 167 | 0 | | |
| 43 | | | 6.00 | 3 | 26.1 | 3 | 158 | 3 | | |
| 45 | 0.449 | 4 | 3.61 | 0 | 25.2 | 4 | 168 | 0 | | |
| 46 | 0.460 | 4 | 5.72 | 4 | 24.4 | 3 | 148 | 3 | | |
| 48 | 0.068 | 0 | 5.30 | 2 | 23.9 | 2 | 140 | 1 | | |
| 50 | 0.460 | 4 | 5.40 | 3 | 25.0 | 4 | 154 | 4 | | |
| 51 | | | 6.32 | 1 | 21.8 | 0 | 151 | 4 | | |
| 57 | 0.420 | 3 | 7.80 | 0 | 25.0 | 4 | 150 | 4 | 0.02 | 4 |
| 59 | | | | | 30.0 | 0 | 183 | 0 | | |
| 61 | 0.420 | 3 | 12.90 | 0 | 29.2 | 0 | 136 | 0 | 0.05 | 0 |
| 64 | | | 6.43 | 1 | | | 148 | 3 | 0.02 | 4 |
| 68 | | | 5.80 | 4 | 25.0 | 4 | 150 | 4 | 0.03 | 2 |
| 69 | 0.450 | 4 | 6.14 | 2 | 25.2 | 4 | 146 | 3 | | |
| 70 | 0.450 | 4 | 5.68 | 4 | 25.8 | 4 | 156 | 3 | < 0.1 | NR |
| 76 | 0.504 | 3 | | | 25.5 | 4 | 149 | 4 | | |
| 80 | | | 6.00 | 3 | 25.0 | 4 | 150 | 4 | | |
| 81 | | | 6.10 | 3 | 26.3 | 3 | 163 | 1 | 0.01 | 3 |
| 83 | | | 5.73 | 4 | 22.4 | 0 | 137 | 0 | 0.02 | 4 |
| 84 | 0.410 | 3 | | | 25.6 | 4 | 155 | 4 | | |
| 85 | 0.440 | 4 | 6.04 | 3 | 25.4 | 4 | 155 | 4 | 0.02 | 4 |
| 86 | | | 5.75 | 4 | 25.2 | 4 | 159 | 3 | | |
| 87 | | | 5.39 | 3 | 24.6 | 3 | 145 | 2 | 0.02 | 4 |
| 89 | 0.490 | 3 | 5.35 | 3 | 25.0 | 4 | 139 | 1 | 0.02 | 4 |
| 90 | | | | | | | | | | |
| 92 | | | 5.30 | 2 | 24.0 | 2 | 130 | 0 | 0.02 | 4 |
| 93 | 0.710 | 0 | 5.50 | 3 | 25.0 | 4 | 62 | 0 | | |
| 96 | 0.478 | 4 | | | | | | | | |
| 97 | 0.411 | 3 | 5.57 | 4 | 25.0 | 4 | 154 | 4 | | |
| 102 | | | 5.00 | 1 | 27.0 | 2 | 136 | 0 | 0.01 | 3 |
| 104 | | | | | | | | | 0.02 | 4 |
| 105 | 0.380 | 2 | 5.44 | 3 | 23.3 | 1 | 151 | 4 | 0.02 | 4 |
| 107 | 0.443 | 4 | 5.56 | 4 | 20.6 | 0 | | | 0.02 | 4 |
| 108 | | | 5.40 | 3 | | | | | 0.04 | 1 |
| 109 | 0.450 | 4 | 6.37 | 1 | 24.9 | 4 | 151 | 4 | | |
| 111 | | | 5.50 | 3 | 26.7 | 2 | 145 | 2 | 0.02 | 4 |
| 113 | 0.501 | 3 | 7.98 | 0 | 27.2 | 2 | 154 | 4 | 0.02 | 4 |
| 114 | 0.461 | 4 | | | | | | | 0.02 | 4 |
| 118 | | | | | | | 145 | 2 | 0.03 | 3 |
| 119 | 0.430 | 3 | 5.20 | 2 | 25.0 | 4 | 154 | 4 | 0.02 | 4 |
| 121 | | | | | 25.7 | 4 | 156 | 3 | | |
| 126 | | | | | | | 155 | 4 | | |
| 127 | 0.507 | 3 | 5.38 | 3 | 25.2 | 4 | 138 | 0 | 0.03 | 3 |
| 129 | 0.313 | 0 | 7.90 | 0 | 29.0 | 0 | 137 | 0 | 0.04 | 1 |
| 131 | 0.440 | 4 | 6.20 | 2 | 23.6 | 2 | 143 | 2 | 0.09 | 0 |
| 133 | | | | | 26.6 | 2 | | | 0.01 | 4 |
| 134 | 0.440 | 4 | 5.61 | 4 | 24.0 | 2 | 152 | 4 | 0.02 | 4 |
| 138 | 0.435 | 4 | 5.40 | 3 | 24.9 | 4 | 154 | 4 | 0.02 | 4 |
| 140 | 0.472 | 4 | 5.52 | 3 | 25.0 | 4 | 154 | 4 | 0.07 | 0 |

Table 7. Laboratory performance ratings for standard reference water sample M-142 (major constituents)—Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; µS/cm, microsiemens per centimeter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/16, number of reported values of 16 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = F (Fluoride) | | | K (Potassium) | | Mg (Magnesium) | | Na (Sodium) | | (total Phosphorus) as P | |
|------------------------|--------|--------|---------------|--------|----------------|--------|-------------|--------|-------------------------|--------|
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| MPV = 0.460 mg/L | | | 5.72 mg/L | | 25.3 mg/L | | 153 mg/L | | 0.02 mg/L | |
| F-pseudosigma = 0.054 | | | 0.39 | | 1.3 | | 7 | | 0.01 | |
| 141 | 0.465 | 4 | 5.97 | 3 | 25.6 | 4 | 159 | 3 | < 0.05 | NR |
| 142 | 0.560 | 1 | 5.56 | 4 | 25.7 | 4 | 162 | 2 | < 0.018 | NR |
| 143 | | | | | | | | | 0.01 | 3 |
| 145 | 0.400 | 2 | 5.89 | 4 | 27.2 | 2 | 160 | 2 | 0.02 | 4 |
| 146 | 0.464 | 4 | 8.74 | 0 | 25.8 | 4 | 157 | 3 | 0.03 | 2 |
| 147 | | | | | 25.3 | 4 | 150 | 4 | | |
| 149 | 0.460 | 4 | 5.40 | 3 | 24.0 | 2 | 151 | 4 | | |
| 151 | 0.455 | 4 | 5.52 | 3 | 25.0 | 4 | 152 | 4 | | |
| 154 | 0.420 | 3 | 5.97 | 3 | 24.5 | 3 | 152 | 4 | 0.02 | 4 |
| 158 | | | | | | | | | 0.03 | 2 |
| 180 | < 0.1 | 0 | 5.47 | 3 | 24.6 | 3 | 150 | 4 | < 0.025 | NR |
| 183 | 4.400 | 0 | | | 17.9 | 0 | | | | |
| 185 | | | 5.54 | 4 | 24.8 | 4 | 162 | 2 | | |
| 190 | 0.488 | 3 | 5.83 | 4 | 24.9 | 4 | 154 | 4 | | |
| 191 | | | 5.80 | 4 | 25.4 | 4 | 151 | 4 | | |
| 193 | | | | | | | | | | |
| 196 | 0.443 | 4 | 5.73 | 4 | 23.8 | 2 | 161 | 2 | | |
| 203 | | | | | | | | | 0.01 | 2 |
| 204 | | | | | | | | | 0.01 | 4 |
| 209 | | | | | 27.4 | 1 | | | | |
| 212 | 0.390 | 2 | 5.91 | 4 | 25.9 | 4 | 160 | 2 | < 0.05 | NR |
| 213 | | | | | | | | | 0.03 | 3 |
| 215 | 0.420 | 3 | 4.70 | 0 | 24.5 | 3 | 146 | 3 | 0.01 | 3 |
| 217 | 0.400 | 2 | 5.12 | 1 | 25.5 | 4 | 156 | 3 | | |
| 218 | | | 6.01 | 3 | 27.7 | 1 | 176 | 0 | | |
| 219 | | | 5.70 | 4 | 25.0 | 4 | 157 | 3 | | |
| 220 | | | 6.23 | 2 | 24.7 | 4 | 153 | 4 | | |
| 221 | | | 5.60 | 4 | 25.2 | 4 | 153 | 4 | | |
| 224 | 0.588 | 0 | 0.46 | 0 | 23.5 | 2 | 145 | 2 | 0.02 | 4 |
| 234 | 0.353 | 1 | 5.86 | 4 | 25.6 | 4 | 162 | 2 | 0.02 | 4 |
| 235 | | | | | 24.5 | 3 | | | | |
| 236 | 0.970 | 0 | 5.24 | 2 | 25.8 | 4 | 148 | 3 | < 0.006 | NR |
| 241 | 0.496 | 3 | 5.50 | 3 | 25.0 | 4 | 150 | 4 | 0.02 | 4 |
| 244 | | | | | | | | | | |
| 247 | 0.476 | 4 | 5.55 | 4 | 25.4 | 4 | 153 | 4 | | |
| 252 | 0.670 | 0 | | | 30.0 | 0 | 150 | 4 | 0.01 | 3 |
| 255 | 0.520 | 2 | 5.83 | 4 | 25.5 | 4 | 153 | 4 | | |
| 256 | 0.520 | 2 | 8.99 | 0 | 25.8 | 4 | 143 | 2 | | |
| 257 | 0.450 | 4 | 7.20 | 0 | 26.0 | 3 | 149 | 3 | 0.16 | 0 |
| 258 | 0.820 | 0 | 6.25 | 2 | 26.0 | 3 | 156 | 3 | | |
| 259 | 0.480 | 4 | 5.60 | 4 | 25.7 | 4 | 151 | 4 | 0.01 | 3 |
| 261 | | | 4.16 | 0 | 26.1 | 3 | 0 | 0 | 0.20 | 0 |
| 262 | 0.445 | 4 | 5.95 | 3 | 26.0 | 3 | 149 | 3 | | |
| 263 | 0.460 | 4 | | | 24.0 | 2 | | | | |
| 264 | | | 6.00 | 3 | 26.0 | 3 | 155 | 4 | 0.01 | 3 |
| 265 | 0.410 | 3 | 5.50 | 3 | 25.5 | 4 | 152 | 4 | | |
| 266 | 0.500 | 3 | 6.20 | 2 | 25.0 | 4 | 157 | 3 | | |
| 267 | | | | | 26.0 | 3 | | | | |
| 268 | | | 6.60 | 0 | 25.4 | 4 | 178 | 0 | | |
| 269 | 0.500 | 3 | | | 26.0 | 3 | | | | |
| 270 | | | 7.22 | 0 | | | 146 | 3 | | |
| 272 | 0.474 | 4 | 5.00 | 1 | 46.9 | 0 | 170 | 0 | | |
| 273 | 79.920 | 0 | 5.60 | 4 | 22.5 | 0 | 166 | 1 | 0.13 | 0 |
| 274 | 0.770 | 0 | 7.23 | 0 | 7.8 | 0 | 160 | 2 | 1.35 | 0 |
| 275 | 0.340 | 0 | 6.00 | 3 | 17.5 | 0 | 165 | 1 | 0.00 | NR |
| 276 | | | | | 25.5 | 4 | | | | |
| 282 | 0.400 | 2 | 5.49 | 3 | 25.9 | 4 | 158 | 3 | < 0.1 | NR |
| 284 | 0.460 | 4 | 6.75 | 0 | 24.7 | 4 | 171 | 0 | < 0.1 | NR |
| 287 | 0.500 | 3 | 10.40 | 0 | 25.5 | 4 | 144 | 2 | < 0.1 | NR |
| 290 | | | | | | | | | 0.01 | 3 |
| 291 | | | | | | | | | | |
| 292 | 0.360 | 1 | 5.80 | 4 | 25.8 | 4 | 145 | 2 | 0.02 | 4 |

Table 7. Laboratory performance ratings for standard reference water sample M-142 (major constituents)—Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; µS/cm, microsiemens per centimeter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/16, number of reported values of 16 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| F-pseudosigma = | pH | | SiO ₂ (Silica) | | SO ₄ (Sulfate) | | Sp Cond | | Sr (Strontium) | | V (Vanadium) | |
|-----------------|-------|--------|---------------------------|--------|---------------------------|--------|------------|--------|----------------|--------|--------------|--------|
| | MPV = | RV | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| | 8.54 | | 7.67 mg/L | | 231 mg/L | | 1200 µS/cm | | 646 µg/L | | 22.7 µg/L | |
| | 0.43 | | 0.50 | | 12 | | 60 | | 32 | | 3.7 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 8.52 | 4 | 7.44 | 4 | 232 | 4 | 1204 | 4 | 650 | 4 | 22.7 | 4 |
| 3 | 8.52 | 4 | 8.09 | 3 | 217 | 2 | 1190 | 4 | 686 | 2 | 24.0 | 4 |
| 9 | | | | | 228 | 4 | 1210 | 4 | | | | |
| 10 | 8.67 | 4 | 7.64 | 4 | 231 | 4 | 1227 | 4 | | | | |
| 11 | 8.46 | 4 | 7.30 | 3 | 236 | 4 | 1190 | 4 | 647 | 4 | | |
| 12 | 8.60 | 4 | | | 248 | 2 | | | | | | |
| 13 | 8.57 | 4 | 8.97 | 0 | 228 | 4 | 1214 | 4 | | | < 50 | NR |
| 16 | 8.50 | 4 | | | 234 | 4 | 1175 | 4 | 616 | 3 | 27.0 | 2 |
| 18 | 8.37 | 4 | 7.43 | 4 | 231 | 4 | 1166 | 3 | 630 | 4 | 22.0 | 4 |
| 19 | 8.50 | 4 | | | 229 | 4 | 1194 | 4 | | | | |
| 22 | | | | | | | | | | | | |
| 23 | | | | | 225 | 3 | 1252 | 3 | | | | |
| 24 | 8.45 | 4 | 8.45 | 1 | 234 | 4 | 1200 | 4 | 665 | 3 | | |
| 25 | 8.62 | 4 | 12.00 | 0 | 228 | 4 | 1199 | 4 | 689 | 2 | 22.0 | 4 |
| 26 | 8.53 | 4 | 7.78 | 4 | 233 | 4 | 1214 | 4 | | | 22.1 | 4 |
| 30 | 8.75 | 4 | | | 228 | 4 | | | | | | |
| 32 | 8.60 | 4 | 8.60 | 1 | 231 | 4 | 1160 | 3 | 745 | 0 | 26.4 | 3 |
| 33 | 8.57 | 4 | 5.88 | 0 | 216 | 2 | 622 | 0 | | | | |
| 36 | 8.51 | 4 | | | 233 | 4 | 1180 | 4 | | | | |
| 38 | 8.50 | 4 | 7.65 | 4 | | | 1244 | 3 | | | | |
| 39 | 8.60 | 4 | 7.67 | 4 | 236 | 4 | 1090 | 1 | 619 | 3 | 25.8 | 3 |
| 40 | 8.59 | 4 | 6.60 | 0 | | | 1190 | 4 | 513 | 0 | 22.4 | 4 |
| 42 | | | 8.83 | 0 | 103 | 0 | 1171 | 3 | 668 | 3 | 22.0 | 4 |
| 43 | 8.46 | 4 | 7.90 | 4 | 232 | 4 | 1202 | 4 | | | | |
| 45 | | | | | 221 | 3 | | | | | | |
| 46 | 8.65 | 4 | 7.45 | 4 | 235 | 4 | 1190 | 4 | | | 22.4 | 4 |
| 48 | 8.40 | 4 | | | 237 | 4 | 1217 | 4 | | | 23.4 | 4 |
| 50 | 8.54 | 4 | 7.67 | 4 | 234 | 4 | 1210 | 4 | | | | |
| 51 | 8.64 | 4 | | | 234 | 4 | 1173 | 4 | | | | |
| 57 | 7.74 | 1 | 7.40 | 3 | 230 | 4 | 1090 | 1 | | | < 100 | NR |
| 59 | | | | | | | | | | | | |
| 61 | 8.54 | 4 | 3.86 | 0 | 174 | 0 | 1218 | 4 | | | 27.0 | 2 |
| 64 | 8.63 | 4 | 7.59 | 4 | 232 | 4 | 1207 | 4 | | | | |
| 68 | 8.78 | 3 | 7.27 | 3 | | | 1248 | 3 | 640 | 4 | 23.0 | 4 |
| 69 | 8.60 | 4 | | | 231 | 4 | | | | | | |
| 70 | 8.57 | 4 | 7.93 | 3 | 226 | 4 | 1200 | 4 | 659 | 4 | < 50 | NR |
| 76 | 8.65 | 4 | | | | | 1203 | 4 | | | | |
| 80 | 8.43 | 4 | | | 238 | 3 | 1202 | 4 | | | | |
| 81 | 8.63 | 4 | 7.56 | 4 | 229 | 4 | 1220 | 4 | 678 | 3 | 21.0 | 4 |
| 83 | | | 6.68 | 1 | 214 | 2 | | | | | | |
| 84 | 8.35 | 4 | | | 299 | 0 | 1184 | 4 | | | | |
| 85 | 8.60 | 4 | | | 230 | 4 | 1190 | 4 | 690 | 2 | < 20 | NR |
| 86 | 8.47 | 4 | | | 236 | 4 | 1230 | 4 | 642 | 4 | 33.1 | 0 |
| 87 | 8.18 | 3 | 3.87 | 0 | 250 | 1 | 520 | 0 | | | | |
| 89 | 8.62 | 4 | 7.80 | 4 | 236 | 4 | 1210 | 4 | | | 31.4 | 0 |
| 90 | 8.43 | 4 | | | | | 1189 | 4 | | | | |
| 92 | 8.38 | 4 | | | 232 | 4 | 1201 | 4 | | | | |
| 93 | 8.63 | 4 | | | 44 | 0 | 1205 | 4 | | | | |
| 96 | 8.59 | 4 | | | 236 | 4 | 1216 | 4 | | | | |
| 97 | 8.61 | 4 | 7.83 | 4 | 221 | 3 | 1213 | 4 | 557 | 0 | 25.4 | 3 |
| 102 | | | 7.33 | 3 | 342 | 0 | 1208 | 4 | 1680 | 0 | 21.0 | 4 |
| 104 | | | 7.92 | 4 | | | | | | | | |
| 105 | 8.48 | 4 | 7.58 | 4 | 219 | 2 | 1205 | 4 | 631 | 4 | 28.8 | 1 |
| 107 | 8.53 | 4 | 7.47 | 4 | | | 1184 | 4 | | | | |
| 108 | | | | | | | | | | | | |
| 109 | 8.63 | 4 | | | 233 | 4 | 1167 | 3 | | | | |
| 111 | 8.51 | 4 | 7.66 | 4 | 227 | 4 | 1160 | 3 | | | | |
| 113 | 8.50 | 4 | 8.27 | 2 | 224 | 3 | 1203 | 4 | 630 | 4 | | |
| 114 | 8.44 | 4 | | | 239 | 3 | 1197 | 4 | | | 1197.0 | 0 |
| 118 | 8.40 | 4 | 11.97 | 0 | | | 725 | 0 | | | | |
| 119 | 8.70 | 4 | 8.00 | 3 | 232 | 4 | 1203 | 4 | 496 | 0 | 27.3 | 2 |
| 121 | | | 7.80 | 4 | | | | | 652 | 4 | 22.0 | 4 |
| 126 | | | | | | | | | | | | |
| 127 | 8.56 | 4 | 6.99 | 2 | 226 | 4 | 1180 | 4 | 638 | 4 | 20.0 | 3 |
| 129 | 8.37 | 4 | 7.80 | 4 | 233 | 4 | 1133 | 3 | | | | |
| 131 | 8.56 | 4 | 7.88 | 4 | 188 | 0 | 1190 | 4 | 652 | 4 | 22.0 | 4 |
| 133 | 8.43 | 4 | | | | | 1000 | 0 | | | | |
| 134 | 8.60 | 4 | 7.62 | 4 | 232 | 4 | 1203 | 4 | 635 | 4 | 21.8 | 4 |
| 138 | 8.53 | 4 | 7.71 | 4 | 237 | 4 | 1170 | 4 | 644 | 4 | 22.4 | 4 |
| 140 | 8.54 | 4 | 8.00 | 3 | 241 | 3 | 1180 | 4 | | | | |

Table 7. Laboratory performance ratings for standard reference water sample M-142 (major constituents)--Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; µS/cm, microsiemens per centimeter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/16, number of reported values of 16 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = pH | | SiO ₂ (Silica) | | SO ₄ (Sulfate) | | Sp Cond | | Sr (Strontium) | | V (Vanadium) | | |
|------------------|------|---------------------------|--------|---------------------------|------|------------|------|----------------|-----|--------------|-------|--------|
| MPV = | 8.54 | 7.67 mg/L | | 231 mg/L | | 1200 µS/cm | | 646 µg/L | | 22.7 µg/L | | |
| F-pseudostigma = | 0.43 | 0.50 | | 12 | | 60 | | 32 | | 3.7 | | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 141 | 8.65 | 4 | | | 241 | 3 | 1212 | 4 | | | 21.1 | 4 |
| 142 | 8.49 | 4 | 8.39 | 2 | 236 | 4 | 1201 | 4 | 668 | 3 | 28.1 | 2 |
| 143 | 8.65 | 4 | | | | | | | | | | |
| 145 | | | 7.76 | 4 | 228 | 4 | 1140 | 3 | 682 | 2 | 29.7 | 1 |
| 146 | 8.54 | 4 | | | 216 | 2 | 1090 | 1 | | | 23.6 | 4 |
| 147 | | | 7.90 | 4 | 229 | 4 | | | 630 | 4 | 22.3 | 4 |
| 149 | 8.60 | 4 | 7.20 | 3 | 234 | 4 | 1205 | 4 | | | | |
| 151 | 8.61 | 4 | 8.32 | 2 | 234 | 4 | 1216 | 4 | | | | |
| 154 | 8.55 | 4 | | | 200 | 0 | 1232 | 3 | 595 | 1 | 29.5 | 1 |
| 158 | 8.55 | 4 | | | 224 | 3 | | | | | | |
| 180 | 8.60 | 4 | | | 230 | 4 | 1240 | 3 | | | 10.4 | 0 |
| 183 | | | 223.80 | 0 | | | | | | | 31.8 | 0 |
| 185 | 8.56 | 4 | 6.30 | 0 | | | 1197 | 4 | | | | |
| 190 | 8.50 | 4 | 3.70 | 0 | 225 | 3 | 1201 | 4 | | | | |
| 191 | | | 7.62 | 4 | 231 | 4 | | | 644 | 4 | | |
| 193 | | | | | | | 1170 | 4 | | | | |
| 196 | 8.70 | 4 | | | 219 | 2 | 7380 | 0 | | | | |
| 203 | 8.56 | 4 | 8.11 | 3 | 225 | 3 | 1199 | 4 | | | | |
| 204 | 8.74 | 4 | | | | | 1184 | 4 | | | | |
| 209 | 8.39 | 4 | | | | | | | | | | |
| 212 | 8.60 | 4 | 8.18 | 2 | 244 | 2 | 1170 | 4 | 640 | 4 | 24.8 | 3 |
| 213 | 8.52 | 4 | | | | | | | | | | |
| 215 | 8.50 | 4 | 6.71 | 1 | 248 | 2 | 1170 | 4 | | | | |
| 217 | 8.60 | 4 | 23.30 | 0 | 223 | 3 | 1160 | 3 | 652 | 4 | 22.5 | 4 |
| 218 | 8.63 | 4 | | | | | 692 | 0 | 701 | 1 | | |
| 219 | | | | | 240 | 3 | 1130 | 2 | 637 | 4 | 19.0 | 3 |
| 220 | | | | | 225 | 3 | | | | | | |
| 221 | 8.89 | 3 | | | 235 | 4 | | | | | | |
| 224 | 8.47 | 4 | | | 230 | 4 | 1220 | 4 | | | 0.0 | 0 |
| 234 | 8.59 | 4 | 8.03 | 3 | 232 | 4 | 1210 | 4 | 649 | 4 | 22.2 | 4 |
| 235 | | | | | | | | | | | < 10 | 0 |
| 236 | 8.58 | 4 | 3.98 | 0 | 232 | 4 | 1131 | 2 | 628 | 3 | 19.0 | 3 |
| 241 | 8.39 | 4 | 7.50 | 4 | 233 | 4 | 1050 | 0 | | | 23.0 | 4 |
| 244 | 8.63 | 4 | | | | | 1198 | 4 | | | | |
| 247 | 8.59 | 4 | | | 2 | 0 | 871 | 0 | | | | |
| 252 | 8.50 | 4 | 7.80 | 4 | 240 | 3 | 1130 | 2 | | | | |
| 255 | 8.58 | 4 | 7.69 | 4 | | | 1170 | 4 | | | 22.7 | 4 |
| 256 | 8.27 | 3 | 6.90 | 1 | 206 | 0 | 1321 | 1 | | | | |
| 257 | 8.28 | 3 | | | 232 | 4 | 1209 | 4 | | | < 100 | NR |
| 258 | 8.55 | 4 | | | 238 | 3 | 1182 | 4 | | | | |
| 259 | 8.55 | 4 | 7.40 | 3 | 227 | 4 | 1215 | 4 | 626 | 3 | | |
| 261 | 8.41 | 4 | | | 2600 | 0 | 1139 | 3 | | | | |
| 262 | 8.47 | 4 | | | 217 | 2 | 1218 | 4 | | | | |
| 263 | 8.30 | 3 | | | 224 | 3 | 1192 | 4 | | | | |
| 264 | 8.62 | 4 | 7.20 | 3 | 240 | 3 | 1184 | 4 | | | | |
| 265 | 8.64 | 4 | 7.50 | 4 | 246 | 2 | | | 649 | 4 | 22.0 | 4 |
| 266 | 8.30 | 3 | 7.70 | 4 | 242 | 3 | 1210 | 4 | | | | |
| 267 | 8.60 | 4 | | | | | 1209 | 4 | | | | |
| 268 | 8.24 | 3 | | | 232 | 4 | 1300 | 1 | | | | |
| 269 | 8.51 | 4 | | | | | 1209 | 4 | | | | |
| 270 | 8.60 | 4 | | | | | 1480 | 0 | | | | |
| 272 | 8.47 | 4 | | | | | 1217 | 4 | | | | |
| 273 | 8.50 | 4 | 7.12 | 2 | 227 | 4 | 1221 | 4 | 712 | 0 | | |
| 274 | 8.59 | 4 | 11.67 | 0 | 193 | 0 | 969 | 0 | | | | |
| 275 | 8.38 | 4 | | | 243 | 2 | 1260 | 3 | | | | |
| 276 | 8.10 | 2 | | | | | 1230 | 4 | | | | |
| 282 | 8.50 | 4 | 3.81 | 0 | 241 | 3 | 1090 | 1 | | | 26.0 | 3 |
| 284 | 8.24 | 3 | 7.86 | 4 | 194 | 0 | 1207 | 4 | 639 | 4 | 185.0 | 0 |
| 287 | 8.34 | 4 | | | 223 | 3 | 1215 | 4 | | | | |
| 290 | 8.50 | 4 | | | 233 | 4 | 1146 | 3 | | | | |
| 291 | 8.34 | 4 | | | | | | | | | | |
| 292 | 8.71 | 4 | | | 227 | 4 | 1209 | 4 | | | | |

Table 8. Laboratory performance ratings for standard reference water sample N-53 (nutrient constituents)

(MPV, most probable value mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/5, number of reported values of 5 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Lab | Analyte = NH ₃ as N (Ammonia) | | | | NH ₃ + Org N as N (Ammonia+Organic N) | | NO ₃ + NO ₂ as N (Nitrate + Nitrite) | | total P as P (total Phosphorus) | | PO ₄ as P (Orthophosphate as P) | |
|-----|---|-----------------|------|--------|---|--------|---|--------|------------------------------------|--------|---|--------|
| | MPV = | F-pseudosigma = | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| | 3.50 mg/L | 0.17 | | | 3.95 mg/L | | 2.57 mg/L | | 2.32 mg/L | | 2.12 mg/L | |
| 1 | 1.4 | 5 | 3.70 | 2 | 4.20 | 3 | 2.81 | 1 | 2.47 | 2 | 2.28 | 1 |
| 9 | 3.8 | 4 | 3.55 | 4 | 3.81 | 3 | 2.55 | 4 | | | 2.09 | 4 |
| 10 | 4.0 | 5 | 3.50 | 4 | 3.92 | 4 | 2.57 | 4 | 2.30 | 4 | 2.12 | 4 |
| 11 | 1.0 | 5 | 4.10 | 0 | 4.25 | 2 | 2.62 | 4 | 1.95 | 0 | 1.90 | 0 |
| 12 | 2.6 | 5 | 3.10 | 0 | 3.80 | 3 | 2.62 | 4 | 2.26 | 3 | 2.15 | 4 |
| 13 | 1.8 | 4 | 3.19 | 1 | | | 2.57 | 4 | 2.21 | 2 | 1.94 | 1 |
| 16 | 1.4 | 5 | 2.89 | 0 | 3.05 | 0 | 2.28 | 0 | 2.40 | 3 | 2.13 | 4 |
| 18 | 3.4 | 5 | 3.73 | 2 | 4.10 | 3 | 2.56 | 4 | 2.28 | 4 | 2.13 | 4 |
| 19 | 4.0 | 4 | 3.53 | 4 | | | 2.57 | 4 | 2.29 | 4 | 2.15 | 4 |
| 22 | 2.0 | 1 | | | | | | | 2.18 | 2 | | |
| 23 | 2.3 | 4 | 3.29 | 2 | | | 2.41 | 2 | 2.22 | 3 | 2.17 | 4 |
| 25 | | | | | | | | | | | | |
| 26 | 4.0 | 2 | 3.49 | 4 | | | | | | | 2.15 | 4 |
| 33 | 0.5 | 2 | 4.35 | 0 | | | | | | | 2.00 | 2 |
| 36 | 1.7 | 3 | | | | | 2.57 | 4 | 2.15 | 1 | 2.30 | 1 |
| 38 | 3.0 | 5 | 3.86 | 0 | 3.72 | 3 | 2.56 | 4 | 2.30 | 4 | 2.14 | 4 |
| 42 | 0.0 | 1 | | | | | 1.45 | 0 | | | | |
| 45 | 3.0 | 3 | 3.41 | 3 | 4.36 | 2 | 2.61 | 4 | | | | |
| 46 | 4.0 | 5 | 3.51 | 4 | 4.00 | 4 | 2.55 | 4 | 2.31 | 4 | 2.13 | 4 |
| 48 | 1.2 | 5 | 4.00 | 0 | 4.40 | 1 | 2.32 | 1 | 2.20 | 2 | 2.16 | 4 |
| 51 | 3.3 | 4 | 3.62 | 3 | | | 2.68 | 3 | 2.35 | 4 | 2.12 | 4 |
| 53 | 0.5 | 2 | | | | | 2.89 | 0 | | | 2.25 | 2 |
| 55 | 2.3 | 4 | 3.41 | 3 | 4.24 | 2 | 2.54 | 4 | 2.58 | 0 | | |
| 59 | 3.4 | 5 | 3.43 | 4 | 3.90 | 4 | 2.54 | 4 | 2.50 | 1 | 2.09 | 4 |
| 61 | 1.8 | 5 | 3.61 | 3 | 4.36 | 2 | 2.40 | 2 | 2.41 | 3 | 1.83 | 0 |
| 64 | 4.0 | 3 | 3.51 | 4 | | | 2.61 | 4 | 2.37 | 4 | | |
| 68 | 2.5 | 4 | 3.85 | 1 | 4.08 | 4 | 2.73 | 2 | 2.36 | 4 | | |
| 69 | 4.0 | 1 | | | | | 2.58 | 4 | | | | |
| 70 | 3.8 | 5 | 3.43 | 4 | 4.12 | 3 | 2.57 | 4 | 2.37 | 4 | 2.09 | 4 |
| 76 | 3.0 | 1 | 3.39 | 3 | | | | | | | | |
| 81 | 2.4 | 5 | 3.88 | 0 | 4.15 | 3 | 2.61 | 4 | 2.13 | 1 | 2.15 | 4 |
| 83 | 1.3 | 4 | 0.89 | 0 | | | 2.48 | 3 | 2.17 | 2 | 0.56 | 0 |
| 84 | 1.0 | 2 | | | | | 2.42 | 2 | | | 2.00 | 2 |
| 85 | 3.8 | 5 | 3.49 | 4 | 4.00 | 4 | 2.64 | 3 | 2.29 | 4 | 2.13 | 4 |
| 86 | 3.3 | 3 | 3.43 | 4 | | | 2.57 | 4 | 2.44 | 2 | | |
| 87 | 2.6 | 5 | 3.55 | 4 | 4.28 | 2 | 2.48 | 3 | 2.54 | 1 | 2.08 | 4 |
| 89 | 3.6 | 5 | 3.57 | 4 | 4.05 | 4 | 2.70 | 2 | 2.36 | 4 | 2.13 | 4 |
| 90 | 1.0 | 3 | 3.60 | 3 | < 0.1 | 0 | 2.99 | 0 | | | | |
| 91 | 3.8 | 4 | 3.38 | 3 | 3.90 | 4 | 2.60 | 4 | 2.32 | 4 | | |
| 92 | 1.5 | 4 | 4.00 | 0 | | | 2.20 | 0 | 2.26 | 3 | 2.17 | 4 |
| 96 | 3.4 | 5 | 3.40 | 3 | 3.90 | 4 | 2.60 | 4 | 2.20 | 2 | 2.10 | 4 |
| 97 | 0.0 | 5 | 0.95 | 0 | 1.17 | 0 | 1.15 | 0 | 1.70 | 0 | 1.68 | 0 |
| 102 | 2.2 | 5 | 1.79 | 0 | 3.63 | 2 | 2.53 | 4 | 2.16 | 2 | 2.06 | 3 |
| 104 | 3.0 | 5 | 3.43 | 4 | 4.60 | 0 | 2.66 | 4 | 2.30 | 4 | 2.15 | 4 |
| 105 | 3.0 | 5 | 3.42 | 4 | 3.58 | 2 | 2.52 | 4 | 2.33 | 4 | 2.20 | 3 |
| 107 | 3.5 | 4 | 3.58 | 4 | | | 2.61 | 4 | 2.36 | 4 | 2.04 | 3 |
| 111 | 1.3 | 3 | 2.90 | 0 | | | 2.58 | 4 | 2.04 | 0 | | |
| 113 | 3.3 | 4 | | | 3.72 | 3 | 2.51 | 4 | 2.22 | 3 | 2.09 | 4 |
| 114 | 3.3 | 3 | 3.28 | 2 | | | 2.59 | 4 | 2.32 | 4 | | |
| 118 | 3.2 | 5 | 3.39 | 3 | 4.05 | 4 | 2.39 | 2 | 2.34 | 4 | 2.12 | 4 |
| 119 | 3.6 | 5 | 3.38 | 3 | 3.95 | 4 | 2.61 | 4 | 2.38 | 3 | 2.14 | 4 |
| 127 | 3.6 | 5 | 3.53 | 4 | 4.11 | 3 | 2.53 | 4 | 2.32 | 4 | 2.19 | 3 |
| 129 | 3.4 | 5 | 3.29 | 2 | 3.96 | 4 | 2.62 | 4 | 2.30 | 4 | 2.12 | 4 |
| 133 | 2.0 | 5 | 1.81 | 0 | 1.89 | 0 | 2.45 | 3 | 2.35 | 4 | 2.13 | 4 |
| 134 | 3.2 | 5 | 3.57 | 4 | 3.81 | 3 | 2.62 | 4 | 2.16 | 2 | 2.15 | 4 |
| 138 | 3.8 | 5 | 3.58 | 4 | 3.89 | 4 | 2.48 | 3 | 2.32 | 4 | 2.13 | 4 |
| 140 | 0.8 | 5 | 4.21 | 0 | 4.33 | 2 | 2.68 | 3 | 1.90 | 0 | 1.87 | 0 |
| 141 | 3.0 | 5 | 3.50 | 4 | 4.08 | 4 | 2.56 | 4 | 2.24 | 3 | 2.34 | 0 |
| 142 | 3.0 | 5 | 3.48 | 4 | 3.58 | 2 | 2.66 | 3 | 2.37 | 4 | 2.02 | 3 |
| 143 | 2.2 | 5 | 3.47 | 4 | 3.96 | 4 | 2.49 | 3 | 2.08 | 0 | 2.27 | 2 |

Table 8. Laboratory performance ratings for standard reference water sample N-53 (nutrient constituents)—continued

(MPV, most probable value mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/5, number of reported values of 5 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = NH ₃ as N (Ammonia) | | NH ₃ + Org N as N (Ammonia+Organic N) | | NO ₃ + NO ₂ as N (Nitrate + Nitrite) | | total P as P (total Phosphorus) | | PO ₄ as P (Orthophosphate as P) | | | | |
|---|-----|---|------|---|------|------------------------------------|------|---|------|--------|------|---|
| MPV = 3.50 mg/L | | 3.95 mg/L | | 2.57 mg/L | | 2.32 mg/L | | 2.12 mg/L | | | | |
| F-pseudosigma = 0.17 | | 0.28 | | 0.13 | | 0.11 | | 0.11 | | | | |
| Lab | OLR | V/5 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | | |
| 145 | 3.2 | 5 | 3.76 | 2 | 3.84 | 4 | 2.50 | 3 | 2.34 | 4 | 2.07 | 4 |
| 146 | 2.0 | 5 | 3.30 | 2 | 3.96 | 4 | 2.88 | 0 | 2.33 | 4 | 2.46 | 0 |
| 149 | 2.3 | 3 | 0.55 | 0 | | | 2.60 | 4 | | | 2.06 | 3 |
| 151 | 1.7 | 3 | | | | | 2.48 | 3 | 2.06 | 0 | 2.21 | 3 |
| 154 | 2.8 | 5 | 3.48 | 4 | 3.92 | 4 | 2.84 | 0 | 2.21 | 2 | 2.09 | 4 |
| 158 | 3.4 | 5 | 3.63 | 3 | 4.19 | 3 | 2.58 | 4 | 2.36 | 4 | 2.06 | 3 |
| 180 | 3.4 | 5 | 3.54 | 4 | 3.94 | 4 | 2.48 | 3 | 2.42 | 3 | 2.06 | 3 |
| 183 | 1.3 | 4 | 3.93 | 0 | | | 5.50 | 0 | 2.31 | 4 | 2.23 | 1 |
| 185 | 1.5 | 4 | 3.76 | 2 | | | 2.57 | 4 | 2.56 | 0 | 1.73 | 0 |
| 190 | 3.0 | 5 | 3.70 | 2 | 3.82 | 4 | 2.54 | 4 | 2.29 | 4 | 2.01 | 1 |
| 191 | 3.5 | 2 | | | | | 2.57 | 4 | | | 2.08 | 3 |
| 193 | 0.0 | 1 | | | | | 2.23 | 0 | | | | |
| 203 | 3.5 | 4 | 3.46 | 4 | | | 2.55 | 4 | 2.36 | 4 | 2.20 | 2 |
| 209 | 0.0 | 2 | | | 0.29 | 0 | 5.60 | 0 | | | | |
| 212 | 2.4 | 5 | 3.40 | 3 | 3.60 | 2 | 2.60 | 4 | 2.40 | 3 | 2.30 | 0 |
| 213 | 3.3 | 4 | 3.50 | 4 | 4.50 | 1 | | | 2.35 | 4 | 2.12 | 4 |
| 215 | 3.2 | 5 | 3.46 | 4 | 3.61 | 2 | 2.63 | 4 | 2.33 | 4 | 2.06 | 3 |
| 217 | 3.4 | 5 | 3.40 | 3 | 4.00 | 4 | 2.60 | 4 | 2.20 | 2 | 2.10 | 4 |
| 220 | 2.5 | 2 | 3.26 | 2 | | | 2.49 | 3 | | | | |
| 221 | 1.6 | 5 | 1.72 | 0 | 4.21 | 3 | 2.89 | 0 | 2.30 | 4 | 2.24 | 1 |
| 224 | 1.4 | 5 | 3.97 | 0 | 7.56 | 0 | 2.69 | 3 | 2.28 | 4 | 2.24 | 1 |
| 234 | 2.3 | 4 | 3.71 | 2 | | | 2.50 | 3 | 2.34 | 4 | 1.90 | 0 |
| 241 | 3.6 | 5 | 3.57 | 4 | 3.68 | 3 | 2.54 | 4 | 2.40 | 3 | 2.13 | 4 |
| 247 | 0.0 | 2 | | | | | 2.36 | 1 | | | 1.94 | 0 |
| 252 | 2.0 | 5 | 3.83 | 1 | 4.11 | 3 | 2.68 | 3 | 2.52 | 1 | 2.05 | 3 |
| 255 | 4.0 | 1 | | | | | 2.56 | 4 | | | | |
| 276 | 3.0 | 1 | | | | | | | | | | |
| 282 | 2.0 | 5 | 3.46 | 4 | 4.66 | 0 | 2.65 | 3 | 2.40 | 3 | 2.20 | 2 |
| 284 | 0.6 | 5 | 4.25 | 0 | 4.93 | 0 | 2.74 | 2 | 2.14 | 1 | 1.63 | 0 |
| 285 | 1.2 | 5 | 2.47 | 0 | 3.56 | 2 | 2.48 | 3 | 2.19 | 2 | 3.13 | 0 |
| 287 | 2.0 | 2 | | | | | | | 2.49 | 1 | 1.10 | 0 |
| 289 | 3.0 | 5 | 3.46 | 4 | 3.84 | 4 | 2.49 | 3 | 2.34 | 4 | 1.78 | 0 |
| 290 | 3.3 | 3 | 3.51 | 4 | 3.59 | 2 | 2.53 | 4 | 2.32 | 4 | | |
| 291 | 2.0 | 2 | | | | | 3.20 | 0 | | | | |
| 292 | 3.0 | 4 | 3.20 | 1 | | | 2.64 | 3 | 2.34 | 4 | 2.09 | 4 |
| 294 | 3.0 | 3 | 3.58 | 4 | | | 2.40 | 2 | 2.28 | 4 | 2.13 | 4 |

Table 9. Laboratory performance ratings for standard reference water sample N-54 (nutrient constituents)

(MPV, most probable value; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/5, number of reported values of 5 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Lab | OLR | Analyte = NH ₃ as N (Ammonia) | | | | NH ₃ + Org N as N (Ammonia+Organic N) | | NO ₃ + NO ₂ as N (Nitrate + Nitrite) | | total P as P (total Phosphorus) | | PO ₄ as P (Orthophosphate as P) | |
|-----|-----|---|------|----|------|---|------|---|------|------------------------------------|------|---|--|
| | | MPV = 1.00 mg/L | | RV | | RV | | RV | | RV | | RV | |
| | | F-pseudosigma = 0.08 | | | | | | | | | | | |
| 1 | 3.0 | 5 | 1.01 | 4 | 1.30 | 4 | 1.21 | 4 | 1.89 | 2 | 1.88 | 1 | |
| 3 | 3.2 | 5 | 0.92 | 3 | 1.00 | 1 | 1.20 | 4 | 1.70 | 4 | 1.70 | 4 | |
| 9 | 4.0 | 2 | | | | | 1.17 | 4 | | | 1.75 | 4 | |
| 10 | 3.8 | 5 | 0.98 | 4 | 1.18 | 3 | 1.19 | 4 | 1.79 | 4 | 1.75 | 4 | |
| 11 | 1.0 | 5 | 1.18 | 0 | 1.52 | 1 | 1.72 | 0 | 1.42 | 0 | 1.71 | 4 | |
| 12 | 2.4 | 5 | 1.10 | 2 | 0.80 | 0 | 1.14 | 4 | 1.67 | 2 | 1.71 | 4 | |
| 13 | 4.0 | 4 | 0.97 | 4 | | | 1.19 | 4 | 1.76 | 4 | 1.69 | 4 | |
| 16 | 1.8 | 5 | 0.85 | 1 | 1.02 | 1 | 1.04 | 2 | 1.94 | 1 | 1.74 | 4 | |
| 18 | 3.4 | 5 | 1.08 | 3 | 1.34 | 3 | 1.11 | 3 | 1.74 | 4 | 1.73 | 4 | |
| 19 | 3.5 | 4 | 0.99 | 4 | | | 1.28 | 2 | 1.79 | 4 | 1.69 | 4 | |
| 22 | 4.0 | 1 | | | | | | | 1.81 | 4 | | | |
| 23 | 3.6 | 5 | 0.98 | 4 | 1.26 | 4 | 1.15 | 4 | 1.67 | 2 | 1.76 | 4 | |
| 26 | 3.3 | 3 | 0.94 | 3 | | | 1.22 | 3 | | | 1.79 | 4 | |
| 30 | 2.5 | 2 | | | | | 1.16 | 4 | | | 1.87 | 1 | |
| 33 | 3.7 | 3 | 0.98 | 4 | 1.34 | 3 | | | | | 1.65 | 4 | |
| 36 | 2.4 | 5 | 1.08 | 3 | 1.10 | 2 | 1.16 | 4 | 1.90 | 2 | 1.90 | 1 | |
| 38 | 2.4 | 5 | 1.16 | 1 | 1.16 | 3 | 1.41 | 0 | 1.74 | 4 | 1.68 | 4 | |
| 39 | 2.5 | 4 | 0.76 | 0 | | | 1.13 | 4 | 1.87 | 2 | 1.74 | 4 | |
| 45 | 3.0 | 3 | 1.06 | 3 | 1.46 | 2 | 1.17 | 4 | | | | | |
| 46 | 3.6 | 5 | 0.90 | 2 | 1.20 | 4 | 1.16 | 4 | 1.77 | 4 | 1.80 | 4 | |
| 48 | 2.6 | 5 | 0.86 | 1 | 1.20 | 4 | 0.96 | 0 | 1.70 | 4 | 1.76 | 4 | |
| 53 | 0.5 | 2 | | | | | 1.01 | 1 | | | 1.91 | 0 | |
| 55 | 3.5 | 4 | 0.97 | 4 | 1.20 | 4 | 1.26 | 2 | 1.77 | 4 | | | |
| 57 | 0.8 | 4 | 0.90 | 2 | 2.40 | 0 | 1.90 | 0 | 1.60 | 1 | | | |
| 59 | 4.0 | 5 | 1.04 | 4 | 1.30 | 4 | 1.14 | 4 | 1.70 | 4 | 1.70 | 4 | |
| 61 | 3.2 | 5 | 1.10 | 2 | 1.30 | 4 | 1.27 | 2 | 1.78 | 4 | 1.71 | 4 | |
| 64 | 4.0 | 1 | 1.01 | 4 | | | | | | | | | |
| 68 | 3.5 | 4 | 1.01 | 4 | 1.43 | 2 | 1.17 | 4 | 1.79 | 4 | | | |
| 69 | 4.0 | 1 | | | | | 1.16 | 4 | | | | | |
| 70 | 3.0 | 5 | 0.93 | 3 | 1.34 | 3 | 1.03 | 1 | 1.84 | 4 | 1.68 | 4 | |
| 76 | 4.0 | 1 | 0.98 | 4 | | | | | | | | | |
| 80 | 0.7 | 3 | 1.12 | 2 | | | 0.57 | 0 | | | 1.47 | 0 | |
| 81 | 2.8 | 5 | 1.13 | 1 | 1.33 | 3 | 1.16 | 4 | 1.74 | 4 | 1.60 | 2 | |
| 83 | 1.8 | 4 | 0.94 | 3 | | | 1.10 | 3 | 1.61 | 1 | 0.45 | 0 | |
| 84 | 0.5 | 2 | | | | | 0.32 | 0 | | | 1.58 | 1 | |
| 85 | 3.8 | 5 | 1.00 | 4 | 1.35 | 3 | 1.19 | 4 | 1.84 | 4 | 1.76 | 4 | |
| 86 | 2.7 | 3 | 1.00 | 4 | | | 1.44 | 0 | 1.82 | 4 | | | |
| 87 | 2.0 | 5 | 1.05 | 3 | 1.53 | 1 | 1.18 | 4 | 1.98 | 0 | 1.81 | 2 | |
| 89 | 3.6 | 5 | 0.92 | 3 | 1.19 | 3 | 1.20 | 4 | 1.80 | 4 | 1.69 | 4 | |
| 90 | 1.0 | 3 | 1.40 | 0 | 0.75 | 0 | 1.12 | 3 | | | | | |
| 91 | 2.8 | 4 | 0.94 | 3 | 1.35 | 3 | 1.00 | 1 | 1.82 | 4 | | | |
| 92 | 3.3 | 4 | 1.10 | 2 | | | 1.25 | 3 | 1.77 | 4 | 1.71 | 4 | |
| 96 | 3.8 | 5 | 1.00 | 4 | 1.18 | 3 | 1.18 | 4 | 1.82 | 4 | 1.72 | 4 | |
| 102 | 3.0 | 5 | 1.20 | 0 | 1.18 | 3 | 1.18 | 4 | 1.76 | 4 | 1.70 | 4 | |
| 104 | 4.0 | 5 | 0.99 | 4 | 1.30 | 4 | 1.17 | 4 | 1.77 | 4 | 1.76 | 4 | |
| 105 | 3.4 | 5 | 0.95 | 3 | 1.21 | 4 | 1.19 | 4 | 1.69 | 2 | 1.71 | 4 | |
| 107 | 2.8 | 4 | 0.95 | 3 | | | 1.25 | 3 | 1.85 | 4 | 1.86 | 1 | |
| 108 | 1.8 | 4 | 1.06 | 3 | 1.15 | 3 | 1.03 | 1 | 1.42 | 0 | | | |
| 111 | 3.5 | 2 | 1.02 | 4 | | | 1.11 | 3 | | | | | |
| 113 | 2.8 | 4 | | | 1.33 | 3 | 0.97 | 0 | 1.75 | 4 | 1.72 | 4 | |
| 114 | 2.7 | 3 | 0.96 | 4 | | | 1.99 | 0 | 1.80 | 4 | | | |
| 118 | 3.6 | 5 | 0.94 | 3 | 1.36 | 3 | 1.15 | 4 | 1.78 | 4 | 1.72 | 4 | |
| 119 | 3.2 | 5 | 1.02 | 4 | 1.50 | 1 | 1.10 | 3 | 1.78 | 4 | 1.68 | 4 | |
| 126 | 4.0 | 1 | | | | | 1.21 | 4 | | | | | |
| 127 | 3.6 | 5 | 1.00 | 4 | 1.18 | 3 | 1.12 | 3 | 1.80 | 4 | 1.80 | 4 | |
| 129 | 3.8 | 5 | 0.95 | 3 | 1.24 | 4 | 1.15 | 4 | 1.75 | 4 | 1.71 | 4 | |
| 133 | 1.6 | 5 | 0.71 | 0 | 0.74 | 0 | 1.56 | 0 | 1.76 | 4 | 1.72 | 4 | |
| 134 | 4.0 | 5 | 0.98 | 4 | 1.30 | 4 | 1.17 | 4 | 1.86 | 4 | 1.78 | 4 | |
| 138 | 3.4 | 5 | 0.94 | 3 | 1.17 | 3 | 1.09 | 3 | 1.76 | 4 | 1.71 | 4 | |
| 140 | 2.6 | 5 | 0.94 | 3 | 1.46 | 2 | 0.81 | 0 | 1.78 | 4 | 1.74 | 4 | |

Table 9. Laboratory performance ratings for standard reference water sample N-54 (nutrient constituents)—continued

(MPV, most probable value; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/5, number of reported values of 5 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| | | Analyte = NH ₃ as N (Ammonia) | | | NH ₃ + Org N as N (Ammonia+Organic N) | | NO ₃ + NO ₂ as N (Nitrate + Nitrite) | | total P as P (total Phosphorus) | | PO ₄ as P (Orthophosphate as P) | |
|-----|-----|---|-----------|--------|---|--------|---|--------|------------------------------------|--------|---|--------|
| | | MPV = | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| Lab | OLR | 1.00 mg/L | 1.26 mg/L | | 1.26 mg/L | | 1.17 mg/L | | 1.78 mg/L | | 1.72 mg/L | |
| | | F-pseudosigma = | 0.08 | | 0.13 | | 0.09 | | 0.09 | | 0.09 | |
| | | V/5 | | | | | | | | | | |
| 141 | 2.4 | 5 | 0.94 | 3 | 1.12 | 2 | 1.12 | 3 | 1.70 | 4 | 1.92 | 0 |
| 142 | 4.0 | 5 | 1.01 | 4 | 1.30 | 4 | 1.17 | 4 | 1.82 | 4 | 1.72 | 4 |
| 143 | 3.4 | 5 | 0.94 | 3 | 1.28 | 4 | 1.20 | 4 | 1.65 | 2 | 1.76 | 4 |
| 145 | 3.6 | 5 | 1.03 | 4 | 1.31 | 4 | 1.08 | 2 | 1.71 | 4 | 1.72 | 4 |
| 146 | 2.4 | 5 | 0.91 | 2 | 1.14 | 3 | 1.32 | 1 | 1.75 | 4 | 1.82 | 2 |
| 154 | 3.0 | 5 | 1.01 | 4 | 1.02 | 1 | 1.30 | 2 | 1.81 | 4 | 1.72 | 4 |
| 158 | 2.8 | 5 | 0.99 | 4 | 1.43 | 2 | 7.26 | 0 | 1.79 | 4 | 1.74 | 4 |
| 180 | 3.6 | 5 | 0.96 | 4 | 1.23 | 4 | 1.15 | 4 | 1.67 | 2 | 1.71 | 4 |
| 183 | 1.3 | 3 | 1.20 | 0 | | | 0.62 | 0 | | | 1.78 | 4 |
| 185 | 1.8 | 4 | 1.00 | 4 | | | 1.08 | 2 | 1.92 | 1 | 1.49 | 0 |
| 190 | 3.8 | 5 | 1.02 | 4 | 1.35 | 3 | 1.17 | 4 | 1.73 | 4 | 1.68 | 4 |
| 191 | 4.0 | 2 | | | | | 1.15 | 4 | | | 1.73 | 4 |
| 193 | 3.0 | 1 | | | | | 1.23 | 3 | | | | |
| 196 | 2.0 | 2 | | | | | 1.73 | 0 | | | 1.69 | 4 |
| 203 | 2.5 | 4 | 1.06 | 3 | | | 1.17 | 4 | 1.88 | 2 | 1.86 | 1 |
| 209 | 0.0 | 2 | | | 0.57 | 0 | 1.88 | 0 | | | | |
| 212 | 2.6 | 5 | 1.10 | 2 | 1.20 | 4 | 1.10 | 3 | 1.80 | 4 | 2.00 | 0 |
| 213 | 4.0 | 2 | < 1 | NR | < 1 | NR | | | 1.73 | 4 | 1.64 | 4 |
| 215 | 3.0 | 5 | 0.94 | 3 | 0.96 | 0 | 1.18 | 4 | 1.77 | 4 | 1.75 | 4 |
| 219 | 0.0 | 1 | | | | | | | | | 0.94 | 0 |
| 220 | 3.3 | 3 | 0.94 | 3 | | | 1.23 | 3 | | | 1.80 | 4 |
| 221 | 2.6 | 5 | 0.66 | 3 | 1.62 | 0 | 1.30 | 2 | 1.83 | 4 | 1.74 | 4 |
| 224 | 2.6 | 5 | 1.05 | 3 | 2.13 | 0 | 1.16 | 4 | 1.76 | 4 | 1.85 | 2 |
| 234 | 2.7 | 3 | 1.07 | | | | 1.22 | 3 | 1.61 | 1 | 1.69 | 4 |
| 238 | 2.0 | 1 | | 2 | | | | | | | | |
| 241 | 3.3 | 4 | 1.09 | | 1.13 | 3 | 1.04 | 2 | 1.81 | 4 | 1.80 | 4 |
| 247 | 2.3 | 3 | | 3 | | | 0.97 | 0 | | | 1.72 | 4 |
| 252 | 2.4 | 5 | 1.07 | 4 | 1.25 | 4 | 3.64 | 0 | 1.97 | 0 | 1.67 | 4 |
| 255 | 4.0 | 3 | 1.00 | | | | 1.16 | 4 | 1.74 | 4 | 1.76 | 4 |
| 276 | 4.0 | 1 | | 4 | | | | | | | | |
| 282 | 1.8 | 5 | 1.01 | 0 | 1.80 | 0 | 1.21 | 4 | 1.92 | 1 | 1.72 | 4 |
| 284 | 0.8 | 5 | 0.70 | 4 | 1.73 | 0 | 2.31 | 0 | 2.12 | 0 | 1.51 | 0 |
| 285 | 3.0 | 4 | 1.01 | | 1.08 | 2 | 1.17 | 4 | 1.86 | 4 | 1.81 | 2 |
| 287 | 3.3 | 3 | | 4 | | | | | 1.91 | 2 | 1.70 | 4 |
| 289 | 3.8 | 5 | 0.96 | 4 | 1.26 | 4 | 1.10 | 3 | 1.78 | 4 | 1.76 | 4 |
| 290 | 2.7 | 3 | 1.02 | | 1.42 | 2 | 1.27 | 2 | 1.78 | 4 | | |
| 291 | 0.0 | 2 | | 0 | | | 3.20 | 0 | | | | |
| 292 | 3.8 | 4 | 1.17 | 4 | | | 1.09 | 3 | 1.76 | 4 | 1.71 | 4 |
| 294 | 4.0 | 3 | 1.00 | | | | 1.14 | 4 | 1.80 | 4 | 1.77 | 4 |

Table 10. Laboratory performance ratings for standard reference water sample P-28 (low ionic strength)

(MPV, most probable value; mg/L, milligrams per liter; µs/cm, microseimens per centimeter at 25 degrees celsius; Leb, laboratory number; OLR, overall laboratory rating for all reported values; V/12, number of reported values of 12 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Acidity as CaCO ₃ | | Ca (Calcium) | | Cl (Chloride) | | F (Fluoride) | | I (Iodine) | | K (Potassium) | | | | |
|--|-----|--------------|------|---------------|-------|--------------|------|-------------------|--------|---------------|-------|--------|---------|----|
| MPV = 2.5 mg/L | | 1.64 mg/L | | 3.30 mg/L | | 0.06 mg/L | | insufficient data | | 0.14 mg/L | | | | |
| F-pseudostigma = 1.1 | | 0.10 | | 0.26 | | 0.03 | | | | 0.04 | | | | |
| Lab | OLR | V/12 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | | |
| 1 | 4.0 | 9 | 2.0 | 4 | 1.68 | 4 | 3.33 | 4 | < 0.1 | NR | 0.021 | NR | 0.14 | 4 |
| 2 | 2.8 | 8 | | | 1.55 | 3 | 3.07 | 3 | | | | | 0.13 | 4 |
| 3 | 3.0 | 8 | < 10 | NR | 1.79 | 2 | 3.80 | 1 | < 0.1 | NR | | | 0.09 | 2 |
| 11 | 2.1 | 8 | | | 1.80 | 1 | 2.89 | 1 | | | | | 0.13 | 4 |
| 23 | 3.7 | 7 | | | < 2 | NR | 3.22 | 4 | 0.05 | 4 | | | < 0.2 | NR |
| 25 | 2.9 | 8 | < 8 | NR | 1.68 | 4 | 3.30 | 4 | 0.08 | 3 | | | < 1.2 | NR |
| 26 | 2.9 | 7 | | | 2.26 | 0 | 3.24 | 4 | | | | | < 0.2 | NR |
| 33 | 3.3 | 8 | | | 1.48 | 1 | 3.30 | 4 | | | | | 0.12 | 4 |
| 36 | 2.1 | 7 | | | 1.60 | 4 | 3.10 | 3 | | | | | | |
| 38 | 3.0 | 7 | 4.3 | 1 | 1.58 | 3 | | | | | | | 0.15 | 4 |
| 39 | 3.2 | 6 | 4.0 | 2 | | | 3.60 | 2 | 0.07 | 4 | | | | |
| 46 | 2.8 | 8 | | | 1.70 | 3 | 3.20 | 4 | 0.04 | 3 | | | | |
| 48 | 2.1 | 8 | | | 1.49 | 2 | 3.00 | 2 | 0.45 | 0 | | | 0.20 | 2 |
| 59 | 1.8 | 6 | | | 16.00 | 0 | 3.48 | 3 | < 0.2 | NR | | | | |
| 64 | 3.5 | 8 | | | 1.64 | 4 | 3.34 | 4 | | | | | 0.14 | 4 |
| 81 | 2.1 | 10 | 0.2 | 0 | 1.44 | 1 | 3.50 | 3 | 0.06 | 4 | | | 0.23 | 1 |
| 83 | 2.3 | 6 | | | 1.54 | 3 | | | 0.46 | 0 | | | 0.12 | 4 |
| 86 | 2.7 | 7 | | | 1.43 | 1 | 4.00 | 0 | | | | | | |
| 89 | 2.9 | 9 | 2.6 | 4 | 1.32 | 0 | 3.30 | 4 | < 0.1 | NR | | | 0.12 | 4 |
| 92 | 1.1 | 8 | 1.6 | 3 | 1.20 | 0 | 3.40 | 4 | | | | | 0.40 | 0 |
| 93 | 2.4 | 9 | | | 1.61 | 4 | 3.28 | 4 | 0.04 | 3 | | | 0.21 | 1 |
| 96 | 2.3 | 4 | | | | | 2.89 | 1 | | | | | | |
| 105 | 3.4 | 8 | 3.6 | 3 | 1.64 | 4 | 3.16 | 3 | < 0.2 | NR | | | < 0.5 | NR |
| 107 | 3.2 | 6 | | | | | 3.50 | 3 | 0.03 | 3 | | | 0.13 | 4 |
| 110 | 3.7 | 7 | | | 1.64 | 4 | 3.39 | 4 | 0.04 | 3 | | | | |
| 111 | 3.4 | 9 | 2.7 | 4 | 1.84 | 1 | 3.37 | 4 | | | | | 0.13 | 4 |
| 113 | 2.9 | 9 | | | 1.86 | 0 | 3.25 | 4 | 0.06 | 4 | | | 0.11 | 3 |
| 119 | 2.8 | 9 | | | 1.68 | 4 | 3.17 | 3 | 0.03 | 3 | | | 1.04 | 0 |
| 134 | 3.6 | 8 | | | 1.65 | 4 | 3.45 | 3 | < 0.1 | NR | | | 0.08 | 2 |
| 138 | 3.6 | 8 | | | 1.71 | 3 | 3.14 | 3 | < 0.10 | NR | | | 0.12 | 4 |
| 140 | 2.7 | 9 | | | 1.61 | 4 | 3.28 | 4 | 0.04 | 3 | | | 0.13 | 4 |
| 141 | 3.2 | 9 | 2.5 | 4 | 1.71 | 3 | 3.25 | 4 | 0.04 | 3 | | | < 0.2 | NR |
| 143 | 4.0 | 2 | | | | | 3.35 | 4 | | | | | | |
| 145 | 2.1 | 7 | | | 1.73 | 3 | 3.37 | 4 | < 0.2 | NR | | | 0.27 | 0 |
| 146 | 2.6 | 9 | 2.8 | 4 | 1.64 | 4 | 3.49 | 3 | 0.05 | 4 | | | < 1 | NR |
| 147 | 2.8 | 5 | | | 1.69 | 4 | 3.50 | 3 | < 0.05 | NR | | | | |
| 158 | 2.3 | 4 | | | | | 4.79 | 0 | | | | | | |
| 180 | 3.6 | 7 | | | 1.69 | 4 | 2.89 | 1 | < 0.05 | NR | | | < 0.422 | NR |
| 183 | 1.5 | 2 | | | | | 3.04 | 2 | | | | | | |
| 185 | 3.6 | 7 | | | 1.57 | 3 | | | | | | | 0.13 | 4 |
| 190 | 2.8 | 9 | | | 1.22 | 0 | 3.20 | 4 | 0.06 | 4 | | | 0.15 | 4 |
| 191 | 3.1 | 7 | | | 1.57 | 3 | 3.30 | 4 | 0.02 | 2 | | | 0.09 | 2 |
| 193 | 3.0 | 1 | | | | | | | | | | | | |
| 196 | 2.4 | 9 | | | 1.67 | 4 | 2.97 | 2 | 0.07 | 4 | | | 0.15 | 4 |
| 203 | 2.0 | 4 | | | | | 3.10 | 3 | | | | | | |
| 204 | 4.0 | 3 | | | | | | | | | | | | |
| 209 | 3.6 | 5 | | | 1.57 | 3 | 3.39 | 4 | | | | | | |
| 215 | 2.5 | 10 | 3.0 | 4 | 1.70 | 3 | 0.60 | 0 | 0.05 | 4 | | | 1.30 | 0 |
| 220 | 3.2 | 6 | | | 1.65 | 4 | 3.60 | 2 | | | | | 0.08 | 2 |
| 221 | 3.1 | 7 | | | 1.62 | 4 | 2.94 | 2 | | | | | 0.15 | 4 |
| 224 | 1.6 | 10 | 1.9 | 3 | 15.28 | 0 | 3.41 | 4 | 0.20 | 0 | | | 1.39 | 0 |
| 235 | 1.0 | 3 | | | 1.74 | 3 | | | | | | | | |
| 237 | 3.7 | 7 | 2.5 | 4 | 1.69 | 4 | | | | | | | 0.13 | 4 |
| 238 | 1.8 | 9 | 0.0 | 0 | 2.21 | 0 | 3.00 | 2 | | | | | 0.12 | 4 |
| 241 | 2.9 | 9 | | | 1.60 | 4 | 2.89 | 1 | 0.07 | 4 | | | 0.13 | 4 |
| 244 | 4.0 | 2 | | | | | | | | | | | | |
| 247 | 3.0 | 10 | 1.2 | 2 | 1.57 | 3 | 2.96 | 2 | 0.07 | 4 | | | 0.11 | 3 |
| 255 | 3.3 | 6 | | | 1.63 | 4 | 3.43 | 3 | < 0.2 | NR | | | < 0.313 | NR |
| 256 | 0.1 | 9 | 8.5 | 0 | 4.00 | 0 | 4.26 | 0 | 0.11 | 1 | | | 0.00 | NR |
| 257 | 2.7 | 6 | | | < 1.5 | NR | 3.90 | 0 | 0.08 | 3 | | | 0.15 | 4 |

Table 10. Laboratory performance ratings for standard reference water sample P-28 (low ionic strength)--continued

(MPV, most probable value; mg/L, milligrams per liter; μ s/cm, microseimens per centimeter at 25 degrees celsius; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/12, number of reported values of 12 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Acidity as CaCO ₃ | | Ca (Calcium) | | Cl (Chloride) | | F (Fluoride) | | I (Iodine) | | K (Potassium) | | |
|--|-----|--------------|-----|---------------|-------|--------------|-------|-------------------|-------|---------------|-------|--------|
| MPV = 2.5 mg/L | | 1.64 mg/L | | 3.30 mg/L | | 0.06 mg/L | | insufficient data | | 0.14 mg/L | | |
| F-pseudostigma = 1.1 | | 0.10 | | 0.26 | | 0.03 | | | | 0.04 | | |
| Lab | OLR | V/12 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 262 | 1.8 | 9 | | | 8.40 | 0 | 3.80 | 1 | 0.06 | 4 | 0.17 | 3 |
| 265 | 3.1 | 8 | | | 1.61 | 4 | 2.91 | 1 | 0.05 | 4 | 0.020 | NR |
| 268 | 3.4 | 8 | | | 1.55 | 3 | 3.41 | 4 | | | 0.18 | 3 |
| 273 | 2.5 | 10 | 1.6 | 3 | 1.56 | 3 | 3.28 | 4 | 0.71 | 0 | | |
| 274 | 1.4 | 9 | 0.9 | 2 | 22.10 | 0 | 29.29 | 0 | 0.00 | NR | 0.000 | NR |
| 282 | 3.4 | 7 | 3.3 | 3 | 1.57 | 3 | 3.18 | 4 | < 0.1 | NR | | < 1 |
| 284 | 2.1 | 7 | | | 1.60 | 4 | < 5 | NR | < 0.1 | NR | | |
| 287 | 2.3 | 8 | | | 1.54 | 3 | 6.56 | 0 | < 0.1 | NR | | |
| 289 | 3.4 | 9 | 2.5 | 4 | 1.64 | 4 | 3.30 | 4 | | | 0.19 | 2 |
| | | | | | | | | | | | 0.14 | 4 |

Table 10. Laboratory performance ratings for standard reference water sample P-28 (low ionic strength)--continued

(MPV, most probable value; mg/L, milligrams per liter; μ S/cm, microseimens per centimeter at 25 degrees celsius; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/12, number of reported values of 12 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = | Mg (Magnesium) | Na (Sodium) | pH | PO ₄ as P | SO ₄ (Sulfate) | Specific Conductance | | | | | | |
|-----------------|----------------|-------------|-------|----------------------|---------------------------|----------------------|---------|--------|-------|--------|-------|--------|
| MPV = | 0.883 mg/L | 3.25 mg/L | 6.75 | Insuff. data | 6.14 mg/L | 36.6 μ S/cm | | | | | | |
| F-pseudosigma = | 0.044 | 0.16 | 0.21 | | 0.25 | 1.4 | | | | | | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 0.868 | 4 | 3.30 | 4 | 6.82 | 4 | < 0.01 | NR | 6.28 | 4 | 36.8 | 4 |
| 2 | 1.047 | 0 | 3.40 | 3 | 6.43 | 3 | | | 5.95 | 3 | 35.6 | 3 |
| 3 | 0.880 | 4 | 3.40 | 3 | 6.79 | 4 | < 0.01 | NR | 6.00 | 4 | 36.0 | 4 |
| 11 | 0.973 | 1 | 3.04 | 2 | 6.72 | 4 | | | 7.02 | 0 | 36.1 | 4 |
| 23 | 0.830 | 2 | 3.22 | 4 | 6.76 | 4 | < 0.01 | NR | 6.24 | 4 | 36.0 | 4 |
| 25 | 0.910 | 3 | 3.40 | 3 | 7.10 | 2 | | | 6.90 | 0 | 37.0 | 4 |
| 26 | 1.070 | 0 | 3.30 | 4 | 6.70 | 4 | < 0.5 | NR | 6.23 | 4 | 36.1 | 4 |
| 33 | 0.820 | 2 | 3.22 | 4 | 6.72 | 4 | < 0.02 | NR | 6.12 | 4 | 38.3 | 3 |
| 36 | 0.800 | 1 | 3.45 | 2 | 7.10 | 2 | | | 5.38 | 0 | 35.0 | 3 |
| 38 | 0.665 | 4 | 3.06 | 2 | 6.90 | 4 | 0.000 | NR | | | 37.8 | 3 |
| 39 | | | | | 6.70 | 4 | 0.004 | NR | 5.85 | 3 | 36.0 | 4 |
| 46 | 0.890 | 4 | 3.21 | 4 | 8.93 | 0 | | | 6.00 | 4 | 53.6 | 0 |
| 48 | 0.940 | 2 | 3.18 | 4 | 6.20 | 1 | 0.031 | NR | | | 36.0 | 4 |
| 59 | 0.900 | 4 | 3.20 | 4 | 5.76 | 0 | 0.020 | NR | 6.97 | 0 | | |
| 64 | 0.870 | 4 | 3.26 | 4 | 6.86 | 4 | | | 6.13 | 4 | 32.9 | 0 |
| 81 | 0.796 | 1 | 3.19 | 4 | 6.99 | 3 | | | 7.88 | 0 | 37.4 | 4 |
| 83 | 0.837 | 2 | 2.99 | 1 | | | 0.016 | NR | 6.03 | 4 | | |
| 86 | 0.871 | 4 | 3.27 | 4 | 6.96 | 3 | | | 6.28 | 4 | 37.8 | 3 |
| 89 | 0.820 | 2 | 3.16 | 3 | 7.18 | 2 | < 0.002 | NR | 6.00 | 4 | 37.8 | 3 |
| 92 | 0.700 | 0 | 2.30 | 0 | 6.36 | 2 | < 0.005 | NR | 5.30 | 0 | | |
| 93 | 0.940 | 2 | 2.91 | 0 | 6.71 | 4 | | | 5.76 | 2 | 39.1 | 2 |
| 96 | | | | | 7.08 | 3 | < 0.01 | NR | 6.40 | 3 | 38.7 | 2 |
| 105 | 0.860 | 4 | 3.30 | 4 | 6.23 | 1 | < 0.002 | NR | 6.03 | 4 | 36.3 | 4 |
| 107 | 0.810 | 1 | | | 6.77 | 4 | < 0.002 | NR | | | 36.6 | 4 |
| 110 | 0.850 | 3 | 3.20 | 4 | 6.94 | 4 | | | 6.18 | 4 | | |
| 111 | 0.900 | 4 | 3.10 | 3 | 6.73 | 4 | | | 6.04 | 4 | 34.9 | 3 |
| 113 | 1.030 | 0 | 3.36 | 3 | 6.71 | 4 | < 0.004 | NR | 6.26 | 4 | 36.0 | 4 |
| 119 | 0.940 | 2 | 3.30 | 4 | 6.61 | 4 | 0.000 | NR | 5.65 | 1 | 37.0 | 4 |
| 134 | 0.868 | 4 | 3.19 | 4 | 6.81 | 4 | < 0.002 | NR | 6.23 | 4 | 36.8 | 4 |
| 138 | 0.900 | 4 | 3.18 | 4 | 7.11 | 3 | < 0.004 | NR | 6.26 | 4 | 36.9 | 4 |
| 140 | 0.844 | 3 | 3.35 | 3 | 7.53 | 0 | 0.020 | NR | 5.00 | 0 | 38.0 | 3 |
| 141 | 0.919 | 3 | 3.47 | 2 | 6.78 | 4 | < 0.05 | NR | 6.26 | 4 | 38.8 | 2 |
| 143 | | | | | 6.70 | 4 | 0.002 | NR | | | | |
| 145 | 0.970 | 1 | 3.21 | 4 | | | 0.010 | NR | 6.31 | 3 | < 1 | 0 |
| 146 | 0.868 | 4 | 3.03 | 2 | 7.21 | 2 | < 0.05 | NR | 5.18 | 0 | 40.4 | 0 |
| 147 | 0.910 | 3 | 3.80 | 0 | | | | | 6.16 | 4 | | |
| 158 | | | | | 6.44 | 3 | | | 6.13 | 4 | 34.1 | 2 |
| 180 | 0.880 | 4 | 3.32 | 4 | 6.70 | 4 | < 0.01 | NR | 6.25 | 4 | 37.0 | 4 |
| 183 | | | | | | | | | 5.60 | 1 | | |
| 165 | 0.863 | 4 | 3.39 | 3 | 6.80 | 4 | | | 6.28 | 4 | 35.3 | 3 |
| 190 | 0.600 | 1 | 3.24 | 4 | 6.60 | 4 | | | 6.00 | 4 | 40.3 | 0 |
| 191 | 0.910 | 3 | 3.28 | 4 | | | < 0.02 | NR | 6.17 | 4 | | |
| 193 | | | | | | | | | | | 35.5 | 3 |
| 196 | 0.870 | 4 | 3.55 | 1 | 7.15 | 2 | < 0.03 | NR | 6.62 | 1 | 865.0 | 0 |
| 203 | | | | | 6.51 | 3 | 0.005 | NR | 5.73 | 2 | 41.5 | 0 |
| 204 | | | | | 6.65 | 4 | < 0.002 | NR | 6.07 | 4 | 36.5 | 4 |
| 209 | 0.840 | 3 | | | 6.89 | 4 | | | 6.22 | 4 | | |
| 215 | 0.910 | 3 | 3.10 | 3 | 6.70 | 4 | < 0.01 | NR | 7.00 | 0 | 36.6 | 4 |
| 220 | 0.890 | 4 | 3.35 | 3 | | | | | 6.25 | 4 | | |
| 221 | 0.887 | 4 | 3.28 | 4 | 6.90 | 4 | | | 11.50 | 0 | | |
| 224 | 8.629 | 0 | 29.90 | 0 | 6.62 | 4 | 0.006 | NR | 6.53 | 2 | 37.5 | 3 |
| 235 | 0.976 | 0 | | | | | | | 7.22 | 0 | | |
| 237 | 0.900 | 4 | 3.39 | 3 | 6.85 | 4 | | | | | 35.3 | 3 |
| 236 | 0.880 | 4 | 3.26 | 4 | 5.87 | 0 | | | 5.81 | 2 | 32.0 | 0 |
| 241 | 0.900 | 4 | 3.20 | 4 | 6.26 | 2 | | | 5.90 | 3 | 30.0 | 0 |
| 244 | | | | | 6.78 | 4 | | | | | 35.8 | 4 |
| 247 | 0.697 | 4 | 3.25 | 4 | 6.86 | 4 | | | 5.33 | 0 | 36.3 | 4 |
| 255 | 0.879 | 4 | 3.17 | 3 | 7.00 | 3 | | | | | 35.1 | 3 |
| 256 | 0.400 | 0 | 2.76 | 0 | 8.15 | 0 | < 0.02 | NR | 9.60 | 0 | 44.9 | 0 |
| 257 | < 1.5 | NR | 2.98 | 1 | | | < 0.1 | NR | 6.10 | 4 | 36.3 | 4 |

Table 10. Laboratory performance ratings for standard reference water sample P-28 (low ionic strength)—continued

(MPV, most probable value; mg/L, milligrams per liter; μ S/cm, microseimens per centimeter at 25 degrees celsius; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/12, number of reported values of 12 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Mg (Magnesium) | | | Na (Sodium) | | pH | PO ₄ as P | | SO ₄ (Sulfate) | | Specific Conductance | | |
|--------------------------|------------|--------|-------------|--------|------|----------------------|-------|---------------------------|------|----------------------|------|--------|
| MPV = | 0.883 mg/L | | 3.25 mg/L | | 6.75 | Insuff. data | | 6.14 mg/L | | 36.6 μ S/cm | | |
| F-pseudostigma = | 0.044 | | 0.16 | | 0.21 | | | 0.25 | | 1.4 | | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 262 | 0.950 | 1 | 2.90 | 0 | 6.73 | 4 | | | 4.05 | 0 | 38.0 | 3 |
| 265 | 0.890 | 4 | 3.23 | 4 | 6.39 | 2 | | | 5.90 | 3 | | |
| 268 | 0.825 | 2 | 3.46 | 2 | 6.90 | 4 | | | 6.15 | 4 | 36.2 | 4 |
| 273 | 0.936 | 2 | 3.42 | 2 | 6.77 | 4 | 0.003 | NR | 6.14 | 4 | 37.4 | 3 |
| 274 | 6.090 | 0 | 15.48 | 0 | 6.70 | 4 | 0.033 | NR | 6.10 | 4 | 33.4 | 0 |
| 282 | < 1 | NR | 3.23 | 4 | 6.50 | 3 | < 0.1 | NR | 6.32 | 3 | 36.0 | 4 |
| 284 | 0.899 | 4 | 3.48 | 2 | 6.27 | 2 | < 0.1 | NR | 5.46 | 0 | 45.0 | 0 |
| 287 | 0.883 | 4 | 4.60 | 0 | 6.36 | 2 | < 0.1 | NR | 6.30 | 3 | 37.1 | 4 |
| 289 | 0.850 | 3 | 3.03 | 2 | 6.73 | 4 | | | 6.10 | 4 | 35.1 | 2 |

Table 11. Laboratory performance ratings for standard reference water sample GW-1 (ground-water constituents)

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Ag (Silver) | | | | Al (Aluminium) | As (Arsenic) | B (Boron) | Ba (Barium) | Be (Beryllium) | Ca (Calcium) | | | | | | | |
|-------------------------|-----|------|-------|----------------|--------------|-----------|-------------|----------------|--------------|--------|------|----|------|---|-----|---|
| MPV = insufficient data | | | | 538 | 1.0 | 349 | 17.7 | 6.00 | 357 | | | | | | | |
| F-pseudosigma = | | | | 67 | 0.7 | 76 | 2.3 | 1.17 | 23 | | | | | | | |
| Lab | OLR | V/28 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | | | | | | |
| 1 | 2.9 | 18 | <1 | NR | 514 | 4 | <1 | NR | 440 | 2 | 17.0 | 4 | 6.72 | 3 | 283 | 0 |
| 3 | 3.1 | 20 | 7.00 | NR | 510 | 4 | <5 | NR | 329 | 4 | 7.0 | 0 | 6.00 | 4 | 388 | 2 |
| 11 | 3.2 | 17 | | | 530 | 4 | | | 371 | 4 | 18.0 | 4 | | | 375 | 3 |
| 12 | 2.8 | 12 | <0.2 | NR | | | | | | | | | | | 460 | 0 |
| 13 | 3.1 | 15 | <10 | NR | 513 | 4 | <5 | NR | | | 17.9 | 4 | 2.20 | 0 | 389 | 2 |
| 16 | 2.8 | 19 | <1 | NR | 464 | 2 | 1.6 | 3 | 449 | 2 | 19.1 | 3 | 5.70 | 4 | 358 | 4 |
| 18 | 3.2 | 17 | <3 | NR | 497 | 3 | <1 | NR | 349 | 4 | 18.0 | 4 | 6.20 | 4 | 337 | 3 |
| 26 | 3.5 | 20 | <0.2 | NR | 550 | 4 | 0.5 | 3 | 299 | 3 | 18.7 | 4 | 5.28 | 3 | 352 | 4 |
| 30 | 2.3 | 15 | <1 | NR | 620 | 2 | 1.0 | 4 | | | 12.5 | 0 | 4.20 | 1 | 337 | 3 |
| 32 | 3.0 | 22 | <0.1 | NR | 565 | 4 | 0.9 | 4 | 310 | 3 | 17.6 | 4 | 6.60 | 3 | 355 | 4 |
| 34 | 2.5 | 2 | <0.2 | NR | 578 | 3 | 0.2 | 2 | | | | | | | | |
| 36 | 2.6 | 13 | | | | | | | | | | | 3.90 | 1 | 310 | 1 |
| 42 | 2.5 | 17 | <1 | NR | 582 | 3 | 1.3 | 4 | 348 | 4 | 18.0 | 4 | 4.70 | 2 | 397 | 1 |
| 43 | 3.1 | 8 | | | | | | | | | | | | | 357 | 4 |
| 46 | 2.8 | 16 | | | 538 | 4 | | | 356 | 4 | 3.0 | 0 | 5.51 | 4 | 349 | 4 |
| 48 | 2.2 | 19 | <0.6 | NR | 532 | 4 | 0.7 | 4 | 860 | 0 | 16.5 | 4 | 3.90 | 1 | 417 | 0 |
| 59 | 3.0 | 11 | <5 | NR | 500 | 3 | <2 | NR | | | 17.0 | 4 | 4.00 | 1 | 370 | 3 |
| 61 | 2.3 | 18 | <2 | NR | 619 | 2 | <4.5 | NR | 222 | 1 | 19.8 | 3 | 6.40 | 4 | 343 | 3 |
| 64 | 3.7 | 3 | | | | | | | | | | | | | 380 | 3 |
| 68 | 3.0 | 2 | | | | | | | | | | | | | 356 | 4 |
| 69 | 3.2 | 13 | <1 | NR | 508 | 4 | <5 | NR | | | <50 | NR | 6.95 | 3 | 356 | 4 |
| 76 | 4.0 | 2 | | | | | | | | | | | | | | |
| 80 | 0.0 | 1 | | | | | 6.3 | 0 | | | | | | | | |
| 81 | 2.3 | 18 | <1 | NR | 608 | 2 | <2 | NR | | | 13.0 | 1 | 4.00 | 1 | 336 | 3 |
| 83 | 2.3 | 15 | | | 479 | 3 | | | | | 16.3 | 3 | 5.20 | 3 | 325 | 2 |
| 86 | 2.9 | 18 | | | 579 | 3 | 0.4 | 3 | 312 | 4 | 17.4 | 4 | 7.20 | 2 | 376 | 3 |
| 89 | 3.0 | 16 | <2 | NR | 446 | 2 | <2 | NR | | | <50 | NR | 6.78 | 3 | 340 | 3 |
| 92 | 0.9 | 14 | | | | | | | | | | | | | 300 | 0 |
| 111 | 2.2 | 12 | | | 626 | 2 | <2 | NR | | | | | | | 379 | 3 |
| 113 | 1.9 | 14 | <0.5 | NR | 544 | 4 | <1.5 | NR | | | 14.8 | 2 | 5.85 | 4 | 402 | 1 |
| 119 | 2.4 | 19 | | | 447 | 2 | 1.6 | 3 | | | | | 5.33 | 3 | 369 | 3 |
| 126 | 0.8 | 8 | 0.30 | NR | | | | | | | | | | | | |
| 127 | 3.1 | 19 | <0.2 | NR | 539 | 4 | <2 | NR | 343 | 4 | 15.8 | 3 | 5.03 | 3 | 306 | 0 |
| 129 | 2.4 | 10 | | | | | | | 770 | 0 | | | | | 385 | 2 |
| 134 | 3.4 | 19 | <1 | NR | 794 | 0 | 1.1 | 4 | 346 | 4 | 18.0 | 4 | 6.45 | 4 | 363 | 4 |
| 138 | 3.7 | 19 | 0.09 | NR | 547 | 4 | <1 | NR | 350 | 4 | 15.8 | 3 | 6.44 | 4 | 360 | 4 |
| 140 | 2.7 | 15 | 20.00 | NR | | | | | | | 1516 | 0 | | | 372 | 3 |
| 141 | 3.4 | 17 | 39.10 | NR | 471 | 3 | <5 | NR | 497 | 1 | 17.0 | 4 | 7.00 | 3 | 349 | 4 |
| 142 | 2.9 | 20 | 2.51 | NR | 542 | 4 | 0.4 | 3 | 414 | 3 | 19.1 | 3 | 6.68 | 3 | 327 | 2 |
| 146 | 2.6 | 15 | <10 | NR | 518 | 4 | 23.1 | 0 | | | 16.2 | 3 | 7.18 | 2 | 320 | 1 |
| 147 | 2.5 | 19 | <0.2 | NR | 480 | 3 | 0.7 | 4 | 320 | 4 | 15.0 | 2 | 4.20 | 1 | 355 | 4 |
| 149 | 2.4 | 9 | <0.1 | NR | | | <1 | NR | | | | | 6.00 | 4 | 96 | 0 |
| 151 | 2.3 | 18 | 0.02 | NR | 643 | 1 | 0.8 | 4 | | | 19.4 | 3 | 8.00 | 1 | 42 | 0 |
| 154 | 1.4 | 15 | | | 117 | 0 | | | 337 | 4 | 11.0 | 0 | 7.20 | 2 | 326 | 2 |
| 158 | 2.4 | 14 | | | 638 | 2 | | | 342 | 4 | 43.1 | 0 | | | 362 | 4 |
| 180 | 3.1 | 19 | <3.22 | NR | 520 | 4 | 310.0 | 0 | 244 | 2 | 17.7 | 4 | 5.80 | 4 | 357 | 4 |
| 185 | 2.4 | 5 | | | | | | | | | | | | | 359 | 4 |
| 190 | 1.9 | 8 | 0.35 | NR | 616 | 2 | | | | | | | | | | |
| 191 | 3.5 | 17 | | | 535 | 4 | 1.4 | 3 | | | 20.4 | 2 | | | 349 | 4 |
| 196 | 3.4 | 18 | 0.09 | NR | 558 | 4 | 1.0 | 4 | | | 16.8 | 4 | 6.51 | 4 | 370 | 3 |
| 203 | 2.7 | 9 | <2 | NR | 691 | 0 | | | | | | | | | 382 | 2 |
| 204 | 0.0 | 1 | | | | | | | | | | | | | | |
| 212 | 3.2 | 20 | 0.14 | NR | 350 | 0 | 0.2 | 2 | 443 | 2 | 16.0 | 3 | 4.42 | 2 | 352 | 4 |
| 215 | 2.4 | 18 | <1 | NR | 847 | 0 | <5 | NR | 350 | 4 | 40.0 | 0 | 6.00 | 4 | 370 | 3 |
| 219 | 3.6 | 14 | | | 630 | 2 | | | | | 17.0 | 4 | 6.00 | 4 | 367 | 4 |
| 220 | 3.1 | 15 | | | | | | | | | 18.8 | 3 | 6.23 | 4 | 352 | 4 |
| 221 | 2.5 | 12 | 0.10 | NR | 634 | 2 | | | | | | | | | 147 | 0 |
| 224 | 1.6 | 14 | | | 220 | 0 | <12 | NR | | | 19.9 | 3 | 2.80 | 0 | 364 | 4 |
| 235 | 2.2 | 14 | <5 | NR | 521 | 4 | 2.3 | 1 | | | 20.9 | 2 | | | 303 | 0 |
| 241 | 3.1 | 18 | <1 | NR | 536 | 4 | 0.5 | 3 | | | 16.0 | 3 | 5.10 | 3 | 370 | 3 |

Table 11. Laboratory performance ratings for standard reference water sample GW-1 (ground-water constituents)--continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number, OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Ag (Silver) | | Al (Aluminium) | | As (Arsenic) | | B (Boron) | | Ba (Barium) | | Be (Beryllium) | | Ca (Calcium) | | | | |
|-------------------------|-----|----------------|-------|--------------|------|-----------|-------|-------------|------|----------------|-------|--------------|------|--------|-----|---|
| MPV = insufficient data | | 538 | µg/L | 1.0 | µg/L | 349 | µg/L | 17.7 | µg/L | 6.00 | µg/L | 357 | mg/L | | | |
| F-pseudosigma = | | 67 | | 0.7 | | 76 | | 2.3 | | 1.17 | | 23 | | | | |
| Lab | OLR | V/28 | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | | |
| 247 | 3.4 | 17 | < 1 | NR | 564 | 4 | < 5 | NR | 290 | 3 | 17.0 | 4 | 5.10 | 3 | 362 | 4 |
| 255 | 3.7 | 15 | 0.26 | NR | 549 | 4 | < 5.6 | NR | 368 | 4 | 18.4 | 4 | 6.19 | 4 | 347 | 4 |
| 256 | 1.2 | 13 | 13.00 | NR | | | 1.6 | 3 | | | <50 | NR | | | 360 | 4 |
| 257 | 1.6 | 13 | 1.89 | NR | 234 | 0 | <0.3 | NR | | | | | | | | |
| 259 | 3.5 | 14 | 2.30 | NR | 452 | 2 | | | 370 | 4 | 17.9 | 4 | | | | |
| 262 | 2.6 | 5 | | | | | | | | | | | | | 370 | 3 |
| 265 | 3.4 | 22 | 0.03 | NR | 600 | 3 | 1.0 | 4 | 330 | 4 | 18.2 | 4 | 7.30 | 2 | 363 | 4 |
| 268 | 1.5 | 6 | | | | | | | | | | | | | 399 | 1 |
| 270 | 0.0 | 4 | | | | | | | | | 520.0 | 0 | | | 452 | 0 |
| 272 | 0.0 | 4 | | | | | | | | | | | | | 0 | 0 |
| 273 | 2.0 | 16 | 36.50 | NR | 429 | 1 | | | 245 | 2 | 46.7 | 0 | | | 355 | 4 |
| 274 | 0.7 | 12 | | | | | | | | | | | | | 29 | 0 |
| 282 | 2.7 | 17 | < 10 | NR | 566 | 4 | < 5 | NR | 604 | 0 | 16.0 | 3 | 6.20 | 4 | 342 | 3 |
| 284 | 2.1 | 20 | 3.00 | NR | 452 | 2 | 1.0 | 4 | | | 72.0 | 0 | 9.00 | 0 | 402 | 1 |
| 287 | 2.1 | 11 | | | 595 | 3 | | | | | | | | | 355 | 4 |
| 289 | 2.2 | 20 | < 0.5 | NR | 530 | 4 | 8.0 | 0 | 500 | 1 | 12.0 | 0 | 7.00 | 3 | 350 | 4 |
| 290 | 1.0 | 1 | | | | | | | | | | | | | | |
| 292 | 3.7 | 9 | | | | | | | | | | | | | 356 | 4 |

Table 11. Laboratory performance ratings for standard reference water sample GW-1 (ground-water constituents)—continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Cd (Cadmium) | | Cl (Chloride) | | Co (Cobalt) | | Cr (Chromium) | | Cu (Copper) | | Fe (Iron) | | K (Potassium) | | |
|-------------------------|-------|---------------|-------|-------------|------|---------------|-------|-------------|------|-----------|-------|---------------|-------|--------|
| MPV = insufficient data | | 50.3 | mg/L | 0.20 | µg/L | 38.3 | µg/L | 25.0 | µg/L | 341 | mg/L | 79.0 | mg/L | |
| F-pseudosigma = | | 9.7 | | 0.01 | | 5.9 | | 7.6 | | 26 | | 4.5 | | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | <1 | NR | | | 0.20 | 4 | 36.4 | 4 | 21.3 | 4 | 323 | 3 | 78.3 | 4 |
| 3 | <0.5 | NR | 50.5 | 4 | 0.20 | 4 | 47.0 | 2 | 26.0 | 4 | 366 | 3 | 80.1 | 4 |
| 11 | | | 37.8 | 2 | | | 42.0 | 3 | 28.0 | 4 | 335 | 4 | 79.0 | 4 |
| 12 | <0.1 | NR | 46.0 | 4 | | | 60.0 | 0 | 20.0 | 3 | 331 | 4 | 79.0 | 4 |
| 13 | 18.00 | NR | | | 0.18 | 3 | 26.9 | 1 | 29.5 | 3 | 341 | 4 | 79.9 | 4 |
| 16 | 0.40 | NR | | | 0.19 | 4 | 37.0 | 4 | 22.6 | 4 | 315 | 3 | 72.0 | 1 |
| 18 | <3 | NR | | | 0.19 | 3 | 34.0 | 3 | 25.0 | 4 | 326 | 3 | 79.0 | 4 |
| 26 | <0.2 | NR | 44.8 | 3 | 0.19 | 4 | 33.7 | 3 | 23.2 | 4 | 351 | 4 | 82.9 | 3 |
| 30 | <1 | NR | | | 0.20 | 4 | 85.0 | 0 | 24.0 | 4 | 330 | 4 | 74.0 | 2 |
| 32 | <0.1 | NR | 52.4 | 4 | 0.17 | 1 | 39.0 | 4 | 31.7 | 3 | 390 | 1 | 80.3 | 4 |
| 34 | 0.06 | NR | | | | | | | | | | | | |
| 36 | | | 49.7 | 4 | | | 35.0 | 3 | 20.1 | 3 | 355 | 3 | 84.0 | 2 |
| 42 | <2 | NR | | | | | 32.3 | 2 | 9.8 | 1 | 385 | 1 | 84.2 | 2 |
| 43 | | | 53.4 | 4 | | | | | | | 34 | 0 | 81.6 | 3 |
| 46 | | | | | 0.17 | 1 | 33.7 | 3 | 20.4 | 3 | 332 | 4 | 74.9 | 3 |
| 48 | 0.10 | NR | 44.0 | 3 | 0.18 | 2 | 40.7 | 4 | 25.8 | 4 | <0.03 | 0 | 75.4 | 3 |
| 59 | <2 | NR | | | | | 38.0 | 4 | 23.0 | 4 | 310 | 2 | | |
| 61 | <0.5 | NR | 48.4 | 4 | 0.20 | 4 | 31.8 | 2 | 26.2 | 4 | 406 | 0 | 103.0 | 0 |
| 64 | | | | | | | | | | | | | 83.2 | 3 |
| 68 | | | | | | | | | | | | | | |
| 69 | <1 | NR | | | | | 34.2 | 3 | 20.2 | 3 | 324 | 3 | 80.3 | 4 |
| 76 | | | | | | | | | | | | | | |
| 80 | | | | | | | | | | | | | | |
| 81 | <2 | NR | 7.0 | 0 | 0.20 | 4 | 52.0 | 0 | 23.0 | 4 | 357 | 3 | 83.8 | 2 |
| 83 | <5 | NR | | | | | 40.1 | 4 | <3 | 0 | 287 | 0 | 84.5 | 2 |
| 86 | 36.20 | NR | 99.0 | 0 | 0.22 | 0 | 33.2 | 3 | 50.1 | 0 | 349 | 4 | 78.8 | 4 |
| 89 | <1 | NR | 150.0 | 0 | 0.19 | 4 | 39.8 | 4 | 39.6 | 1 | 328 | 4 | 75.0 | 3 |
| 92 | 8.50 | NR | 59.6 | 3 | 0.10 | 0 | 24.0 | 0 | 37.0 | 1 | 151 | 0 | 73.0 | 2 |
| 111 | <0.5 | NR | | | | | 52.0 | 0 | 30.3 | 3 | 336 | 4 | 83.0 | 3 |
| 113 | 46.40 | NR | | | | | 39.9 | 4 | <1.2 | 0 | 371 | 2 | 68.2 | 0 |
| 119 | 0.06 | NR | 44.0 | 3 | 0.19 | 4 | 38.7 | 4 | 50.0 | 0 | 375 | 2 | 82.0 | 3 |
| 126 | <1 | NR | | | | | 51.0 | 0 | 57.0 | 0 | 455 | 0 | | |
| 127 | <3 | NR | | | 0.20 | 4 | 37.5 | 4 | 23.5 | 4 | 342 | 4 | 82.0 | 3 |
| 129 | | | 34.0 | 1 | | | | | | | 346 | 4 | 73.0 | 2 |
| 134 | <1 | NR | | | 0.20 | 4 | 39.0 | 4 | 22.6 | 4 | 349 | 4 | 76.8 | 4 |
| 138 | 0.04 | NR | | | 0.20 | 4 | 33.9 | 3 | 21.4 | 4 | 348 | 4 | 78.4 | 4 |
| 140 | 0.03 | NR | 52.0 | 4 | | | 160.0 | 0 | 40.0 | 1 | 314 | 2 | 79.5 | 4 |
| 141 | <0.5 | NR | 46.6 | 4 | 0.20 | 4 | 49.7 | 1 | 26.7 | 4 | 338 | 4 | 82.3 | 3 |
| 142 | <2 | NR | | | 0.22 | 1 | 40.5 | 4 | 24.4 | 4 | 366 | 3 | 77.1 | 4 |
| 146 | 7.33 | NR | | | 0.19 | 4 | 30.9 | 2 | 25.9 | 4 | 367 | 3 | 91.0 | 0 |
| 147 | 0.04 | NR | | | 0.17 | 0 | 34.0 | 3 | 25.0 | 4 | 390 | 1 | | |
| 149 | | | | | | | | | 41.0 | 0 | 326 | 3 | 79.4 | 4 |
| 151 | <0.04 | NR | | | | | 38.1 | 4 | 23.3 | 4 | 334 | 4 | 3.4 | 0 |
| 154 | | | | | | | 40.2 | 4 | 19.8 | 3 | 305 | 2 | 597.0 | 0 |
| 158 | | | 50.0 | 4 | | | 24.3 | 0 | 45.1 | 0 | 318 | 3 | 60.2 | 0 |
| 180 | <4.11 | NR | 57.9 | 3 | 0.21 | 3 | 24.5 | 0 | 28.7 | 4 | 346 | 4 | 78.7 | 4 |
| 185 | | | | | | | | | | | | | 73.7 | 2 |
| 190 | 16.00 | NR | | | | | 35.3 | 3 | 20.6 | 3 | 351 | 4 | | |
| 191 | 1.06 | NR | | | 0.21 | 3 | 40.5 | 4 | 24.9 | 4 | 348 | 4 | 83.1 | 3 |
| 196 | 0.22 | NR | | | 0.20 | 3 | 40.6 | 4 | 27.0 | 4 | | | 79.9 | 4 |
| 203 | <0.5 | NR | | | | | | | 33.5 | 2 | 348 | 4 | 81.5 | 3 |
| 204 | | | | | | | | | | | | | | |
| 212 | <0.1 | NR | | | 0.19 | 4 | 37.7 | 4 | 26.8 | 4 | 333 | 4 | 77.7 | 4 |
| 215 | <1 | NR | 133.0 | 0 | 0.21 | 2 | 26.0 | 0 | 59.0 | 0 | 350 | 4 | 81.0 | 4 |
| 219 | | | | | 0.20 | 4 | | | | | 337 | 4 | 81.0 | 4 |
| 220 | 16.50 | NR | 45.2 | 3 | 0.19 | 4 | | | 37.0 | 1 | 302 | 2 | 75.9 | 3 |
| 221 | 0.07 | NR | | | | | 41.0 | 4 | 22.6 | 4 | 311 | 2 | 77.5 | 4 |
| 224 | 7.70 | NR | | | 0.16 | 0 | | | <6 | 0 | 401 | 0 | 76.0 | 3 |
| 235 | 0.06 | NR | | | 0.19 | 3 | 38.3 | 4 | <10 | NR | 300 | 1 | | |
| 241 | 0.30 | NR | 68.5 | 1 | | | 38.4 | 4 | 17.9 | 3 | 344 | 4 | 77.0 | 4 |

Table 11. Laboratory performance ratings for standard reference water sample GW-1 (ground-water constituents)--continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| Rating | | Absolute Z-value | | Rating | | Absolute Z-value | | | | | | | | |
|-------------------------|--------|------------------|---------------|------------------|-------------|-------------------|---------------|--------|-------------|--------|-----------|--------|---------------|--------|
| 4 (Excellent) | | 0.00 - 0.50 | | 1 (Questionable) | | 1.51 - 2.00 | | | | | | | | |
| 3 (Good) | | 0.51 - 1.00 | | 0 (Poor) | | greater than 2.00 | | | | | | | | |
| 2 (Satisfactory) | | 1.01 - 1.50 | | NR (Not Rated) | | | | | | | | | | |
| Analyte = Cd (Cadmium) | | | Cl (Chloride) | | Co (Cobalt) | | Cr (Chromium) | | Cu (Copper) | | Fe (Iron) | | K (Potassium) | |
| MPV = insufficient data | | | 50.3 | mg/L | 0.20 | µg/L | 38.3 | µg/L | 25.0 | µg/L | 341 | mg/L | 79.0 | mg/L |
| F-pseudosigma = | | | 9.7 | | 0.01 | | 5.9 | | 7.6 | | 26 | | 4.5 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 247 | < 1 | NR | 53.3 | 4 | 0.19 | 3 | 37.2 | 4 | 21.1 | 3 | | | 79.0 | 4 |
| 255 | < 0.28 | NR | | | 0.18 | 3 | 31.2 | 2 | 22.4 | 4 | 318 | 3 | 79.0 | 4 |
| 256 | < 1 | NR | | | 0.36 | 0 | 68.0 | 0 | 34.0 | 2 | 248 | 0 | 58.7 | 0 |
| 257 | 4.00 | NR | 40.0 | 2 | 31.90 | 0 | 61.8 | 0 | 18.0 | 3 | 162 | 0 | 70.8 | 1 |
| 259 | 18.30 | NR | | | 0.20 | 4 | 47.8 | 1 | 27.0 | 4 | 351 | 4 | 80.4 | 4 |
| 262 | 56.80 | NR | | | | | | | | | | | 83.0 | 3 |
| 265 | 0.85 | NR | 55.0 | 4 | 0.21 | 3 | 43.0 | 3 | 21.0 | 3 | 350 | 4 | 79.1 | 4 |
| 268 | | | 131.7 | 0 | | | | | | | | | 91.7 | 0 |
| 270 | | | | | | | | | | | | | 94.9 | 0 |
| 272 | | | | | | | | | | | | | 60.0 | 0 |
| 273 | | | | | 2.11 | 0 | 34.4 | 3 | 57.2 | 0 | 357 | 3 | 78.3 | 4 |
| 274 | 23.49 | NR | 34.2 | 1 | | | | | 29.0 | 3 | 1 | 0 | 101.2 | 0 |
| 282 | < 1 | NR | 64.4 | 2 | 0.19 | 4 | 34.6 | 3 | < 10 | NR | 311 | 2 | 76.5 | 3 |
| 284 | < 1 | NR | 46.6 | 4 | 0.21 | 3 | 26.0 | 0 | 13.0 | 1 | 377 | 2 | 79.8 | 4 |
| 287 | < 1 | NR | | | | | 51.0 | 0 | 40.0 | 1 | 360 | 3 | 43.5 | 0 |
| 289 | 0.10 | NR | | | 0.18 | 2 | 71.0 | 0 | 20.9 | 3 | 360 | 3 | 74.0 | 2 |
| 290 | | | | | | | | | | | | | | |
| 292 | | | 52.3 | 4 | | | | | | | 337 | 4 | 77.7 | 4 |

Table 11. Laboratory performance ratings for standard reference water sample GW-1 (ground-water constituents)--continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Li (Lithium) | | | Mg (Magnesium) | | Mn (Manganese) | | Mo (Molybdenum) | | Na (Sodium) | | Ni (Nickel) | | Pb (Lead) | |
|------------------------|-----|--------|----------------|--------|----------------|--------|-------------------|--------|-------------|--------|-------------|--------|-----------|--------|
| MPV = | RV | µg/L | RV | mg/L | RV | µg/L | insufficient data | | RV | mg/L | RV | µg/L | RV | µg/L |
| F-pseudostigma = | 33 | | 10 | | 1.1 | | | | 0.9 | | 30 | | 0.52 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | 294 | 0 | 188 | 2 | 19.2 | 4 | < 1 | NR | 11.2 | 2 | 434 | 4 | < 1 | NR |
| 3 | 244 | 3 | 199 | 4 | 20.4 | 3 | < 5 | NR | 13.2 | 3 | 427 | 4 | < 3 | NR |
| 11 | 210 | 4 | 213 | 2 | 19.8 | 4 | | | 11.2 | 2 | 43 | 0 | | |
| 12 | | | 144 | 0 | 18.7 | 3 | < 30 | NR | 12.0 | 4 | 420 | 4 | < 10 | NR |
| 13 | | | 201 | 4 | 20.4 | 3 | | | 12.4 | 4 | 402 | 3 | < 5 | NR |
| 16 | 218 | 4 | 200 | 4 | 18.5 | 2 | 1.00 | NR | 10.0 | 0 | 416 | 4 | 1.50 | 3 |
| 18 | | | 193 | 3 | 18.4 | 2 | < 20 | NR | 12.0 | 4 | 411 | 3 | 1.80 | 2 |
| 26 | 236 | 4 | 201 | 4 | 19.7 | 4 | < 4 | NR | 12.0 | 4 | 421 | 4 | < 1 | NR |
| 30 | | | 203 | 4 | 260.0 | 0 | 2.20 | NR | | | 483 | 1 | 1.00 | 4 |
| 32 | 236 | 4 | 225 | 0 | 22.7 | 0 | 0.50 | NR | 12.4 | 4 | 436 | 4 | 1.30 | 4 |
| 34 | | | | | | | | | | | | | < 1 | NR |
| 36 | | | 202 | 4 | 20.5 | 3 | | | 12.5 | 4 | 450 | 3 | | |
| 42 | | | 230 | 0 | 20.1 | 4 | < 10 | NR | 12.9 | 3 | 407 | 3 | < 2 | NR |
| 43 | | | 197 | 4 | 19.7 | 4 | | | 11.3 | 2 | | | | |
| 46 | | | 194 | 3 | 19.5 | 4 | | | 11.4 | 3 | 385 | 2 | 2.00 | 1 |
| 48 | | | 232 | 0 | 23.8 | 0 | 0.60 | NR | 18.3 | 0 | 444 | 3 | 1.40 | 4 |
| 59 | | | 205 | 4 | 20.0 | 4 | | | 12.0 | 4 | 500 | 0 | < 2 | NR |
| 61 | | | 207 | 3 | 19.4 | 4 | < 17.2 | NR | 14.6 | 0 | 440 | 4 | < 1.6 | NR |
| 64 | | | | | | | | | 11.9 | 4 | | | | |
| 68 | | | 210 | 3 | | | | | | | | | | |
| 69 | 218 | 4 | 198 | 4 | 18.8 | 3 | | | 12.7 | 4 | 546 | 0 | < 5 | NR |
| 76 | | | 205 | 4 | | | | | 12.4 | 4 | | | | |
| 80 | | | | | | | | | | | | | | |
| 81 | | | 198 | 4 | 18.8 | 3 | < 5 | NR | 12.4 | 4 | 537 | 0 | < 2 | NR |
| 83 | | | 177 | 0 | 18.0 | 2 | | | 11.1 | 2 | 396 | 2 | | |
| 86 | | | 200 | 4 | 18.7 | 3 | 124.00 | NR | 12.0 | 4 | 436 | 4 | | |
| 89 | | | 147 | 0 | 19.4 | 4 | | | 12.4 | 4 | 441 | 4 | < 5 | NR |
| 92 | | | 190 | 3 | 0.0 | 0 | | | 9.0 | 0 | 300 | 0 | 40.00 | 0 |
| 111 | | | 206 | 3 | 20.7 | 3 | | | 14.0 | 1 | 513 | 0 | < 2 | NR |
| 113 | | | 228 | 0 | 21.1 | 2 | | | 11.1 | 2 | 383 | 2 | < 0.8 | NR |
| 119 | | | 203 | 4 | 20.6 | 3 | | | 12.0 | 4 | 474 | 1 | 15.20 | 0 |
| 126 | | | | | 21.3 | 2 | | | 9.4 | 0 | 650 | 0 | 0.80 | 3 |
| 127 | 199 | 3 | 202 | 4 | 171.0 | 0 | < 2 | NR | 10.1 | 0 | 446 | 3 | 1.13 | 4 |
| 129 | | | 200 | 4 | 2.2 | 0 | | | 12.5 | 4 | | | | |
| 134 | 195 | 3 | 193 | 3 | 20.3 | 3 | 2.88 | NR | 12.7 | 4 | 445 | 3 | < 1 | NR |
| 138 | | | 199 | 4 | 19.5 | 4 | < 0.2 | NR | 12.0 | 4 | 438 | 4 | 1.30 | 4 |
| 140 | | | 196 | 4 | 20.5 | 3 | | | 13.6 | 2 | 420 | 4 | 0.25 | 1 |
| 141 | | | 197 | 4 | 19.4 | 4 | < 10 | NR | 12.1 | 4 | 409 | 3 | < 5 | NR |
| 142 | 213 | 4 | 196 | 4 | 20.5 | 3 | 0.59 | NR | 9.2 | 0 | 454 | 3 | 0.66 | 2 |
| 146 | | | 201 | 4 | 19.9 | 4 | < 10 | NR | 14.5 | 0 | 430 | 4 | < 5 | NR |
| 147 | 220 | 4 | 198 | 4 | 17.0 | 0 | 0.97 | NR | 13.0 | 3 | 310 | 0 | 0.98 | 4 |
| 149 | | | 189 | 2 | 19.4 | 4 | < 2 | NR | 11.0 | 2 | | | < 2 | NR |
| 151 | 257 | 3 | 8 | 0 | 18.4 | 2 | 0.53 | NR | 52.6 | 0 | 414 | 4 | 1.34 | 4 |
| 154 | | | 188 | 2 | 16.9 | 0 | | | 17.9 | 0 | 349 | 0 | | |
| 158 | | | 205 | 4 | 20.0 | 4 | | | | | 443 | 3 | | |
| 180 | | | 197 | 4 | 19.9 | 4 | < 5.11 | NR | 11.8 | 3 | 418 | 4 | 98.80 | 0 |
| 185 | | | 190 | 2 | | | | | 12.2 | 4 | | | | |
| 190 | | | | | 25.3 | 0 | | | | | 561 | 0 | 0.00 | NR |
| 191 | | | 196 | 4 | 20.0 | 4 | | | 12.3 | 4 | 453 | 3 | 1.41 | 4 |
| 196 | 239 | 4 | 186 | 2 | 20.0 | 4 | 0.54 | NR | 12.6 | 4 | 471 | 2 | 1.01 | 4 |
| 203 | | | 209 | 3 | 20.5 | 3 | | | 12.0 | 4 | | | < 2 | NR |
| 204 | | | | | | | | | | | | | | |
| 212 | 212 | 4 | 202 | 4 | 18.8 | 3 | < 0.1 | NR | 11.0 | 2 | 414 | 4 | 1.21 | 4 |
| 215 | | | 204 | 4 | 19.1 | 4 | 4.00 | NR | 12.2 | 4 | 425 | 4 | < 3 | NR |
| 219 | 230 | 4 | 200 | 4 | 19.7 | 4 | | | 14.0 | 1 | 420 | 4 | | |
| 220 | 203 | 3 | 202 | 4 | 17.8 | 1 | | | 13.0 | 3 | 457 | 3 | | |
| 221 | | | | | 18.7 | 3 | 1.00 | NR | 12.3 | 4 | 13 | 0 | 0.48 | 2 |
| 224 | | | 204 | 4 | 19.5 | 4 | < 5 | NR | 12.4 | 4 | 0 | 0 | 27.40 | 0 |
| 235 | | | 187 | 2 | 19.7 | 4 | 3.38 | NR | | | 394 | 2 | 1.43 | 4 |
| 241 | | | 200 | 4 | 18.8 | 3 | < 5 | NR | 16.0 | 0 | 428 | 4 | 0.30 | 1 |

Table 11. Laboratory performance ratings for standard reference water sample GW-1 (ground-water constituents)--continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Li (Lithium) | | Mg (Magnesium) | | Mn (Manganese) | | Mo (Molybdenum) | | Na (Sodium) | | Ni (Nickel) | | Pb (Lead) | | |
|------------------------|------|----------------|-----|----------------|------|-----------------|-------------------|-------------|------|-------------|------|-----------|--------|--------|
| MPV = | 225 | µg/L | 200 | mg/L | 19.7 | µg/L | insufficient data | 12.3 | mg/L | 428 | µg/L | 1.21 | µg/L | |
| F-pseudostigma = | 33 | | 7 | | 1.1 | | | 0.9 | | 30 | | 0.52 | | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 247 | 184 | 2 | 199 | 4 | | | < 1 | NR | 12.0 | 4 | 434 | 4 | < 5 | NR |
| 255 | | | 199 | 4 | 19.2 | 4 | < 5.1 | NR | 12.0 | 4 | 414 | 4 | < 2.35 | NR |
| 256 | 1460 | 0 | 270 | 0 | 19.3 | 4 | | | 16.3 | 0 | 29 | 0 | < 5 | NR |
| 257 | 220 | 4 | | | 0.0 | 0 | < 20 | NR | 12.8 | 3 | 409 | 3 | 0.74 | 3 |
| 259 | | | | | 19.5 | 4 | | | 11.8 | 3 | 450 | 3 | | |
| 262 | | | 186 | 2 | | | | | 13.5 | 2 | | | | |
| 265 | 322 | 0 | 202 | 4 | 19.2 | 4 | 1.00 | NR | 12.3 | 4 | 410 | 3 | 1.20 | 4 |
| 268 | | | 202 | 4 | | | | | 14.9 | 0 | | | | |
| 270 | | | | | | | | | 23.6 | 0 | | | | |
| 272 | | | 0 | 0 | | | | | 50.0 | 0 | | | | |
| 273 | 370 | 0 | 202 | 4 | 20.1 | 4 | | | 11.6 | 3 | 185 | 0 | | |
| 274 | | | 19 | 0 | 0.2 | 0 | | | 20.8 | 0 | | | 7.20 | 0 |
| 282 | | | 193 | 3 | 18.4 | 2 | < 50 | NR | 12.3 | 4 | 410 | 3 | < 5 | NR |
| 284 | | | 222 | 0 | 19.9 | 4 | 26.00 | NR | 13.2 | 3 | 430 | 4 | 1.00 | 4 |
| 287 | | | 201 | 4 | 19.7 | 4 | | | 14.7 | 0 | 547 | 0 | < 1 | NR |
| 289 | 400 | 0 | 195 | 4 | 19.9 | 4 | 4.90 | NR | 12.5 | 4 | 486 | 1 | 0.54 | 2 |
| 290 | | | | | | | | | | | | | | |
| 292 | | | 193 | 3 | 20.6 | 3 | | | 11.9 | 4 | | | | |

Table 11. Laboratory performance ratings for standard reference water sample GW-1 (ground-water constituents)--continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = | Sb (Antimony) | | Se (Selenium) | | SiO ₂ (Silica) | | SO ₄ (Sulfate) | | Sr (Strontium) | | V (Vanadium) | | Zn (Zinc) | |
|-----------------|-------------------|--------|-------------------|--------|---------------------------|--------|---------------------------|--------|----------------|--------|-------------------|--------|-----------|--------|
| MPV = | insufficient data | | insufficient data | | 11.1 | mg/L | 2345 | mg/L | 2.97 | µg/L | insufficient data | | 568 | µg/L |
| F-pseudosigma = | | | | | 1.8 | | 326 | | 0.13 | | | | 42 | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 1 | < 1 | NR | < 1 | NR | 11.4 | 4 | | | 2.96 | 4 | < 30 | NR | 499 | 1 |
| 3 | 10.00 | NR | < 10 | NR | 12.2 | 3 | 2430 | 4 | 3.27 | 0 | < 5 | NR | 589 | 3 |
| 11 | | | | | 11.6 | 4 | | | 2.94 | 4 | | | 539 | 3 |
| 12 | | | | | | | 2400 | 4 | | | | | 580 | 4 |
| 13 | < 5 | NR | < 100 | NR | 12.5 | 3 | | | | | < 50 | NR | 586 | 4 |
| 16 | < 1 | NR | 8.20 | NR | | | | | 2.78 | 2 | 3.3 | NR | 492 | 1 |
| 18 | < 1 | NR | < 2 | NR | | | | | 2.90 | 3 | < 5 | NR | 530 | 3 |
| 26 | | | < 0.8 | NR | 10.5 | 4 | 106 | 0 | | | 77.0 | NR | 565 | 4 |
| 30 | < 5 | NR | < 2 | NR | | | | | | | < 10 | NR | 632 | 1 |
| 32 | < 0.1 | NR | < 6 | NR | 11.8 | 4 | 2330 | 4 | 3.30 | 0 | < 0.5 | NR | 543 | 3 |
| 34 | | | < 1 | NR | | | | | | | | | | |
| 36 | | | | | | | 2550 | 3 | | | | | 57 | 0 |
| 42 | < 2 | NR | 1.50 | NR | 13.3 | 2 | | | 2.97 | 4 | < 5 | NR | 606 | 3 |
| 43 | | | | | 11.2 | 4 | | | | | | | | |
| 46 | | | | | | | | | | | 8.4 | NR | 506 | 2 |
| 48 | < 0.2 | NR | 1.50 | NR | | | 2771 | 2 | | | < 4 | NR | 545 | 3 |
| 59 | < 2 | NR | < 2 | NR | | | | | | | | | | |
| 61 | 14.50 | NR | < 2.5 | NR | 5.7 | 0 | 89 | 0 | | | 9.7 | NR | 586 | 4 |
| 64 | | | | | 10.8 | 4 | | | | | | | | |
| 68 | | | | | | | | | | | | | | |
| 69 | < 5 | NR | < 5 | NR | | | | | | | | | 591 | 3 |
| 76 | | | | | | | | | | | | | | |
| 80 | | | < 2 | NR | | | | | | | | | | |
| 81 | < 2 | NR | < 2 | NR | 9.3 | 3 | 206 | 0 | 2.89 | 3 | < 3 | NR | 568 | 4 |
| 83 | | | | | 10.8 | 4 | 2110 | 3 | | | | | 558 | 4 |
| 86 | | | | | | | | | 2.87 | 3 | 77.8 | NR | 579 | 4 |
| 89 | < 10 | NR | < 2 | NR | 11.0 | 4 | 2300 | 4 | | | 24.8 | NR | 573 | 4 |
| 92 | | | | | | | 2064 | 3 | | | | | 54 | 0 |
| 111 | | | < 0.5 | NR | 9.3 | 2 | 2810 | 2 | | | < 5 | NR | | |
| 113 | < 2.2 | NR | < 1 | NR | 8.8 | 2 | | | 3.14 | 2 | | | | |
| 119 | 0.07 | NR | 1.50 | NR | 13.0 | 2 | 393 | 0 | 3.29 | 0 | 0.4 | NR | 580 | 4 |
| 126 | | | | | | | | | | | | | 640 | 1 |
| 127 | < 3 | NR | < 3 | NR | 11.4 | 4 | | | 3.03 | 4 | < 3 | NR | 583 | 4 |
| 129 | | | | | 12.3 | 3 | 2436 | 4 | | | | | | |
| 134 | < 1 | NR | 4.08 | NR | 11.6 | 4 | | | 3.05 | 3 | < 1 | NR | 619 | 2 |
| 138 | < 0.2 | NR | < 1 | NR | 8.6 | 2 | 2170 | 3 | 3.01 | 4 | 1.1 | NR | 565 | 4 |
| 140 | | | | | 11.7 | 4 | 2400 | 4 | | | | | 560 | 4 |
| 141 | 5.12 | NR | < 2 | NR | | | 2624 | 3 | | | < 10 | NR | 582 | 4 |
| 142 | 0.68 | NR | 0.77 | NR | 12.7 | 3 | | | 3.04 | 3 | < 2 | NR | 614 | 2 |
| 146 | < 50 | NR | 13.60 | NR | | | | | | | < 10 | NR | 549 | 4 |
| 147 | 0.04 | NR | < 0.5 | NR | 11.1 | 4 | | | 2.86 | 3 | 0.2 | NR | 480 | 0 |
| 149 | < 3 | NR | | | | | | | | | | | 589 | 3 |
| 151 | 0.05 | NR | 1.40 | NR | 11.4 | 4 | | | 2.49 | 0 | | | 529 | 3 |
| 154 | | | | | | | | | 2.72 | 1 | 141.0 | NR | 483 | 1 |
| 158 | | | | | | | 1765 | 1 | | | | | 579 | 4 |
| 180 | 77.60 | NR | < 53.2 | NR | | | 2360 | 4 | | | < 4.67 | NR | 591 | 3 |
| 185 | | | | | 1.2 | 0 | | | | | | | | |
| 190 | | | | | 2.3 | 0 | | | | | | | 592 | 3 |
| 191 | | | | | 12.1 | 3 | | | 3.03 | 4 | | | 597 | 3 |
| 196 | 0.07 | NR | < 0.2 | NR | | | 2166 | 3 | 3.16 | 2 | 0.3 | NR | 602 | 3 |
| 203 | | | | | | | | | | | | | 545 | 3 |
| 204 | | | | | 5.7 | 0 | | | | | | | | |
| 212 | < 0.1 | NR | < 0.5 | NR | 11.6 | 4 | | | 2.80 | 2 | < 1 | NR | 533 | 3 |
| 215 | < 7 | NR | < 5 | NR | 9.3 | 3 | 3884 | 0 | | | 5.3 | NR | 592 | 3 |
| 219 | | | | | | | | | 3.03 | 4 | | | 550 | 4 |
| 220 | | | | | | | 2449 | 4 | | | 40.0 | NR | 578 | 4 |
| 221 | | | 1.00 | NR | | | 2009 | 2 | | | | | 538 | 3 |
| 224 | | | 300.00 | NR | | | | | | | 22.4 | NR | 388 | 0 |
| 235 | 0.13 | NR | 0.05 | NR | | | 2230 | 4 | 2.47 | 0 | < 10 | NR | 429 | 0 |
| 241 | 2.50 | NR | < 5 | NR | 11.6 | 4 | 2306 | 4 | | | 1.7 | NR | 573 | 4 |

Table 11. Laboratory performance ratings for standard reference water sample GW-1 (ground-water constituents)--continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/28, number of reported values of 28 possible values; RV, reported value; <, less than)

| Rating | Absolute Z-value | Rating | Absolute Z-value |
|------------------|------------------|------------------|-------------------|
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

| Analyte = Sb (Antimony) | | Se (Selenium) | | SiO ₂ (Silica) | | SO ₄ (Sulfate) | | Sr (Strontium) | | V (Vanadium) | | Zn (Zinc) | | |
|-------------------------|-------|-------------------|------|---------------------------|------|---------------------------|------|----------------|------|-------------------|-------|-----------|-----|--------|
| MPV = insufficient data | | insufficient data | | 11.1 mg/L | | 2345 mg/L | | 2.97 µg/L | | insufficient data | | 568 µg/L | | |
| F-pseudosigma = | | | | 1.8 | | 326 | | 0.13 | | | | 42 | | |
| Lab | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating | RV | Rating |
| 247 | < 5 | NR | < 6 | NR | | | 2145 | 3 | 3.05 | 3 | < 1 | NR | 502 | 1 |
| 255 | < 24 | NR | < 40 | NR | | | | | | | < 3 | NR | 539 | 3 |
| 256 | | | < 1 | NR | | | | | | | | | 604 | 3 |
| 257 | < 0.5 | NR | | | | | | | | | < 100 | NR | 520 | 2 |
| 259 | | | | | 10.9 | 4 | | | 3.00 | 4 | | | 564 | 4 |
| 262 | | | | | | | 2047 | 3 | | | | | | |
| 265 | 0.15 | NR | < 1 | NR | 12.5 | 3 | 2380 | 4 | 2.93 | 4 | 0.3 | NR | 600 | 3 |
| 268 | | | | | | | 2284 | 4 | | | | | | |
| 270 | | | | | | | | | | | | | | |
| 272 | | | | | | | | | | | | | | |
| 273 | | | | | | | | | 3.00 | 4 | | | 749 | 0 |
| 274 | | | | | 8.1 | 1 | 2602 | 3 | | | | | 14 | 0 |
| 282 | < 5 | NR | < 5 | NR | 5.9 | 0 | 2730 | 2 | | | < 20 | NR | 548 | 4 |
| 284 | 4.00 | NR | 2.00 | NR | 6.9 | 0 | 2430 | 4 | 2.43 | 0 | 421.0 | NR | 525 | 2 |
| 287 | | | | | | | | | | | | | 584 | 4 |
| 289 | | | < 5 | NR | 10.9 | 4 | | | 2.64 | 0 | 80.9 | NR | 600 | 3 |
| 290 | | | | | | | 2877 | 1 | | | | | | |
| 292 | | | | | | | 2640 | 3 | | | | | 580 | 4 |

Table 12. Laboratory performance ratings for standard reference water sample Hg-24 (mercury)

(MPV, most probable value; ug/L, micrograms per liter; Lab, laboratory number; V/1 number of reported values of 1 value; RV, reported value; <, less than)

| | | | |
|------------------|------------------|------------------|-------------------|
| Rating | Absolute Z-value | Rating | Absolute Z-value |
| 4 (Excellent) | 0.00 - 0.50 | 1 (Questionable) | 1.51 - 2.00 |
| 3 (Good) | 0.51 - 1.00 | 0 (Poor) | greater than 2.00 |
| 2 (Satisfactory) | 1.01 - 1.50 | NR (Not Rated) | |

Analyte = Hg (Mercury)

MPV = 0.42 ug/L

F-pseudostigma = 0.05

| Lab | V/1 | RV | Rating |
|------|-----|-------|--------|
| 1 | 1 | 0.38 | 3 |
| 3 | 1 | 0.30 | 0 |
| 10 | 1 | 0.44 | 4 |
| 11 | 1 | 0.36 | 2 |
| 12 | 1 | < 0.2 | 0 |
| 13 | 1 | 0.56 | 0 |
| 18 | 1 | 0.38 | 3 |
| 26 | 1 | 0.44 | 4 |
| 30 | 1 | 0.60 | 0 |
| 32 | 1 | 0.53 | 0 |
| 34.1 | 1 | 0.41 | 4 |
| 34.2 | 1 | 0.34 | 1 |
| 36 | 1 | 0.53 | 0 |
| 39 | 1 | 0.45 | 3 |
| 42 | 1 | 0.45 | 3 |
| 46 | 1 | 0.40 | 4 |
| 48 | 1 | 0.44 | 4 |
| 50 | 1 | 0.36 | 2 |
| 51 | 1 | 0.43 | 4 |
| 55 | 1 | 0.43 | 4 |
| 59 | 1 | 0.35 | 2 |
| 61 | 1 | 0.30 | 0 |
| 68 | 1 | 0.36 | 2 |
| 69 | 1 | 0.39 | 3 |
| 70 | 1 | 0.40 | 4 |
| 76 | 1 | 0.41 | 4 |
| 81 | 1 | 0.40 | 4 |
| 86 | 1 | 0.39 | 3 |
| 87 | 1 | 0.60 | 0 |
| 89 | 1 | 0.40 | 4 |
| 96 | 1 | 0.51 | 1 |
| 97 | 1 | 0.50 | 1 |
| 105 | 1 | 0.45 | 3 |
| 108 | 1 | 0.70 | 0 |
| 109 | 1 | 0.38 | 3 |
| 111 | 1 | 44.20 | 0 |
| 113 | 1 | 0.42 | 4 |
| 119 | 1 | 0.41 | 4 |
| 127 | 1 | 0.37 | 3 |
| 133 | 1 | 0.46 | 3 |
| 134 | 1 | 0.42 | 4 |
| 138 | 1 | 0.37 | 2 |
| 141 | 1 | 0.45 | 3 |
| 142 | 1 | 0.45 | 3 |
| 145 | 1 | 0.61 | 0 |
| 146 | 1 | 0.39 | 3 |
| 147 | 1 | 0.39 | 3 |
| 149 | 1 | 0.40 | 4 |
| 193 | 1 | 0.38 | 3 |
| 198 | 1 | 0.42 | 4 |
| 212 | 1 | 0.45 | 3 |
| 213 | 1 | 0.40 | 4 |
| 215 | 1 | 0.48 | 2 |
| 219 | 1 | 0.40 | 4 |
| 220 | 1 | 0.41 | 4 |
| 221 | 1 | 0.45 | 3 |
| 234 | 1 | 4.25 | 0 |
| 235 | 1 | 0.44 | 4 |
| 241 | 1 | 0.42 | 4 |
| 245 | 1 | 0.40 | 4 |
| 247 | 1 | 0.43 | 4 |
| 252 | 1 | 0.53 | 0 |
| 255 | 1 | 0.37 | 3 |
| 256 | 1 | 1.06 | 0 |
| 257 | 1 | 5.00 | 0 |
| 259 | 1 | 0.40 | 4 |
| 265 | 1 | 0.42 | 4 |
| 282 | 1 | < 1 | NR |
| 284 | 1 | 0.50 | 1 |
| 289 | 1 | 0.37 | 3 |
| 292 | 1 | < 0.6 | NR |

Table 13. *Statistical summary of reported data for standard reference water sample T-147 (trace constituents)*

Definition of analytical methods, abbreviations, and symbols

Analytical methods

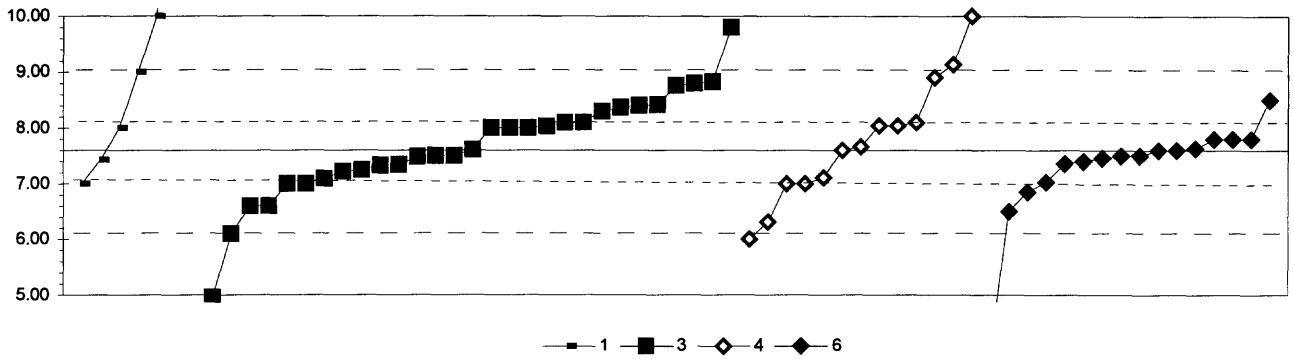
| | | |
|---------------------------------|---|--|
| 0. Other/Not reported | = | |
| 1. AA: direct, air | = | atomic absorption: direct,air |
| 2. AA: direct, N ₂ O | = | atomic absorption: direct,nitrous oxide |
| 3. AA: graphite furnace | = | atomic absorption: graphite furnace |
| 4. ICP | = | inductively coupled plasma |
| 5. DCP | = | direct current plasma |
| 6. ICP/MS | = | inductively coupled plasma/mass spectrometry |
| 7. IC | = | ion chromatography |
| 10. AA: extraction | = | atomic absorption: extraction [chelating agent(s) specified] |
| 11. AA: hydride | = | atomic absorption: hydride [reducing agent specified] |
| 12. AA: flame emission | = | atomic absorption: flame emission |
| 22. Color: | = | colorimetric [color reagent specified] |

Abbreviations and symbols

| | | |
|----------------|---|-------------------------------------|
| N | = | number of samples |
| MPV | = | most probable value |
| F-pseudostigma | = | nonparametric statistic deviation |
| Hu | = | upper hinge value |
| Hi | = | lower hinge value |
| µg/L | = | micrograms per liter |
| mg/L | = | milligrams per liter |
| Lab | = | laboratory code number |
| NR | = | not rated, less than value reported |
| < | = | less than |

| <u>Constituent</u> | <u>page</u> | <u>Constituent</u> | <u>page</u> |
|--------------------|-------------|-------------------------|-------------|
| Ag Silver | 54 | Mg Magnesium | 68 |
| Al Aluminium | 55 | Mn Manganese | 69 |
| As Arsenic | 56 | Mo Molybdenum | 70 |
| B Boron | 57 | Na Sodium | 71 |
| Ba Barium | 58 | Ni Nickel | 72 |
| Be Beryllium | 59 | Pb Lead | 73 |
| Ca Calcium | 60 | Sb Antimony | 74 |
| Cd Cadmium | 61 | Se Selenium | 75 |
| Co Cobalt | 62 | SiO ₂ Silica | 76 |
| Cr Chromium | 63 | Sr Strontium | 77 |
| Cu Copper | 64 | Tl Thallium | 78 |
| Fe Iron | 65 | U Uranium | 79 |
| K Potassium | 66 | V Vanadium | 80 |
| Li Lithium | 67 | Zn Zinc | 81 |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Ag (Silver) $\mu\text{g/L}$



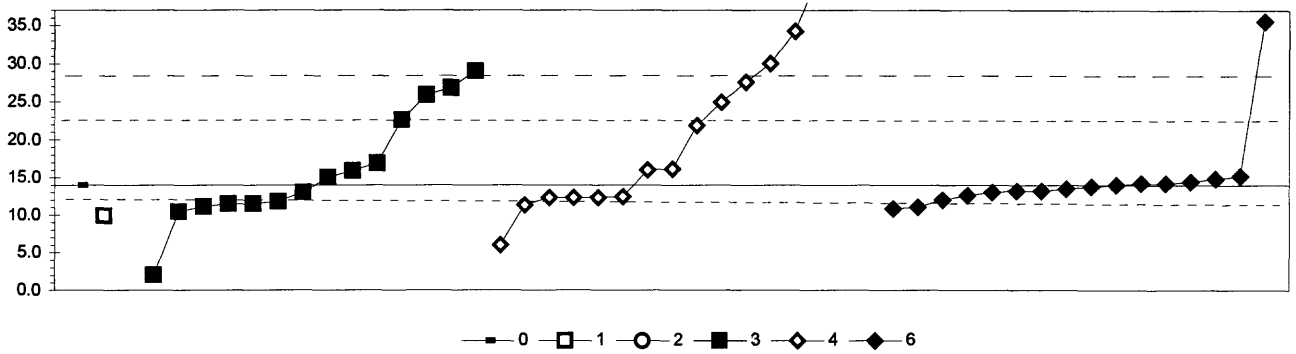
| 1. AA: direct air | | 6. ICP/MS | | | | |
|-------------------------|--|-----------------|-------|------|-------|------|
| 3. AA: graphite furnace | | N = | 6 | 30 | 13 | 16 |
| 4. ICP | | Minimum = | 7.00 | 3.00 | 6.00 | 3.97 |
| | | Maximum = | 13.00 | 9.80 | 10.00 | 8.50 |
| | | Median = | 7.56 | 7.66 | 7.50 | |
| | | F-pseudosigma = | 0.90 | 0.82 | 0.39 | |

MPV = 7.60
F-pseudosigma = 0.75
N = 65
Hu = 8.10
Hl = 7.09

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|-------|------|-------|------|
| 1 | 4 | -0.32 | | | | 7.36 |
| 3 | 0 | 3.21 | | | 10.00 | |
| 11 | 3 | -0.80 | | | 7.00 | |
| 12 | 0 | 2.94 | 9.80 | | | |
| 13 | 1 | -1.72 | | | 6.31 | |
| 16 | 4 | -0.27 | | | | 7.40 |
| 18 | 3 | -0.80 | | | 7.00 | |
| 23 | 3 | -0.51 | 7.22 | | | |
| 25 | 0 | -2.14 | | | < 6 | |
| 26 | 4 | 0.01 | | 7.61 | | |
| 30 | 4 | -0.13 | | | | 7.50 |
| 34 | 2 | 1.03 | 8.37 | | | |
| 42 | 4 | 0.00 | | | | 7.60 |
| 46 | 3 | -0.68 | 7.09 | | | |
| 48 | 4 | 0.00 | | | | 7.60 |
| 50 | 4 | 0.27 | | | | 7.80 |
| 59 | 2 | -1.34 | 6.60 | | | |
| 61 | 3 | 0.67 | | 8.10 | | |
| 68 | 2 | 1.07 | 8.40 | | | |
| 69 | 2 | -1.34 | 6.60 | | | |
| 70 | NR | | < 10 | | | |
| 81 | 3 | 0.53 | | | | 8.00 |
| 85 | 1 | 1.87 | 9.00 | | | |
| 87 | 0 | 7.21 | 13.00 | | | |
| 89 | 4 | -0.36 | | | | 7.33 |
| 96 | 3 | 0.67 | | | | 8.10 |
| 97 | 0 | -3.53 | | | | 4.96 |
| 105 | 2 | -1.47 | | | | 6.50 |
| 107 | 4 | -0.13 | | | | 7.50 |
| 108 | 0 | -6.14 | | | | 3.00 |
| 113 | 4 | -0.16 | | | | 7.48 |
| 114 | NR | | < 10 | | | |
| 119 | 3 | 0.53 | 8.00 | | | |
| 127 | 4 | -0.47 | | | | 7.25 |
| 133 | 3 | 0.59 | | | | 8.04 |
| 134 | 3 | -0.65 | | | | 7.11 |
| 138 | 3 | -0.76 | | | | 7.03 |
| 140 | 3 | -0.80 | 7.00 | | | |
| 141 | 3 | 0.93 | | 8.30 | | |
| 142 | 0 | -4.85 | | | | 3.97 |
| 146 | NR | | < 10 | | | |
| 147 | 4 | -0.13 | | | | 7.50 |
| 149 | 3 | 0.53 | 8.00 | | | |
| 151 | 4 | 0.27 | | | | 7.80 |
| 180 | 1 | 1.74 | | | | 8.90 |
| 183 | 2 | 1.10 | | 8.42 | | |
| 190 | 1 | 1.64 | | 8.83 | | |
| 193 | 4 | -0.13 | | 7.50 | | |
| 196 | 4 | -0.19 | | | | 7.46 |
| 198 | 3 | 0.67 | | 8.10 | | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|-------|------|---|------|
| 212 | 3 | -1.00 | | | | 6.85 |
| 213 | 3 | 0.57 | | 8.03 | | |
| 215 | 3 | 0.53 | | 8.00 | | |
| 217 | 4 | 0.27 | | | | 7.80 |
| 221 | 4 | -0.23 | 7.43 | | | |
| 234 | 4 | 0.08 | | | | 7.66 |
| 236 | 0 | -2.14 | | | | 6.00 |
| 241 | 1 | -2.00 | | 6.10 | | |
| 245 | 4 | 0.04 | | | | 7.63 |
| 247 | 0 | -8.80 | | < 1 | | |
| 252 | 4 | -0.35 | | 7.34 | | |
| 255 | 3 | 0.59 | | | | 8.04 |
| 256 | 0 | 3.21 | 10.00 | | | |
| 257 | 1 | 1.55 | | 8.76 | | |
| 259 | 4 | 0.00 | | | | 7.60 |
| 265 | 2 | 1.20 | | | | 8.50 |
| 273 | 0 | 2.06 | | | | 9.14 |
| 282 | NR | | | | | < 10 |
| 284 | 3 | -0.80 | | 7.00 | | |
| 289 | 1 | 1.60 | | 8.80 | | |
| 292 | 3 | -0.80 | | 7.00 | | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Al (Aluminum) $\mu\text{g/L}$



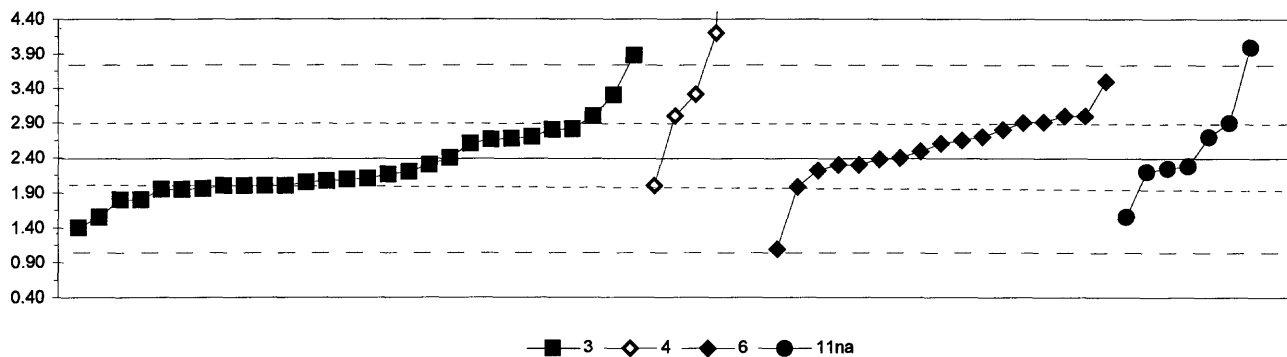
| | | | | | |
|-----------------------------|-------------------------|------|-----|------|-------|
| 0. Other | 3. AA: graphite furnace | | | | |
| 1. AA: direct air | 4. ICP | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | |
| | N = | 1 | 1 | 0 | 14 |
| | Minimum = | 14.0 | 9.9 | < 50 | 2.0 |
| | Maximum = | | | | 6.0 |
| | Median = | | | | 10.8 |
| | F-pseudostigma = | | | | 29.0 |
| | | | | | 120.7 |
| | | | | | 35.5 |
| | | | | | 14.0 |
| | | | | | 19.0 |
| | | | | | 13.7 |
| | | | | | 8.2 |
| | | | | | 14.7 |
| | | | | | 1.1 |

MPV = 14.0
F-pseudostigma = 7.5
N = 48
Hu = 22.2
HI = 12.1

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|------|---|------|-------|------|
| 1 | 4 | -0.27 | | | | | | 12.0 |
| 3 | NR | | | | | | < 30 | |
| 4 | NR | | | | | | < 500 | |
| 13 | 4 | -0.39 | | | | 11.1 | | |
| 16 | 4 | -0.19 | | | | | | 12.6 |
| 18 | NR | | | | | | < 100 | |
| 23 | NR | | | < 50 | | | | |
| 25 | NR | | | | | | < 19 | |
| 26 | 4 | -0.34 | | | | 11.5 | | |
| 30 | 4 | -0.11 | | | | | | 13.2 |
| 33 | NR | | < 10 | | | | | |
| 34 | 1 | 1.72 | | | | 26.8 | | |
| 42 | 4 | 0.03 | | | | | | 14.2 |
| 48 | 4 | -0.03 | | | | | | 13.8 |
| 50 | 4 | -0.43 | | | | | | 10.8 |
| 61 | 0 | 6.44 | | | | | 62.0 | |
| 68 | 0 | 3.75 | | | | | 42.0 | |
| 69 | 4 | -0.13 | | | | 13.0 | | |
| 70 | NR | | | | | | < 100 | |
| 81 | NR | | | | | | < 32 | |
| 83 | NR | | | | | | < 25 | |
| 89 | 4 | 0.39 | | | | 16.9 | | |
| 97 | 4 | 0.13 | | | | 15.0 | | |
| 105 | 4 | 0.16 | | | | | | 15.2 |
| 113 | 4 | -0.23 | | | | | 12.3 | |
| 119 | 4 | -0.11 | | | | | | 13.2 |
| 127 | NR | | | | | | < 30 | |
| 131 | NR | | | | | | < 100 | |
| 134 | 4 | -0.23 | | | | | 12.3 | |
| 138 | 4 | -0.21 | | | | | 12.4 | |
| 141 | NR | | | | | | < 50 | |
| 142 | NR | | | | | | < 50 | |
| 145 | NR | | | | | | < 50 | |
| 146 | NR | | | | | | < 200 | |
| 147 | 4 | -0.13 | | | | | | 13.0 |
| 151 | 4 | 0.03 | | | | | | 14.2 |
| 154 | 2 | -1.07 | | | | | 6.0 | |
| 158 | 2 | 1.46 | | | | | 24.9 | |
| 180 | 1 | 1.81 | | | | | 27.5 | |
| 185 | 2 | 1.15 | | | | 22.6 | | |
| 190 | 4 | -0.34 | | | | 11.5 | | |
| 191 | 4 | 0.00 | | | | | | 14.0 |
| 196 | 4 | -0.07 | | | | | | 13.5 |
| 198 | 4 | 0.25 | | | | 15.9 | | |
| 212 | NR | | | | | | < 100 | |
| 215 | NR | | | | | | < 50 | |
| 217 | 0 | 2.71 | | | | | 34.2 | |
| 218 | 0 | 14.30 | | | | | 120.7 | |
| 219 | 4 | 0.00 | 14.0 | | | | | |
| 221 | 3 | -0.55 | | 9.9 | | | | |

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|---|---|------|------|-------|-------|
| 224 | 4 | -0.36 | | | | | | 11.3 |
| 234 | 4 | 0.28 | | | | | | 16.1 |
| 235 | 4 | 0.05 | | | | | | 14.4 |
| 236 | 4 | 0.27 | | | | | | 16.0 |
| 237 | 0 | 2.15 | | | | | | 30.0 |
| 241 | 4 | -0.30 | | | | 11.8 | | |
| 245 | 4 | -0.40 | | | | | | 11.0 |
| 247 | 0 | 2.88 | | | | | | 35.5 |
| 255 | NR | | | | | | < 34 | |
| 257 | 1 | 1.59 | | | 25.9 | | | |
| 259 | 4 | -0.23 | | | | | 12.3 | |
| 265 | 4 | 0.11 | | | | | | 14.8 |
| 273 | 2 | 1.05 | | | | | 21.8 | |
| 282 | NR | | | | | | | < 100 |
| 284 | 1 | 2.01 | | | | 29.0 | | |
| 287 | 1 | -1.61 | | | | 2.0 | | |
| 289 | 4 | -0.48 | | | | 10.4 | | |
| 292 | NR | | | | | | < 100 | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
As (Arsenic) $\mu\text{g/L}$



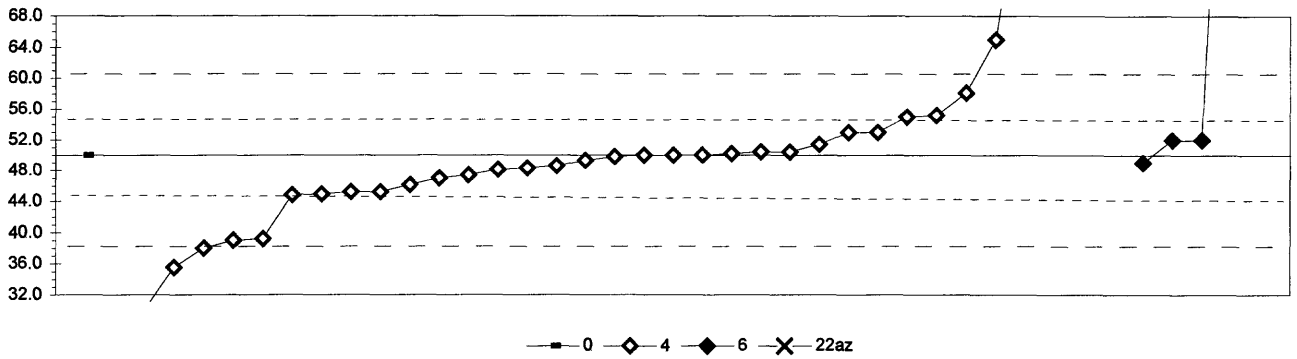
| 3. AA: graphite furnace | | 11na. AA: hydride NaBH ₄ | | | |
|-------------------------|-----------------|-------------------------------------|-------|------|------|
| 4. ICP | | | | | |
| 6. ICP/MS | | | | | |
| | N = | 28 | 6 | 17 | 7 |
| | Minimum = | 1.40 | 2.00 | 1.09 | 1.56 |
| | Maximum = | 3.88 | 12.00 | 3.50 | 4.00 |
| | Median = | 2.10 | | 2.60 | 2.28 |
| | F-pseudosigma = | 0.51 | | 0.44 | 0.43 |

MPV = 2.39
F-pseudosigma = 0.67
N = 58
Hu = 2.90
Hi = 2.00

| Lab | Rating | Z-value | 3 | 4 | 6 | 11na |
|-----|--------|---------|------|-------|------|------|
| 1 | 4 | -0.28 | 2.20 | | | |
| 3 | NR | | | < 5 | | |
| 13 | NR | | < 5 | | | |
| 16 | 4 | -0.13 | | | 2.30 | |
| 18 | 4 | -0.13 | 2.30 | | | |
| 23 | 3 | 0.63 | 2.81 | | | |
| 25 | NR | | | < 50 | | |
| 26 | 4 | -0.16 | | | | 2.28 |
| 30 | 3 | 0.91 | | | 3.00 | |
| 34 | 4 | -0.43 | 2.10 | | | |
| 36 | 3 | -0.58 | 2.00 | | | |
| 39 | 4 | -0.28 | | | | 2.20 |
| 42 | 1 | 1.66 | | | 3.50 | |
| 46 | 4 | 0.42 | 2.67 | | | |
| 48 | 3 | 0.61 | | | 2.80 | |
| 50 | 4 | 0.46 | | | 2.70 | |
| 59 | 4 | -0.13 | | | 2.30 | |
| 61 | NR | | | < 4.5 | | |
| 68 | 3 | 0.61 | 2.80 | | | |
| 69 | NR | | < 5 | | | |
| 70 | NR | | < 10 | | | |
| 80 | 4 | 0.01 | 2.40 | | | |
| 81 | 3 | 0.91 | | 3.00 | | |
| 85 | 0 | 2.41 | | | | 4.00 |
| 86 | 2 | -1.24 | | | | 1.56 |
| 87 | 4 | 0.46 | | | | 2.70 |
| 89 | 4 | -0.21 | | | | 2.25 |
| 96 | 3 | -0.58 | 2.00 | | | |
| 97 | 3 | -0.64 | 1.96 | | | |
| 105 | NR | | | < 4 | | |
| 107 | NR | | < 5 | | | |
| 108 | 2 | -1.26 | 1.55 | | | |
| 109 | 3 | -0.88 | 1.80 | | | |
| 111 | 2 | 1.36 | 3.30 | | | |
| 113 | 4 | -0.48 | 2.07 | | | |
| 119 | 4 | 0.01 | | | 2.40 | |
| 127 | 3 | -0.51 | 2.05 | | | |
| 131 | 0 | 14.40 | | 12.00 | | |
| 133 | NR | | < 5 | | | |
| 134 | 4 | -0.34 | 2.16 | | | |
| 138 | 3 | -0.61 | | | 1.98 | |
| 141 | NR | | < 5 | | | |
| 142 | 4 | -0.25 | | | 2.22 | |
| 143 | 4 | -0.45 | 2.09 | | | |
| 145 | 0 | 11.41 | | 10.00 | | |
| 146 | NR | | < 10 | | | |
| 147 | 4 | -0.01 | | | 2.38 | |
| 149 | 3 | -0.58 | 2.00 | | | |
| 151 | 4 | 0.31 | | | 2.60 | |
| 154 | 2 | -1.48 | 1.40 | | | |

| Lab | Rating | Z-value | 3 | 4 | 6 | 11na |
|-----|--------|---------|-------|--------|------|------|
| 180 | NR | | | < 40.1 | | |
| 191 | 3 | 0.76 | | | | 2.90 |
| 193 | NR | | < 5 | | | |
| 196 | 4 | 0.15 | | | | 2.49 |
| 198 | 4 | 0.40 | 2.66 | | | |
| 212 | 4 | 0.39 | | | | 2.65 |
| 213 | 4 | 0.31 | 2.60 | | | |
| 215 | NR | | < 5 | | | |
| 217 | 1 | -1.95 | | | | 1.09 |
| 220 | 3 | -0.66 | 1.95 | | | |
| 224 | 0 | 2.71 | | 4.20 | | |
| 234 | 2 | 1.38 | | 3.31 | | |
| 235 | 0 | 2.23 | 3.88 | | | |
| 236 | NR | | | < 35 | | |
| 241 | 3 | -0.88 | 1.80 | | | |
| 245 | 3 | 0.78 | | | | 2.91 |
| 247 | NR | | < 5 | | | |
| 252 | 3 | -0.66 | 1.95 | | | |
| 255 | NR | | < 5.6 | | | |
| 256 | 3 | 0.76 | | | | 2.90 |
| 257 | 4 | 0.46 | 2.70 | | | |
| 259 | 3 | -0.58 | | 2.00 | | |
| 265 | 3 | 0.91 | | | 3.00 | |
| 282 | NR | | | | | < 5 |
| 284 | 3 | -0.58 | 2.00 | | | |
| 289 | NR | | < 5 | | | |
| 292 | 3 | 0.91 | 3.00 | | | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
 B (Boron) µg/L

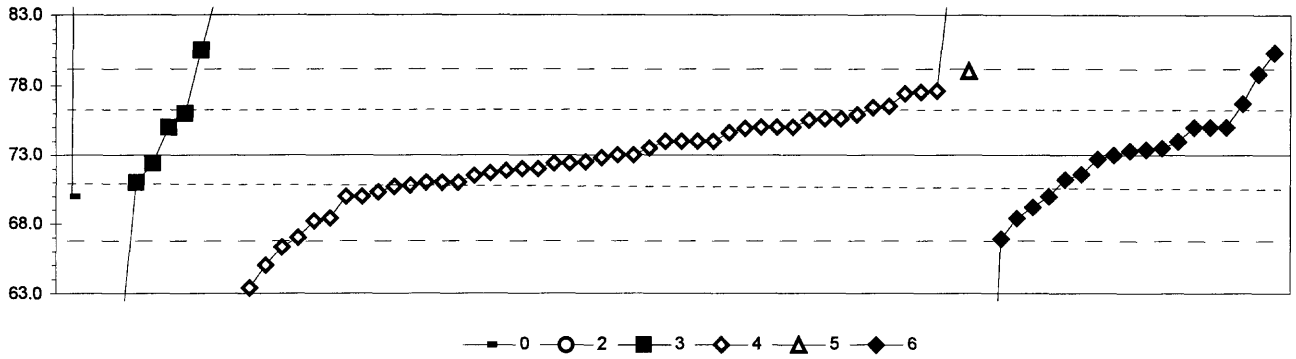


| 0. Other | | 22az. Color: azomethine | | | | |
|-----------|--|-------------------------|------|-------|-------|------|
| 4. ICP | | N = | 1 | 35 | 4 | 1 |
| 6. ICP/MS | | Minimum = | 50.0 | 20.0 | 49.0 | 15.0 |
| | | Maximum = | | 157.0 | 127.0 | |
| | | Median = | | 49.8 | | |
| | | F-pseudosigma = | | 5.8 | | |

MPV = 50.0
 F-pseudosigma = 5.8
 N = 41
 Hu = 53.0
 Hl = 45.2

| Lab | Rating | Z-value | 0 | 4 | 6 | 22az |
|-----|--------|---------|------|-------|-------|------|
| 1 | 4 | 0.07 | | 50.4 | | |
| 3 | 3 | 0.52 | | 53.0 | | |
| 4 | 3 | 0.52 | | 53.0 | | |
| 11 | 0 | 15.22 | | 138.0 | | |
| 16 | 0 | 18.51 | | 157.0 | | |
| 18 | NR | | | < 50 | | |
| 24 | 4 | -0.45 | | 47.4 | | |
| 25 | 0 | -4.66 | | < 23 | | |
| 26 | 3 | -0.88 | | 44.9 | | |
| 39 | 2 | 1.40 | | 58.1 | | |
| 40 | 3 | -0.83 | | 45.2 | | |
| 42 | 4 | -0.17 | | | 49.0 | |
| 46 | 3 | -0.83 | | 45.2 | | |
| 48 | 0 | -5.19 | | 20.0 | | |
| 61 | 0 | -2.51 | | 35.5 | | |
| 88 | 0 | 6.57 | | 88.0 | | |
| 70 | NR | | | < 100 | | |
| 85 | 3 | -0.52 | | 47.0 | | |
| 86 | 3 | -0.67 | | 46.1 | | |
| 119 | 3 | 0.86 | | 55.0 | | |
| 127 | 3 | -0.90 | | 44.8 | | |
| 129 | 0 | -6.05 | | | 15.0 | |
| 131 | 4 | 0.00 | | 50.0 | | |
| 134 | 4 | 0.07 | | 50.4 | | |
| 138 | 4 | 0.24 | | 51.4 | | |
| 141 | 4 | 0.00 | | 50.0 | | |
| 142 | 4 | -0.33 | | 48.1 | | |
| 145 | 0 | -2.08 | | 38.0 | | |
| 147 | 4 | 0.35 | | | 52.0 | |
| 154 | 4 | -0.12 | | 49.3 | | |
| 158 | 4 | -0.03 | | 49.8 | | |
| 180 | 4 | -0.29 | | 48.3 | | |
| 212 | 3 | 0.90 | | 55.2 | | |
| 215 | 4 | 0.00 | | 50.0 | | |
| 217 | 1 | -1.87 | | 39.2 | | |
| 219 | 4 | 0.00 | 50.0 | | | |
| 234 | 4 | -0.24 | | 48.6 | | |
| 236 | 1 | -1.90 | | 39.0 | | |
| 247 | 0 | 13.32 | | | 127.0 | |
| 255 | 4 | 0.03 | | 50.2 | | |
| 256 | 0 | -6.90 | | | < 10 | |
| 259 | 0 | 2.59 | | 65.0 | | |
| 265 | 4 | 0.35 | | | 52.0 | |
| 273 | 0 | 6.94 | | 90.1 | | |
| 282 | NR | | | < 50 | | |
| 289 | 0 | -3.46 | | 30.0 | | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Ba (Barium) $\mu\text{g/L}$



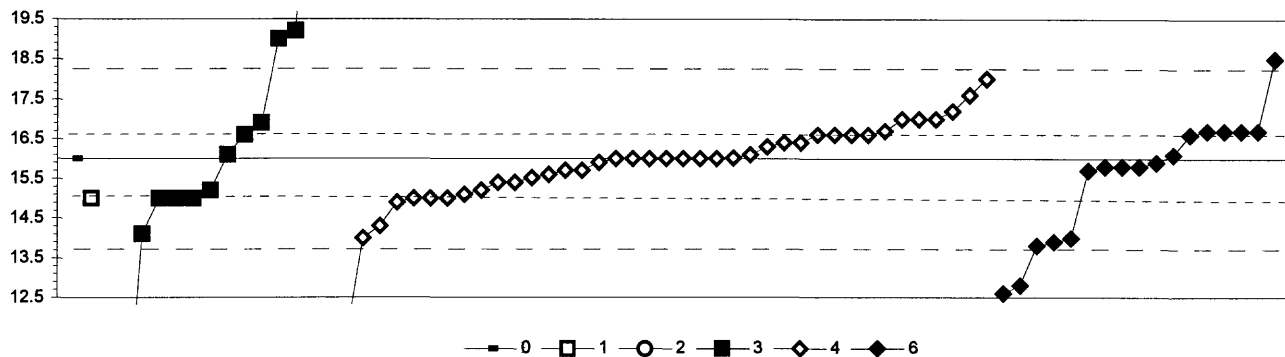
| | | | | | | | |
|-----------------------------|-----------|-------|------|------|------|------|--|
| 0. Other | 4. ICP | | | | | | |
| 2. AA: direct nitrous oxide | 5. DCP | | | | | | |
| 3. AA: graphite furnace | 6. ICP/MS | | | | | | |
| N = | 2 | 0 | 8 | 45 | 1 | 19 | |
| Minimum = | 70.0 | < 50 | 59.3 | 63.4 | 79.0 | 42.9 | |
| Maximum = | 245.0 | < 100 | 89.6 | 87.5 | | 80.3 | |
| Median = | | | 75.5 | 72.8 | | 73.3 | |
| F-pseudosigma = | | | 8.1 | 3.0 | | 3.3 | |

MPV = 73.0
F-pseudosigma = 3.2
N = 75
Hu = 75.3
Hi = 71.0

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 5 | 6 |
|-----|--------|---------|-------|---|------|------|------|------|
| 1 | 4 | 0.13 | | | | | | 73.4 |
| 3 | 3 | 0.63 | | | | 75.0 | | |
| 4 | 4 | 0.32 | | | | 74.0 | | |
| 11 | 3 | 0.63 | | | | 75.0 | | |
| 13 | 3 | 0.83 | | | | 75.6 | | |
| 16 | 3 | -0.57 | | | | | | 71.2 |
| 18 | 3 | -0.63 | | | | 71.0 | | |
| 19 | 3 | 0.92 | | | | 75.9 | | |
| 25 | 2 | -1.46 | | | | 68.4 | | |
| 26 | 3 | 0.60 | | | | 74.9 | | |
| 30 | 3 | 0.63 | | | | | | 75.0 |
| 33 | 1 | 1.90 | | | | | 79.0 | |
| 39 | 4 | -0.48 | | | | 71.5 | | |
| 40 | 4 | -0.41 | | | | 71.7 | | |
| 42 | 4 | 0.32 | | | | | | 74.0 |
| 46 | 3 | -0.86 | | | | 70.3 | | |
| 48 | 4 | -0.10 | | | | | | 72.7 |
| 50 | 2 | -1.21 | | | | | | 69.2 |
| 59 | 4 | 0.00 | | | | | | 73.0 |
| 61 | 2 | 1.43 | | | | 77.5 | | |
| 68 | 4 | 0.00 | | | | 73.0 | | |
| 69 | 0 | 2.38 | | | 80.5 | | | |
| 70 | 4 | -0.19 | | | | 72.4 | | |
| 81 | 4 | 0.32 | | | | 74.0 | | |
| 83 | 0 | -2.13 | | | | 66.3 | | |
| 85 | 4 | 0.32 | | | | 74.0 | | |
| 86 | 4 | 0.16 | | | | 73.5 | | |
| 87 | 4 | -0.19 | | | | 72.4 | | |
| 89 | 0 | 5.27 | | | | 89.6 | | |
| 96 | NR | | < 100 | | | | | |
| 97 | 3 | 0.63 | | | | 75.0 | | |
| 105 | 1 | -1.94 | | | | | | 66.9 |
| 107 | 3 | -0.63 | | | | 71.0 | | |
| 113 | 1 | -1.52 | | | | 68.2 | | |
| 119 | 3 | 0.63 | | | | 75.0 | | |
| 121 | 3 | -0.95 | | | | 70.0 | | |
| 127 | 4 | -0.16 | | | | 72.5 | | |
| 131 | 3 | 0.79 | | | | 75.5 | | |
| 133 | 2 | 1.11 | | | | 76.5 | | |
| 134 | 4 | -0.37 | | | | 71.9 | | |
| 138 | 4 | -0.32 | | | | 72.0 | | |
| 140 | 0 | 54.59 | 245.0 | | | | | |
| 141 | 2 | 1.40 | | | | 77.4 | | |
| 142 | 3 | 0.63 | | | | | | 75.0 |
| 145 | 4 | 0.32 | | | | 74.0 | | |
| 146 | 2 | 1.46 | | | | 77.6 | | |
| 147 | 3 | -0.95 | | | | | | 70.0 |
| 151 | 0 | 2.32 | | | | | | 80.3 |
| 154 | 0 | -2.54 | | | | 65.0 | | |
| 158 | 3 | -0.70 | | | | 70.8 | | |

| Lab | Rating | Z-value | 0 | 2 | 3 | 4 | 5 | 6 |
|-----|--------|---------|------|---|------|------|---|------|
| 180 | 3 | -0.73 | | | | 70.7 | | |
| 183 | 0 | 3.71 | | | 84.7 | | | |
| 191 | 2 | 1.17 | | | | | | 76.7 |
| 196 | 4 | 0.10 | | | | | | 73.3 |
| 198 | 3 | 0.83 | | | | 75.6 | | |
| 212 | 2 | -1.46 | | | | | | 68.4 |
| 215 | 4 | 0.00 | | | | 73.0 | | |
| 217 | 4 | -0.19 | | | | 72.4 | | |
| 219 | 3 | -0.95 | 70.0 | | | | | |
| 220 | 4 | -0.06 | | | | 72.8 | | |
| 224 | 0 | 4.60 | | | | 87.5 | | |
| 234 | 2 | 1.08 | | | | 76.4 | | |
| 235 | 1 | 1.84 | | | | | | 78.8 |
| 236 | 3 | -0.63 | | | | 71.0 | | |
| 237 | 3 | -0.63 | | | | 71.0 | | |
| 241 | 0 | -4.35 | | | 59.3 | | | |
| 245 | 4 | 0.16 | | | | | | 73.5 |
| 247 | 0 | -9.55 | | | | | | 42.9 |
| 255 | 3 | 0.51 | | | | 74.6 | | |
| 256 | 0 | -7.19 | < 50 | | | | | |
| 259 | 3 | -0.95 | | | | 70.0 | | |
| 265 | 3 | 0.63 | | | | | | 75.0 |
| 273 | 0 | -3.05 | | | | 63.4 | | |
| 282 | 4 | -0.44 | | | | | | 71.6 |
| 284 | 3 | 0.95 | | | 76.0 | | | |
| 289 | 1 | -1.90 | | | | 67.0 | | |
| 292 | 4 | -0.32 | | | | 72.0 | | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Be (Beryllium) µg/L



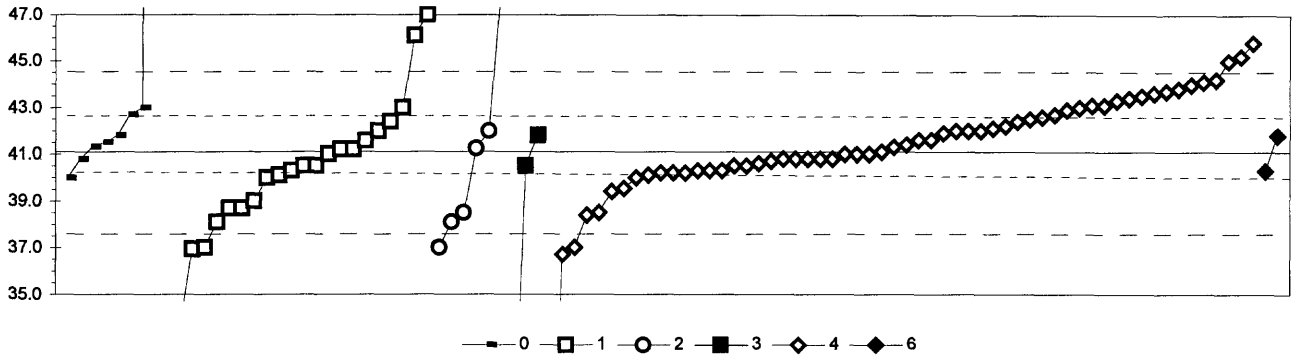
| | | | | | | |
|-----------------------------|-------------------------|------|------|------|------|------|
| 0. Other | 3. AA: graphite furnace | | | | | |
| 1. AA: direct air | 4. ICP | | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | | |
| N = | 1 | 1 | 0 | 13 | 39 | 17 |
| Minimum = | 16.0 | 15.0 | < 10 | 8.4 | 11.4 | 12.6 |
| Maximum = | | | | 39.0 | 18.0 | 18.5 |
| Median = | | | | 16.1 | 16.0 | 15.8 |
| F-pseudosigma = | | | | 3.0 | 0.9 | 2.0 |

MPV = 16.0
F-pseudosigma = 1.1
N = 71
Hu = 16.6
HI = 15.1

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|---|------|------|
| 1 | 4 | -0.09 | | | | | | 15.9 |
| 3 | 3 | 0.87 | | | | | 17.0 | |
| 4 | 3 | -0.87 | | | | | 15.0 | |
| 11 | 3 | 0.87 | | | | | 17.0 | |
| 13 | 3 | 0.52 | | | | | 16.6 | |
| 16 | 1 | -1.83 | | | | | | 13.9 |
| 18 | 3 | -0.87 | | | | | 15.0 | |
| 25 | 4 | -0.26 | | | | | 15.7 | |
| 26 | 3 | 0.52 | | | | | 16.6 | |
| 30 | 3 | 0.61 | | | | | | 16.7 |
| 36 | 4 | 0.09 | | | 16.1 | | | |
| 39 | 3 | -0.52 | | | | | 15.4 | |
| 40 | 3 | -0.70 | | | | | 15.2 | |
| 42 | 4 | -0.17 | | | | | | 15.8 |
| 46 | 3 | -0.52 | | | | | 15.4 | |
| 48 | 3 | 0.61 | | | | | | 16.7 |
| 50 | 1 | -1.91 | | | | | | 13.8 |
| 59 | 1 | -1.74 | | | | | | 14.0 |
| 61 | 4 | 0.35 | | | | | 16.4 | |
| 68 | 4 | 0.00 | | | | | 16.0 | |
| 69 | 3 | -0.70 | | | 15.2 | | | |
| 70 | 4 | 0.00 | | | | | 16.0 | |
| 81 | 3 | -0.87 | | | 15.0 | | | |
| 63 | 2 | -1.48 | | | | | 14.3 | |
| 65 | 3 | -0.87 | | | | | 15.0 | |
| 86 | 4 | 0.09 | | | | | 16.1 | |
| 89 | 1 | -1.65 | | | | | 14.1 | |
| 96 | 3 | -0.87 | 15.0 | | | | | |
| 97 | 3 | 0.78 | | | 16.9 | | | |
| 105 | 0 | -2.79 | | | | | | 12.8 |
| 113 | 4 | -0.26 | | | | | 15.7 | |
| 114 | 0 | -5.46 | | < 10 | | | | |
| 119 | 4 | -0.26 | | | | | | 15.7 |
| 121 | 3 | 0.87 | | | | | 17.0 | |
| 127 | 3 | -0.78 | | | | | 15.1 | |
| 131 | 1 | -1.74 | | | | | 14.0 | |
| 133 | 2 | 1.39 | | | | | 17.6 | |
| 134 | 4 | -0.42 | | | | | 15.5 | |
| 138 | 4 | -0.09 | | | | | 15.9 | |
| 141 | 3 | 0.52 | | | | | 16.6 | |
| 142 | 0 | 2.18 | | | | | | 18.5 |
| 145 | 4 | 0.00 | | | | | 16.0 | |
| 146 | 3 | 0.61 | | | | | 16.7 | |
| 147 | 4 | -0.17 | | | | | | 15.8 |
| 149 | 3 | -0.87 | | | 15.0 | | | |
| 151 | 4 | 0.09 | | | | | | 16.1 |
| 154 | 3 | 0.52 | | | 16.6 | | | |
| 158 | 4 | 0.00 | | | | | 16.0 | |
| 180 | 3 | -0.96 | | | | | 14.9 | |
| 193 | 3 | -0.87 | | | 15.0 | | | |

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|---|---|------|------|------|
| 196 | 3 | 0.52 | | | | | | 16.6 |
| 198 | 2 | 1.04 | | | | | 17.2 | |
| 212 | 0 | -2.96 | | | | | | 12.6 |
| 213 | 0 | 2.79 | | | | 19.2 | | |
| 215 | 4 | 0.00 | | | | | 16.0 | |
| 217 | 4 | 0.35 | | | | | 16.4 | |
| 219 | 4 | 0.00 | 16.0 | | | | | |
| 220 | 4 | -0.35 | | | | | 15.6 | |
| 224 | 0 | -4.00 | | | | | 11.4 | |
| 234 | 3 | 0.52 | | | | | 16.6 | |
| 235 | 4 | 0.26 | | | | | 16.3 | |
| 236 | 4 | 0.00 | | | | | 16.0 | |
| 237 | 4 | 0.00 | | | | | 16.0 | |
| 241 | 0 | -6.61 | | | | 8.4 | | |
| 245 | 3 | 0.61 | | | | | | 16.7 |
| 247 | 0 | -13.64 | | | | | | < 1 |
| 252 | 0 | 8.70 | | | | 26.0 | | |
| 255 | 4 | 0.02 | | | | | 16.0 | |
| 265 | 3 | 0.61 | | | | | | 16.7 |
| 282 | 4 | -0.17 | | | | | | 15.8 |
| 284 | 0 | 20.02 | | | | 39.0 | | |
| 289 | 1 | 1.74 | | | | | 18.0 | |
| 292 | 0 | 2.61 | | | | 19.0 | | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Ca (Calcium) mg/L



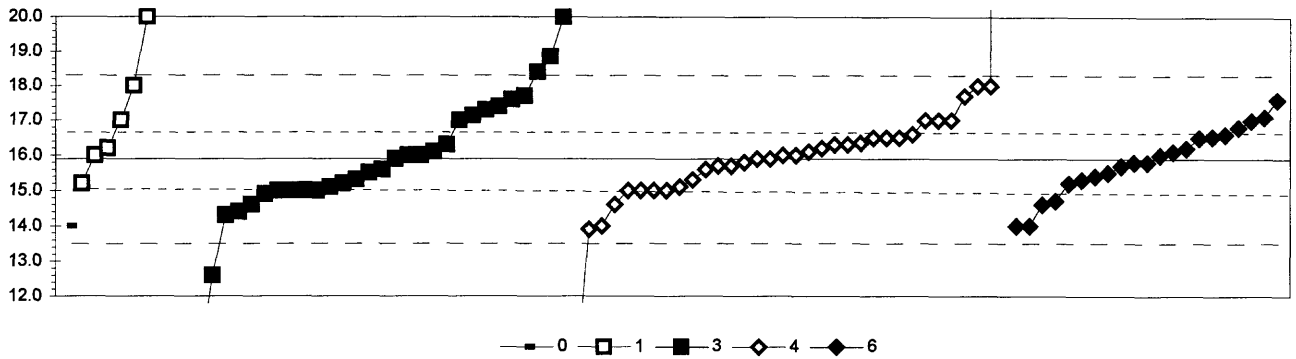
| | | | | | | |
|-----------------------------|-------------------------|------|------|------|------|------|
| 0. Other | 3. AA: graphite furnace | | | | | |
| 1. AA: direct air | 4. ICP | | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | | |
| N = | 8 | 22 | 6 | 3 | 58 | 2 |
| Minimum = | 40.0 | 31.4 | 37.0 | 27.0 | 22.2 | 40.3 |
| Maximum = | 175.0 | 47.0 | 48.2 | 41.8 | 45.8 | 41.8 |
| Median = | 41.7 | 40.4 | | | 41.4 | |
| F-pseudsigma = | 1.3 | 2.1 | | | 2.0 | |

MPV = 41.1
F-pseudsigma = 1.7
N = 99
Hu = 42.6
HI = 40.2

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-------|------|------|------|------|---|
| 1 | 4 | -0.34 | | | | | 40.5 | |
| 3 | 1 | 1.55 | | | | | 43.8 | |
| 4 | 0 | 2.24 | | | | | 45.0 | |
| 9 | 0 | -2.35 | | | | | 37.0 | |
| 11 | 1 | 1.78 | | | | | 44.2 | |
| 12 | 4 | -0.06 | | | | | 41.0 | |
| 13 | 2 | 1.15 | | | | | 43.1 | |
| 16 | 2 | 1.09 | | | | | 43.0 | |
| 18 | 4 | -0.29 | | | | | 40.6 | |
| 23 | 0 | 2.87 | 46.1 | | | | | |
| 24 | 3 | -0.57 | | | | | 40.1 | |
| 25 | 2 | 1.32 | | | | | 43.4 | |
| 26 | 4 | 0.11 | | | | | 41.3 | |
| 30 | 3 | 0.52 | | | 42.0 | | | |
| 33 | 4 | 0.40 | 41.8 | | | | | |
| 36 | 2 | 1.09 | | 43.0 | | | | |
| 39 | 3 | -0.52 | | | | | 40.2 | |
| 40 | 3 | -0.98 | | | | | 39.4 | |
| 42 | 0 | 2.70 | | | | | 45.8 | |
| 43 | 4 | -0.23 | | | | | 40.7 | |
| 45 | 4 | 0.11 | 41.3 | | | | | |
| 46 | 4 | -0.17 | | | | | 40.8 | |
| 48 | 2 | 1.44 | | | | | 43.6 | |
| 51 | 2 | -1.38 | | 38.7 | | | | |
| 59 | 3 | 0.52 | | | | | 42.0 | |
| 61 | 2 | 1.49 | | | | | 43.7 | |
| 68 | 4 | -0.06 | | | | | 41.0 | |
| 69 | 3 | -0.57 | | 40.1 | | | | |
| 70 | 3 | 0.80 | | | | | 42.5 | |
| 76 | 4 | 0.27 | | 41.6 | | | | |
| 81 | 4 | 0.40 | | | | 41.8 | | |
| 83 | 1 | -1.55 | | | | | 38.4 | |
| 84 | 4 | -0.34 | | 40.5 | | | | |
| 85 | 4 | -0.06 | | 41.0 | | | | |
| 86 | 2 | 1.03 | | | | | 42.9 | |
| 87 | 1 | -1.72 | | | 38.1 | | | |
| 89 | 3 | -0.63 | | 40.0 | | | | |
| 93 | 4 | -0.46 | | | | | 40.3 | |
| 97 | 4 | 0.06 | | 41.2 | | | | |
| 105 | 4 | 0.00 | | | | | 41.1 | |
| 108 | 0 | 76.86 | 175.0 | | | | | |
| 109 | 4 | -0.34 | | 40.5 | | | | |
| 111 | 0 | 4.08 | | | 48.2 | | | |
| 113 | 0 | 2.35 | | | | | 45.2 | |
| 114 | 0 | -2.35 | | | 37.0 | | | |
| 119 | 3 | 0.83 | | | | | 42.2 | |
| 121 | 4 | -0.17 | | | | | 40.8 | |
| 127 | 3 | -0.52 | | | | | 40.2 | |
| 129 | 0 | 3.39 | | 47.0 | | | | |
| 131 | 3 | 0.92 | | | | | 42.7 | |

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|------|------|------|
| 133 | 2 | 1.26 | | | | | 43.3 | |
| 134 | 3 | -0.64 | | | | | 40.0 | |
| 138 | 4 | 0.17 | | | | | 41.4 | |
| 140 | 0 | -2.35 | | 37.0 | | | | |
| 141 | 2 | 1.38 | | | | | 43.5 | |
| 142 | 4 | -0.17 | | | | | 40.8 | |
| 145 | 3 | 0.57 | | | | | 42.1 | |
| 146 | 4 | 0.46 | | | | | 41.9 | |
| 147 | 4 | -0.06 | | | | | 41.0 | |
| 149 | 2 | -1.38 | | 38.7 | | | | |
| 151 | 3 | 0.75 | | 42.4 | | | | |
| 154 | 3 | -0.52 | | | | | 40.2 | |
| 158 | 4 | 0.29 | | | | | 41.6 | |
| 180 | 4 | 0.29 | | | | | 41.6 | |
| 183 | 0 | -5.57 | | 31.4 | | | | |
| 185 | 4 | -0.46 | | 40.3 | | | | |
| 190 | 3 | 0.92 | 42.7 | | | | | |
| 191 | 4 | -0.46 | | | | | | 40.3 |
| 193 | 2 | -1.49 | | | 38.5 | | | |
| 196 | 4 | 0.06 | | 41.2 | | | | |
| 198 | 3 | 0.86 | | | | | 42.6 | |
| 209 | 1 | 1.72 | | | | | 44.1 | |
| 212 | 3 | 0.52 | | | | | 42.0 | |
| 215 | 4 | -0.46 | | | | | 40.3 | |
| 217 | 4 | -0.17 | | | | | 40.8 | |
| 218 | 1 | 1.65 | | | | | 44.0 | |
| 219 | 3 | -0.63 | 40.0 | | | | | |
| 220 | 2 | -1.21 | | 39.0 | | | | |
| 221 | 4 | -0.34 | | | | 40.5 | | |
| 224 | 0 | -10.84 | | | | | 22.2 | |
| 234 | 3 | 0.52 | | | | | 42.0 | |
| 235 | 0 | -2.53 | | | | | 36.7 | |
| 236 | 3 | -0.90 | | | | | 39.5 | |
| 237 | 4 | -0.46 | | | | | 40.3 | |
| 241 | 3 | 0.52 | | 42.0 | | | | |
| 247 | 4 | -0.17 | 40.8 | | | | | |
| 255 | 4 | -0.18 | | | | | 40.8 | |
| 256 | 4 | 0.09 | | | 41.3 | | | |
| 257 | 2 | 1.09 | 43.0 | | | | | |
| 282 | 4 | 0.23 | 41.5 | | | | | |
| 265 | 4 | -0.34 | | | | | 40.5 | |
| 268 | 0 | -4.36 | | 33.5 | | | | |
| 273 | 3 | 0.75 | | | | | 42.4 | |
| 274 | 0 | -8.12 | | | | 27.0 | | |
| 282 | 4 | 0.40 | | | | | 41.8 | |
| 284 | 1 | -1.72 | | 38.1 | | | | |
| 287 | 0 | -2.39 | | 36.9 | | | | |
| 289 | 2 | -1.49 | | | | | 38.5 | |
| 292 | 2 | 1.15 | | | | | 43.1 | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Cd (Cadmium) $\mu\text{g/L}$



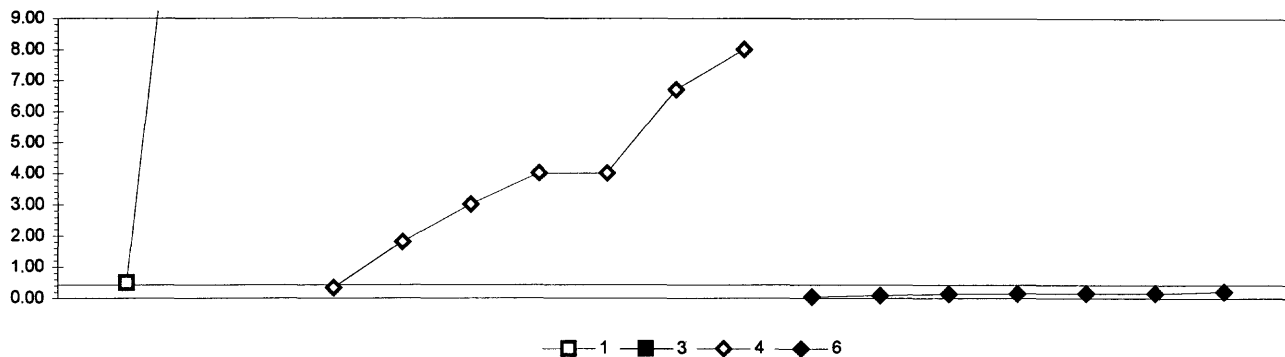
| | |
|-------------------------|------------------------------------|
| 0. Other | 4. ICP |
| 1. AA: direct air | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = | 1 6 32 34 21 |
| Minimum = | 14.0 15.2 0.1 9.4 14.0 |
| Maximum = | 20.0 20.0 158.0 17.6 |
| Median = | 16.6 15.4 16.0 15.8 |
| F-pseudostigma = | 1.7 1.0 0.9 |

MPV = 15.9
F-pseudostigma = 1.2
N = 94
Hu = 16.6
Hl = 15.0

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|---|---|------|-------|------|
| 1 | 4 | -0.42 | | | | | 15.4 |
| 3 | 0 | 119.81 | | | | 158.0 | |
| 4 | 4 | 0.08 | | | | 16.0 | |
| 9 | 4 | -0.17 | | | | 15.7 | |
| 10 | 3 | -0.76 | | | 15.0 | | |
| 11 | 3 | 0.93 | | | | 17.0 | |
| 12 | 3 | 0.93 | | | 17.0 | | |
| 13 | 4 | -0.25 | | | | 15.6 | |
| 16 | 4 | -0.08 | | | | | 15.8 |
| 18 | 3 | -0.76 | | | | 15.0 | |
| 19 | 2 | -1.10 | | | | 14.6 | |
| 23 | 2 | -1.26 | | | 14.4 | | |
| 25 | 4 | 0.08 | | | | 16.0 | |
| 26 | 2 | 1.26 | | | 17.4 | | |
| 30 | 3 | 0.76 | | | | | 16.8 |
| 34 | 4 | 0.08 | | | 16.0 | | |
| 36 | 3 | -0.76 | | | 15.0 | | |
| 39 | 4 | 0.08 | | | | 16.0 | |
| 40 | 4 | 0.34 | | | | 16.3 | |
| 42 | 2 | 1.43 | | | | | 17.6 |
| 46 | 3 | -0.76 | | | 15.0 | | |
| 48 | 4 | 0.25 | | | | | 16.2 |
| 50 | 2 | -1.10 | | | | 14.6 | |
| 59 | 1 | -1.60 | | | | 14.0 | |
| 61 | 4 | 0.25 | | | | 16.2 | |
| 68 | 3 | 0.93 | | | | 17.0 | |
| 69 | 3 | -0.67 | | | 15.1 | | |
| 70 | 0 | 2.11 | | | 18.4 | | |
| 76 | 3 | 0.53 | | | | | 16.5 |
| 80 | 4 | 0.08 | | | 16.0 | | |
| 81 | 4 | 0.08 | | | 16.0 | | |
| 83 | 3 | 0.59 | | | | 16.6 | |
| 85 | 3 | -0.76 | | | | 15.0 | |
| 86 | 4 | 0.17 | | | | 16.1 | |
| 87 | 3 | 0.93 | | | 17.0 | | |
| 89 | 4 | 0.00 | | | 15.9 | | |
| 96 | 2 | 1.18 | | | 17.3 | | |
| 97 | 3 | -0.59 | | | 15.2 | | |
| 105 | 1 | -1.60 | | | | | 14.0 |
| 108 | 0 | -4.89 | | | 10.1 | | |
| 111 | 2 | -1.35 | | | 14.3 | | |
| 113 | 4 | 0.00 | | | | 15.9 | |
| 114 | 0 | 3.46 | | | 20.0 | | |
| 119 | 2 | -1.01 | | | | | 14.7 |
| 121 | 3 | 0.51 | | | | 16.5 | |
| 127 | 4 | -0.08 | | | | 15.8 | |
| 131 | 3 | -0.76 | | | | 15.0 | |
| 133 | 1 | 1.52 | | | | 17.7 | |
| 134 | 4 | -0.50 | | | 15.3 | | |
| 138 | 3 | -0.51 | | | | | 15.3 |

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|------|------|
| 140 | 3 | -0.59 | | 15.2 | | | |
| 141 | 3 | 0.51 | | | | 16.5 | |
| 142 | 4 | -0.17 | | | | | 15.7 |
| 145 | 1 | 1.77 | | | | 18.0 | |
| 146 | 4 | 0.34 | | | | 16.3 | |
| 147 | 4 | -0.34 | | | | | 15.5 |
| 151 | 3 | 0.59 | | | | | 16.6 |
| 154 | 4 | 0.34 | | | 16.3 | | |
| 158 | 4 | -0.17 | | | | 15.7 | |
| 180 | 3 | 0.51 | | | | 16.5 | |
| 183 | 2 | 1.43 | | | 17.6 | | |
| 190 | 0 | -13.32 | | | 0.1 | | |
| 191 | 2 | 1.01 | | | | | 17.1 |
| 193 | 3 | -0.76 | | | 15.0 | | |
| 196 | 4 | -0.08 | | | | | 15.8 |
| 198 | 4 | -0.34 | | | 15.5 | | |
| 212 | 4 | 0.17 | | | | | 16.1 |
| 213 | 0 | -2.78 | | | 12.6 | | |
| 215 | 1 | -1.60 | | | | 14.0 | |
| 217 | 3 | -0.67 | | | | 15.1 | |
| 219 | 1 | -1.60 | 14.0 | | | | |
| 220 | 1 | -1.69 | | | | 13.9 | |
| 221 | 4 | 0.25 | | 16.2 | | | |
| 224 | 3 | -0.51 | | | | 15.3 | |
| 234 | 4 | 0.00 | | | | 15.9 | |
| 235 | 3 | 0.93 | | | | | 17.0 |
| 236 | 3 | 0.93 | | | | 17.0 | |
| 237 | 1 | 1.77 | | | | 18.0 | |
| 241 | 4 | -0.25 | | | 15.6 | | |
| 245 | 3 | -0.59 | | | | | 15.2 |
| 247 | 0 | -11.47 | | | 2.3 | | |
| 252 | 2 | -1.10 | | | 14.6 | | |
| 255 | 4 | 0.38 | | | | 16.4 | |
| 256 | 0 | 2.49 | | | 18.9 | | |
| 257 | 1 | 1.77 | | 18.0 | | | |
| 259 | 3 | -0.76 | | | | 15.0 | |
| 265 | 3 | 0.51 | | | | | 16.5 |
| 273 | 0 | -5.48 | | | | 9.4 | |
| 274 | 0 | -7.04 | | | 7.6 | | |
| 282 | 4 | 0.17 | | | 16.1 | | |
| 284 | 0 | 3.46 | | | 20.0 | | |
| 287 | 2 | 1.05 | | | 17.1 | | |
| 289 | 1 | 1.52 | | | 17.7 | | |
| 292 | 3 | -0.84 | | | 14.9 | | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Co (Cobalt) µg/L



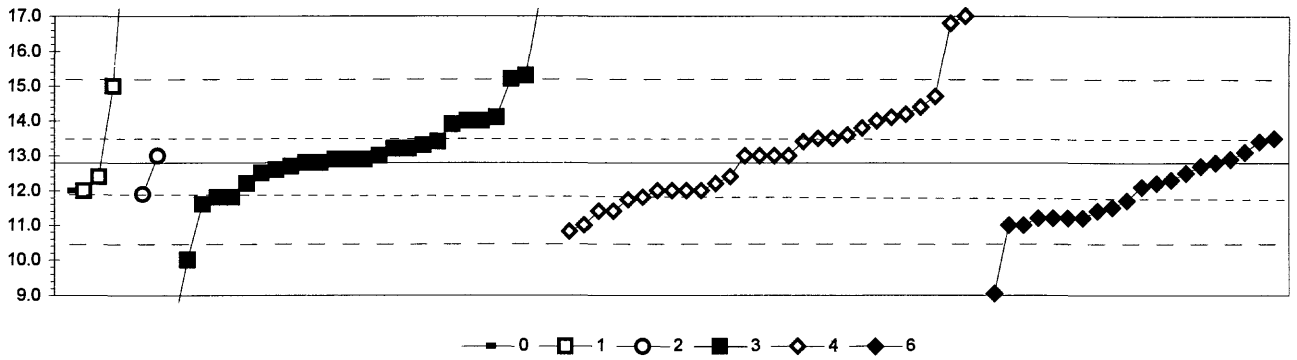
| | | 6. ICP/MS | | | |
|-------------------------|------------------|-----------|--------|------|------|
| 1. AA: direct air | | | | | |
| 3. AA: graphite furnace | | | | | |
| 4. ICP | | | | | |
| | N = | 2 | 0 | 7 | 7 |
| | Minimum = | 0.50 | < 0.04 | 0.33 | 0.04 |
| | Maximum = | 20.00 | < 10 | 8.00 | 0.21 |
| | Median = | | | 4.00 | 0.15 |
| | F-pseudostigma = | | | 2.19 | 0.04 |

MPV = insufficient data
F-pseudostigma =
N = 16
Hu =
Hl =

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|--------|--------|-------|-------|
| 1 | NR | | | | | < 1 |
| 3 | NR | | | | < 5 | |
| 4 | NR | | | < 100 | | |
| 13 | NR | | | < 10 | | |
| 16 | NR | | | | < 1 | |
| 18 | NR | | | < 10 | | |
| 25 | NR | | | < 12 | | |
| 26 | NR | | | < 6 | | |
| 30 | NR | | | | < 1 | |
| 42 | NR | | | | < 2 | |
| 48 | NR | | | | < 50 | |
| 50 | NR | | | | < 1 | |
| 61 | NR | | | < 1.7 | | |
| 68 | NR | | | < 80 | | |
| 70 | NR | | | < 50 | | |
| 81 | NR | | | < 7 | | |
| 85 | NR | | | < 10 | | |
| 89 | NR | | | < 10 | | |
| 97 | NR | | | < 0.5 | | |
| 105 | NR | | | | < 1 | |
| 119 | NR | -0.09 | | | | 0.16 |
| 121 | NR | 1.26 | | | 4.00 | |
| 127 | NR | | | < 0.8 | | |
| 131 | NR | 1.26 | | | 4.00 | |
| 134 | NR | | | | < 1 | |
| 138 | NR | | | | | < 0.5 |
| 141 | NR | | | | < 10 | |
| 142 | NR | | | | | < 1 |
| 145 | NR | 0.91 | | | 3.00 | |
| 146 | NR | | | | < 10 | |
| 147 | NR | -0.12 | | | | 0.08 |
| 180 | NR | | | < 5.22 | | |
| 191 | NR | -0.09 | | | | 0.15 |
| 196 | NR | -0.10 | | | | 0.13 |
| 212 | NR | -0.09 | | | | 0.16 |
| 213 | NR | | | < 0.68 | | |
| 215 | NR | | | < 1 | | |
| 220 | NR | 0.49 | | | 1.80 | |
| 221 | NR | 0.03 | 0.50 | | | |
| 224 | NR | | | | < 3 | |
| 234 | NR | -0.03 | | | 0.33 | |
| 236 | NR | 2.66 | | | 8.00 | |
| 237 | NR | | | | < 10 | |
| 245 | NR | -0.07 | | | | 0.21 |
| 247 | NR | | | | | < 1 |
| 255 | NR | | | | < 4.1 | |
| 256 | NR | | < 50 | | | |
| 257 | NR | | < 0.04 | | | |
| 265 | NR | -0.13 | | | | 0.04 |
| 273 | NR | 2.21 | | | 6.70 | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|-------|---|---|------|
| 282 | NR | | | | | < 20 |
| 284 | NR | 6.87 | 20.00 | | | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Cr (Chromium) $\mu\text{g/L}$

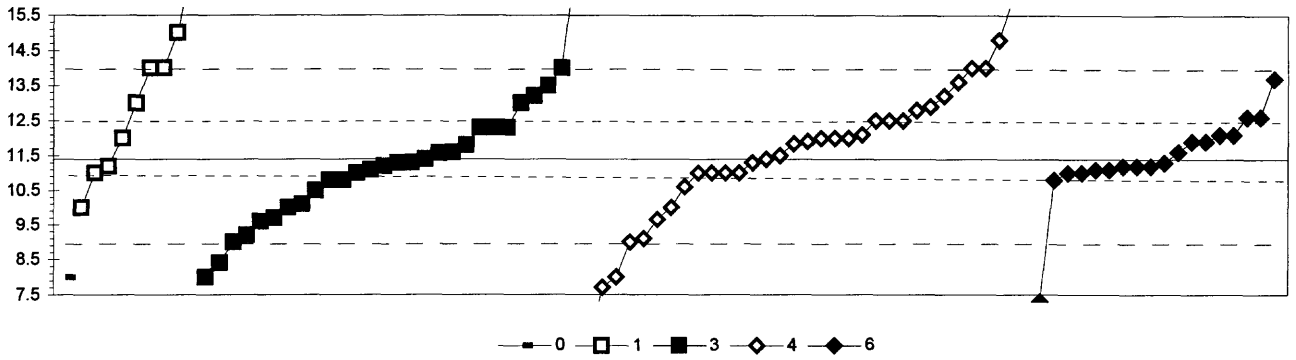


| | | | | | | | | |
|-----------------------------|-------------------------|------------------|------|------|------|------|------|------|
| 0. Other | 3. AA: graphite furnace | | | | | | | |
| 1. AA: direct air | 4. ICP | | | | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | | | | |
| | | N = | 1 | 4 | 2 | 27 | 29 | 20 |
| | | Minimum = | 12.0 | 12.0 | 11.9 | 8.0 | 10.8 | 9.1 |
| | | Maximum = | | 21.0 | 13.0 | 44.5 | 18.0 | 13.5 |
| | | Median = | | | | 12.9 | 13.0 | 11.9 |
| | | F-pseudostigma = | | | | 1.0 | 1.5 | 1.2 |

MPV = 12.8
F-pseudostigma = 1.2
N = 83
Hu = 13.5
Hi = 11.9

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|---|------|------|------|------|------|
| 1 | 2 | -1.14 | | | | | | 11.4 |
| 3 | 4 | 0.16 | | | | | 13.0 | |
| 4 | NR | | | | | | < 40 | |
| 9 | 3 | 0.57 | | | | | 13.5 | |
| 10 | 4 | 0.00 | | | | 12.8 | | |
| 11 | 0 | 4.25 | | | | | 18.0 | |
| 12 | NR | | | | | | < 20 | |
| 13 | 4 | -0.33 | | | | | 12.4 | |
| 16 | 2 | -1.31 | | | | | | 11.2 |
| 18 | 2 | -1.47 | | | | | 11.0 | |
| 19 | 2 | -1.14 | | | | | 11.4 | |
| 23 | 4 | -0.16 | | | | 12.6 | | |
| 25 | 0 | -4.00 | | | | | < 8 | |
| 26 | 4 | 0.33 | | | | 13.2 | | |
| 30 | 4 | -0.25 | | | | | | 12.5 |
| 36 | 4 | 0.49 | | | | 13.4 | | |
| 39 | 4 | -0.49 | | | | 12.2 | | |
| 40 | 3 | -0.65 | | | | | 12.0 | |
| 42 | 2 | -1.31 | | | | | | 11.2 |
| 46 | 4 | -0.25 | | | | 12.5 | | |
| 48 | 3 | -0.57 | | | | | | 12.1 |
| 50 | 2 | -1.31 | | | | | | 11.2 |
| 59 | 2 | -1.47 | | | | | | 11.0 |
| 61 | 3 | 0.57 | | | | | 13.5 | |
| 66 | 4 | 0.16 | | | | | 13.0 | |
| 69 | 3 | -0.98 | | | | 11.6 | | |
| 70 | 2 | 1.14 | | | | | 14.2 | |
| 76 | 4 | -0.48 | | | | | | 12.2 |
| 81 | 4 | 0.16 | | | | 13.0 | | |
| 83 | 4 | 0.49 | | | | | 13.4 | |
| 85 | 0 | -2.29 | | | | | < 10 | |
| 87 | 3 | -0.74 | | | 11.9 | | | |
| 89 | 2 | 1.06 | | | | 14.1 | | |
| 96 | 4 | 0.41 | | | | 13.3 | | |
| 97 | 1 | 1.96 | | | | 15.2 | | |
| 105 | 2 | -1.47 | | | | | | 11.0 |
| 107 | 3 | 0.98 | | | | 14.0 | | |
| 108 | 0 | -2.29 | | | | 10.0 | | |
| 111 | 3 | 0.90 | | | | 13.9 | | |
| 113 | 3 | -0.65 | | | | | 12.0 | |
| 114 | 4 | 0.16 | | | 13.0 | | | |
| 119 | 4 | 0.00 | | | | | | 12.8 |
| 127 | 3 | -0.82 | | | | 11.8 | | |
| 131 | 0 | 3.43 | | | | | 17.0 | |
| 133 | 1 | 1.55 | | | | | 14.7 | |
| 134 | 3 | -0.87 | | | | | 11.7 | |
| 138 | 2 | -1.14 | | | | | 11.4 | |
| 140 | 0 | 6.70 | | 21.0 | | | | |
| 141 | 1 | 2.04 | | | | 15.3 | | |
| 142 | 3 | -0.90 | | | | | | 11.7 |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Cu (Copper) $\mu\text{g/L}$



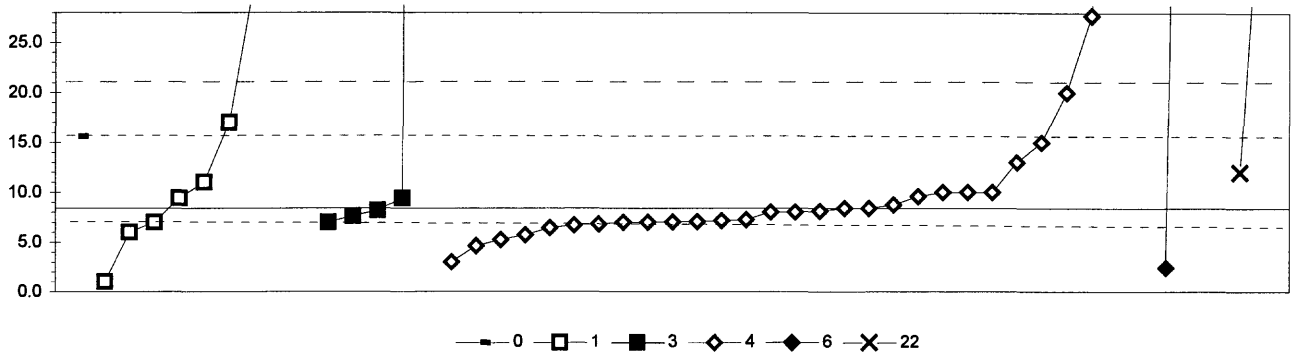
| 0. Other | | 4. ICP | | | | | |
|-------------------------|--|-----------------|-----|------|------|-------|------|
| 1. AA: direct air | | 6. ICP/MS | | | | | |
| 3. AA: graphite furnace | | N = | 1 | 9 | 28 | 33 | 18 |
| | | Minimum = | 8.0 | 10.0 | 8.0 | 6.0 | 7.3 |
| | | Maximum = | | 17.0 | 17.0 | 140.0 | 13.7 |
| | | Median = | | 13.0 | 11.3 | 11.9 | 11.3 |
| | | F-pseudosigma = | | 2.1 | 1.7 | 1.3 | 0.7 |

MPV = 11.4
F-pseudosigma = 1.3
N = 89
Hu = 12.5
Hi = 10.8

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|-------|------|
| 1 | 4 | -0.32 | | | | | 11.0 |
| 3 | 4 | 0.48 | | | | 12.0 | |
| 4 | 0 | -2.94 | | | | 7.7 | |
| 9 | 0 | -4.29 | | | | 6.0 | |
| 10 | 4 | -0.48 | | | 10.8 | | |
| 11 | 0 | 2.06 | | | | 14.0 | |
| 12 | 2 | -1.11 | | | 10.0 | | |
| 13 | NR | | | | | < 20 | |
| 16 | 4 | -0.24 | | | | | 11.1 |
| 18 | 4 | -0.32 | | | | 11.0 | |
| 19 | 1 | -1.90 | | | 9.0 | | |
| 23 | 4 | 0.16 | | | 11.6 | | |
| 25 | 2 | -1.11 | | | | 10.0 | |
| 26 | 4 | -0.08 | | | 11.3 | | |
| 30 | 4 | 0.16 | | | | | 11.6 |
| 36 | 2 | -1.35 | | | 9.7 | | |
| 39 | 3 | 0.87 | | | | 12.5 | |
| 40 | 1 | -1.83 | | | | 9.1 | |
| 42 | 3 | 0.56 | | | | | 12.1 |
| 46 | 3 | 0.71 | | | 12.3 | | |
| 48 | 3 | 0.56 | | | | | 12.1 |
| 50 | 1 | 1.83 | | | | | 13.7 |
| 59 | 0 | 102.05 | | | | 140.0 | |
| 61 | 4 | -0.32 | | | | 11.0 | |
| 68 | 4 | -0.32 | | | | 11.0 | |
| 69 | 1 | -1.75 | | | 9.2 | | |
| 70 | 4 | 0.00 | | | | 11.4 | |
| 80 | 0 | -2.38 | | | 8.4 | | |
| 81 | 4 | -0.32 | | | 11.0 | | |
| 83 | 3 | 0.87 | | | | | 12.5 |
| 84 | 4 | -0.08 | | | 11.3 | | |
| 85 | 0 | 4.44 | | 17.0 | | | |
| 86 | 1 | 1.75 | | | | 13.6 | |
| 87 | 0 | 2.06 | | 14.0 | | | |
| 89 | NR | | | < 10 | | | |
| 96 | 0 | 2.06 | | | 14.0 | | |
| 97 | 1 | 1.67 | | | 13.5 | | |
| 105 | 4 | -0.48 | | | | | 10.8 |
| 107 | 3 | 0.71 | | | 12.3 | | |
| 108 | 4 | 0.48 | | 12.0 | | | |
| 111 | 2 | 1.43 | | | 13.2 | | |
| 113 | 2 | 1.11 | | | | 12.8 | |
| 114 | NR | | < 10 | | | | |
| 119 | 4 | 0.48 | | | | 12.0 | |
| 121 | 0 | 2.06 | | | | 14.0 | |
| 127 | 3 | -0.71 | | | 10.5 | | |
| 131 | 1 | -1.90 | | | | 9.0 | |
| 133 | 3 | -0.63 | | | | 10.6 | |
| 134 | 4 | 0.13 | | | 11.6 | | |
| 138 | 4 | -0.16 | | | | | 11.2 |

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|-----|------|------|------|------|
| 140 | 2 | 1.27 | | 13.0 | | | |
| 141 | 4 | -0.48 | | | 10.8 | | |
| 142 | 4 | -0.24 | | | | | 11.1 |
| 145 | 0 | 3.65 | | | | | 16.0 |
| 146 | NR | | | | | | < 25 |
| 147 | 4 | -0.16 | | | | | 11.2 |
| 149 | 4 | -0.32 | | 11.0 | | | |
| 151 | 3 | 0.95 | | | | | 12.6 |
| 154 | 2 | -1.43 | | | 9.6 | | |
| 158 | 4 | 0.40 | | | | | 11.9 |
| 180 | 2 | 1.19 | | | | | 12.9 |
| 183 | 4 | 0.00 | | | 11.4 | | |
| 190 | 4 | -0.16 | | | 11.2 | | |
| 191 | 4 | 0.40 | | | | | 11.9 |
| 193 | NR | | | < 25 | | | |
| 196 | 4 | 0.40 | | | | | 11.9 |
| 198 | 3 | 0.56 | | | | 12.1 | |
| 212 | 4 | -0.16 | | | | | 11.2 |
| 213 | 4 | 0.32 | | | 11.8 | | |
| 215 | 2 | 1.43 | | | | | 13.2 |
| 217 | 2 | -1.39 | | | | | 9.7 |
| 219 | 0 | -2.70 | 8.0 | | | | |
| 220 | 4 | -0.08 | | | | 11.3 | |
| 221 | 4 | -0.16 | | 11.2 | | | |
| 224 | 0 | 2.70 | | | | | 14.8 |
| 234 | 4 | 0.48 | | | | | 12.0 |
| 235 | 4 | -0.08 | | | | | 11.3 |
| 236 | 0 | -2.70 | | | | 8.0 | |
| 237 | 4 | -0.32 | | | | | 11.0 |
| 241 | 2 | -1.03 | | | 10.1 | | |
| 245 | 4 | -0.32 | | | | | 11.0 |
| 247 | 0 | -3.25 | | | | | 7.3 |
| 252 | 4 | -0.24 | | | 11.1 | | |
| 255 | 4 | 0.35 | | | | 11.8 | |
| 256 | 2 | -1.11 | | 10.0 | | | |
| 257 | 0 | 2.06 | | 14.0 | | | |
| 259 | 4 | 0.08 | | | | 11.5 | |
| 265 | 3 | 0.95 | | | | | 12.6 |
| 273 | 3 | 0.87 | | | | 12.5 | |
| 274 | 0 | 4.44 | | | 17.0 | | |
| 282 | NR | | | | | | < 10 |
| 284 | 0 | -2.70 | | | 8.0 | | |
| 287 | 0 | 2.86 | | 15.0 | | | |
| 289 | 3 | 0.71 | | | | 12.3 | |
| 292 | 2 | 1.27 | | | | 13.0 | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Fe (Iron) $\mu\text{g/L}$



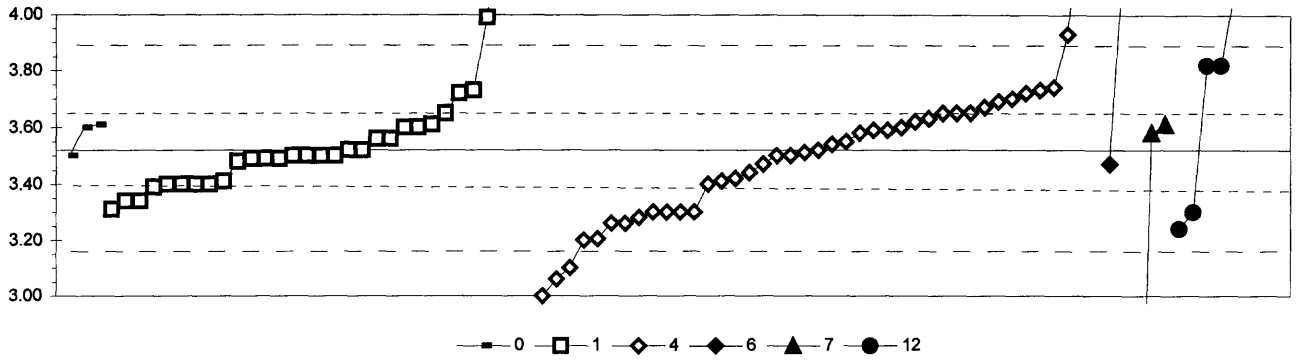
| | | | | | | |
|-------------------------|------------------|------|------|-------|------|-------|
| 0. Other | 4. ICP | | | | | |
| 1. AA: direct air | 6. ICP/MS | | | | | |
| 3. AA: graphite furnace | 22. Colorimetric | | | | | |
| | N = | 1 | 9 | 5 | 29 | 3 |
| | Minimum = | 15.6 | 1.0 | 7.0 | 3.0 | 2.4 |
| | Maximum = | | 63.0 | 453.7 | 60.0 | 170.0 |
| | Median = | | 11.0 | | 8.0 | |
| | F-pseudosigma = | | 17.8 | | 2.2 | |

MPV = 8.4
F-pseudosigma = 6.4
N = 49
Hu = 15.6
Hi = 7.0

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 | 22 |
|-----|--------|---------|-------|------|-----|------|-----|------|
| 1 | NR | | < 10 | | | | | |
| 3 | NR | | | | | < 30 | | |
| 4 | NR | | | | | < 30 | | |
| 10 | 2 | 1.35 | | 17.0 | | | | |
| 12 | 0 | 8.09 | | | | 60.0 | | |
| 13 | NR | | | | | < 10 | | |
| 16 | 4 | 0.00 | | | | 8.4 | | |
| 18 | NR | | | | | < 50 | | |
| 21 | 3 | 0.56 | | | | | | 12.0 |
| 23 | NR | | < 100 | | | | | |
| 25 | NR | | | | | < 6 | | |
| 26 | 4 | -0.50 | | | | 5.2 | | |
| 33 | NR | | < 20 | | | | | |
| 40 | 4 | -0.27 | | | | 6.7 | | |
| 42 | 4 | 0.25 | | | | 10.0 | | |
| 43 | NR | | | | | < 10 | | |
| 48 | NR | | | | | < 30 | | |
| 50 | 3 | -0.94 | | | | | 2.4 | |
| 61 | NR | | | | | < 34 | | |
| 68 | NR | | | | | < 39 | | |
| 69 | NR | | < 50 | | | | | |
| 70 | NR | | | | | < 20 | | |
| 80 | NR | | < 11 | | | | | |
| 81 | NR | | | | | < 9 | | |
| 83 | 4 | -0.05 | | | | 8.1 | | |
| 85 | NR | | | | | < 10 | | |
| 87 | NR | | < 40 | | | | | |
| 89 | NR | | | < 50 | | | | |
| 91 | NR | | | | | < 10 | | |
| 96 | NR | | < 50 | | | | | |
| 97 | 4 | 0.16 | | | 9.4 | | | |
| 105 | NR | | | | | < 10 | | |
| 107 | 0 | 4.96 | | 40.0 | | | | |
| 108 | 0 | 8.56 | | 63.0 | | | | |
| 109 | 4 | 0.16 | | 9.4 | | | | |
| 113 | 4 | -0.31 | | | | 6.4 | | |
| 114 | NR | | < 10 | | | | | |
| 119 | 2 | 1.04 | | | | 15.0 | | |
| 121 | 4 | 0.19 | | | | 9.6 | | |
| 127 | NR | | | | | < 5 | | |
| 129 | 0 | 6.21 | | | | | | 48.0 |
| 131 | 4 | 0.00 | | | | 8.4 | | |
| 133 | 4 | -0.22 | | | | 7.0 | | |
| 134 | 4 | -0.18 | | | | 7.3 | | |
| 138 | 4 | -0.42 | | | | 5.7 | | |
| 140 | 4 | -0.38 | | 6.0 | | | | |
| 141 | NR | | | | | < 50 | | |
| 142 | 3 | 0.72 | | | | 13.0 | | |
| 145 | 4 | -0.22 | | | | 7.0 | | |
| 146 | NR | | | | | < 50 | | |

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 | 22 |
|-----|--------|---------|------|--------|-------|--------|---|-------|
| 147 | 4 | -0.06 | | | | 8.0 | | |
| 149 | NR | | < 10 | | | | | |
| 151 | NR | | | | | | | < 10 |
| 154 | 3 | -0.85 | | | | 3.0 | | |
| 158 | 3 | -0.60 | | | | 4.6 | | |
| 180 | NR | | | | | < 3.33 | | |
| 190 | 2 | 1.13 | 15.6 | | | | | |
| 191 | 0 | 25.35 | | | | | | 170.0 |
| 198 | NR | | | | | < 50 | | |
| 212 | NR | | | | | < 100 | | |
| 213 | 4 | -0.04 | | | 8.2 | | | |
| 215 | 4 | 0.25 | | | | 10.0 | | |
| 217 | 0 | 3.03 | | | | 27.7 | | |
| 218 | 4 | 0.05 | | | | 8.8 | | |
| 220 | 4 | -0.25 | | | | 6.8 | | |
| 221 | 4 | -0.13 | | | 7.6 | | | |
| 224 | 0 | 6.59 | | | | 50.4 | | |
| 234 | 4 | -0.21 | | | | 7.1 | | |
| 235 | NR | | | | | < 10 | | |
| 236 | 4 | -0.22 | | | | 7.0 | | |
| 237 | 1 | 1.82 | | | | 20.0 | | |
| 241 | 4 | -0.22 | | 7.0 | | | | |
| 245 | 0 | 21.74 | | | | | | 147.0 |
| 252 | 2 | -1.16 | | 1.0 | | | | |
| 255 | NR | | | | | < 68 | | |
| 256 | NR | | < 10 | | | | | |
| 257 | NR | | | < 0.02 | | | | |
| 259 | 4 | -0.06 | | | | 8.0 | | |
| 265 | NR | | | | | < 10 | | |
| 273 | 4 | -0.20 | | | | 7.2 | | |
| 274 | 0 | 69.85 | | | 453.7 | | | |
| 282 | NR | | | | | | | < 50 |
| 284 | 4 | 0.41 | | 11.0 | | | | |
| 287 | 0 | 3.55 | | 31.0 | | | | |
| 289 | 4 | -0.22 | | | 7.0 | | | |
| 292 | 4 | 0.25 | | | | 10.0 | | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
K (Potassium) mg/L



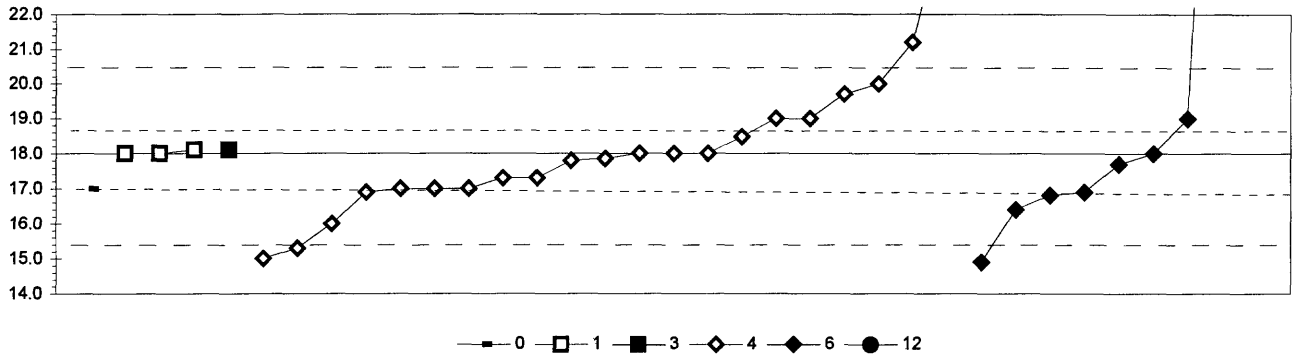
| | |
|-------------------|---|
| 0. Other | 6. ICP/MS |
| 1. AA: direct air | 7. Ion chromatography |
| 4. ICP | 12. Flame emission |
| | N = 3 30 42 2 3 8 |
| | Minimum = 3.50 3.31 1.00 3.47 1.80 3.24 |
| | Maximum = 3.61 5.05 6.14 4.20 3.61 340.00 |
| | Median = 3.50 3.52 3.96 |
| | F-pseudostigma = 0.15 0.26 0.75 |

MPV = 3.52
F-pseudostigma = 0.19
N = 88
Hu = 3.65
HI = 3.40

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|------|------|------|---|--------|------|
| 1 | 4 | -0.22 | | 3.48 | | | | |
| 3 | 0 | -2.26 | | | 3.10 | | | |
| 9 | 3 | -0.65 | | | 3.40 | | | |
| 11 | 3 | 0.81 | | | 3.67 | | | |
| 12 | 0 | -2.80 | | | 3.00 | | | |
| 13 | 3 | 0.92 | | | 3.69 | | | |
| 16 | 4 | 0.43 | | 3.60 | | | | |
| 18 | 2 | -1.18 | | | 3.30 | | | |
| 23 | 3 | -0.97 | | 3.34 | | | | |
| 24 | 2 | -1.40 | | | 3.26 | | | |
| 25 | 4 | 0.38 | | | 3.59 | | | |
| 26 | 4 | 0.32 | | | | | 3.58 | |
| 30 | 2 | -1.18 | | | | | | 3.30 |
| 33 | 4 | 0.43 | 3.60 | | | | | |
| 36 | 4 | -0.11 | | 3.50 | | | | |
| 40 | 4 | -0.27 | | | 3.47 | | | |
| 42 | 3 | 0.71 | | | 3.65 | | | |
| 43 | 4 | -0.11 | | | 3.50 | | | |
| 45 | 4 | 0.48 | 3.61 | | | | | |
| 46 | 3 | 0.70 | | | 3.65 | | | |
| 48 | 4 | -0.43 | | | 3.44 | | | |
| 51 | 1 | 1.62 | | | | | 3.82 | |
| 61 | 0 | 14.11 | | | 6.14 | | | |
| 64 | 2 | 1.08 | | 3.72 | | | | |
| 68 | 4 | 0.43 | | | 3.60 | | | |
| 69 | 1 | 1.62 | | | | | 3.82 | |
| 70 | 4 | 0.11 | | | 3.54 | | | |
| 81 | 4 | 0.38 | | | 3.59 | | | |
| 83 | 4 | 0.48 | | 3.61 | | | | |
| 85 | 4 | 0.22 | | 3.56 | | | | |
| 86 | 3 | -0.54 | | | 3.42 | | | |
| 87 | 3 | -0.70 | | 3.39 | | | | |
| 89 | 3 | -0.97 | | 3.34 | | | | |
| 93 | 1 | -1.51 | | | | | 3.24 | |
| 97 | 4 | -0.16 | | 3.49 | | | | |
| 105 | 3 | 0.54 | | | 3.62 | | | |
| 107 | 4 | -0.16 | | 3.49 | | | | |
| 108 | 0 | 1812 | | | | | 340.00 | |
| 109 | 2 | 1.13 | | 3.73 | | | | |
| 111 | 4 | 0.43 | | 3.60 | | | | |
| 113 | 0 | 2.21 | | | 3.93 | | | |
| 114 | 3 | 0.70 | | 3.65 | | | | |
| 119 | 1 | -1.72 | | | 3.20 | | | |
| 127 | 3 | -0.59 | | | 3.41 | | | |
| 131 | 3 | 0.97 | | | 3.70 | | | |
| 134 | 4 | -0.11 | | 3.50 | | | | |
| 138 | 2 | -1.18 | | | 3.30 | | | |
| 140 | 4 | 0.00 | | 3.52 | | | | |
| 141 | 2 | 1.08 | | | 3.72 | | | |
| 142 | 4 | -0.05 | | | 3.51 | | | |

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|------|------|------|------|------|------|
| 145 | 4 | 0.16 | | | 3.55 | | | |
| 146 | 0 | 5.01 | | | 4.45 | | | |
| 149 | 3 | -0.65 | | 3.40 | | | | |
| 151 | 3 | -0.65 | | 3.40 | | | | |
| 154 | 2 | -1.18 | | | 3.30 | | | |
| 158 | 2 | -1.40 | | | 3.26 | | | |
| 180 | 2 | 1.18 | | | 3.74 | | | |
| 185 | 3 | -0.59 | | 3.41 | | | | |
| 190 | 4 | 0.48 | | | | | 3.61 | |
| 191 | 4 | -0.27 | | | | 3.47 | | |
| 193 | 4 | -0.11 | | 3.50 | | | | |
| 196 | 4 | 0.22 | | 3.56 | | | | |
| 198 | 4 | -0.16 | | 3.49 | | | | |
| 212 | 3 | 0.70 | | | 3.65 | | | |
| 215 | 0 | -13.57 | | | 1.00 | | | |
| 217 | 2 | -1.29 | | | 3.28 | | | |
| 218 | 2 | 1.13 | | | 3.73 | | | |
| 219 | 4 | -0.11 | 3.50 | | | | | |
| 220 | 2 | -1.13 | | 3.31 | | | | |
| 221 | 4 | 0.00 | | 3.52 | | | | |
| 224 | 1 | -1.70 | | | 3.21 | | | |
| 234 | 3 | 0.59 | | | 3.63 | | | |
| 236 | 0 | -2.48 | | | 3.06 | | | |
| 241 | 3 | -0.65 | | 3.40 | | | | |
| 247 | 0 | -9.26 | | | | | 1.80 | |
| 255 | 4 | 0.32 | | | 3.58 | | | |
| 256 | 0 | 4.20 | | | | | | 4.30 |
| 257 | 0 | 3.12 | | | | | | 4.10 |
| 259 | 4 | -0.11 | | 3.50 | | | | |
| 265 | 4 | 0.00 | | | 3.52 | | | |
| 268 | 0 | 5.44 | | 4.53 | | | | |
| 273 | 4 | -0.11 | | | 3.50 | | | |
| 274 | 0 | 7.16 | | | | | | 4.85 |
| 282 | 0 | 3.66 | | | | 4.20 | | |
| 284 | 0 | 2.53 | | 3.99 | | | | |
| 287 | 0 | 8.24 | | 5.05 | | | | |
| 289 | 2 | -1.18 | | | 3.30 | | | |
| 292 | 3 | -0.65 | | 3.40 | | | | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Li (Lithium) $\mu\text{g/L}$



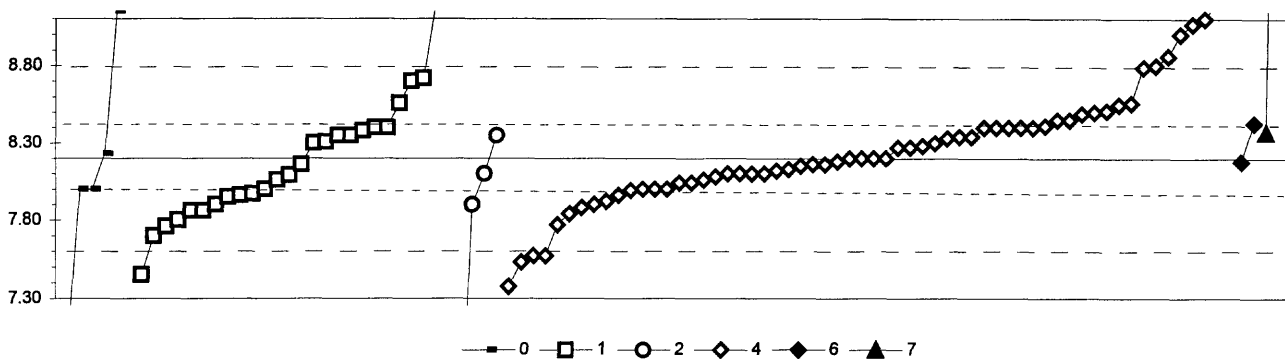
| 0. Other | | 4. ICP | | | | | |
|-------------------------|------------------|--------------------|------|------|------|------|-------|
| 1. AA: direct air | | 6. ICP/MS | | | | | |
| 3. AA: graphite furnace | | 12. Flame emission | | | | | |
| | N = | 1 | 3 | 1 | 21 | 8 | 1 |
| | Minimum = | 17.0 | 18.0 | 18.1 | 15.0 | 14.9 | 120.0 |
| | Maximum = | | 18.1 | | 25.0 | 36.6 | |
| | Median = | | | | 17.9 | 17.3 | |
| | F-pseudostigma = | | | | 1.5 | 1.4 | |

MPV = 18.0
F-pseudostigma = 1.3
N = 35
Hu = 18.7
Hi = 17.0

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 | 12 |
|-----|--------|---------|------|------|------|------|------|-------|
| 1 | 3 | -0.54 | | | | 17.3 | | |
| 3 | 4 | 0.00 | | | | 18.0 | | |
| 4 | NR | | | | | < 20 | | |
| 11 | 0 | -2.33 | | | | 15.0 | | |
| 16 | 0 | -2.40 | | | | | 14.9 | |
| 25 | 3 | 0.78 | | | | 19.0 | | |
| 26 | 4 | -0.16 | | | | 17.8 | | |
| 39 | 3 | -0.85 | | | | 16.9 | | |
| 40 | 3 | -0.78 | | | | 17.0 | | |
| 50 | 2 | -1.24 | | | | | 16.4 | |
| 68 | 4 | 0.00 | | | | 18.0 | | |
| 69 | 4 | 0.08 | | | 18.1 | | | |
| 76 | 3 | -0.92 | | | | | 16.8 | |
| 85 | 4 | 0.00 | | 18.0 | | | | |
| 105 | 0 | -2.09 | | | | 15.3 | | |
| 109 | 4 | 0.08 | | 18.1 | | | | |
| 127 | 3 | -0.54 | | | | 17.3 | | |
| 131 | 2 | 1.32 | | | | 19.7 | | |
| 134 | 4 | 0.37 | | | | 18.5 | | |
| 142 | 3 | 0.78 | | | | 19.0 | | |
| 145 | 4 | 0.00 | | | | 18.0 | | |
| 147 | 4 | -0.23 | | | | | 17.7 | |
| 151 | 3 | -0.85 | | | | | 16.9 | |
| 196 | 3 | 0.78 | | | | | 19.0 | |
| 212 | NR | | | | | < 50 | | |
| 217 | 3 | -0.78 | | | | 17.0 | | |
| 219 | 3 | -0.78 | 17.0 | | | | | |
| 220 | 4 | -0.12 | | | | 17.9 | | |
| 234 | 3 | -0.78 | | | | 17.0 | | |
| 236 | 1 | -1.55 | | | | 16.0 | | |
| 237 | 1 | 1.55 | | | | 20.0 | | |
| 247 | 0 | 14.42 | | | | | 36.6 | |
| 256 | 0 | 79.08 | | | | | | 120.0 |
| 257 | 4 | 0.00 | | 18.0 | | | | |
| 265 | 4 | 0.00 | | | | | 18.0 | |
| 273 | 0 | 2.48 | | | | 21.2 | | |
| 289 | 0 | 5.43 | | | | 25.0 | | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued

Mg (Magnesium) mg/L



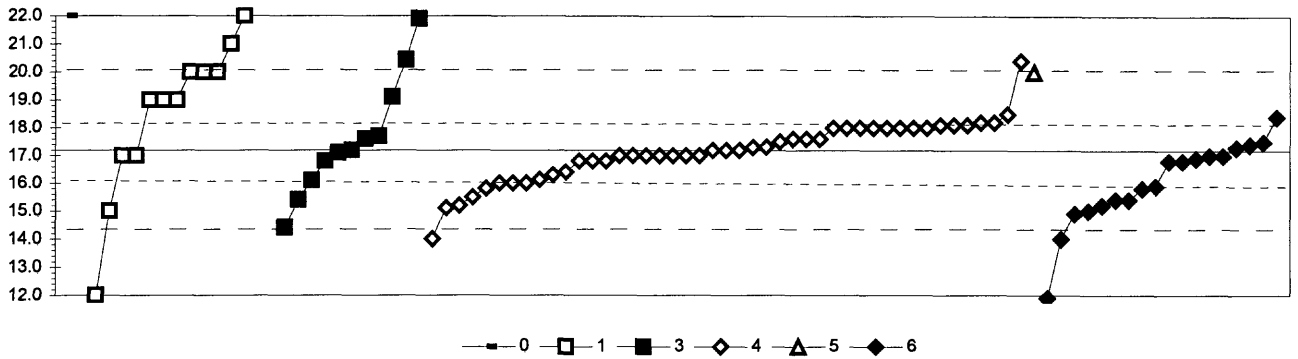
| | | | | | | | |
|-----------------------------|-----------------------|------|-------|------|------|------|-------|
| 0. Other | 4. ICP | | | | | | |
| 1. AA: direct air | 6. ICP/MS | | | | | | |
| 2. AA: direct nitrous oxide | 7. Ion chromatography | | | | | | |
| | N = | 6 | 26 | 4 | 60 | 2 | 2 |
| | Minimum = | 7.00 | 7.45 | 6.20 | 7.37 | 8.18 | 8.37 |
| | Maximum = | 9.30 | 13.00 | 8.35 | 9.40 | 8.43 | 12.80 |
| | Median = | | 8.13 | | 8.20 | | |
| | F-pseudosigma = | | 0.37 | | 0.29 | | |

MPV = 8.20
 F-pseudosigma = 0.30
 N = 100
 Hu = 8.41
 Hl = 8.00

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 | 7 |
|-----|--------|---------|------|-------|------|------|---|---|
| 1 | 3 | -0.53 | | | | 8.04 | | |
| 3 | 4 | -0.40 | | | | 8.08 | | |
| 4 | 3 | 0.67 | | | | 8.40 | | |
| 9 | 4 | 0.00 | | | | 8.20 | | |
| 11 | 1 | 1.97 | | | | 8.79 | | |
| 12 | 0 | 3.00 | | | | 9.10 | | |
| 13 | 4 | 0.27 | | | | 8.28 | | |
| 16 | 3 | 1.00 | | | | 8.50 | | |
| 18 | 3 | -0.67 | | | | 8.00 | | |
| 24 | 2 | -1.07 | | | | 7.88 | | |
| 25 | 4 | 0.43 | | | | 8.33 | | |
| 26 | 3 | 0.83 | | | | 8.45 | | |
| 30 | 4 | -0.33 | | | 8.10 | | | |
| 33 | 4 | 0.10 | 8.23 | | | | | |
| 36 | 1 | 1.73 | | 8.72 | | | | |
| 39 | 4 | -0.13 | | | | 8.16 | | |
| 40 | 4 | 0.23 | | | | 8.27 | | |
| 42 | 0 | 4.00 | | | | 9.40 | | |
| 43 | 4 | -0.33 | | | | 8.10 | | |
| 45 | 3 | -0.67 | 8.00 | | | | | |
| 46 | 3 | -0.80 | | | | 7.96 | | |
| 48 | 4 | -0.13 | | | | 8.16 | | |
| 51 | 4 | -0.13 | | 8.16 | | | | |
| 59 | 3 | 0.67 | | | | 8.40 | | |
| 61 | 0 | 2.20 | | | | 8.86 | | |
| 64 | 2 | -1.20 | | | | 7.84 | | |
| 68 | 4 | 0.00 | | | | 8.20 | | |
| 69 | 4 | 0.33 | | 8.30 | | | | |
| 70 | 4 | 0.47 | | | | 8.34 | | |
| 76 | 4 | 0.36 | | 8.31 | | | | |
| 81 | 2 | 1.03 | | | | 8.51 | | |
| 83 | 0 | -2.23 | | | | 7.53 | | |
| 84 | 3 | -1.00 | | 7.90 | | | | |
| 85 | 3 | 0.67 | | 8.40 | | | | |
| 86 | 4 | -0.17 | | | | 8.15 | | |
| 87 | 2 | -1.47 | | 7.76 | | | | |
| 89 | 2 | -1.13 | | 7.86 | | | | |
| 93 | 3 | 0.70 | | | | 8.41 | | |
| 97 | 3 | -0.83 | | 7.95 | | | | |
| 105 | 3 | -1.00 | | | | 7.90 | | |
| 107 | 4 | -0.37 | | 8.09 | | | | |
| 109 | 3 | 0.60 | | 8.38 | | | | |
| 111 | 3 | -1.00 | | | 7.90 | | | |
| 113 | 0 | 3.36 | | | | 9.21 | | |
| 114 | 4 | 0.50 | | | 8.35 | | | |
| 119 | 3 | 0.67 | | | | 8.40 | | |
| 121 | 3 | -0.67 | | | | 8.00 | | |
| 127 | 3 | -0.70 | | | | 7.99 | | |
| 129 | 0 | 15.99 | | 13.00 | | | | |
| 131 | 0 | -2.10 | | | | 7.57 | | |

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 | 7 |
|-----|--------|---------|------|------|------|---|------|-------|
| 133 | 2 | 1.20 | | | | | | 8.56 |
| 134 | 3 | -0.93 | | | | | | 7.92 |
| 138 | 4 | -0.27 | | | | | | 8.12 |
| 140 | 2 | -1.33 | | 7.80 | | | | |
| 141 | 2 | 1.17 | | | | | | 8.55 |
| 142 | 3 | -0.53 | | | | | | 8.04 |
| 145 | 3 | 0.97 | | | | | | 8.49 |
| 146 | 4 | -0.23 | | | | | | 8.13 |
| 147 | 3 | 0.67 | | | | | | 8.40 |
| 149 | 1 | -1.67 | | 7.70 | | | | |
| 151 | 3 | -0.67 | | 8.00 | | | | |
| 154 | 4 | 0.00 | | | | | | 8.20 |
| 158 | 4 | 0.47 | | | | | | 8.34 |
| 180 | 4 | -0.07 | | | | | | 8.18 |
| 183 | 0 | -6.66 | | | 6.20 | | | |
| 185 | 3 | -0.80 | | 7.96 | | | | |
| 190 | 3 | 0.57 | | | | | | 8.37 |
| 191 | 4 | -0.07 | | | | | 8.18 | |
| 193 | 0 | -2.50 | | 7.45 | | | | |
| 196 | 4 | -0.47 | | 8.06 | | | | |
| 198 | 4 | -0.47 | | | | | | 8.06 |
| 209 | 0 | 2.66 | | | | | | 9.00 |
| 212 | 3 | 0.67 | | | | | | 8.40 |
| 215 | 3 | -0.67 | | | | | | 8.00 |
| 217 | 4 | 0.00 | | | | | | 8.20 |
| 218 | 0 | 2.88 | | | | | | 9.06 |
| 219 | 3 | -0.67 | 8.00 | | | | | |
| 220 | 3 | -0.77 | | 7.97 | | | | |
| 221 | 2 | -1.13 | | 7.86 | | | | |
| 224 | 0 | -2.75 | | | | | | 7.37 |
| 234 | 3 | 0.83 | | | | | | 8.45 |
| 235 | 0 | -2.10 | | | | | | 7.57 |
| 236 | 4 | -0.33 | | | | | | 8.10 |
| 237 | 4 | -0.33 | | | | | | 8.10 |
| 241 | 3 | 0.67 | | 8.40 | | | | |
| 247 | 0 | 15.32 | | | | | | 12.80 |
| 252 | 1 | 1.67 | | 8.70 | | | | |
| 255 | 4 | 0.23 | | | | | | 8.27 |
| 256 | 0 | 3.33 | | 9.20 | | | | |
| 257 | 0 | -4.00 | 7.00 | | | | | |
| 262 | 0 | 3.66 | 9.30 | | | | | |
| 265 | 4 | -0.33 | | | | | | 8.10 |
| 268 | 4 | 0.50 | | 8.35 | | | | |
| 273 | 4 | 0.33 | | | | | | 8.30 |
| 274 | 0 | 3.16 | 9.15 | | | | | |
| 282 | 3 | 0.77 | | | | | | 8.43 |
| 284 | 2 | 1.20 | | 8.56 | | | | |
| 287 | 4 | 0.50 | | 8.35 | | | | |
| 289 | 2 | -1.43 | | | | | | 7.77 |
| 292 | 1 | 2.00 | | | | | | 8.80 |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Mn (Manganese) μg/L



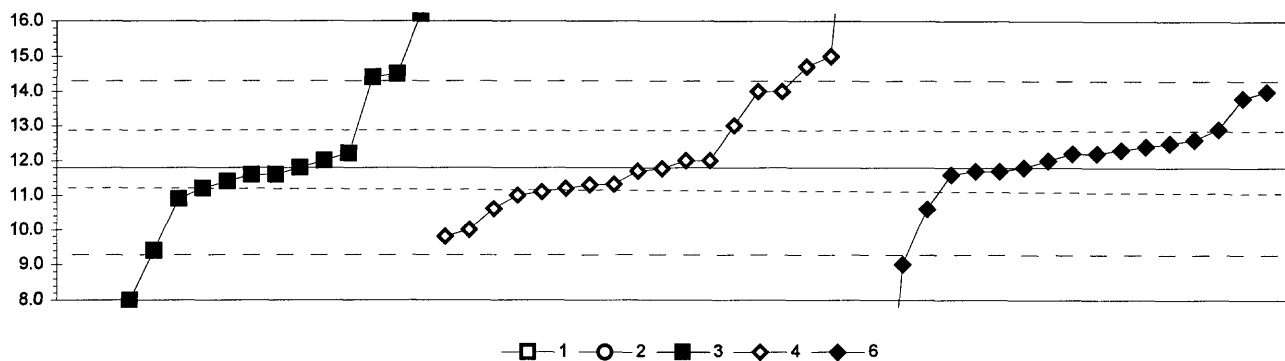
| | | | | | | | |
|-------------------------|-----------|------|------|------|------|------|--|
| 0. Other | 4. ICP | | | | | | |
| 1. AA: direct air | 5. DCP | | | | | | |
| 3. AA: graphite furnace | 6. ICP/MS | | | | | | |
| N = | 1 | 15 | 11 | 45 | 1 | 18 | |
| Minimum = | 22.0 | 10.0 | 14.4 | 14.0 | 20.0 | 11.9 | |
| Maximum = | | 25.0 | 21.9 | 20.4 | | 18.4 | |
| Median = | | 19.0 | 17.2 | 17.2 | | 16.4 | |
| F-pseudostigma = | | 2.6 | 1.5 | 0.9 | | 1.3 | |

MPV = 17.2
F-pseudostigma = 1.4
N = 91
Hu = 18.1
HI = 16.1

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 5 | 6 |
|-----|--------|---------|------|---|------|------|------|------|
| 1 | 3 | -0.91 | | | | | | 15.9 |
| 3 | 3 | 0.56 | | | | 18.0 | | |
| 4 | 4 | -0.14 | | | | 17.0 | | |
| 9 | 0 | 2.23 | | | | 20.4 | | |
| 10 | 1 | 1.95 | 20.0 | | | | | |
| 11 | 3 | 0.56 | | | | 18.0 | | |
| 12 | NR | | | | | < 30 | | |
| 13 | 3 | 0.56 | | | | 18.0 | | |
| 16 | 2 | -1.25 | | | | | | 15.4 |
| 18 | 4 | -0.14 | | | | 17.0 | | |
| 19 | 4 | 0.07 | | | | 17.3 | | |
| 23 | 4 | 0.28 | | | 17.6 | | | |
| 25 | 3 | 0.56 | | | | 18.0 | | |
| 26 | 4 | 0.00 | | | | 17.2 | | |
| 30 | 4 | -0.28 | | | | | | 16.8 |
| 33 | 1 | 1.95 | | | | | 20.0 | |
| 36 | 3 | -0.77 | | | 16.1 | | | |
| 39 | 4 | 0.00 | | | | 17.2 | | |
| 40 | 4 | -0.28 | | | | 16.8 | | |
| 42 | 2 | -1.25 | | | | | | 15.4 |
| 43 | 3 | 0.56 | | | | 18.0 | | |
| 46 | 3 | -0.56 | | | | 16.4 | | |
| 48 | 4 | 0.07 | | | | | | 17.3 |
| 50 | 2 | -1.39 | | | | | | 15.2 |
| 59 | 0 | -2.23 | | | | | | 14.0 |
| 61 | 3 | 0.70 | | | | 18.2 | | |
| 68 | 4 | -0.14 | | | | 17.0 | | |
| 69 | 0 | 2.65 | 21.0 | | | | | |
| 70 | NR | | | | | < 20 | | |
| 80 | 2 | -1.25 | | | 15.4 | | | |
| 81 | 4 | -0.14 | | | | 17.0 | | |
| 83 | 3 | -0.84 | | | | 16.0 | | |
| 84 | 1 | -1.95 | | | 14.4 | | | |
| 85 | 4 | -0.14 | | | 17.0 | | | |
| 86 | 4 | -0.28 | | | | 16.8 | | |
| 87 | 2 | 1.25 | 19.0 | | | | | |
| 89 | 4 | -0.07 | | | 17.1 | | | |
| 91 | 4 | -0.21 | | | | | | 16.9 |
| 96 | NR | | < 20 | | | | | |
| 97 | 4 | 0.00 | | | 17.2 | | | |
| 105 | 1 | -1.60 | | | | | | 14.9 |
| 107 | 2 | 1.25 | 19.0 | | | | | |
| 108 | 1 | 1.95 | 20.0 | | | | | |
| 109 | 4 | -0.14 | 17.0 | | | | | |
| 113 | 3 | -0.63 | | | | 16.3 | | |
| 114 | 0 | 3.35 | 22.0 | | | | | |
| 119 | 3 | 0.56 | | | | 18.0 | | |
| 121 | 3 | 0.56 | | | | 18.0 | | |
| 127 | 3 | 0.63 | | | | 18.1 | | |
| 129 | 0 | -5.02 | 10.0 | | | | | |

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 5 | 6 |
|-----|--------|---------|------|------|------|------|------|------|
| 131 | 4 | 0.28 | | | | 17.6 | | |
| 134 | 4 | -0.27 | | | | 16.8 | | |
| 138 | 3 | -0.98 | | | | | | 15.8 |
| 140 | 1 | -1.53 | | 15.0 | | | | |
| 141 | 4 | 0.28 | | | | 17.6 | | |
| 142 | 3 | -0.84 | | | | 16.0 | | |
| 145 | 3 | 0.56 | | | | 18.0 | | |
| 146 | 3 | 0.63 | | | | 18.1 | | |
| 147 | 3 | 0.84 | | | | | | 18.4 |
| 149 | 0 | -3.63 | | 12.0 | | | | |
| 151 | 4 | -0.28 | | | | | | 16.8 |
| 154 | 0 | -2.23 | | | | 14.0 | | |
| 158 | 4 | 0.00 | | | | 17.2 | | |
| 180 | 4 | 0.21 | | | | 17.5 | | |
| 190 | 0 | 3.28 | | | 21.9 | | | |
| 191 | 4 | -0.14 | | | | | | 17.0 |
| 196 | 4 | -0.14 | | | | | | 17.0 |
| 198 | 3 | 0.91 | | | | 18.5 | | |
| 212 | 2 | -1.46 | | | | 15.1 | | |
| 215 | 4 | -0.14 | | | | 17.0 | | |
| 217 | 3 | 0.63 | | | | 18.1 | | |
| 219 | 0 | 3.35 | 22.0 | | | | | |
| 220 | 3 | -0.75 | | | | 16.1 | | |
| 221 | 4 | 0.35 | | | 17.7 | | | |
| 224 | 4 | 0.28 | | | | 17.6 | | |
| 234 | 3 | 0.70 | | | | 18.2 | | |
| 235 | 2 | -1.19 | | | | 15.5 | | |
| 236 | 3 | -0.84 | | | | 16.0 | | |
| 237 | 4 | -0.14 | | | | 17.0 | | |
| 241 | 2 | 1.25 | | 19.0 | | | | |
| 245 | 1 | -1.53 | | | | | | 15.0 |
| 247 | 0 | -3.69 | | | | | | 11.9 |
| 252 | NR | | | < 40 | | | | |
| 255 | 4 | 0.08 | | | | 17.3 | | |
| 256 | 1 | 1.95 | | 20.0 | | | | |
| 257 | 2 | 1.34 | | | 19.1 | | | |
| 259 | 3 | -0.98 | | | | 15.8 | | |
| 265 | 4 | 0.21 | | | | | | 17.5 |
| 273 | 2 | -1.39 | | | | 15.2 | | |
| 274 | 0 | 2.26 | | | 20.4 | | | |
| 282 | 4 | 0.14 | | | | | | 17.4 |
| 284 | 0 | 5.44 | | 25.0 | | | | |
| 287 | 0 | 4.04 | | 23.0 | | | | |
| 289 | 4 | -0.28 | | | | 16.8 | | |
| 292 | 4 | -0.14 | | | | | 17.0 | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Mo (Molybdenum) µg/L



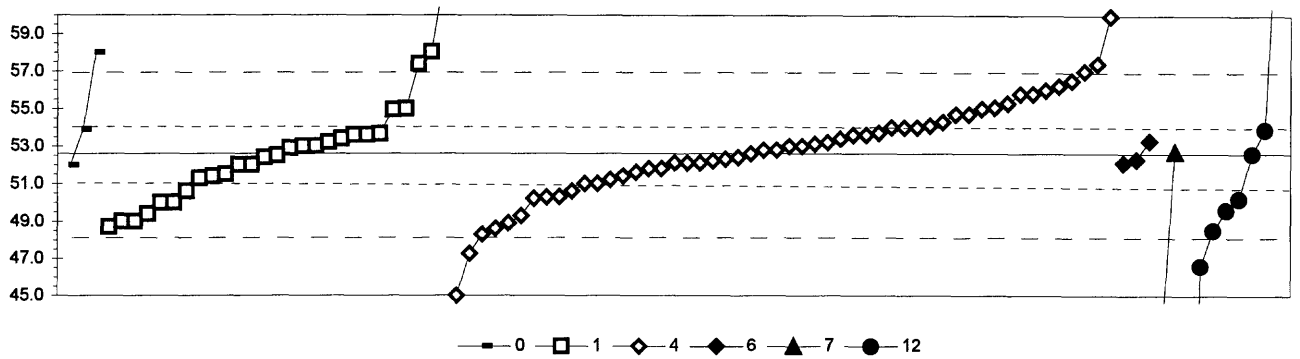
| | |
|-----------------------------|-----------------------------------|
| 1. AA: direct air | 4. ICP |
| 2. AA: direct nitrous oxide | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = | 1 0 13 18 17 |
| Minimum = | 84.0 < 20 8.0 9.8 1.2 |
| Maximum = | |
| Median = | 11.6 11.7 12.2 |
| F-pseudosigma = | 0.7 2.2 0.6 |

MPV = 11.8
F-pseudosigma = 1.3
N = 49
Hu = 12.9
Hi = 11.2

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|---|---|--------|------|------|
| 1 | 3 | -0.71 | | | 10.9 | | |
| 3 | 1 | 1.75 | | | | 14.0 | |
| 4 | NR | | | | < 20 | | |
| 11 | 3 | 0.95 | | | | 13.0 | |
| 12 | NR | | | | < 30 | | |
| 16 | 4 | 0.16 | | | | | 12.0 |
| 18 | NR | | | | < 20 | | |
| 26 | 3 | -0.95 | | | | 10.6 | |
| 30 | 3 | -0.95 | | | | | 10.6 |
| 39 | 0 | -2.22 | | | | | 9.0 |
| 40 | 0 | 7.70 | | | | 21.5 | |
| 42 | 3 | 0.63 | | | | | 12.6 |
| 48 | 3 | 0.87 | | | | | 12.9 |
| 50 | 1 | 1.59 | | | | | 13.8 |
| 61 | NR | | | | < 17.2 | | |
| 68 | 1 | 1.75 | | | | | 14.0 |
| 70 | NR | | | | < 50 | | |
| 81 | 4 | 0.16 | | | | | 12.0 |
| 85 | NR | | | | < 10 | | |
| 87 | 4 | 0.32 | | | 12.2 | | |
| 97 | 4 | -0.48 | | | 11.2 | | |
| 105 | 4 | 0.32 | | | | | 12.2 |
| 108 | 0 | 2.14 | | | 14.5 | | |
| 109 | 4 | -0.32 | | | 11.4 | | |
| 119 | 4 | 0.48 | | | | | 12.4 |
| 127 | 4 | -0.40 | | | | | 11.3 |
| 131 | NR | | | | | | < 15 |
| 134 | 4 | -0.02 | | | | | 11.8 |
| 138 | 4 | -0.48 | | | | | 11.2 |
| 141 | 0 | 2.30 | | | | | 14.7 |
| 142 | 4 | 0.40 | | | | | 12.3 |
| 143 | 4 | 0.00 | | | 11.8 | | |
| 145 | 3 | -0.63 | | | | | 11.0 |
| 146 | 4 | 0.16 | | | | | 12.0 |
| 147 | 3 | 0.56 | | | | | 12.5 |
| 149 | 4 | 0.16 | | | 12.0 | | |
| 151 | 4 | 0.32 | | | | | 12.2 |
| 180 | 1 | -1.59 | | | | | 9.8 |
| 196 | 4 | -0.16 | | | | | 11.6 |
| 212 | 4 | -0.08 | | | | | 11.7 |
| 215 | 4 | -0.16 | | | 11.6 | | |
| 217 | 3 | -0.56 | | | | | 11.1 |
| 221 | 4 | -0.16 | | | 11.6 | | |
| 224 | 0 | -5.23 | | | | | < 5 |
| 234 | 0 | 3.49 | | | 16.2 | | |
| 235 | 4 | 0.00 | | | | | 11.8 |
| 236 | 0 | 2.54 | | | | | 15.0 |
| 237 | NR | | | | | | < 50 |
| 241 | 1 | -1.90 | | | 9.4 | | |
| 245 | 4 | -0.08 | | | | | 11.7 |

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|------|------|
| 247 | 0 | -8.41 | | | | | 1.2 |
| 252 | 0 | -3.02 | | | 8.0 | | |
| 255 | 4 | -0.38 | | | | | 11.3 |
| 257 | NR | | | < 20 | | | |
| 259 | 4 | -0.08 | | | | | 11.7 |
| 265 | 1 | 1.75 | | | | | |
| 282 | NR | | | | | | 14.0 |
| 284 | 0 | 57.29 | 84.0 | | | | < 50 |
| 289 | 0 | 2.06 | | | 14.4 | | |
| 292 | 2 | -1.43 | | | | 10.0 | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)—Continued
Na (Sodium) mg/L



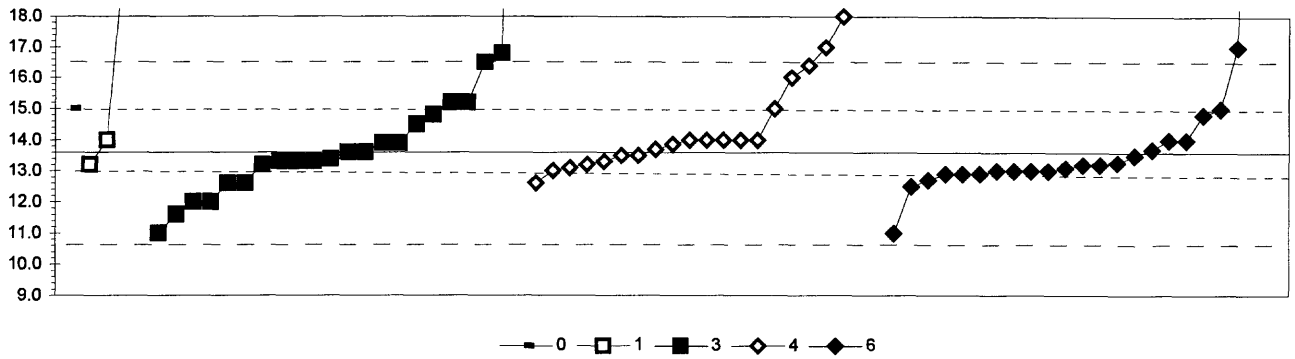
| Method | N | Minimum | Maximum | Median | F-pseudostigma |
|-----------------------|----|---------|---------|--------|----------------|
| 0. Other | | | | | |
| 1. AA: direct air | | | | | |
| 4. ICP | | | | | |
| 6. ICP/MS | 3 | 52.0 | 58.0 | 52.5 | 2.0 |
| 7. Ion chromatography | 27 | 48.7 | 61.9 | 52.9 | 2.4 |
| 12. Flame emission | 52 | 45.0 | 59.9 | 52.9 | 2.4 |
| | 3 | 52.1 | 53.3 | 52.5 | |
| | 2 | 42.8 | 52.7 | 49.9 | |
| | 8 | 10.7 | 66.4 | 49.9 | 4.2 |

MPV = 52.6
F-pseudostigma = 2.2
N = 95
Hu = 54.0
Hi = 51.0

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|------|------|------|------|------|----|
| 1 | 4 | 0.49 | | | 53.7 | | | |
| 3 | 2 | 1.44 | | | 55.8 | | | |
| 4 | 1 | 1.98 | | | 57.0 | | | |
| 9 | 3 | -0.72 | | | 51.0 | | | |
| 11 | 2 | -1.03 | | | 50.3 | | | |
| 12 | 3 | 0.63 | | | 54.0 | | | |
| 13 | 1 | 1.75 | | | 56.5 | | | |
| 16 | 3 | 0.63 | | | 54.0 | | | |
| 18 | 4 | -0.09 | | | 52.4 | | | |
| 23 | 3 | -0.90 | | 50.6 | | | | |
| 24 | 3 | -0.54 | | | 51.4 | | | |
| 25 | 2 | 1.08 | | | 55.0 | | | |
| 26 | 4 | -0.36 | | | 51.8 | | | |
| 33 | 3 | 0.58 | 53.9 | | | | | |
| 36 | 0 | 2.16 | | 57.4 | | | | |
| 39 | 4 | -0.13 | | | 52.3 | | | |
| 40 | 4 | 0.27 | | | 53.2 | | | |
| 42 | 2 | 1.11 | | | 55.1 | | | |
| 43 | 4 | -0.22 | | | 52.1 | | | |
| 45 | 0 | 2.43 | 58.0 | | | | | |
| 46 | 4 | -0.36 | | | 51.8 | | | |
| 48 | 4 | -0.22 | | | | 52.1 | | |
| 51 | 2 | -1.35 | | | | | 49.6 | |
| 59 | 3 | -0.72 | | | 51.0 | | | |
| 61 | 1 | -1.80 | | | 48.6 | | | |
| 64 | 4 | 0.45 | | 53.6 | | | | |
| 68 | 4 | 0.18 | | | 53.0 | | | |
| 69 | 2 | -1.08 | | | | | 50.2 | |
| 70 | 4 | 0.45 | | | 53.6 | | | |
| 76 | 4 | 0.47 | | 53.7 | | | | |
| 81 | 2 | 1.21 | | | 55.3 | | | |
| 83 | 1 | -1.66 | | | 48.9 | | | |
| 84 | 4 | 0.00 | | | | | 52.6 | |
| 85 | 4 | 0.27 | | 53.2 | | | | |
| 86 | 3 | 0.94 | | | 54.7 | | | |
| 87 | 2 | -1.17 | | 50.0 | | | | |
| 89 | 2 | -1.44 | | 49.4 | | | | |
| 93 | 0 | -18.83 | | | | | 10.7 | |
| 97 | 4 | 0.18 | | 53.0 | | | | |
| 105 | 4 | -0.18 | | | 52.2 | | | |
| 109 | 4 | -0.09 | | 52.4 | | | | |
| 111 | 1 | -1.62 | | 49.0 | | | | |
| 113 | 1 | -1.93 | | | 48.3 | | | |
| 114 | 4 | -0.27 | | 52.0 | | | | |
| 119 | 3 | 0.67 | | | 54.1 | | | |
| 121 | 4 | 0.36 | | | 53.4 | | | |
| 127 | 2 | -1.08 | | | 50.2 | | | |
| 129 | 1 | -1.62 | | 49.0 | | | | |
| 131 | 0 | -3.42 | | | 45.0 | | | |
| 134 | 1 | -1.75 | | 48.7 | | | | |

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|---|------|------|------|------|------|
| 138 | 4 | -0.45 | | | 51.6 | | | |
| 140 | 4 | -0.49 | | 51.5 | | | | |
| 141 | 3 | 0.94 | | | 54.7 | | | |
| 142 | 3 | 0.63 | | | 54.0 | | | |
| 145 | 4 | 0.45 | | | 53.6 | | | |
| 146 | 1 | 1.62 | | | 56.2 | | | |
| 147 | 1 | 1.53 | | | 56.0 | | | |
| 149 | 4 | -0.27 | | 52.0 | | | | |
| 151 | 4 | 0.18 | | 53.0 | | | | |
| 154 | 0 | 2.16 | | | 57.4 | | | |
| 158 | 3 | -0.90 | | | 50.6 | | | |
| 180 | 4 | -0.22 | | | 52.1 | | | |
| 185 | 3 | 0.58 | | | | | | 53.9 |
| 190 | 4 | 0.04 | | | | | 52.7 | |
| 191 | 4 | -0.13 | | | | 52.3 | | |
| 193 | 3 | -0.54 | | 51.4 | | | | |
| 196 | 2 | 1.05 | | 54.9 | | | | |
| 198 | 4 | 0.09 | | | 52.8 | | | |
| 212 | 2 | 1.44 | | | 55.8 | | | |
| 215 | 3 | -0.63 | | | 51.2 | | | |
| 217 | 4 | 0.00 | | | 52.6 | | | |
| 218 | 0 | 3.30 | | | 59.9 | | | |
| 219 | 4 | -0.27 | | 52.0 | | | | |
| 220 | 4 | -0.04 | | 52.5 | | | | |
| 221 | 4 | 0.36 | | 53.4 | | | | |
| 224 | 0 | -2.40 | | | 47.3 | | | |
| 234 | 4 | 0.18 | | | 53.0 | | | |
| 236 | 2 | -1.05 | | | 50.3 | | | |
| 237 | 4 | -0.22 | | | 52.1 | | | |
| 241 | 2 | 1.08 | | 55.0 | | | | |
| 247 | 0 | -4.41 | | | | | 42.8 | |
| 252 | 2 | -1.17 | | 50.0 | | | | |
| 255 | 4 | 0.23 | | | 53.1 | | | |
| 256 | 1 | -1.83 | | | | | | 48.5 |
| 257 | 0 | -2.70 | | | | | | 46.6 |
| 259 | 4 | 0.13 | | 52.9 | | | | |
| 265 | 4 | 0.09 | | | 52.8 | | | |
| 268 | 0 | 4.18 | | 61.9 | | | | |
| 273 | 3 | 0.76 | | | 54.3 | | | |
| 274 | 0 | 6.21 | | | | | | 66.4 |
| 282 | 4 | 0.31 | | | | 53.3 | | |
| 284 | 0 | 2.45 | | 58.0 | | | | |
| 287 | 3 | -0.58 | | 51.3 | | | | |
| 289 | 2 | -1.48 | | | 49.3 | | | |
| 292 | 4 | 0.45 | | 53.6 | | | | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Ni (Nickel) $\mu\text{g/L}$



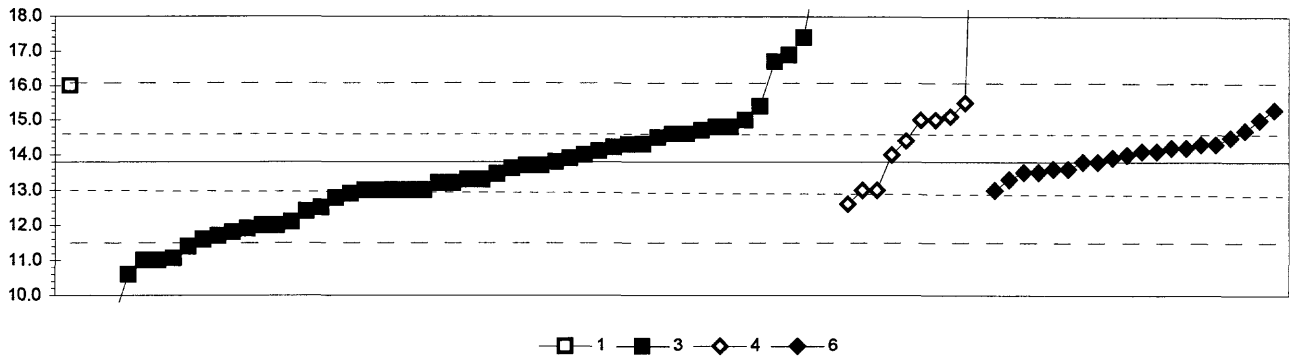
| 0. Other | | 4. ICP | | | | | |
|-------------------------|--|------------------|------|------|------|------|------|
| 1. AA: direct air | | 6. ICP/MS | | | | | |
| 3. AA: graphite furnace | | N = | 1 | 4 | 22 | 21 | 22 |
| | | Minimum = | 15.0 | 13.2 | 11.0 | 12.6 | 11.0 |
| | | Maximum = | | 32.0 | 45.5 | 44.0 | 36.2 |
| | | Median = | | | 13.5 | 14.0 | 13.2 |
| | | F-pseudostigma = | | | 1.6 | 1.9 | 0.8 |

MPV = 13.6
F-pseudostigma = 1.5
N = 70
Hu = 15.0
HI = 13.0

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|---|------|------|------|------|
| 1 | 4 | -0.40 | | | | | 13.0 |
| 3 | 4 | 0.27 | | | | 14.0 | |
| 4 | NR | | | | | < 20 | |
| 9 | 4 | 0.27 | | | | 14.0 | |
| 11 | 0 | 2.29 | | | | 17.0 | |
| 12 | NR | | | | | < 20 | |
| 13 | NR | | | | | < 20 | |
| 16 | 4 | -0.40 | | | | | 13.0 |
| 18 | NR | | | | | < 25 | |
| 19 | 0 | 7.22 | | | | 24.3 | |
| 23 | NR | | | | < 20 | | |
| 25 | NR | | | | | < 49 | |
| 26 | 4 | 0.00 | | | 13.6 | | |
| 30 | 3 | 0.81 | | | | | 14.8 |
| 36 | 2 | -1.35 | | | 11.6 | | |
| 39 | 3 | -0.61 | | | | | 12.7 |
| 42 | 0 | 2.29 | | | | | 17.0 |
| 48 | 4 | 0.27 | | | | | 14.0 |
| 50 | 4 | -0.47 | | | | | 12.9 |
| 59 | 1 | -1.75 | | | | | 11.0 |
| 61 | 3 | -0.67 | | | | 12.6 | |
| 68 | 4 | 0.27 | | | | 14.0 | |
| 69 | 3 | -0.67 | | | 12.6 | | |
| 70 | NR | | | | | < 50 | |
| 76 | 4 | -0.22 | | | | | 13.3 |
| 81 | 2 | -1.08 | | | 12.0 | | |
| 83 | 1 | 1.89 | | | | 16.4 | |
| 85 | 0 | 2.97 | | | | 18.0 | |
| 87 | NR | | | < 15 | | | |
| 89 | 4 | 0.20 | | | 13.9 | | |
| 96 | 3 | 0.81 | | | 14.8 | | |
| 97 | 3 | 0.61 | | | 14.5 | | |
| 105 | 4 | -0.47 | | | | | 12.9 |
| 108 | 1 | -1.75 | | | 11.0 | | |
| 111 | 4 | 0.00 | | | 13.6 | | |
| 113 | 4 | -0.20 | | | | | 13.3 |
| 114 | NR | | | < 10 | | | |
| 119 | 3 | -0.74 | | | | | 12.5 |
| 121 | 3 | 0.94 | | | | | 15.0 |
| 127 | 4 | -0.27 | | | 13.2 | | |
| 131 | 0 | 20.50 | | | | | 44.0 |
| 133 | 4 | -0.07 | | | | | 13.5 |
| 134 | 4 | -0.14 | | | 13.4 | | |
| 138 | 4 | -0.47 | | | | | 12.9 |
| 140 | 4 | 0.27 | | | 14.0 | | |
| 141 | 4 | -0.07 | | | | | 13.5 |
| 142 | 4 | 0.07 | | | | | 13.7 |
| 143 | 4 | -0.20 | | | 13.3 | | |
| 145 | 1 | 1.62 | | | | | 16.0 |
| 146 | NR | | | | | | < 40 |

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|--------|------|
| 147 | 4 | -0.40 | | | | | 13.0 |
| 151 | 4 | -0.34 | | | | | 13.1 |
| 154 | 4 | 0.27 | | | | 14.0 | |
| 158 | 4 | -0.34 | | | | 13.1 | |
| 180 | NR | | | | | < 16.3 | |
| 183 | 2 | 1.08 | | | | 15.2 | |
| 190 | 0 | 2.16 | | | | 16.8 | |
| 191 | 3 | 0.94 | | | | | 15.0 |
| 193 | NR | | | < 50 | | | |
| 196 | 4 | 0.27 | | | | | 14.0 |
| 198 | NR | | | | | < 50 | |
| 212 | 4 | -0.27 | | | | | 13.2 |
| 213 | 4 | -0.27 | | 13.2 | | | |
| 215 | 3 | -0.67 | | | 12.6 | | |
| 219 | 3 | 0.94 | 15.0 | | | | |
| 220 | 4 | 0.07 | | | | | 13.7 |
| 221 | 4 | -0.20 | | | 13.3 | | |
| 224 | NR | | | | | < 24 | |
| 234 | 1 | 1.96 | | | 16.5 | | |
| 235 | 4 | -0.40 | | | | | 13.0 |
| 236 | 4 | -0.40 | | | | 13.0 | |
| 237 | NR | | | | | < 9 | |
| 241 | 4 | 0.20 | | | 13.9 | | |
| 245 | 4 | -0.27 | | | | | 13.2 |
| 247 | 0 | 15.24 | | | | | 36.2 |
| 252 | 2 | 1.08 | | | 15.2 | | |
| 255 | 4 | 0.18 | | | | 13.9 | |
| 256 | 0 | 21.52 | | | 45.5 | | |
| 257 | 0 | 4.32 | | 20.0 | | | |
| 259 | 4 | -0.27 | | | | 13.2 | |
| 265 | 4 | -0.07 | | | | | 13.5 |
| 273 | 4 | 0.27 | | | | 14.0 | |
| 282 | NR | | | | | < 50 | |
| 284 | 2 | -1.08 | | | 12.0 | | |
| 287 | 0 | 12.41 | | 32.0 | | | |
| 289 | 4 | -0.20 | | | 13.3 | | |
| 292 | NR | | | | | < 20 | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Pb (Lead) $\mu\text{g/L}$



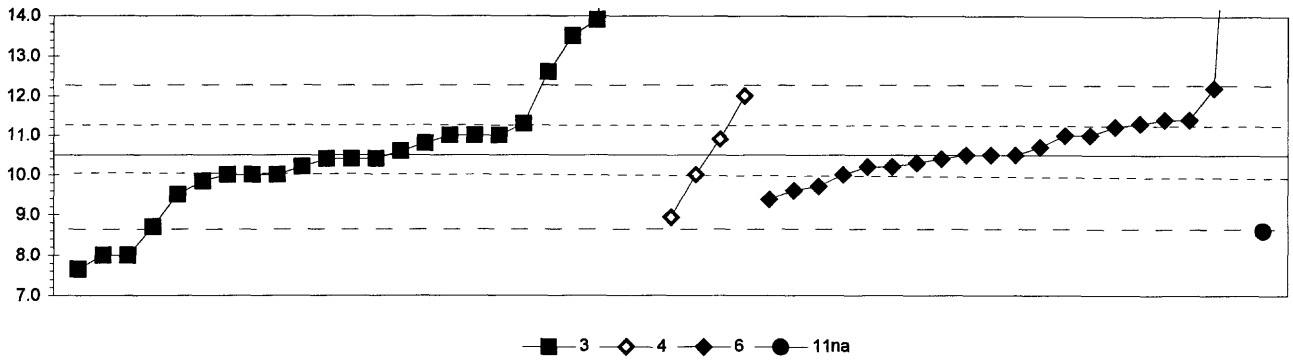
| 1. AA: direct air | | 6. ICP/MS | | | | |
|-------------------------|--|-----------------|------|------|------|------|
| 3. AA: graphite furnace | | N = | 1 | 52 | 10 | 20 |
| 4. ICP | | Minimum = | 16.0 | 8.8 | 12.6 | 13.0 |
| | | Maximum = | | 19.9 | 28.0 | 15.3 |
| | | Median = | | 13.3 | 14.7 | 14.1 |
| | | F-pseudosigma = | | 1.8 | 1.6 | 0.5 |

MPV = 13.8
F-pseudosigma = 1.1
N = 83
Hu = 14.6
Hi = 13.0

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|-------|------|---|
| 1 | 4 | 0.17 | 14.0 | | | |
| 3 | 2 | 1.04 | | 15.0 | | |
| 4 | NR | | | < 200 | | |
| 9 | 2 | 1.04 | | 15.0 | | |
| 10 | 3 | -0.52 | 13.2 | | | |
| 11 | 4 | 0.17 | | 14.0 | | |
| 12 | 0 | -3.455 | < 10 | | | |
| 13 | 4 | 0.09 | 13.9 | | | |
| 16 | 4 | -0.44 | | | 13.3 | |
| 18 | 2 | -1.13 | 12.5 | | | |
| 19 | 1 | -1.57 | 12.0 | | | |
| 23 | 4 | -0.09 | 13.7 | | | |
| 25 | NR | | | < 71 | | |
| 26 | 4 | 0.44 | 14.3 | | | |
| 30 | 4 | 0.00 | | | 13.8 | |
| 34 | 3 | 0.70 | 14.6 | | | |
| 36 | 1 | -1.83 | 11.7 | | | |
| 39 | 0 | -2.44 | 11.0 | | | |
| 42 | 3 | 0.78 | | | 14.7 | |
| 46 | 3 | -0.52 | 13.2 | | | |
| 48 | 4 | 0.44 | | | 14.3 | |
| 50 | 2 | 1.31 | | | 15.3 | |
| 59 | 3 | -0.70 | | | 13.0 | |
| 61 | 3 | -0.70 | | 13.0 | | |
| 68 | 2 | 1.39 | 15.4 | | | |
| 69 | 3 | -0.78 | 12.9 | | | |
| 70 | 0 | 5.31 | 19.9 | | | |
| 76 | 4 | 0.10 | | | 13.9 | |
| 80 | 4 | -0.44 | 13.3 | | | |
| 81 | 3 | -0.70 | | 13.0 | | |
| 84 | 0 | 3.13 | 17.4 | | | |
| 85 | 0 | -3.455 | < 10 | | | |
| 86 | 3 | 0.87 | 14.8 | | | |
| 87 | 0 | 2.52 | 16.7 | | | |
| 89 | 0 | -2.09 | 11.4 | | | |
| 96 | 2 | 1.04 | 15.0 | | | |
| 97 | 3 | 0.70 | 14.6 | | | |
| 105 | 4 | -0.17 | | | 13.6 | |
| 107 | 0 | -2.79 | 10.6 | | | |
| 108 | 2 | -1.22 | 12.4 | | | |
| 109 | 1 | -1.65 | 11.9 | | | |
| 111 | 0 | 5.05 | 19.6 | | | |
| 113 | 3 | 0.78 | 14.7 | | | |
| 114 | 0 | -3.455 | < 10 | | | |
| 119 | 2 | 1.04 | | | 15.0 | |
| 127 | 2 | -1.48 | 12.1 | | | |
| 131 | NR | | | < 30 | | |
| 133 | NR | | | < 20 | | |
| 134 | 3 | -0.89 | 12.8 | | | |
| 138 | 4 | 0.26 | | | 14.1 | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|------|--------|------|
| 140 | 1 | 1.91 | 16.0 | | | |
| 141 | 0 | 2.70 | | 16.9 | | |
| 142 | 4 | -0.26 | | | | 13.5 |
| 145 | 0 | 12.36 | | | 28.0 | |
| 146 | 2 | 1.13 | | | 15.1 | |
| 147 | 4 | 0.00 | | | | 13.8 |
| 149 | 3 | -0.70 | | 13.0 | | |
| 151 | 4 | 0.35 | | | | 14.2 |
| 154 | 3 | 0.61 | | 14.5 | | |
| 158 | 1 | -1.91 | | 11.6 | | |
| 180 | NR | | | | < 31.9 | |
| 183 | 0 | -3.92 | | 9.3 | | |
| 190 | 4 | -0.09 | | 13.7 | | |
| 191 | 3 | 0.61 | | | | 14.5 |
| 193 | 4 | 0.00 | | 13.8 | | |
| 196 | 4 | -0.26 | | | | 13.5 |
| 198 | 4 | -0.44 | | 13.3 | | |
| 212 | 4 | 0.35 | | | | 14.2 |
| 213 | 3 | 0.87 | | 14.8 | | |
| 215 | 3 | -0.70 | | 13.0 | | |
| 217 | 4 | 0.26 | | | | 14.1 |
| 221 | 4 | 0.26 | | 14.1 | | |
| 224 | 4 | -0.30 | | 13.5 | | |
| 234 | 3 | 0.52 | | | 14.4 | |
| 235 | 4 | 0.44 | | | | 14.3 |
| 236 | NR | | | | < 19 | |
| 237 | NR | | | | < 40 | |
| 241 | 1 | -1.74 | | 11.8 | | |
| 245 | 4 | 0.17 | | | | 14.0 |
| 247 | 0 | -4.35 | | 8.8 | | |
| 252 | 1 | -1.57 | | 12.0 | | |
| 255 | 4 | -0.17 | | 13.6 | | |
| 256 | 0 | -4.21 | | 9.0 | | |
| 257 | 4 | 0.43 | | 14.3 | | |
| 259 | 2 | -1.04 | | | 12.6 | |
| 265 | 4 | -0.17 | | | | 13.6 |
| 273 | 2 | 1.48 | | | 15.5 | |
| 274 | 0 | -2.38 | | 11.1 | | |
| 282 | 0 | -2.44 | | 11.0 | | |
| 284 | 3 | -0.70 | | 13.0 | | |
| 287 | 4 | 0.36 | | 14.2 | | |
| 289 | 3 | -0.70 | | 13.0 | | |
| 292 | 3 | -0.70 | | 13.0 | | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
 Sb (Antimony) μg/L



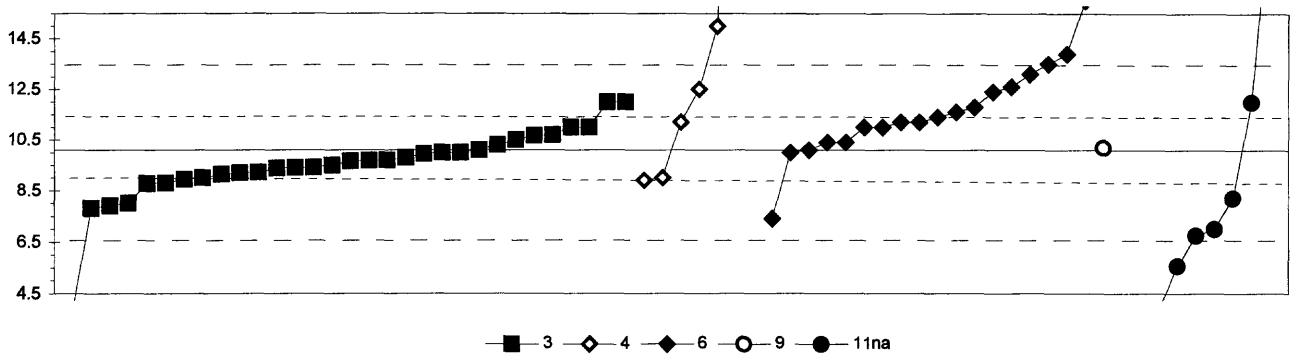
| 3. AA: graphite furnace | | 11na. AA: hydride NaBH ₄ | | | |
|-------------------------|-----------------|-------------------------------------|-------|-------|------|
| 4. ICP | | | | | |
| 6. ICP/MS | | | | | |
| | N = | 24 | 4 | 20 | 1 |
| | Minimum = | 7.65 | 8.93 | 9.37 | 8.60 |
| | Maximum = | 25.00 | 12.00 | 22.00 | |
| | Median = | 10.40 | | 10.50 | |
| | F-pseudosigma = | 0.91 | | 0.79 | |

MPV = 10.5
 F-pseudosigma = 0.9
 N = 49
 Hu = 11.2
 Hi = 10.0

| Lab | Rating | Z-value | 3 | 4 | 6 | 11na |
|-----|--------|---------|------|--------|------|------|
| 1 | 3 | 0.55 | 11.0 | | | |
| 3 | 3 | -0.55 | | 10.0 | | |
| 13 | 0 | 2.32 | 12.6 | | | |
| 16 | 3 | -0.88 | | | 9.7 | |
| 18 | 1 | -1.99 | 8.7 | | | |
| 25 | NR | | | < 51 | | |
| 30 | 0 | 12.72 | | | 22.0 | |
| 36 | 2 | -1.11 | 9.5 | | | |
| 39 | 4 | -0.33 | | | 10.2 | |
| 42 | 3 | 1.00 | | | 11.4 | |
| 48 | 4 | 0.22 | | | 10.7 | |
| 50 | 4 | -0.11 | | | 10.4 | |
| 59 | 3 | -0.55 | | | 10.0 | |
| 61 | 0 | -3.22 | | < 7.6 | | |
| 68 | 0 | 3.76 | 13.9 | | | |
| 69 | 0 | -3.15 | 7.7 | | | |
| 70 | 0 | 3.32 | 13.5 | | | |
| 76 | 3 | 0.80 | | | 11.2 | |
| 81 | 0 | -2.76 | 8.0 | | | |
| 89 | 4 | 0.33 | 10.8 | | | |
| 96 | 3 | -0.55 | 10.0 | | | |
| 97 | 4 | -0.11 | 10.4 | | | |
| 105 | 3 | -1.00 | | | 9.6 | |
| 113 | 4 | 0.44 | | 10.9 | | |
| 119 | 3 | 0.55 | | | 11.0 | |
| 127 | 3 | 0.88 | 11.3 | | | |
| 131 | 1 | 1.66 | | 12.0 | | |
| 134 | 3 | -0.73 | 9.8 | | | |
| 138 | 4 | 0.00 | | | 10.5 | |
| 141 | 0 | -2.76 | 8.0 | | | |
| 142 | 1 | 1.88 | | | 12.2 | |
| 146 | NR | | | < 50 | | |
| 147 | 4 | 0.00 | | | 10.5 | |
| 149 | 3 | -0.55 | 10.0 | | | |
| 151 | 3 | 0.88 | | | 11.3 | |
| 154 | 3 | -0.55 | 10.0 | | | |
| 180 | NR | | | < 27.8 | | |
| 193 | 3 | 0.55 | 11.0 | | | |
| 196 | 4 | -0.33 | | | 10.2 | |
| 198 | 4 | -0.11 | 10.4 | | | |
| 212 | 2 | -1.25 | | | 9.4 | |
| 215 | 0 | -3.89 | < 7 | | | |
| 217 | 4 | -0.22 | | | 10.3 | |
| 234 | 1 | -1.74 | | 8.9 | | |
| 235 | 3 | 1.00 | | | 11.4 | |
| 236 | NR | | | < 100 | | |
| 241 | 4 | -0.11 | 10.4 | | | |
| 245 | 4 | 0.00 | | | 10.5 | |
| 247 | 0 | 9.73 | 19.3 | | | |
| 252 | 4 | -0.33 | 10.2 | | | |

| Lab | Rating | Z-value | 3 | 4 | 6 | 11na |
|-----|--------|---------|------|------|------|------|
| 255 | NR | | | < 24 | | |
| 257 | 4 | 0.11 | 10.6 | | | |
| 265 | 3 | 0.55 | | | 11.0 | |
| 282 | 0 | -2.10 | | | | 8.6 |
| 284 | 0 | 16.03 | 25.0 | | | |
| 292 | 3 | 0.55 | 11.0 | | | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Se (Selenium) µg/L



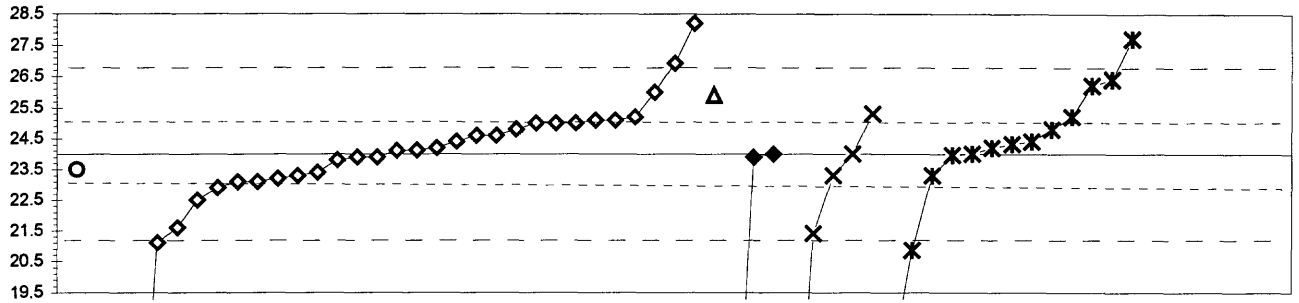
| 3. AA: graphite furnace | | 9. Atomic fluorescence | | | | | |
|-------------------------|--|-------------------------------------|------|------|------|------|---|
| 4. ICP | | 11na. AA: hydride NaBH ₄ | | | | | |
| 6. ICP/MS | | N = | 31 | 7 | 18 | 1 | 9 |
| Minimum = | | 3.9 | 8.9 | 7.4 | 10.2 | 3.2 | |
| Maximum = | | 12.0 | 93.0 | 16.0 | | 20.0 | |
| Median = | | 9.7 | 12.5 | 11.3 | | 6.8 | |
| F-pseudostigma = | | 0.8 | 11.8 | 1.6 | | 3.2 | |

MPV = 10.1
F-pseudostigma = 1.8
N = 66
Hu = 11.4
HI = 9.0

| Lab | Rating | Z-value | 3 | 4 | 6 | 9 | 11na |
|-----|--------|---------|--------|-------|------|---|------|
| 1 | 4 | -0.37 | 9.4 | | | | |
| 3 | NR | | | < 10 | | | |
| 13 | 3 | -0.70 | 8.8 | | | | |
| 16 | 3 | 0.98 | | | 11.8 | | |
| 18 | 2 | 1.10 | 12.0 | | | | |
| 23 | 1 | -1.85 | | | | | 6.8 |
| 25 | NR | | | < 129 | | | |
| 26 | 2 | -1.04 | | | | | 8.2 |
| 30 | 0 | 3.34 | | | 16.0 | | |
| 34 | 3 | -0.72 | 8.8 | | | | |
| 36 | 2 | -1.21 | 7.9 | | | | |
| 39 | 2 | 1.10 | | | | | 12.0 |
| 42 | 0 | 2.16 | | | 13.9 | | |
| 46 | 3 | 0.53 | 11.0 | | | | |
| 48 | 3 | 0.76 | | | 11.4 | | |
| 50 | 3 | 0.53 | | | 11.0 | | |
| 59 | 4 | -0.03 | | | 10.0 | | |
| 61 | 3 | -0.65 | | 8.9 | | | |
| 68 | 0 | -3.46 | 3.9 | | | | |
| 69 | 4 | -0.06 | 10.0 | | | | |
| 70 | NR | | < 10 | | | | |
| 80 | 3 | 0.53 | 11.0 | | | | |
| 81 | 3 | -0.59 | | 9.0 | | | |
| 85 | 1 | -1.71 | | | | | 7.0 |
| 86 | 0 | -2.51 | | | | | 5.6 |
| 87 | 0 | -3.46 | | | | | 3.9 |
| 89 | 0 | -3.69 | | | | | 3.5 |
| 96 | 4 | -0.37 | 9.4 | | | | |
| 97 | 3 | -0.51 | 9.1 | | | | |
| 105 | 3 | 0.65 | | | 11.2 | | |
| 108 | 0 | 5.59 | | | | | 20.0 |
| 109 | 4 | -0.14 | 9.8 | | | | |
| 111 | 2 | -1.26 | 7.8 | | | | |
| 113 | 4 | 0.03 | 10.1 | | | | |
| 119 | 4 | 0.03 | | | 10.1 | | |
| 127 | 4 | 0.37 | 10.7 | | | | |
| 131 | 0 | 2.78 | | 15.0 | | | |
| 133 | 4 | -0.22 | 9.7 | | | | |
| 134 | 4 | 0.35 | 10.7 | | | | |
| 138 | 3 | 0.65 | | | 11.2 | | |
| 141 | 3 | -0.62 | 8.9 | | | | |
| 142 | 2 | 1.32 | | | 12.4 | | |
| 143 | 4 | -0.20 | 9.7 | | | | |
| 146 | 2 | 1.38 | | 12.5 | | | |
| 147 | 4 | 0.20 | | | 10.4 | | |
| 151 | 3 | 0.87 | | | 11.6 | | |
| 154 | 4 | -0.31 | 9.5 | | | | |
| 180 | NR | | < 53.2 | | | | |
| 193 | 3 | -0.59 | 9.0 | | | | |
| 196 | 1 | 1.71 | | | 13.1 | | |

| Lab | Rating | Z-value | 3 | 4 | 9 | 6 | 11na |
|-----|--------|---------|------|------|------|------|------|
| 198 | NR | | < 20 | | | | |
| 212 | 3 | 0.53 | | | 11.0 | | |
| 215 | 2 | 1.10 | 12.0 | | | | |
| 217 | 4 | 0.20 | | | 10.4 | | |
| 220 | 4 | 0.14 | 10.3 | | | | |
| 221 | 4 | -0.48 | 9.2 | | | | |
| 224 | 0 | 15.15 | | 37.0 | | | |
| 234 | 4 | -0.20 | 9.7 | | | | |
| 235 | 4 | 0.08 | | | | 10.2 | |
| 236 | 0 | 46.62 | | 93.0 | | | |
| 241 | 4 | 0.25 | 10.5 | | | | |
| 245 | 2 | 1.43 | | | 12.6 | | |
| 247 | 2 | -1.49 | | | 7.4 | | |
| 252 | 4 | -0.47 | 9.2 | | | | |
| 255 | 4 | -0.38 | 9.4 | | | | |
| 256 | 0 | -3.85 | | | | | 3.2 |
| 259 | 3 | 0.65 | | 11.2 | | | |
| 265 | 1 | 1.94 | | | 13.5 | | |
| 282 | 0 | -2.84 | | | | | < 5 |
| 284 | 4 | -0.03 | 10.0 | | | | |
| 289 | 2 | -1.15 | 8.0 | | | | |
| 292 | 4 | -0.03 | 10.0 | | | | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
SiO₂ (Silica) mg/L



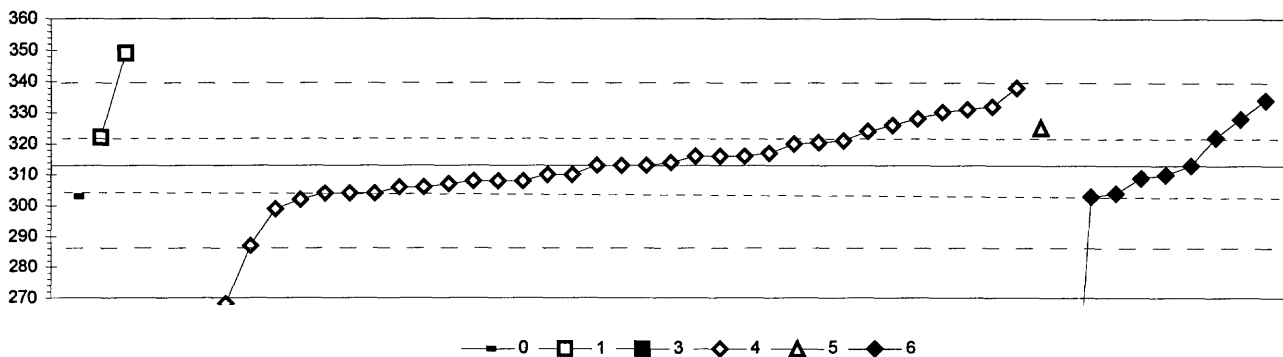
| | |
|-----------------------------|---|
| 2. AA: direct nitrous oxide | 6. ICP/MS |
| 4. ICP | 22. Colorimetric |
| 5. DCP | 22mb. Color: molybdate blue |
| | N = 1 31 1 3 5 13 |
| | Minimum = 23.5 11.9 25.9 11.7 11.7 17.4 |
| | Maximum = 28.2 28.2 24.0 25.3 27.7 |
| | Median = 24.1 24.3 |
| | F-pseudostigma = 1.4 0.9 |

MPV = 24.0
F-pseudostigma = 1.4
N = 54
Hu = 25.0
HI = 23.1

| Lab | Rating | Z-value | 2 | 4 | 5 | 6 | 22 | 22mb |
|-----|--------|---------|------|------|------|------|------|------|
| 1 | 4 | 0.14 | | 24.2 | | | | |
| 3 | 3 | 0.78 | | 25.1 | | | | |
| 4 | 3 | 0.71 | | 25.0 | | | | |
| 11 | 3 | -0.64 | | 23.1 | | | | |
| 13 | 3 | 0.85 | | 25.2 | | | | |
| 24 | 3 | 0.71 | | 25.0 | | | | |
| 25 | 0 | -8.45 | | 12.1 | | | | |
| 26 | 3 | 0.78 | | 25.1 | | | | |
| 33 | 2 | 1.35 | | | 25.9 | | | |
| 40 | 2 | -1.07 | | 22.5 | | | | |
| 42 | 0 | 2.07 | | 26.9 | | | | |
| 43 | 4 | -0.07 | | 23.9 | | | | |
| 61 | 0 | -8.59 | | 11.9 | | | | |
| 64 | 4 | -0.43 | | 23.4 | | | | |
| 70 | 4 | 0.28 | | | | | | 24.4 |
| 81 | 1 | 1.70 | | | | | | 26.4 |
| 83 | 1 | -1.70 | | 21.6 | | | | |
| 87 | 4 | -0.50 | | | | | | 23.3 |
| 89 | 4 | 0.00 | | | | | | 24.0 |
| 97 | 4 | -0.50 | | | | | 23.3 | |
| 104 | 3 | 0.86 | | | | | | 25.2 |
| 105 | 4 | 0.43 | | 24.6 | | | | |
| 107 | 3 | 0.57 | | | | | | 24.8 |
| 111 | 4 | -0.03 | | | | | | 24.0 |
| 113 | 3 | 0.92 | | | | | 25.3 | |
| 119 | 2 | 1.42 | | 26.0 | | | | |
| 121 | 4 | -0.14 | | 23.8 | | | | |
| 127 | 3 | -0.78 | | 22.9 | | | | |
| 129 | 4 | 0.23 | | | | | | 24.3 |
| 131 | 4 | 0.28 | | 24.4 | | | | |
| 134 | 4 | 0.09 | | 24.1 | | | | |
| 138 | 4 | 0.14 | | | | | | 24.2 |
| 140 | 4 | 0.00 | | | | 24.0 | | |
| 142 | 0 | 2.98 | | 28.2 | | | | |
| 145 | 3 | 0.71 | | 25.0 | | | | |
| 147 | 4 | 0.43 | | 24.6 | | | | |
| 185 | 0 | 2.63 | | | | | | 27.7 |
| 190 | 0 | -8.73 | | | | 11.7 | | |
| 191 | 4 | -0.07 | | | 23.9 | | | |
| 204 | 1 | 1.56 | | | | | | 26.2 |
| 212 | 4 | 0.07 | | 24.1 | | | | |
| 215 | 0 | -2.06 | | 21.1 | | | | |
| 217 | 4 | -0.50 | | 23.3 | | | | |
| 234 | 3 | 0.57 | | 24.8 | | | | |
| 236 | 0 | -8.38 | | 12.2 | | | | |
| 237 | 3 | -0.57 | | 23.2 | | | | |
| 241 | 4 | -0.36 | 23.5 | | | | | |
| 256 | 1 | -1.85 | | | | 21.4 | | |
| 265 | 4 | 0.00 | | | 24.0 | | | |
| 273 | 3 | -0.64 | | 23.1 | | | | |

| Lab | Rating | Z-value | 2 | 4 | 5 | 6 | 22 | 22mb |
|-----|--------|---------|---|------|---|------|----|------|
| 274 | 0 | -2.23 | | | | | | 20.9 |
| 282 | 0 | -8.73 | | | | 11.7 | | |
| 284 | 0 | -4.69 | | | | | | 17.4 |
| 289 | 4 | -0.07 | | 23.9 | | | | |

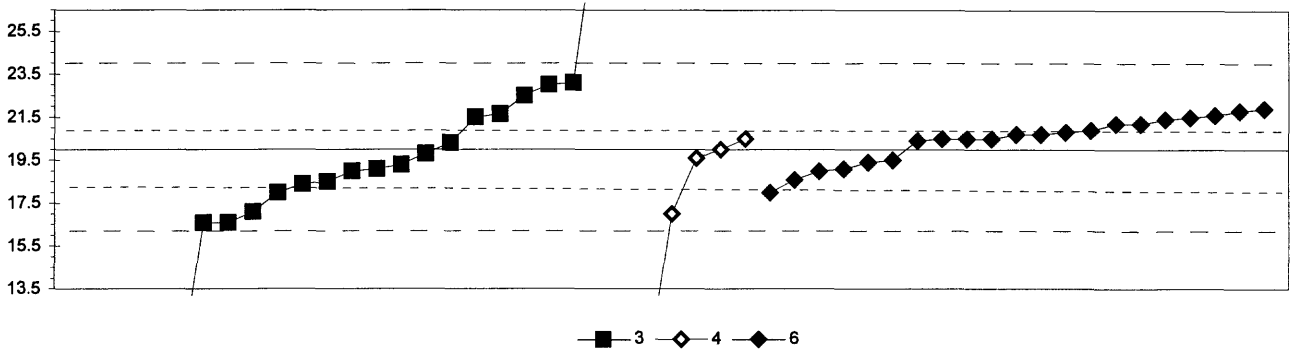
Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
Sr (Strontium) μg/L



| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 5 | 6 |
|-----|--------|---------|-----|-----|-----|-----|-----|-----|
| 1 | 3 | -0.67 | | | | | | 304 |
| 3 | 1 | 1.87 | | | | 338 | | |
| 9 | 1 | -1.95 | | | | 287 | | |
| 11 | 3 | 0.55 | | | | 320 | | |
| 16 | 2 | -1.05 | | | | 299 | | |
| 18 | 3 | -0.67 | | | | 304 | | |
| 24 | 4 | 0.00 | | | | 313 | | |
| 25 | 2 | 1.12 | | | | 328 | | |
| 33 | 3 | 0.90 | | | | | 325 | |
| 39 | 3 | -0.67 | | | | 304 | | |
| 40 | 0 | -21.64 | | | | 24 | | |
| 42 | 3 | 0.97 | | | | 326 | | |
| 50 | 2 | 1.12 | | | | | | 328 |
| 68 | 4 | -0.22 | | | | 310 | | |
| 70 | 4 | 0.30 | | | | 317 | | |
| 81 | 3 | 0.82 | | | | 324 | | |
| 85 | 2 | 1.35 | | | | 331 | | |
| 86 | 4 | -0.22 | | | | 310 | | |
| 97 | 0 | -4.57 | | | 252 | | | |
| 105 | 4 | 0.22 | | | | 316 | | |
| 109 | 0 | 2.70 | | 349 | | | | |
| 113 | 4 | 0.00 | | | | 313 | | |
| 119 | 0 | -10.12 | | | | | | 178 |
| 121 | 4 | 0.22 | | | | 316 | | |
| 127 | 3 | -0.52 | | | | 306 | | |
| 131 | 0 | -23.21 | | | | 3 | | |
| 134 | 4 | -0.37 | | | | 308 | | |
| 138 | 4 | -0.37 | | | | 308 | | |
| 142 | 3 | 0.60 | | | | 321 | | |
| 145 | 4 | 0.22 | | | | 316 | | |
| 147 | 4 | -0.30 | | | | | | 309 |
| 151 | 3 | 0.67 | | | | | | 322 |
| 154 | 3 | -0.82 | | | | 302 | | |
| 191 | 4 | -0.22 | | | | | | 310 |
| 196 | 4 | 0.00 | | | | | | 313 |
| 212 | 4 | 0.00 | | | | 313 | | |
| 217 | 3 | 0.52 | | | | 320 | | |
| 218 | 2 | 1.29 | | | | 330 | | |
| 219 | 3 | -0.75 | 303 | | | | | |
| 234 | 4 | 0.07 | | | | 314 | | |
| 235 | 0 | -3.37 | | | | 268 | | |
| 236 | 3 | -0.67 | | | | 304 | | |
| 237 | 4 | -0.45 | | | | 307 | | |
| 247 | 1 | 1.57 | | | | | | 334 |
| 259 | 3 | -0.52 | | | | 306 | | |
| 265 | 3 | -0.75 | | | | | | 303 |
| 273 | 2 | 1.42 | | | | 332 | | |
| 284 | 3 | 0.67 | | 322 | | | | |
| 289 | 4 | -0.37 | | | | 308 | | |

MPV = 313
F-pseudosigma = 13
N = 49
Hu = 322
HI = 304

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
 Tl (Thallium) µg/L



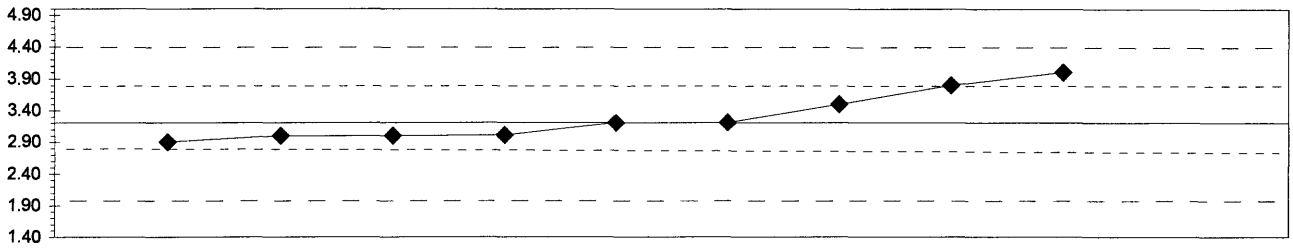
| | | | | |
|-------------------------|------------------|------|------|------|
| 3. AA: graphite furnace | | | | |
| 4. ICP | | | | |
| 6. ICP/MS | | | | |
| | N = | 23 | 5 | 21 |
| | Minimum = | 3.0 | 9.5 | 18.0 |
| | Maximum = | 34.2 | 20.5 | 21.9 |
| | Median = | 19.0 | | 20.7 |
| | F-pseudostigma = | 3.7 | | 1.3 |

| | |
|------------------|------|
| MPV = | 20.0 |
| F-pseudostigma = | 2.1 |
| N = | 49 |
| Hu = | 21.2 |
| HI = | 18.4 |

| Lab | Rating | Z-value | 3 | 4 | 6 |
|-----|--------|---------|------|--------|------|
| 1 | 4 | -0.43 | | | 19.1 |
| 3 | 2 | -1.45 | | 17.0 | |
| 11 | 4 | 0.00 | | 20.0 | |
| 13 | 4 | -0.34 | 19.3 | | |
| 16 | 4 | -0.29 | | | 19.4 |
| 18 | 3 | -0.77 | 18.4 | | |
| 36 | 0 | -6.26 | 7.0 | | |
| 39 | 3 | 0.92 | | | 21.9 |
| 42 | 3 | 0.72 | | | 21.5 |
| 48 | 4 | 0.24 | | | 20.5 |
| 50 | 3 | 0.87 | | | 21.8 |
| 59 | 3 | -0.96 | | | 18.0 |
| 61 | 4 | -0.19 | | 19.6 | |
| 68 | 3 | 0.72 | 21.5 | | |
| 69 | 3 | -0.96 | 18.0 | | |
| 70 | 3 | -0.72 | 18.5 | | |
| 76 | 4 | 0.34 | | | 20.7 |
| 81 | 4 | -0.48 | 19.0 | | |
| 89 | 4 | -0.10 | 19.8 | | |
| 97 | 2 | 1.49 | 23.1 | | |
| 105 | 3 | -0.67 | | | 18.6 |
| 113 | 4 | -0.43 | 19.1 | | |
| 119 | 3 | 0.77 | | | 21.6 |
| 127 | 1 | -1.64 | 16.6 | | |
| 134 | 3 | 0.79 | 21.6 | | |
| 138 | 3 | 0.67 | | | 21.4 |
| 141 | 0 | 6.84 | 34.2 | | |
| 142 | 4 | 0.24 | | | 20.5 |
| 145 | 0 | -8.19 | | < 3 | |
| 146 | 4 | 0.24 | | 20.5 | |
| 147 | 4 | -0.24 | | | 19.5 |
| 151 | 3 | 0.58 | | | 21.2 |
| 180 | NR | | | < 40.1 | |
| 191 | 3 | 0.58 | | | 21.2 |
| 193 | 0 | -8.19 | 3.0 | | |
| 196 | 4 | -0.48 | | | 19.0 |
| 198 | 1 | -1.64 | 16.6 | | |
| 212 | 4 | 0.43 | | | 20.9 |
| 213 | 2 | -1.40 | 17.1 | | |
| 215 | 0 | -6.26 | 7.0 | | |
| 217 | 4 | 0.39 | | | 20.8 |
| 234 | 2 | 1.20 | 22.5 | | |
| 235 | 4 | 0.34 | | | 20.7 |
| 241 | 0 | -6.65 | 6.2 | | |
| 245 | 4 | 0.19 | | | 20.4 |
| 247 | 0 | 5.40 | 31.2 | | |
| 255 | NR | | | < 59 | |
| 265 | 4 | 0.24 | | | 20.5 |
| 273 | 0 | -5.08 | | 9.5 | |
| 282 | 4 | 0.14 | 20.3 | | |

| Lab | Rating | Z-value | 3 | 4 | 6 |
|-----|--------|---------|------|---|---|
| 284 | 0 | -5.30 | 9.0 | | |
| 292 | 2 | 1.45 | 23.0 | | |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
 U (Uranium) µg/L



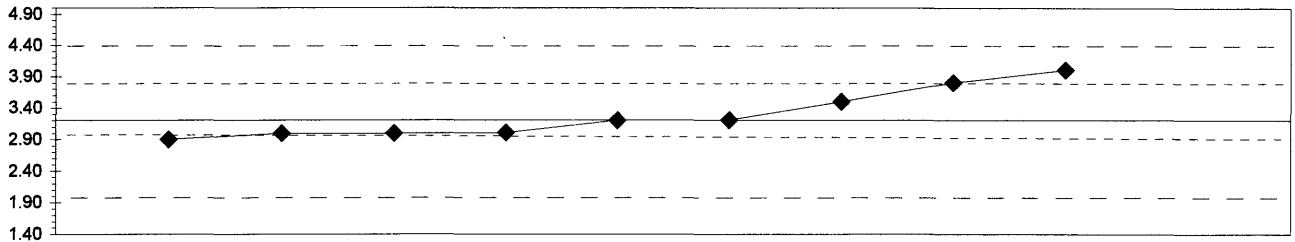
◆ 6

| | | | |
|-----------|-----------------|------|--|
| 6. ICP/MS | | | |
| | N = | 9 | |
| | Minimum = | 2.90 | |
| | Maximum = | 4.00 | |
| | Median = | 3.20 | |
| | F-pseudosigma = | 0.37 | |

MPV = 3.21
 F-pseudosigma = 0.59
 N = 9
 Hu = 3.80
 HI = 3.00

| Lab | Rating | Z-value | 6 |
|-----|--------|---------|------|
| 1 | 4 | -0.35 | 3.00 |
| 16 | 4 | 0.50 | 3.50 |
| 30 | 2 | 1.34 | 4.00 |
| 119 | 3 | -0.51 | 2.90 |
| 142 | 4 | -0.33 | 3.01 |
| 147 | 4 | -0.01 | 3.20 |
| 196 | 4 | 0.01 | 3.21 |
| 217 | 3 | 1.00 | 3.80 |
| 265 | 4 | -0.35 | 3.00 |

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
 U (Uranium) µg/L



◆ 6

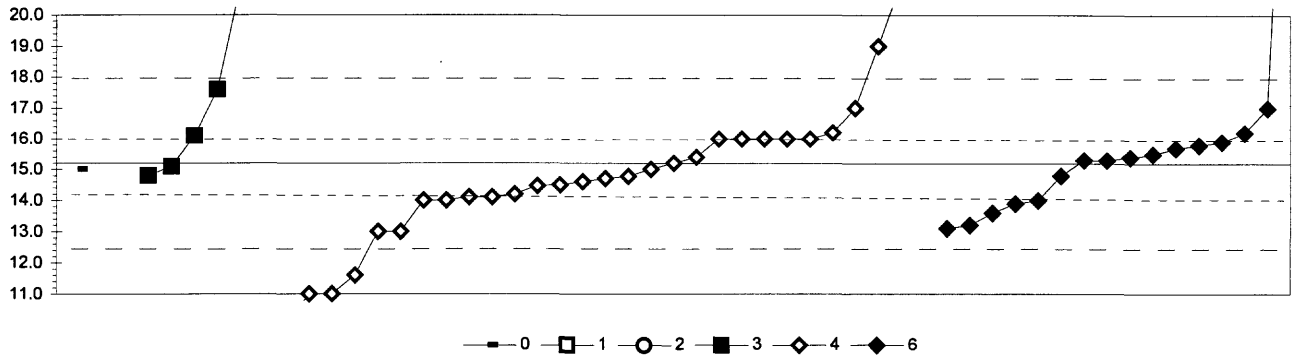
| 6. ICP/MS | | | |
|------------------|------|--|--|
| N = | 9 | | |
| Minimum = | 2.90 | | |
| Maximum = | 4.00 | | |
| Median = | 3.20 | | |
| F-pseudostigma = | 0.37 | | |

MPV = 3.21
 F-pseudostigma = 0.59
 N = 9
 Hu = 3.80
 HI = 3.00

| Lab | Rating | Z-value | |
|-----|--------|---------|------|
| 1 | 4 | -0.35 | 3.00 |
| 16 | 4 | 0.50 | 3.50 |
| 30 | 2 | 1.34 | 4.00 |
| 119 | 3 | -0.51 | 2.90 |
| 142 | 4 | -0.33 | 3.01 |
| 147 | 4 | -0.01 | 3.20 |
| 196 | 4 | 0.01 | 3.21 |
| 217 | 3 | 1.00 | 3.80 |
| 265 | 4 | -0.35 | 3.00 |

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 and only one of
 them will be
 filmed.

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
 V (Vanadium) $\mu\text{g/L}$

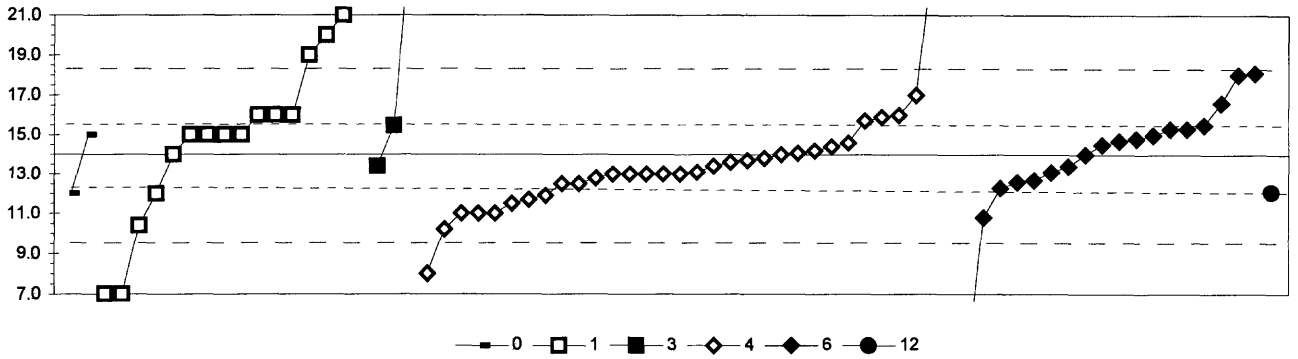


| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|---|---|------|---|------|
| 1 | 4 | 0.07 | | | | | | 15.3 |
| 3 | 3 | 0.57 | | | | 16.0 | | |
| 4 | NR | | | | | < 20 | | |
| 11 | 3 | 0.57 | | | | 16.0 | | |
| 13 | NR | | | | | < 50 | | |
| 16 | 4 | 0.36 | | | | | | 15.7 |
| 18 | 3 | -0.85 | | | | 14.0 | | |
| 25 | 1 | -1.56 | | | | 13.0 | | |
| 26 | 3 | -0.78 | | | | 14.1 | | |
| 30 | 4 | 0.43 | | | | | | 15.8 |
| 42 | 3 | -0.85 | | | | | | 14.0 |
| 46 | 4 | 0.14 | | | | 15.4 | | |
| 48 | 4 | 0.07 | | | | | | 15.3 |
| 50 | 2 | -1.14 | | | | | | 13.6 |
| 61 | 3 | 0.71 | | | | | | 16.2 |
| 68 | 3 | -0.85 | | | | | | 14.0 |
| 70 | NR | | | | | < 50 | | |
| 81 | 1 | -1.56 | | | | 13.0 | | |
| 85 | 0 | -2.98 | | | | 11.0 | | |
| 86 | 0 | 4.33 | | | | 21.3 | | |
| 89 | 0 | 4.12 | | | | 21.0 | | |
| 97 | 3 | 0.64 | | | | 16.1 | | |
| 105 | 3 | -0.92 | | | | | | 13.9 |
| 111 | 1 | 1.70 | | | | 17.6 | | |
| 119 | 3 | 0.71 | | | | | | 16.2 |
| 121 | 4 | -0.14 | | | | | | 15.0 |
| 127 | 4 | -0.43 | | | | | | 14.6 |
| 131 | 0 | -2.98 | | | | | | 11.0 |
| 134 | 3 | -0.52 | | | | | | 14.5 |
| 138 | 3 | -0.71 | | | | | | 14.2 |
| 141 | 3 | -0.78 | | | | | | 14.1 |
| 142 | 4 | -0.28 | | | | | | 14.8 |
| 145 | 0 | 2.70 | | | | | | 19.0 |
| 146 | 3 | 0.57 | | | | | | 16.0 |
| 147 | 4 | 0.50 | | | | | | 15.9 |
| 154 | 0 | 4.12 | | | | | | 21.0 |
| 158 | 4 | -0.50 | | | | | | 14.5 |
| 180 | 3 | 0.57 | | | | | | 16.0 |
| 183 | 0 | 4.26 | | | | 21.2 | | |
| 196 | 4 | 0.14 | | | | | | 15.4 |
| 212 | 2 | -1.49 | | | | | | 13.1 |
| 217 | 4 | 0.00 | | | | | | 15.2 |
| 219 | 4 | -0.14 | 15.0 | | | | | |
| 220 | 4 | -0.36 | | | | | | 14.7 |
| 224 | 0 | -2.56 | | | | | | 11.6 |
| 234 | 3 | 0.57 | | | | | | 16.0 |
| 235 | 2 | 1.28 | | | | | | 17.0 |
| 236 | 0 | -3.69 | | | | | | 10.0 |
| 237 | 2 | 1.28 | | | | | | 17.0 |
| 241 | 4 | -0.28 | | | | 14.8 | | |

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|---|-------|-------|------|------|------|
| 245 | 2 | -1.42 | | | | | | 13.2 |
| 247 | 0 | 11.22 | | | | | | 31.0 |
| 255 | 4 | -0.30 | | | | | 14.8 | |
| 257 | NR | | | | < 100 | | | |
| 265 | 4 | 0.21 | | | | | | 15.5 |
| 282 | NR | | | | | | | < 20 |
| 284 | 0 | 178.07 | | 266.0 | | | | |
| 289 | 4 | -0.07 | | | | 15.1 | | |

MPV = 15.2
 F-pseudosigma = 1.4
 N = 53
 HU = 16.0
 HI = 14.1

Table 13. Statistical summary of reported data for standard reference water sample T-147 (trace constituents)--Continued
 Zn (Zinc) μg/L



| | | | | | | | | |
|-------------------------|--------------------|------|------|------|-------|------|------|--|
| 0. Other | 4. ICP | | | | | | | |
| 1. AA: direct air | 6. ICP/MS | | | | | | | |
| 3. AA: graphite furnace | 12. Flame emission | | | | | | | |
| | N = | 2 | 16 | 3 | 32 | 18 | 1 | |
| | Minimum = | 12.0 | 7.0 | 13.4 | 8.0 | 3.2 | 12.1 | |
| | Maximum = | 15.0 | 22.0 | 25.4 | 146.0 | 18.1 | | |
| | Median = | | 15.0 | 13.1 | 14.6 | | | |
| | F-pseudosigma = | | 3.3 | 1.6 | 1.9 | | | |

MPV = 14.0
 F-pseudosigma = 2.2
 N = 72
 Hu = 15.5
 Hl = 12.5

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 | 12 |
|-----|--------|---------|------|-------|------|-------|------|----|
| 1 | 3 | -0.63 | | | | | 12.6 | |
| 3 | 2 | 1.36 | | | | 17.0 | | |
| 4 | 4 | -0.45 | | | | 13.0 | | |
| 9 | 4 | -0.45 | | | | 13.0 | | |
| 10 | 4 | 0.45 | 15.0 | | | | | |
| 12 | NR | | | | | < 20 | | |
| 13 | 4 | -0.14 | | | | 13.7 | | |
| 16 | 2 | -1.45 | | | | | 10.8 | |
| 18 | NR | | | | | < 100 | | |
| 19 | 4 | 0.09 | | | | 14.2 | | |
| 23 | NR | | < 20 | | | | | |
| 25 | 0 | 59.75 | | | | 146.0 | | |
| 26 | 3 | -0.95 | | | | 11.9 | | |
| 30 | 3 | 0.68 | | | | | 15.5 | |
| 39 | 4 | -0.09 | | | | 13.8 | | |
| 40 | 4 | -0.45 | | | | 13.0 | | |
| 42 | 4 | 0.32 | | | | | 14.7 | |
| 48 | 1 | 1.86 | | | | | 18.1 | |
| 50 | 3 | -0.59 | | | | | 12.7 | |
| 59 | 1 | 1.81 | | | | | 18.0 | |
| 61 | 3 | 0.77 | | | | 15.7 | | |
| 68 | 0 | 4.53 | | | | 24.0 | | |
| 69 | NR | | < 50 | | | | | |
| 70 | NR | | | | | < 20 | | |
| 80 | 3 | 0.91 | 16.0 | | | | | |
| 81 | 4 | -0.45 | | | | 13.0 | | |
| 83 | 4 | -0.41 | | | | 13.1 | | |
| 85 | 3 | 0.91 | 16.0 | | | | | |
| 86 | 3 | -0.54 | | | | 12.8 | | |
| 87 | 0 | 2.26 | 19.0 | | | | | |
| 89 | 4 | -0.27 | | | 13.4 | | | |
| 96 | 3 | 0.91 | 16.0 | | | | | |
| 97 | 0 | -2.54 | | < 8.4 | | | | |
| 105 | 2 | 1.18 | | | | | 16.6 | |
| 107 | 4 | 0.45 | 15.0 | | | | | |
| 108 | 0 | 3.62 | 22.0 | | | | | |
| 114 | NR | | < 10 | | | | | |
| 119 | 2 | -1.36 | | | | 11.0 | | |
| 121 | 2 | -1.36 | | | | 11.0 | | |
| 127 | 1 | -1.72 | | | | 10.2 | | |
| 131 | 4 | -0.45 | | | | 13.0 | | |
| 133 | 3 | 0.86 | | | | 15.9 | | |
| 134 | 4 | 0.00 | | | | 14.0 | | |
| 138 | 3 | -0.77 | | | | | 12.3 | |
| 140 | 0 | 3.17 | 21.0 | | | | | |
| 141 | 4 | 0.27 | | | | 14.6 | | |
| 142 | 4 | 0.45 | | | | | 15.0 | |
| 145 | 3 | 0.91 | | | | 16.0 | | |
| 146 | NR | | | | | < 20 | | |
| 147 | 4 | -0.41 | | | | | 13.1 | |

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 6 | 12 |
|-----|--------|---------|------|------|------|------|------|------|
| 149 | 4 | 0.45 | | 15.0 | | | | |
| 151 | 4 | 0.23 | | | | | | 14.5 |
| 154 | 0 | -2.72 | | | | 8.0 | | |
| 158 | 4 | 0.18 | | | | 14.4 | | |
| 180 | 3 | -0.68 | | | | 12.5 | | |
| 190 | 3 | -0.86 | | | | | | 12.1 |
| 191 | 3 | 0.59 | | | | | | 15.3 |
| 193 | NR | | < 50 | | | | | |
| 196 | 4 | -0.27 | | | | | | 13.4 |
| 198 | NR | | | | | < 25 | | |
| 212 | 3 | 0.59 | | | | | | 15.3 |
| 213 | NR | | < 38 | | | | | |
| 215 | 2 | -1.36 | | | | 11.0 | | |
| 217 | 4 | -0.18 | | | | 13.6 | | |
| 219 | 3 | -0.91 | 12.0 | | | | | |
| 220 | 4 | 0.45 | 15.0 | | | | | |
| 224 | 2 | -1.13 | | | | 11.5 | | |
| 234 | 4 | -0.27 | | | | 13.4 | | |
| 235 | 4 | 0.36 | | | | | 14.8 | |
| 236 | 0 | -5.89 | | | | | < 1 | |
| 237 | NR | | | | | | < 10 | |
| 241 | 0 | -3.17 | | 7.0 | | | | |
| 245 | 0 | 5.16 | | | 25.4 | | | |
| 247 | 0 | -4.89 | | | | | | 3.2 |
| 252 | 0 | -3.17 | | 7.0 | | | | |
| 255 | 4 | 0.03 | | | | 14.1 | | |
| 256 | 4 | 0.45 | | 15.0 | | | | |
| 257 | 4 | 0.00 | | 14.0 | | | | |
| 259 | 2 | -1.04 | | | | 11.7 | | |
| 265 | 4 | 0.00 | | | | | | 14.0 |
| 273 | 3 | -0.68 | | | | 12.5 | | |
| 274 | 3 | 0.66 | | | 15.5 | | | |
| 282 | NR | | | | | | | < 20 |
| 284 | 1 | -1.63 | | 10.4 | | | | |
| 287 | 3 | -0.91 | | 12.0 | | | | |
| 292 | 0 | 2.72 | | 20.0 | | | | |

Table 14. *Statistical summary of reported data for standard reference water sample T-149 (trace constituents)*

Definition of analytical methods, abbreviations, and symbols

Analytical methods

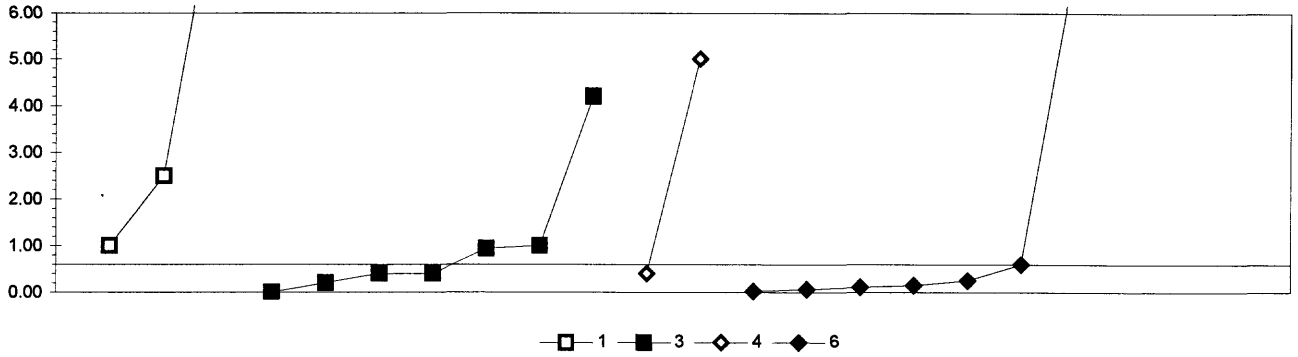
| | |
|---------------------------------|--|
| 0. Other/Not reported | |
| 1. AA: direct, air | = atomic absorption: direct,air |
| 2. AA: direct, N ₂ O | = atomic absorption: direct,nitrous oxide |
| 3. AA: graphite furnace | = atomic absorption: graphite furnace |
| 4. ICP | = inductively coupled plasma |
| 5. DCP | = direct current plasma |
| 6. ICP/MS | = inductively coupled plasma/mass spectrometry |
| 10. AA: extraction | = atomic absorption: extraction [chelating agent(s) specified] |
| 11. AA: hydride | = atomic absorption: hydride [reducing agent specified] |
| 12. Flame emission | = flame emission |
| 22. Color: | = colorimetric [color reagent specified] |

Abbreviations and symbols

| | | |
|----------------|---|-------------------------------------|
| N | = | number of samples |
| MPV | = | most probable value |
| F-pseudostigma | = | nonparametric statistic deviation |
| Hu | = | upper hinge value |
| Hi | = | lower hinge value |
| µg/L | = | micrograms per liter |
| mg/L | = | milligrams per liter |
| Lab | = | laboratory code number |
| NR | = | not rated, less than value reported |
| < | = | less than |

| <u>Constituent</u> | <u>page</u> | <u>Constituent</u> | <u>page</u> |
|--------------------|-------------|-------------------------|-------------|
| Ag Silver | 83 | Mg Magnesium | 97 |
| Al Aluminium | 84 | Mn Manganese | 98 |
| As Arsenic | 85 | Mo Molybdenum | 99 |
| B Boron | 86 | Na Sodium | 100 |
| Ba Barium | 87 | Ni Nickel | 101 |
| Be Beryllium | 88 | Pb Lead | 102 |
| Ca Calcium | 89 | Sb Antimony | 103 |
| Cd Cadmium | 90 | Se Selenium | 104 |
| Co Cobalt | 91 | SiO ₂ Silica | 105 |
| Cr Chromium | 92 | Sr Strontium | 106 |
| Cu Copper | 93 | Tl Thallium | 107 |
| Fe Iron | 94 | U Uranium | 108 |
| K Potassium | 95 | V Vanadium | 109 |
| Li Lithium | 96 | Zn Zinc | 110 |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)—Continued
 Ag (Silver) µg/L



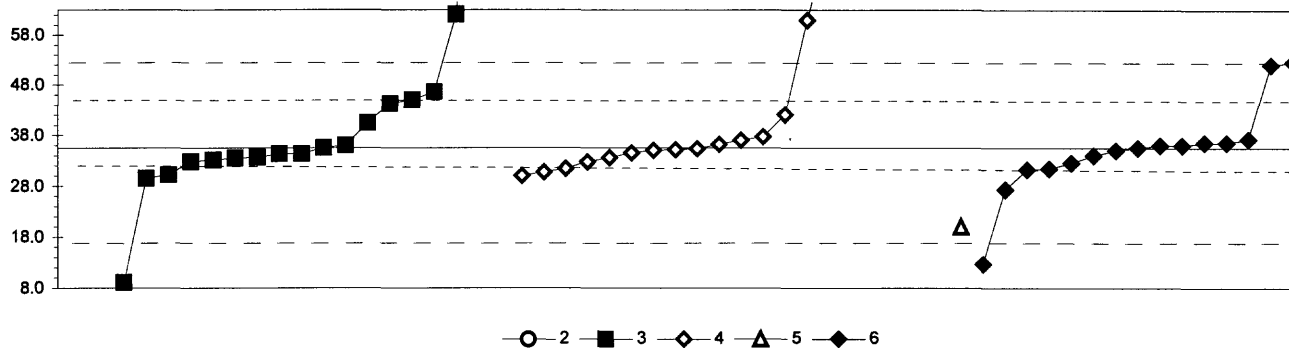
| | |
|-------------------------|-------------------------------|
| 1. AA: direct air | 4. ICP |
| 3. AA: graphite furnace | 6. ICP/MS |
| 4. ICP | |
| | N = 3 8 3 7 |
| | Minimum = 1.00 0.00 0.40 0.02 |
| | Maximum = 9.00 4.20 5.00 7.16 |
| | Median = 0.40 0.15 |
| | F-pseudostigma = 0.50 0.25 |

MPV = insufficient data
 F-pseudostigma =
 N = 21
 Hu =
 Hl =

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|--------|--------|-------|
| 1 | NR | | | | < 1 | |
| 3 | NR | | | | < 5 | |
| 13 | NR | | | | < 10 | |
| 16 | NR | | | | | < 1 |
| 18 | NR | | | | < 3 | |
| 25 | NR | | | | < 6 | |
| 26 | NR | | | < 0.2 | | |
| 30 | NR | | | | | < 1 |
| 32 | NR | | | | | < 0.1 |
| 34 | NR | | | < 0.2 | | |
| 36 | NR | | < 50 | | | |
| 42 | NR | | | | | < 1 |
| 48 | NR | | | | | < 0.6 |
| 59 | NR | | | < 5 | | |
| 61 | NR | | | | < 2 | |
| 68 | NR | | | < 0.3 | | |
| 69 | NR | | | < 1 | | |
| 70 | NR | | | < 10 | | |
| 81 | NR | | | < 1 | | |
| 87 | NR | | 9.00 | | | |
| 89 | NR | | | < 2 | | |
| 96 | NR | | | < 1 | | |
| 97 | NR | | | 0.94 | | |
| 105 | NR | | | | | < 0.4 |
| 108 | NR | | | 0.40 | | |
| 113 | NR | | | < 0.5 | | |
| 114 | NR | | < 10 | | | |
| 118 | NR | | | < 0.5 | | |
| 119 | NR | | 1.00 | | | |
| 126 | NR | | | 0.40 | | |
| 131 | NR | | | | < 10 | |
| 133 | NR | | | | < 6 | |
| 134 | NR | | | | < 1 | |
| 138 | NR | | | | | 0.06 |
| 140 | NR | | 2.50 | | | |
| 141 | NR | | | | < 10 | |
| 142 | NR | | | | | 7.16 |
| 146 | NR | | | | < 10 | |
| 147 | NR | | | | | 0.60 |
| 149 | NR | | | < 0.1 | | |
| 151 | NR | | | | | 0.25 |
| 180 | NR | | | | < 3.22 | |
| 190 | NR | | | 0.00 | | |
| 193 | NR | | | < 5 | | |
| 198 | NR | | | < 2.5 | | |
| 203 | NR | | | < 2 | | |
| 212 | NR | | | | | 0.15 |
| 213 | NR | | | < 0.11 | | |
| 215 | NR | | | < 1 | | |
| 221 | NR | | | 0.20 | | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|--------|-------|------|
| 234 | NR | | | | 0.40 | |
| 236 | NR | | | | 5.00 | |
| 241 | NR | | | 1.00 | | |
| 245 | NR | | | | | 0.11 |
| 247 | NR | | | 4.20 | | |
| 252 | NR | | | < 0.75 | | |
| 255 | NR | | | | < 4.6 | |
| 256 | NR | | < 10 | | | |
| 257 | NR | | | < 0.01 | | |
| 265 | NR | | | | | 0.02 |
| 273 | NR | | | | 0.98 | |
| 282 | NR | | | | | < 10 |
| 284 | NR | | | 7.00 | | |
| 289 | NR | | | < 0.5 | | |
| 292 | NR | | | < 3 | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Al (Aluminum) $\mu\text{g/L}$



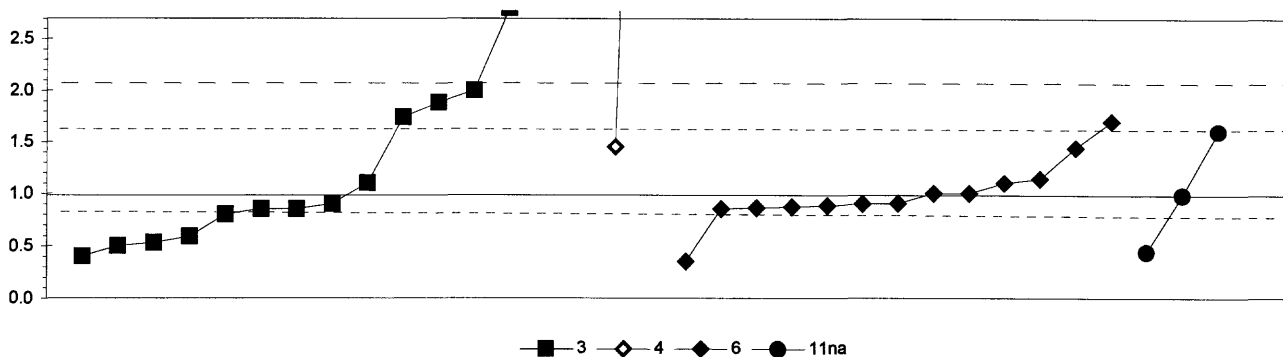
| | |
|-----------------------------|-------------------------------------|
| 2. AA: direct nitrous oxide | 5. DCP |
| 3. AA: graphite furnace | 6. ICP/MS |
| 4. ICP | |
| | N = 0 18 20 1 15 |
| | Minimum = < 1000 9.1 30.0 20.0 12.7 |
| | Maximum = < 2000 164.0 270.0 52.6 |
| | Median = 34.9 36.6 35.5 |
| | F-pseudostigma = 8.8 34.2 3.4 |

MPV = 35.5
F-pseudostigma = 9.0
N = 54
Hu = 45.0
HI = 32.8

| Lab | Rating | Z-value | 2 | 3 | 4 | 5 | 6 |
|-----|--------|---------|--------|-------|--------|------|------|
| 1 | 4 | -0.33 | | | | | 32.5 |
| 3 | NR | | | | < 30 | | |
| 4 | NR | | | | < 500 | | |
| 11 | 0 | 25.93 | | | 270.0 | | |
| 13 | 3 | -0.59 | | 30.2 | | | |
| 16 | 4 | -0.17 | | | | | 34.0 |
| 18 | NR | | | | < 100 | | |
| 23 | 3 | 0.96 | | 44.2 | | | |
| 25 | NR | | | | < 19 | | |
| 26 | 4 | -0.30 | | 32.8 | | | |
| 30 | 4 | 0.06 | | | | | 36.0 |
| 32 | 4 | 0.00 | | | | | 35.5 |
| 33 | 1 | -1.71 | | | | 20.0 | |
| 34 | 2 | 1.05 | | 45.0 | | | |
| 36 | NR | | < 1000 | | | | |
| 42 | 3 | -0.91 | | | | | 27.3 |
| 46 | 4 | 0.08 | | | 36.2 | | |
| 48 | 4 | 0.19 | | | | | 37.2 |
| 61 | 0 | 5.27 | | | 83.2 | | |
| 68 | 0 | 2.82 | | | 61.0 | | |
| 69 | 3 | -0.66 | | 29.5 | | | |
| 70 | NR | | | | < 100 | | |
| 81 | NR | | | | < 32 | | |
| 83 | NR | | | | < 25 | | |
| 89 | 0 | 14.21 | | 164.0 | | | |
| 97 | 3 | 0.54 | | 40.4 | | | |
| 105 | 4 | -0.45 | | | | | 31.4 |
| 111 | 2 | 1.23 | | 46.6 | | | |
| 113 | 4 | -0.11 | | | 34.5 | | |
| 118 | NR | | < 2000 | | | | |
| 119 | 4 | 0.11 | | | | | 36.5 |
| 131 | NR | | | | < 100 | | |
| 134 | 4 | -0.02 | | | 35.3 | | |
| 138 | 4 | -0.04 | | | 35.1 | | |
| 141 | NR | | | | < 100 | | |
| 142 | NR | | | | < 50 | | |
| 145 | 0 | 4.59 | | | 77.0 | | |
| 146 | NR | | | | < 200 | | |
| 147 | 4 | 0.06 | | | | | 36.0 |
| 151 | 1 | 1.89 | | | | | 52.6 |
| 154 | 3 | -0.61 | | | 30.0 | | |
| 158 | 3 | 0.73 | | | 42.1 | | |
| 180 | NR | | | | < 20.2 | | |
| 185 | 0 | 2.94 | | 62.1 | | | |
| 190 | 4 | -0.21 | | 33.6 | | | |
| 191 | 1 | 1.82 | | | | | 52.0 |
| 198 | 4 | -0.13 | | 34.3 | | | |
| 203 | 4 | 0.00 | | 35.5 | | | |
| 212 | 0 | 13.55 | | | 158.0 | | |
| 215 | NR | | | | < 50 | | |

| Lab | Rating | Z-value | 2 | 3 | 4 | 5 | 6 |
|-----|--------|---------|---|-------|-------|---|-------|
| 218 | 0 | 12.73 | | | 150.7 | | |
| 219 | 4 | -0.06 | | | 35.0 | | |
| 221 | 4 | -0.22 | | 33.5 | | | |
| 224 | 3 | -0.53 | | | 30.7 | | |
| 234 | 4 | -0.31 | | | 32.7 | | |
| 235 | 4 | 0.11 | | | | | 36.5 |
| 236 | 4 | 0.17 | | | 37.0 | | |
| 237 | 0 | 6.36 | | | 93.0 | | |
| 241 | 4 | -0.27 | | 33.1 | | | |
| 245 | 4 | -0.48 | | | | | 31.2 |
| 247 | 0 | -2.52 | | | | | 12.7 |
| 255 | 4 | -0.22 | | | 33.5 | | |
| 257 | 0 | 7.82 | | 106.2 | | | |
| 259 | 4 | -0.45 | | | 31.4 | | |
| 265 | 4 | -0.06 | | | | | 35.0 |
| 273 | 4 | 0.24 | | | 37.7 | | |
| 282 | NR | | | | | | < 100 |
| 284 | 4 | 0.06 | | 36.0 | | | |
| 287 | 0 | -2.92 | | 9.1 | | | |
| 289 | 4 | -0.13 | | 34.3 | | | |
| 292 | NR | | | | < 100 | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
As (Arsenic) $\mu\text{g/L}$



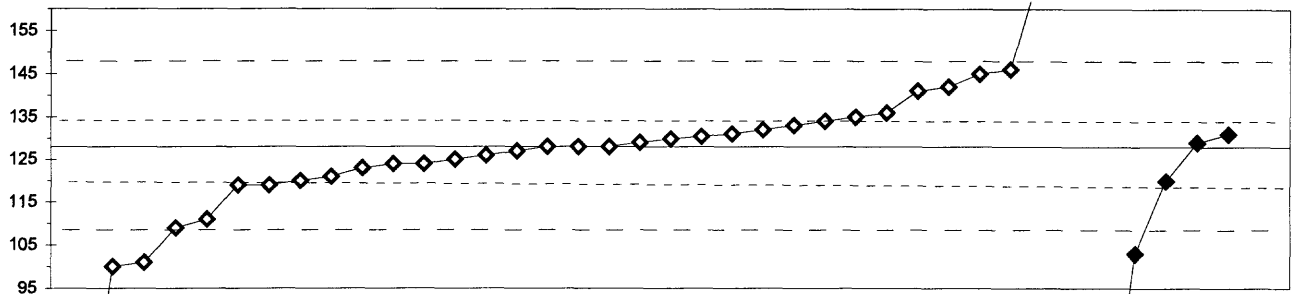
| 3. AA: graphite furnace | | 11na. AA: hydride NaBH ₄ | | | |
|-------------------------|-----------------|-------------------------------------|------|-----|-----|
| 4. ICP | | | | | |
| 6. ICP/MS | | | | | |
| | N = | 15 | 2 | 13 | 3 |
| | Minimum = | 0.4 | 1.5 | 0.4 | 0.4 |
| | Maximum = | 5.0 | 12.0 | 1.7 | 1.6 |
| | Median = | 0.9 | | 0.9 | |
| | F-pseudosigma = | 0.9 | | 0.2 | |

MPV = 1.0
F-pseudosigma = 0.6
N = 33
Hu = 1.6
HI = 0.9

| Lab | Rating | Z-value | 3 | 4 | 6 | 11na |
|-----|--------|---------|-------|--------|-----|------|
| 1 | NR | | | < 1 | | |
| 3 | NR | | | < 5 | | |
| 13 | NR | | < 5 | | | |
| 16 | 4 | -0.22 | | | 0.9 | |
| 18 | NR | | < 1 | | | |
| 25 | NR | | | < 50 | | |
| 26 | 4 | 0.00 | | | | 1.0 |
| 30 | 4 | 0.22 | | | 1.1 | |
| 32 | 4 | 0.04 | | | 1.0 | |
| 34 | 4 | -0.14 | 0.9 | | | |
| 36 | 4 | -0.23 | 0.9 | | | |
| 42 | 2 | 1.30 | | | 1.7 | |
| 48 | 4 | -0.14 | | | 0.9 | |
| 59 | NR | | | | < 2 | |
| 61 | NR | | | < 4.5 | | |
| 68 | 0 | 3.27 | 2.8 | | | |
| 69 | NR | | < 5 | | | |
| 70 | NR | | < 10 | | | |
| 80 | 1 | 1.83 | 2.0 | | | |
| 81 | NR | | | < 2 | | |
| 86 | 3 | -0.97 | | | | 0.4 |
| 87 | NR | | | | | < 2 |
| 89 | NR | | | | | < 2 |
| 96 | 4 | 0.22 | 1.1 | | | |
| 97 | NR | | < 0.9 | | | |
| 105 | NR | | | | < 4 | |
| 108 | 2 | -1.04 | 0.4 | | | |
| 109 | 3 | -0.86 | 0.5 | | | |
| 111 | NR | | < 2 | | | |
| 113 | NR | | < 1.5 | | | |
| 118 | NR | | < 4 | | | |
| 119 | 4 | -0.20 | | | 0.9 | |
| 133 | NR | | < 5 | | | |
| 134 | 3 | -0.70 | 0.6 | | | |
| 138 | NR | | | | < 1 | |
| 141 | NR | | < 5 | | | |
| 142 | 2 | -1.13 | | | 0.4 | |
| 143 | 3 | -0.81 | 0.5 | | | |
| 145 | 0 | 19.82 | | 12.0 | | |
| 146 | NR | | | < 10 | | |
| 147 | 4 | -0.18 | | | 0.9 | |
| 149 | NR | | < 1 | | | |
| 151 | 4 | -0.23 | | | 0.9 | |
| 180 | NR | | | < 40.1 | | |
| 191 | 3 | 0.83 | | | 1.4 | |
| 193 | NR | | < 5 | | | |
| 198 | NR | | < 2 | | | |
| 203 | NR | | < 5 | | | |
| 212 | 4 | -0.14 | | | 0.9 | |
| 213 | 2 | 1.37 | 1.7 | | | |

| Lab | Rating | Z-value | 3 | 4 | 6 | 11na |
|-----|--------|---------|-------|------|-----|------|
| 215 | NR | | < 5 | | | |
| 220 | NR | | < 1 | | | |
| 224 | NR | | | < 12 | | |
| 234 | 3 | 0.85 | | 1.5 | | |
| 235 | 1 | 1.62 | 1.9 | | | |
| 236 | NR | | | < 35 | | |
| 241 | 4 | -0.32 | 0.8 | | | |
| 245 | 4 | 0.29 | | | 1.1 | |
| 247 | NR | | < 5 | | | |
| 252 | 4 | -0.23 | 0.9 | | | |
| 255 | NR | | < 5.6 | | | |
| 256 | 2 | 1.12 | | | | 1.6 |
| 257 | NR | | < 0.3 | | | |
| 265 | 4 | 0.04 | | | 1.0 | |
| 282 | NR | | | | | < 5 |
| 284 | 0 | 3.63 | 3.0 | | | |
| 289 | 0 | 7.23 | 5.0 | | | |
| 292 | NR | | < 3 | | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
 B (Boron) µg/L



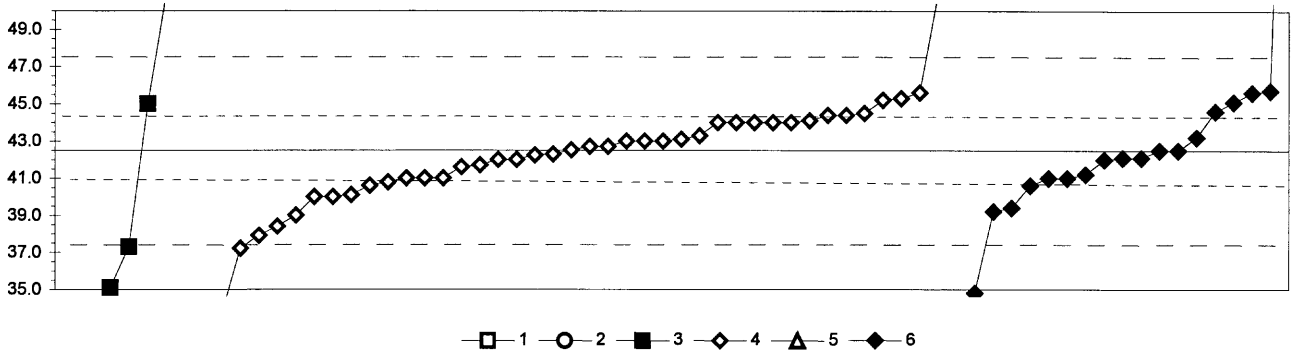
◆ 4 ◆ 6 ✕ 22az

| | | | | |
|-------------------------|-----------------|-----|-----|-----|
| 4. ICP | | | | |
| 6. ICP/MS | | | | |
| 22az. Color: azomethine | | | | |
| | N = | 33 | 5 | 1 |
| | Minimum = | 53 | 49 | 170 |
| | Maximum = | 262 | 131 | |
| | Median = | 128 | | |
| | F-pseudosigma = | 10 | | |

MPV = 128
 F-pseudosigma = 10
 N = 39
 Hu = 134
 HI = 120

| Lab | Rating | Z-value | 4 | 6 | 22az |
|-----|--------|---------|------|-----|------|
| 1 | 4 | -0.40 | 124 | | |
| 3 | 4 | 0.50 | 133 | | |
| 4 | 0 | -7.80 | < 50 | | |
| 11 | 0 | -7.49 | 53 | | |
| 16 | 0 | 13.39 | 262 | | |
| 18 | 4 | 0.00 | 128 | | |
| 24 | 4 | -0.20 | 126 | | |
| 25 | 0 | -10.50 | < 23 | | |
| 26 | 3 | -0.90 | 119 | | |
| 32 | 0 | -2.50 | | 103 | |
| 40 | 3 | -0.90 | 119 | | |
| 42 | 1 | 1.80 | 146 | | |
| 46 | 4 | 0.18 | 130 | | |
| 48 | 0 | -2.80 | 100 | | |
| 61 | 3 | 0.60 | 134 | | |
| 68 | 0 | 4.20 | 170 | | |
| 70 | 4 | 0.40 | 132 | | |
| 86 | 4 | -0.40 | 124 | | |
| 119 | 1 | -1.90 | 109 | | |
| 129 | 0 | 4.20 | | 170 | |
| 131 | 4 | 0.00 | 128 | | |
| 134 | 4 | 0.24 | 130 | | |
| 138 | 4 | 0.10 | 129 | | |
| 141 | 2 | 1.30 | 141 | | |
| 142 | 4 | -0.50 | 123 | | |
| 145 | 3 | -0.70 | 121 | | |
| 147 | 4 | 0.10 | | 129 | |
| 154 | 4 | 0.00 | 128 | | |
| 158 | 4 | -0.30 | 125 | | |
| 180 | 2 | 1.40 | 142 | | |
| 212 | 3 | 0.70 | 135 | | |
| 215 | 3 | -0.80 | 120 | | |
| 234 | 4 | -0.10 | 127 | | |
| 236 | 1 | -1.70 | 111 | | |
| 247 | 0 | -7.85 | | 49 | |
| 255 | 3 | 0.79 | 136 | | |
| 256 | 0 | -11.79 | | | < 10 |
| 259 | 1 | 1.70 | 145 | | |
| 265 | 3 | -0.80 | | 120 | |
| 273 | 4 | 0.30 | 131 | | |
| 282 | 4 | 0.30 | | 131 | |
| 289 | 0 | -2.70 | 101 | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Ba (Barium) $\mu\text{g/L}$



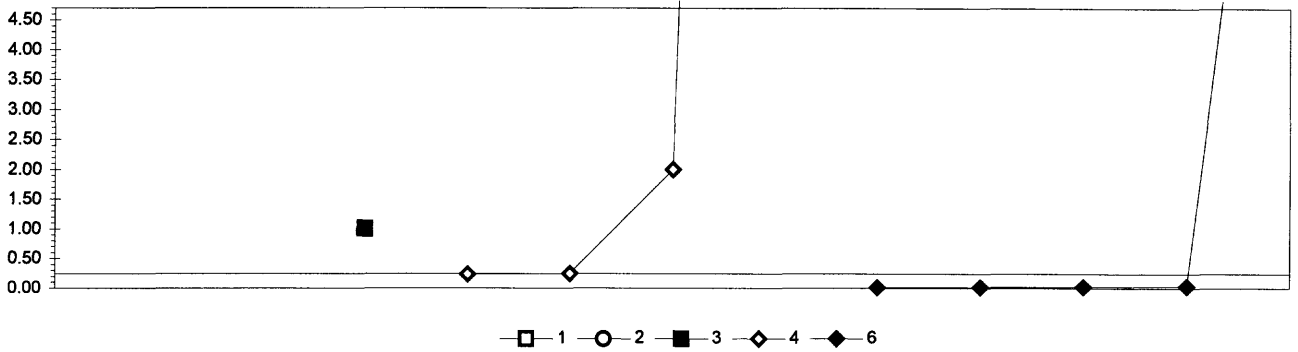
| | | | | | | |
|-----------------------------|-----------------|-------|-------|------|------|------|
| 1. AA: direct air | 4. ICP | | | | | |
| 2. AA: direct nitrous oxide | 5. DCP | | | | | |
| 3. AA: graphite furnace | 6. ICP/MS | | | | | |
| | N = | 1 | 0 | 6 | 40 | 1 |
| | Minimum = | 326.0 | < 100 | 35.1 | 33.7 | 52.0 |
| | Maximum = | | | 54.0 | 50.9 | 73.7 |
| | Median = | | | | 42.6 | 42.1 |
| | F-pseudosigma = | | | | 2.3 | 2.7 |

MPV = 42.5
F-pseudosigma = 2.5
N = 66
Hu = 44.4
HI = 41.0

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 5 | 6 |
|-----|--------|---------|-------|-------|------|------|------|------|
| 1 | 4 | -0.16 | | | | | | 42.1 |
| 3 | 4 | 0.19 | | | | 43.0 | | |
| 4 | 3 | 0.59 | | | | 44.0 | | |
| 11 | 3 | 0.59 | | | | 44.0 | | |
| 13 | 3 | 0.75 | | | | 44.4 | | |
| 16 | 3 | -0.52 | | | | | | 41.2 |
| 18 | 3 | -1.00 | | | | 40.0 | | |
| 19 | 3 | 0.63 | | | | 44.1 | | |
| 25 | 1 | -1.83 | | | | 37.9 | | |
| 26 | 4 | 0.08 | | | | 42.7 | | |
| 30 | 3 | 0.83 | | | | | | 44.6 |
| 32 | 4 | 0.00 | | | | | | 42.5 |
| 33 | 0 | 3.77 | | | | | 52.0 | |
| 40 | 4 | -0.32 | | | | 41.7 | | |
| 42 | 0 | -3.06 | | | | | | 34.8 |
| 48 | 3 | -0.76 | | | | | | 40.6 |
| 59 | 4 | -0.20 | | | | | | 42.0 |
| 61 | 2 | 1.07 | | | | 45.2 | | |
| 68 | 4 | 0.19 | | | | 43.0 | | |
| 69 | NR | | | | < 50 | | | |
| 70 | NR | | | | < 50 | | | |
| 81 | 4 | 0.19 | | | | 43.0 | | |
| 83 | 1 | -1.63 | | | | 38.4 | | |
| 86 | 4 | 0.08 | | | | 42.7 | | |
| 87 | 0 | -2.07 | | | | 37.3 | | |
| 89 | NR | | | | < 50 | | | |
| 96 | NR | | | < 100 | | | | |
| 97 | 3 | 0.99 | | | 45.0 | | | |
| 105 | 2 | -1.31 | | | | | | 39.2 |
| 113 | 3 | -0.96 | | | | 40.1 | | |
| 119 | 3 | 0.59 | | | | 44.0 | | |
| 121 | 3 | -0.60 | | | | 41.0 | | |
| 131 | 4 | 0.23 | | | | 43.1 | | |
| 133 | 3 | 0.75 | | | | 44.4 | | |
| 134 | 4 | -0.08 | | | | 42.3 | | |
| 138 | 4 | -0.36 | | | | 41.6 | | |
| 140 | 0 | 112.48 | 326.0 | | | | | |
| 141 | 2 | 1.11 | | | | 45.3 | | |
| 142 | 4 | 0.27 | | | | | | 43.2 |
| 145 | 3 | 0.59 | | | | 44.0 | | |
| 146 | 3 | 0.79 | | | | 44.5 | | |
| 147 | 3 | -0.60 | | | | | | 41.0 |
| 151 | 2 | 1.03 | | | | | | 45.1 |
| 154 | 0 | -2.11 | | | | 37.2 | | |
| 158 | 3 | -0.60 | | | | 41.0 | | |
| 180 | 3 | -0.68 | | | | 40.8 | | |
| 183 | 0 | 4.56 | | | 54.0 | | | |
| 191 | 2 | 1.23 | | | | | | 45.6 |
| 198 | 2 | 1.23 | | | | 45.6 | | |
| 203 | 0 | 3.61 | | | 51.6 | | | |

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 5 | 6 |
|-----|--------|---------|---|---|------|------|---|------|
| 212 | 2 | -1.23 | | | | | | 39.4 |
| 215 | 3 | -1.00 | | | | 40.0 | | |
| 219 | 4 | -0.20 | | | | 42.0 | | |
| 220 | 4 | -0.10 | | | | 42.3 | | |
| 224 | 0 | 3.33 | | | | 50.9 | | |
| 234 | 4 | 0.31 | | | | 43.3 | | |
| 235 | 2 | 1.27 | | | | | | 45.7 |
| 236 | 3 | -0.60 | | | | 41.0 | | |
| 237 | 3 | 0.59 | | | | 44.0 | | |
| 241 | 0 | -2.94 | | | 35.1 | | | |
| 245 | 4 | 0.00 | | | | | | 42.5 |
| 247 | 0 | 12.38 | | | | | | 73.7 |
| 255 | 4 | 0.00 | | | | 42.5 | | |
| 256 | NR | | | | < 50 | | | |
| 259 | 3 | -0.76 | | | | 40.6 | | |
| 265 | 3 | -0.60 | | | | | | 41.0 |
| 273 | 0 | -3.50 | | | | 33.7 | | |
| 282 | 4 | -0.16 | | | | | | 42.1 |
| 284 | 0 | 3.37 | | | 51.0 | | | |
| 289 | 2 | -1.39 | | | | 39.0 | | |
| 292 | 4 | -0.20 | | | | 42.0 | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Be (Beryllium) µg/L



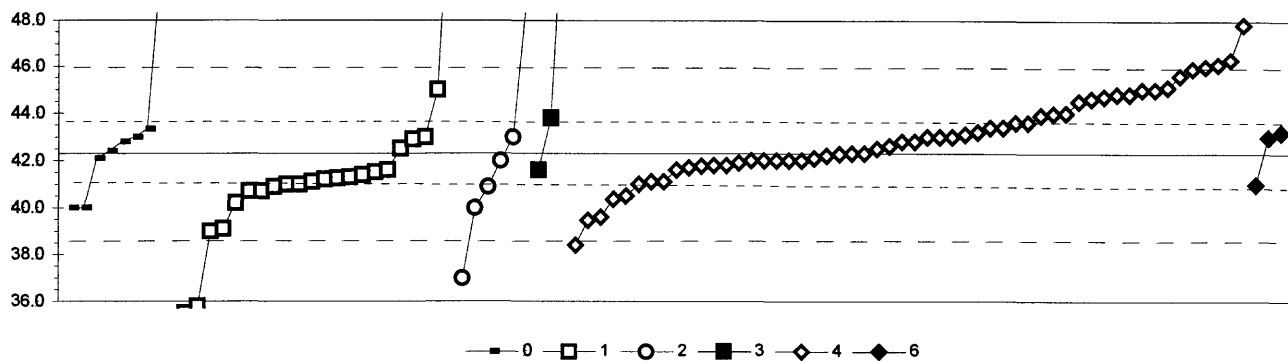
| | | | | | |
|-----------------------------|-----------|------|------|-------|-------|
| 1. AA: direct air | 4. ICP | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | |
| 3. AA: graphite furnace | | | | | |
| N = | 0 | 0 | 1 | 4 | 5 |
| Minimum = | < 10 | < 10 | 1.00 | 0.24 | 0.01 |
| Maximum = | | | | 50.00 | 14.10 |
| Median = | | | | | |
| F-pseudosigma = | | | | | |

MPV = insufficient data
F-pseudosigma =
N = 10
Hu =
Hl =

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|---|-------|-------|---------|--------|
| 1 | NR | | | | | < 0.5 | |
| 3 | NR | | | | | < 1 | |
| 4 | NR | | | | | < 10 | |
| 13 | NR | | | | | < 5 | |
| 16 | NR | | | | | | < 1 |
| 18 | NR | | | | | < 1 | |
| 23 | NR | | | < 0.5 | | | |
| 25 | NR | | | | | < 2.4 | |
| 26 | NR | | | | | < 1 | |
| 30 | NR | | | | | | < 1 |
| 32 | NR | | | | | | < 0.1 |
| 42 | NR | | | | | | < 2 |
| 48 | NR | | | | | | < 0.4 |
| 59 | NR | | | | | | < 2 |
| 61 | NR | | | | | 0.25 | |
| 68 | NR | | | | | 50.00 | |
| 69 | NR | | | | | < 1 | |
| 70 | NR | | | | | < 2 | |
| 81 | NR | | | | | < 1 | |
| 83 | NR | | | | | < 0.2 | |
| 89 | NR | | | | | < 2 | |
| 96 | NR | < 10 | | | | | |
| 97 | NR | | | | | < 0 | |
| 105 | NR | | | | | | < 1 |
| 113 | NR | | | | | < 0.1 | |
| 114 | NR | | | < 10 | | | |
| 119 | NR | | | | | | 0.01 |
| 121 | NR | | | | | < 1 | |
| 133 | NR | | | | | < 0.5 | |
| 134 | NR | | | | | < 0.5 | |
| 138 | NR | | | | | | < 0.03 |
| 141 | NR | | | | | < 5 | |
| 142 | NR | | | | | | < 1 |
| 145 | NR | | | | | < 1 | |
| 146 | NR | | | | | < 4 | |
| 147 | NR | | | | | | < 0.03 |
| 149 | NR | | | | < 0.5 | | |
| 151 | NR | | | | | | 0.02 |
| 180 | NR | | | | | < 0.667 | |
| 193 | NR | | | | | < 1 | |
| 198 | NR | | | | | < 0.5 | |
| 212 | NR | | | | | | < 0.1 |
| 213 | NR | | | | | < 0.11 | |
| 215 | NR | | | | | 1.00 | |
| 220 | NR | | | | | | < 1 |
| 224 | NR | | | | | < 0.5 | |
| 234 | NR | | | | | 0.24 | |
| 236 | NR | | | | | < 0 | |
| 237 | NR | | | | | < 1 | |
| 241 | NR | | | | | < 1 | |

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|---|---|---|-------|-------|
| 245 | NR | | | | | | 0.02 |
| 247 | NR | | | | | | 14.10 |
| 252 | NR | | | | | < 1 | |
| 255 | NR | | | | | < 0.6 | |
| 265 | NR | | | | | | 0.03 |
| 282 | NR | | | | | | < 5 |
| 284 | NR | | | | | < 1 | |
| 289 | NR | | | | | 2.00 | |
| 292 | NR | | | | | < 1 | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Ca (Calcium) mg/L

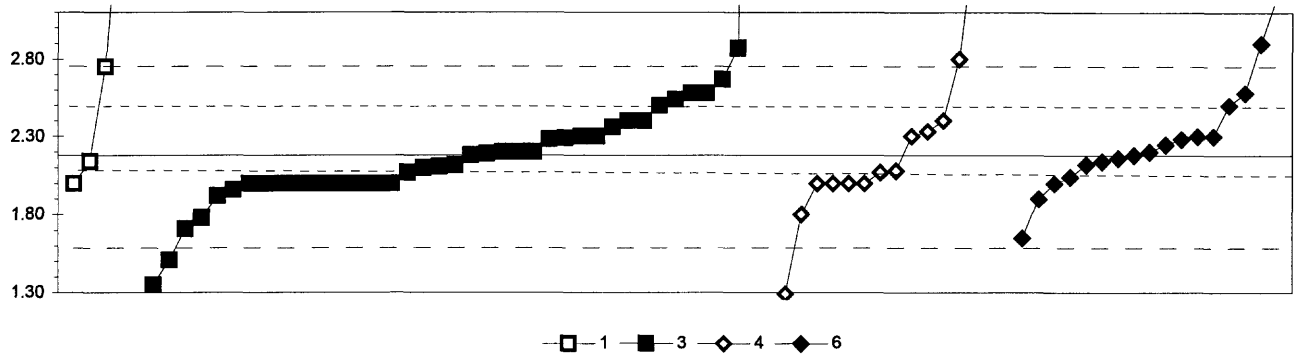


| | | | | | |
|-----------------------------|-------------------------|------|------|------|------|
| 0. Other | 3. AA: graphite furnace | | | | |
| 1. AA: direct air | 4. ICP | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | |
| N = 9 | 22 | 6 | 3 | 54 | 3 |
| Minimum = 40.0 | 35.5 | 37.0 | 41.6 | 38.4 | 41.0 |
| Maximum = 130.0 | 55.3 | 48.7 | 53.7 | 47.8 | 43.2 |
| Median = 42.8 | 41.2 | | | 42.8 | |
| F-pseudosigma = 0.9 | 0.7 | | | 1.9 | |

MPV = 42.3
F-pseudosigma = 1.9
N = 97
Hu = 43.6
Hi = 41.1

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-------|------|------|------|------|------|
| 1 | 4 | -0.16 | | | | | 42.0 | |
| 3 | 1 | 1.76 | | | | | 45.6 | |
| 4 | 2 | 1.46 | | | | | 45.0 | |
| 11 | 0 | 2.05 | | | | | 46.1 | |
| 12 | 4 | -0.16 | | | | | 42.0 | |
| 13 | 2 | 1.35 | | | | | 44.8 | |
| 16 | 2 | 1.46 | | | | | 45.0 | |
| 18 | 4 | -0.32 | | | | | 41.7 | |
| 23 | 0 | 7.01 | | 55.3 | | | | |
| 24 | 4 | -0.05 | | | | | 42.2 | |
| 25 | 1 | 2.00 | | | | | 46.0 | |
| 26 | 4 | 0.27 | | | | | 42.8 | |
| 30 | 4 | 0.38 | | | 43.0 | | | |
| 32 | 4 | 0.38 | | | | | | 43.0 |
| 33 | 4 | 0.27 | 42.8 | | | | | |
| 36 | 3 | -0.70 | | 41.0 | | | | |
| 40 | 3 | -0.70 | | | | | 41.0 | |
| 42 | 0 | 2.99 | | | | | 47.6 | |
| 43 | 4 | -0.16 | | | | | 42.0 | |
| 45 | 4 | -0.11 | 42.1 | | | | | |
| 46 | 3 | -0.65 | | | | | 41.1 | |
| 48 | 4 | 0.43 | | | | | 43.1 | |
| 51 | 3 | -0.65 | | 41.1 | | | | |
| 59 | 4 | 0.38 | | | | | 43.0 | |
| 61 | 2 | 1.30 | | | | | 44.7 | |
| 68 | 4 | -0.16 | | | | | 42.0 | |
| 69 | 3 | -0.86 | | 40.7 | | | | |
| 70 | 3 | 0.92 | | | | | 44.0 | |
| 76 | 4 | 0.11 | | 42.5 | | | | |
| 81 | 3 | 0.81 | | | | 43.8 | | |
| 83 | 2 | -1.46 | | | | | 39.6 | |
| 84 | 4 | -0.38 | | 41.6 | | | | |
| 86 | 2 | 1.19 | | | | | 44.5 | |
| 87 | 4 | -0.16 | | | 42.0 | | | |
| 89 | 3 | -0.76 | | 40.9 | | | | |
| 92 | 0 | -3.67 | | 35.5 | | | | |
| 97 | 4 | -0.38 | | | | 41.6 | | |
| 105 | 4 | -0.38 | | | | | 41.6 | |
| 108 | 0 | 47.32 | 130.0 | | | | | |
| 109 | 4 | -0.43 | | 41.5 | | | | |
| 110 | 4 | 0.32 | | 42.9 | | | | |
| 111 | 0 | 3.45 | | | 48.7 | | | |
| 113 | 1 | 1.94 | | | | | 45.9 | |
| 114 | 0 | -2.86 | | | 37.0 | | | |
| 119 | 3 | 0.70 | | | | | 43.6 | |
| 121 | 4 | -0.16 | | | | | 42.0 | |
| 129 | 2 | 1.46 | | 45.0 | | | | |
| 131 | 4 | 0.27 | | | | | 42.8 | |
| 133 | 3 | 0.86 | | | | | 43.9 | |
| 134 | 4 | -0.27 | | | | | 41.8 | |
| 138 | 4 | 0.16 | | | | | | 42.6 |
| 140 | 1 | -1.78 | | 39.0 | | | | |
| 141 | 1 | 1.51 | | | | | | 45.1 |
| 142 | 4 | -0.02 | | | | | | 42.3 |
| 145 | 3 | 0.59 | | | | | | 43.4 |
| 146 | 4 | -0.22 | | | | | | 41.9 |
| 147 | 4 | 0.38 | | | | | | 43.0 |
| 149 | 3 | -0.86 | | 40.7 | | | | |
| 154 | 4 | 0.00 | | | | | | 42.3 |
| 158 | 4 | 0.49 | | | | | | 43.2 |
| 160 | 4 | -0.11 | | | | | | 42.1 |
| 183 | 0 | -3.51 | | | 35.8 | | | |
| 185 | 3 | -0.70 | | 41.0 | | | | |
| 190 | 0 | 4.21 | 50.1 | | | | | |
| 191 | 3 | -0.70 | | | | | | 41.0 |
| 193 | 3 | -0.76 | | | 40.9 | | | |
| 198 | 2 | 1.35 | | | | | | 44.8 |
| 203 | 4 | -0.49 | | 41.4 | | | | |
| 209 | 0 | 2.16 | | | | | | 46.3 |
| 212 | 3 | 0.70 | | | | | | 43.6 |
| 215 | 3 | -0.65 | | | | | | 41.1 |
| 218 | 3 | 0.90 | | | | | | 44.0 |
| 219 | 4 | 0.38 | | | | | | 43.0 |
| 220 | 2 | -1.13 | | 40.2 | | | | |
| 221 | 3 | -0.54 | | 41.3 | | | | |
| 224 | 1 | -1.53 | | | | | | 39.5 |
| 234 | 3 | 0.59 | | | | | | 43.4 |
| 235 | 0 | -2.10 | | | | | | 38.4 |
| 236 | 2 | -1.05 | | | | | | 40.4 |
| 237 | 4 | 0.11 | | | | | | 42.5 |
| 241 | 4 | 0.38 | | 43.0 | | | | |
| 247 | 2 | -1.24 | 40.0 | | | | | |
| 255 | 4 | -0.29 | | | | | | 41.8 |
| 256 | 2 | -1.24 | | | 40.0 | | | |
| 257 | 4 | 0.38 | 43.0 | | | | | |
| 262 | 4 | 0.05 | 42.4 | | | | | |
| 265 | 3 | -0.97 | | | | | | 40.5 |
| 268 | 1 | -1.73 | | 39.1 | | | | |
| 272 | 3 | 0.56 | 43.3 | | | | | |
| 273 | 2 | 1.24 | | | | | | 44.6 |
| 274 | 0 | 6.15 | | | 53.7 | | | |
| 275 | 2 | -1.24 | 40.0 | | | | | |
| 282 | 4 | 0.49 | | | | | | 43.2 |
| 284 | 3 | -0.59 | | 41.2 | | | | |
| 287 | 3 | -0.56 | | 41.3 | | | | |
| 289 | 4 | 0.00 | | | | | | 42.3 |
| 292 | 4 | -0.27 | | | | | | 41.8 |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Cd (Cadmium) $\mu\text{g/L}$



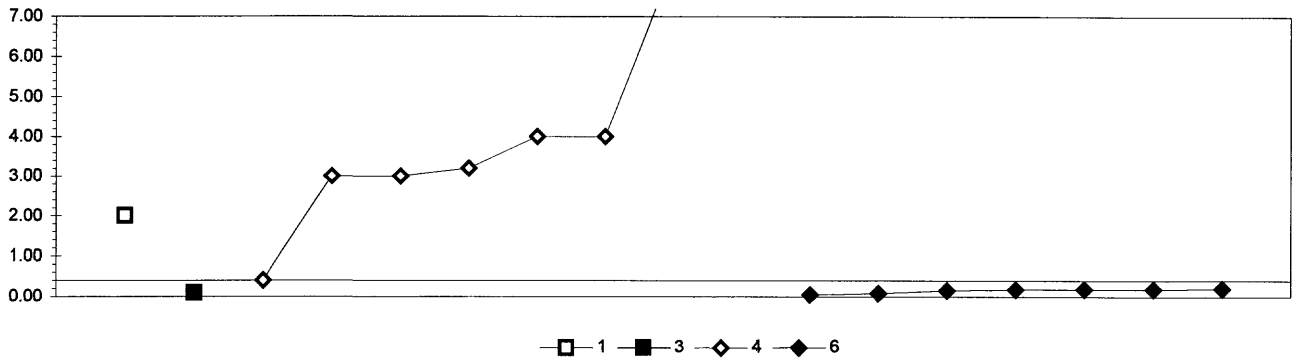
| 1. AA: direct air | | 6. ICP/MS | | | | |
|-------------------------|--|-----------------|------|-------|-------|------|
| 3. AA: graphite furnace | | N = | 5 | 40 | 15 | 17 |
| 4. ICP | | Minimum = | 2.00 | 1.35 | 1.29 | 1.65 |
| | | Maximum = | 4.00 | 15.50 | 15.90 | 3.20 |
| | | Median = | | 2.15 | 2.08 | 2.20 |
| | | F-pseudosigma = | | 0.28 | 0.44 | 0.13 |

MPV = 2.18
F-pseudosigma = 0.30
N = 77
Hu = 2.40
Hi = 2.00

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|------|
| 1 | 4 | 0.40 | | 2.30 | | |
| 3 | 4 | 0.40 | | | 2.30 | |
| 4 | NR | | | | < 10 | |
| 10 | 3 | 0.74 | | 2.40 | | |
| 11 | 3 | -0.61 | | | 2.00 | |
| 12 | 4 | 0.07 | | 2.20 | | |
| 13 | 4 | -0.37 | | | 2.07 | |
| 16 | 4 | 0.07 | | | | 2.20 |
| 18 | NR | | | | < 3 | |
| 25 | NR | | | | < 6 | |
| 26 | 4 | -0.37 | | 2.07 | | |
| 30 | 0 | 2.43 | | | | 2.90 |
| 32 | 4 | 0.00 | | | | 2.18 |
| 34 | 4 | 0.37 | | 2.29 | | |
| 36 | 3 | -0.61 | | 2.00 | | |
| 42 | 0 | 3.44 | | | | 3.20 |
| 46 | 3 | -0.61 | | 2.00 | | |
| 48 | 4 | 0.40 | | | | 2.30 |
| 59 | 3 | -0.61 | | | | 2.00 |
| 61 | 3 | -0.61 | | | 2.00 | |
| 68 | 2 | 1.21 | | 2.54 | | |
| 69 | 3 | -0.74 | | 1.96 | | |
| 70 | 1 | 1.65 | | 2.67 | | |
| 76 | 4 | 0.22 | | | | 2.25 |
| 80 | NR | | < 2 | | | |
| 81 | 3 | -0.61 | | 2.00 | | |
| 83 | NR | | | | < 5 | |
| 87 | 3 | -0.61 | 2.00 | | | |
| 89 | 2 | -1.35 | | 1.78 | | |
| 92 | 0 | 6.14 | 4.00 | | | |
| 96 | 4 | 0.07 | | 2.20 | | |
| 97 | 4 | -0.13 | 2.14 | | | |
| 105 | 3 | -0.94 | | | | 1.90 |
| 108 | 0 | -2.80 | | 1.35 | | |
| 111 | 3 | -0.61 | | 2.00 | | |
| 113 | 3 | 0.51 | | | 2.33 | |
| 114 | NR | | < 10 | | | |
| 118 | 3 | -0.61 | | 2.00 | | |
| 119 | 4 | -0.47 | | | | 2.04 |
| 121 | 3 | 0.74 | | | 2.40 | |
| 126 | 3 | -0.61 | | 2.00 | | |
| 131 | 3 | -0.61 | | | 2.00 | |
| 133 | NR | | | | < 2 | |
| 134 | 4 | -0.24 | | 2.11 | | |
| 138 | 4 | -0.20 | | | | 2.12 |
| 140 | 1 | 1.92 | 2.75 | | | |
| 141 | 3 | 0.61 | | 2.36 | | |
| 142 | 1 | -1.79 | | | | 1.65 |
| 145 | 0 | 6.14 | | | 4.00 | |
| 146 | NR | | | | < 5 | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|-------|--------|------|
| 147 | 4 | -0.13 | | | | 2.14 |
| 151 | 4 | 0.40 | | | | 2.30 |
| 154 | 4 | 0.40 | | 2.30 | | |
| 158 | 0 | -3.00 | | | 1.29 | |
| 180 | NR | | | | < 4.11 | |
| 183 | 2 | 1.35 | | 2.58 | | |
| 190 | 2 | 1.08 | | 2.50 | | |
| 191 | 2 | 1.35 | | | | 2.58 |
| 193 | 3 | -0.61 | | 2.00 | | |
| 198 | 3 | -0.88 | | 1.92 | | |
| 203 | 0 | 2.33 | | 2.87 | | |
| 212 | 4 | 0.34 | | | | 2.28 |
| 213 | 1 | -1.59 | | 1.71 | | |
| 215 | 3 | -0.61 | | 2.00 | | |
| 220 | 0 | 2.09 | | | 2.80 | |
| 221 | 4 | 0.00 | | 2.18 | | |
| 224 | 2 | -1.28 | | | 1.80 | |
| 234 | 0 | 4.92 | | | 3.64 | |
| 235 | 4 | 0.03 | | 2.19 | | |
| 236 | 3 | -0.61 | | | 2.00 | |
| 237 | NR | | | | < 10 | |
| 241 | 4 | 0.07 | | 2.20 | | |
| 245 | 4 | -0.07 | | | | 2.16 |
| 247 | 0 | 44.92 | | 15.50 | | |
| 252 | 4 | 0.34 | | 2.28 | | |
| 255 | 0 | -2.27 | | 1.51 | | |
| 256 | 2 | 1.35 | | 2.58 | | |
| 257 | 0 | 6.14 | 4.00 | | | |
| 259 | 4 | -0.34 | | | 2.08 | |
| 265 | 2 | 1.08 | | | | 2.50 |
| 273 | 0 | 46.27 | | | 15.90 | |
| 274 | 0 | 31.33 | | 11.47 | | |
| 282 | 4 | -0.27 | | 2.10 | | |
| 284 | 3 | -0.61 | | 2.00 | | |
| 287 | 4 | -0.21 | | 2.12 | | |
| 289 | 3 | 0.74 | | 2.40 | | |
| 292 | 3 | -0.61 | | 2.00 | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Co (Cobalt) μg/L

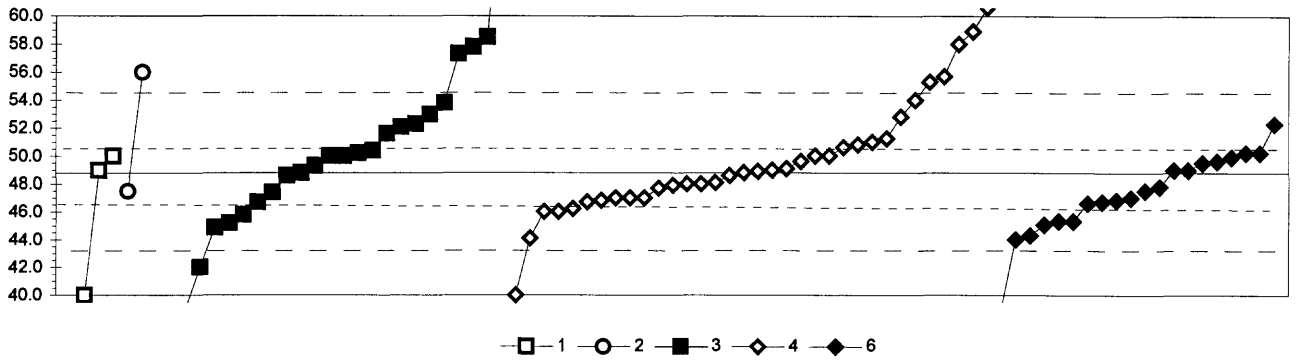


| 1. AA: direct air | | 6. ICP/MS | | | |
|-------------------------|------|-----------|--------|------|--|
| 3. AA: graphite furnace | | | | | |
| 4. ICP | | | | | |
| N = | 1 | 1 | 8 | 7 | |
| Minimum = | 2.00 | 0.10 | 0.40 | 0.05 | |
| Maximum = | | | 231.00 | 0.20 | |
| Median = | | | 3.60 | 0.18 | |
| F-pseudostigma = | | | 2.36 | 0.05 | |

MPV = insufficient data
F-pseudostigma =
N = 17
Hu =
HI =

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|--------|--------|-------|-------|
| 1 | NR | | | < 1 | | |
| 3 | NR | | | | < 5 | |
| 4 | NR | | | | < 100 | |
| 13 | NR | | | | < 10 | |
| 16 | NR | | | | | < 1 |
| 18 | NR | | | | < 10 | |
| 25 | NR | | | | < 12 | |
| 26 | NR | | | | < 6 | |
| 30 | NR | | | | | < 1 |
| 32 | NR | | | | | 0.20 |
| 42 | NR | | | | | < 2 |
| 48 | NR | | | | < 50 | |
| 61 | NR | | | | < 1.7 | |
| 68 | NR | | | | < 8 | |
| 70 | NR | | | | < 50 | |
| 81 | NR | | | | 231 | |
| 89 | NR | | | < 10 | | |
| 92 | NR | 2.00 | | | | |
| 97 | NR | | | < 0.29 | | |
| 105 | NR | | | | | < 1 |
| 119 | NR | | | | | 0.15 |
| 121 | NR | | | | 3.00 | |
| 131 | NR | | | | 3.00 | |
| 134 | NR | | | | < 1 | |
| 138 | NR | | | | | < 0.5 |
| 141 | NR | | | | < 10 | |
| 142 | NR | | | | | < 1 |
| 145 | NR | | | | 4.00 | |
| 146 | NR | | | | < 10 | |
| 147 | NR | | | | | 0.08 |
| 180 | NR | | | < 5.22 | | |
| 191 | NR | | | | | 0.18 |
| 212 | NR | | | | | 0.18 |
| 213 | NR | | | < 0.68 | | |
| 215 | NR | | | | < 1 | |
| 220 | NR | | | | 3.20 | |
| 221 | NR | | | 0.10 | | |
| 224 | NR | | | | < 3 | |
| 234 | NR | | | | 0.40 | |
| 236 | NR | | | | 4.00 | |
| 237 | NR | | | | < 10 | |
| 245 | NR | | | | | 0.19 |
| 247 | NR | | | | | < 1 |
| 255 | NR | | | | < 4.1 | |
| 256 | NR | | < 50 | | | |
| 257 | NR | | < 0.04 | | | |
| 265 | NR | | | | | 0.05 |
| 273 | NR | | | | 8.36 | |
| 282 | NR | | | | | < 20 |
| 284 | NR | | < 10 | | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Cr (Chromium) µg/L



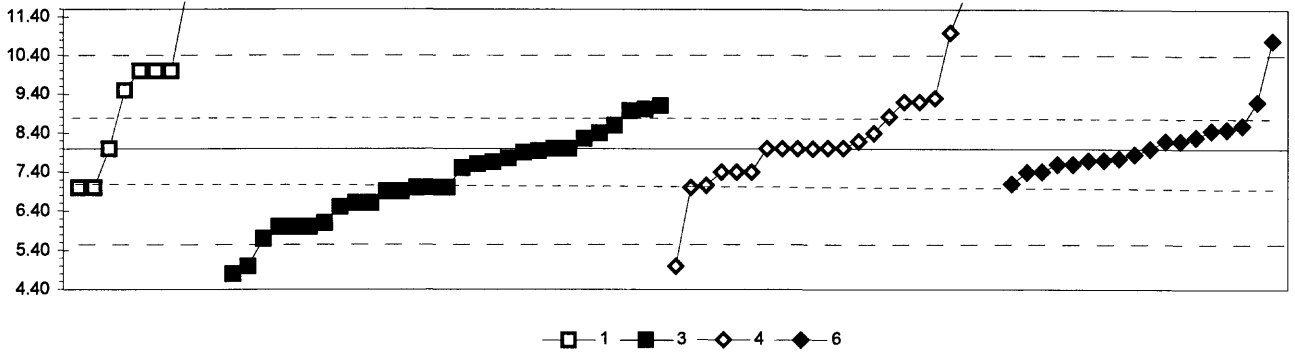
| | | | | | |
|-----------------------------|-----------|------|------|------|------|
| 1. AA: direct air | 4. ICP | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | |
| 3. AA: graphite furnace | | | | | |
| N = | 4 | 2 | 25 | 34 | 20 |
| Minimum = | 17.5 | 47.5 | 12.6 | 40.0 | 38.8 |
| Maximum = | 50.0 | 56.0 | 70.2 | 60.6 | 52.3 |
| Median = | | 50.0 | 48.9 | 47.3 | |
| F-pseudosigma = | | 4.8 | 3.0 | 3.2 | |

MPV = 48.8
F-pseudosigma = 2.9
N = 85
Hu = 50.6
Hi = 46.7

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|---|------|------|------|
| 1 | 3 | -0.73 | | | | | 46.7 |
| 3 | 4 | 0.42 | | | | 50.0 | |
| 4 | 4 | 0.07 | | | | 49.0 | |
| 10 | 4 | 0.17 | | | 49.3 | | |
| 11 | 0 | 3.18 | | | | 58.0 | |
| 12 | 4 | 0.42 | | | | 50.0 | |
| 13 | 4 | 0.03 | | | | 48.9 | |
| 16 | 4 | -0.35 | | | | | 47.8 |
| 18 | 3 | -0.62 | | | | 47.0 | |
| 19 | 4 | -0.38 | | | | 47.7 | |
| 23 | 3 | -0.73 | | | 46.7 | | |
| 25 | 3 | -0.97 | | | | 46.0 | |
| 26 | 0 | -3.04 | | | | 40.0 | |
| 30 | 4 | 0.24 | | | | | 49.5 |
| 32 | 4 | 0.07 | | | | | 49.0 |
| 36 | 4 | 0.42 | | | 50.0 | | |
| 40 | 1 | -1.63 | | | | 44.1 | |
| 42 | 0 | -3.46 | | | | | 38.8 |
| 46 | 2 | -1.36 | | | 44.9 | | |
| 48 | 3 | -0.69 | | | | 46.8 | |
| 59 | 3 | -0.62 | | | | | 47.0 |
| 61 | 3 | 0.69 | | | | 50.8 | |
| 68 | 3 | -0.97 | | | | 46.0 | |
| 69 | 2 | -1.25 | | | 45.2 | | |
| 70 | 4 | 0.28 | | | | 49.6 | |
| 76 | 2 | -1.29 | | | | | 45.1 |
| 81 | 2 | 1.45 | | | 53.0 | | |
| 83 | 3 | -0.73 | | | | 46.7 | |
| 86 | 4 | -0.07 | | | | 48.6 | |
| 87 | 4 | -0.45 | | | 47.5 | | |
| 89 | 1 | 1.73 | | | | 53.8 | |
| 92 | 0 | -10.83 | 17.5 | | | | |
| 96 | 2 | 1.21 | | | | 52.3 | |
| 97 | 0 | 3.11 | | | | 57.8 | |
| 105 | 1 | -1.66 | | | | | 44.0 |
| 108 | 0 | -3.39 | | | | 39.0 | |
| 111 | 0 | 3.36 | | | | 58.5 | |
| 113 | 4 | -0.24 | | | | 48.1 | |
| 114 | 0 | 2.49 | | | 56.0 | | |
| 118 | 0 | 2.94 | | | | 57.3 | |
| 119 | 4 | 0.48 | | | | | 50.2 |
| 126 | 0 | -2.35 | | | 42.0 | | |
| 131 | 0 | 2.39 | | | | 55.7 | |
| 133 | 0 | 2.25 | | | | 55.3 | |
| 134 | 4 | -0.31 | | | | 47.9 | |
| 138 | 1 | -1.56 | | | | | 44.3 |
| 140 | 4 | 0.42 | 50.0 | | | | |
| 141 | 0 | 3.49 | | | | 58.9 | |
| 142 | 4 | -0.45 | | | | | 47.5 |
| 143 | 4 | 0.48 | | | | 50.2 | |

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|------|---|------|------|------|
| 145 | 1 | 1.80 | | | | 54.0 | |
| 146 | 3 | 0.62 | | | | 50.6 | |
| 147 | 4 | 0.07 | | | | | 49.0 |
| 151 | 3 | -0.76 | | | | | 46.6 |
| 154 | 4 | 0.42 | | | | | |
| 158 | 0 | 4.08 | | | 50.0 | | |
| 180 | 4 | 0.10 | | | | 60.6 | |
| 183 | 3 | 0.97 | | | | 49.1 | |
| 190 | 4 | 0.00 | | | 51.6 | | |
| 191 | 2 | 1.21 | | | | 48.8 | |
| 193 | 3 | 0.55 | | | | | 52.3 |
| 198 | 2 | 1.38 | | | | | |
| 212 | 2 | -1.21 | | | | | 45.3 |
| 213 | 2 | 1.14 | | | | | |
| 215 | 3 | -0.62 | | | 52.1 | | |
| 219 | 4 | -0.28 | | | | 47.0 | |
| 221 | 2 | -1.04 | | | | 48.0 | |
| 234 | 3 | -0.90 | | | | | 46.2 |
| 235 | 4 | 0.48 | | | | | 50.2 |
| 236 | 4 | -0.28 | | | | 48.0 | |
| 237 | 3 | 0.76 | | | | 51.0 | |
| 241 | 4 | -0.48 | | | 47.4 | | |
| 245 | 2 | -1.21 | | | | | 45.3 |
| 247 | 0 | -12.52 | | | 12.6 | | |
| 252 | 4 | -0.07 | | | | 48.6 | |
| 255 | 3 | 0.84 | | | | | 51.2 |
| 256 | 0 | -3.04 | 40.0 | | | | |
| 257 | 0 | 7.41 | | | 70.2 | | |
| 259 | 3 | -0.69 | | | | 46.8 | |
| 265 | 4 | 0.28 | | | | | 49.6 |
| 273 | 4 | 0.00 | | | | 48.8 | |
| 282 | 4 | 0.38 | | | | | 49.9 |
| 284 | 0 | -4.77 | | | 35.0 | | |
| 287 | 4 | 0.07 | 49.0 | | | | |
| 292 | 3 | -0.62 | | | | | 47.0 |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Cu (Copper) $\mu\text{g/L}$



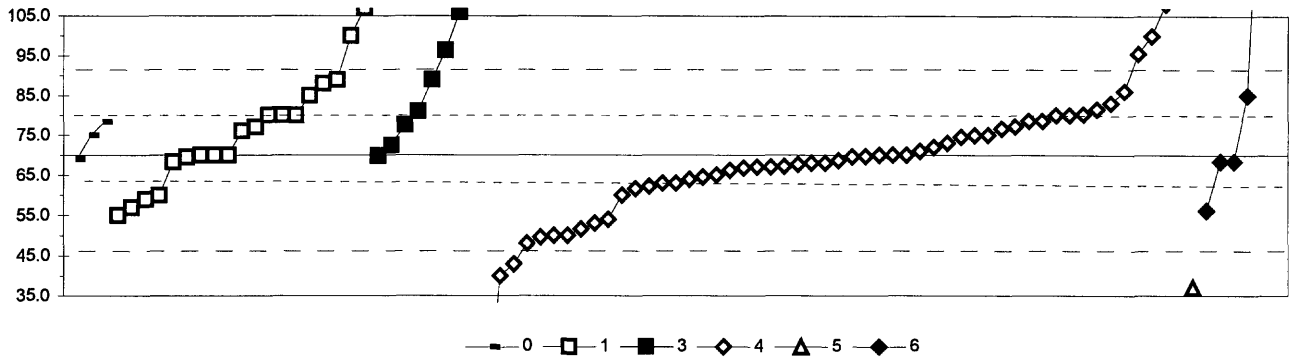
| | | 6. ICP/MS | | | |
|-------------------------|-----------------|-----------|------|-------|-------|
| 1. AA: direct air | | | | | |
| 3. AA: graphite furnace | | | | | |
| 4. ICP | | | | | |
| | N = | 10 | 29 | 22 | 18 |
| | Minimum = | 7.00 | 4.80 | 5.00 | 7.10 |
| | Maximum = | 20.00 | 9.10 | 16.50 | 10.80 |
| | Median = | 10.00 | 7.00 | 8.02 | 7.93 |
| | F-pseudosigma = | 2.97 | 1.11 | 1.33 | 0.64 |

MPV = 8.00
F-pseudosigma = 1.21
N = 79
Hu = 8.71
Hi = 7.08

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|-------|------|-------|-------|
| 1 | 4 | -0.33 | | | | 7.60 |
| 3 | 4 | 0.00 | | | 8.00 | |
| 4 | 0 | -2.48 | | | < 5 | |
| 10 | 2 | -1.16 | | 6.60 | | |
| 11 | 0 | 2.48 | | | 11.00 | |
| 12 | 3 | -0.83 | | 7.00 | | |
| 13 | NR | | | | < 20 | |
| 16 | 4 | 0.17 | | | | 8.20 |
| 18 | 4 | 0.00 | | | 8.00 | |
| 19 | 1 | -1.66 | | 6.00 | | |
| 23 | 3 | 0.84 | | 9.01 | | |
| 25 | NR | | | | < 7 | |
| 26 | 4 | 0.00 | | 8.00 | | |
| 30 | 4 | 0.25 | | | | 8.30 |
| 32 | 3 | 0.99 | | | | 9.20 |
| 36 | 2 | -1.24 | | 6.50 | | |
| 42 | 3 | -0.74 | | | | 7.10 |
| 46 | 3 | 0.80 | | 8.97 | | |
| 48 | 4 | 0.17 | | | | 8.20 |
| 59 | 4 | 0.00 | | | | 8.00 |
| 61 | 4 | -0.50 | | | 7.40 | |
| 68 | 3 | -0.83 | | | 7.00 | |
| 69 | 1 | -1.57 | | 6.10 | | |
| 70 | NR | | | | < 10 | |
| 80 | 0 | -2.65 | | 4.80 | | |
| 81 | 3 | -0.83 | | 7.00 | | |
| 83 | 4 | -0.50 | | | 7.40 | |
| 84 | 4 | 0.22 | | 8.26 | | |
| 86 | 0 | 7.03 | | | | 16.50 |
| 87 | 3 | -0.83 | 7.00 | | | |
| 89 | NR | | | | < 10 | |
| 92 | 1 | 1.66 | 10.00 | | | |
| 96 | 2 | -1.16 | | 6.60 | | |
| 97 | 3 | 0.91 | | 9.10 | | |
| 105 | 4 | -0.33 | | | | 7.60 |
| 108 | 4 | 0.00 | 8.00 | | | |
| 111 | 3 | -0.91 | | 6.90 | | |
| 113 | 4 | 0.16 | | | 8.19 | |
| 114 | NR | | | < 10 | | |
| 118 | 4 | -0.08 | | 7.90 | | |
| 119 | 0 | 3.31 | | | 12.00 | |
| 121 | 4 | 0.00 | | | 8.00 | |
| 126 | 0 | 9.93 | 20.00 | | | |
| 131 | NR | | | | < 8 | |
| 133 | 3 | -0.78 | | | 7.06 | |
| 134 | 4 | -0.21 | | 7.75 | | |
| 138 | 4 | -0.24 | | | | 7.71 |
| 140 | 0 | 3.72 | 12.50 | | | |
| 141 | 3 | -0.91 | | 6.90 | | |
| 142 | 4 | -0.50 | | | | 7.40 |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|-------|------|-------|-------|
| 145 | 0 | 5.79 | | | 15.00 | |
| 146 | NR | | | | < 25 | |
| 147 | 4 | -0.25 | | | | 7.70 |
| 149 | 3 | -0.83 | 7.00 | | | |
| 151 | 4 | 0.50 | | | | 8.60 |
| 154 | 1 | -1.90 | | 5.70 | | |
| 158 | 4 | 0.33 | | | 8.40 | |
| 180 | 3 | 0.99 | | | 9.20 | |
| 183 | 4 | 0.33 | | 8.40 | | |
| 190 | 4 | -0.41 | | 7.50 | | |
| 191 | 4 | 0.38 | | | | 8.46 |
| 193 | NR | | < 25 | | | |
| 198 | NR | | | | < 10 | |
| 203 | 2 | 1.24 | 9.50 | | | |
| 212 | 4 | -0.12 | | | | 7.86 |
| 213 | 4 | -0.05 | | 7.94 | | |
| 215 | 4 | 0.00 | | 8.00 | | |
| 220 | 2 | 1.08 | | | 9.30 | |
| 221 | 4 | -0.29 | | 7.65 | | |
| 224 | 3 | 0.99 | | | 9.20 | |
| 234 | 4 | 0.02 | | | 8.02 | |
| 235 | 4 | -0.21 | | | | 7.75 |
| 236 | 0 | -2.48 | | | 5.00 | |
| 237 | 4 | 0.00 | | | 8.00 | |
| 241 | 4 | 0.50 | | 8.60 | | |
| 245 | 4 | -0.49 | | | | 7.41 |
| 247 | 0 | 2.32 | | | | 10.80 |
| 252 | 4 | -0.33 | | 7.60 | | |
| 255 | 4 | 0.02 | | | 8.02 | |
| 256 | 1 | 1.66 | 10.00 | | | |
| 257 | 0 | 3.31 | 12.00 | | | |
| 259 | 4 | -0.50 | | | 7.40 | |
| 265 | 4 | 0.41 | | | | 8.50 |
| 273 | 3 | 0.68 | | | 8.82 | |
| 274 | 0 | -2.48 | | 5.00 | | |
| 282 | NR | | | | < 10 | |
| 284 | 1 | -1.66 | | 6.00 | | |
| 287 | 1 | 1.66 | 10.00 | | | |
| 289 | 1 | -1.66 | | 6.00 | | |
| 292 | 3 | -0.83 | | 7.00 | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Fe (Iron) μg/L



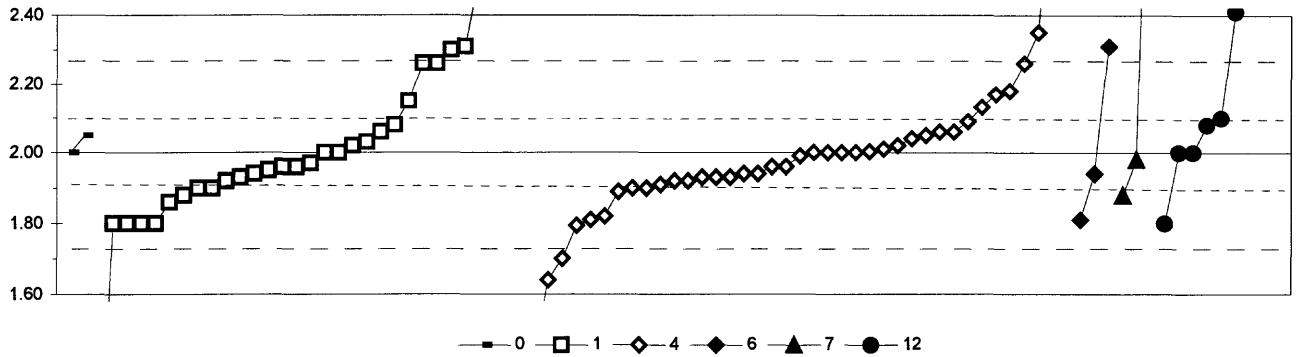
| | | | | | | |
|-------------------------|----------------|------|-------|-------|-------|-------|
| 0. Other | 4. ICP | | | | | |
| 1. AA: direct air | 5. DCP | | | | | |
| 3. AA: graphite furnace | 6. ICP/MS | | | | | |
| | N = | 3 | 19 | 8 | 52 | 1 |
| | Minimum = | 69.0 | 55.0 | 69.8 | 0.1 | 37.0 |
| | Maximum = | 78.4 | 107.0 | 121.5 | 190.0 | 206.0 |
| | Median = | 76.0 | 85.0 | 68.3 | | |
| | F-pseudsigma = | 10.1 | 19.4 | 10.6 | | |

MPV = 70.0
F-pseudsigma = 11.5
N = 89
Hu = 80.0
Hl = 64.5

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 5 | 6 |
|-----|--------|---------|------|-------|-------|-------|------|-------|
| 1 | 4 | -0.20 | | | | 67.7 | | |
| 3 | 3 | 0.87 | | | | 80.0 | | |
| 4 | 4 | -0.26 | | | | 67.0 | | |
| 10 | 3 | 0.61 | | 77.0 | | | | |
| 11 | 0 | 10.44 | | | | 190.0 | | |
| 12 | 3 | 0.87 | | | | 80.0 | | |
| 13 | 1 | -1.78 | | | | 49.6 | | |
| 16 | 4 | 0.43 | | | | 74.9 | | |
| 18 | 4 | 0.00 | | | | 70.0 | | |
| 19 | 4 | -0.03 | | | | 69.6 | | |
| 21 | 4 | -0.09 | 69.0 | | | | | |
| 23 | 0 | 2.30 | | | 96.4 | | | |
| 25 | 2 | -1.39 | | | | 54.0 | | |
| 26 | 4 | 0.17 | | | | 71.9 | | |
| 32 | 0 | 7.83 | | | | | | 160.0 |
| 33 | 0 | -2.87 | | | | | 37.0 | |
| 40 | 4 | -0.12 | | | | 68.6 | | |
| 42 | 2 | 1.13 | | | | 83.0 | | |
| 43 | 4 | 0.09 | | | | 71.0 | | |
| 46 | 4 | -0.24 | | | | 67.2 | | |
| 48 | 0 | -3.48 | | | | < 30 | | |
| 61 | 3 | 0.74 | | | | 78.5 | | |
| 68 | 0 | 2.61 | | | | 100.0 | | |
| 69 | 4 | -0.04 | | 69.5 | | | | |
| 70 | 3 | -0.52 | | | | 64.0 | | |
| 80 | 4 | 0.00 | | 70.0 | | | | |
| 81 | 1 | -1.74 | | | | 50.0 | | |
| 83 | 4 | -0.33 | | | | 66.2 | | |
| 86 | 0 | -2.61 | | | | 40.0 | | |
| 87 | 2 | -1.13 | | 57.0 | | | | |
| 89 | 0 | 3.13 | | | 106.0 | | | |
| 91 | 4 | -0.14 | | | | | 68.4 | |
| 92 | 0 | 2.61 | | 100.0 | | | | |
| 96 | 3 | 0.87 | | 80.0 | | | | |
| 97 | 4 | 0.21 | | | 72.4 | | | |
| 105 | 3 | -0.61 | | | | 63.0 | | |
| 108 | 0 | 3.22 | | 107.0 | | | | |
| 109 | 4 | -0.15 | | 68.3 | | | | |
| 111 | 3 | 0.87 | | 80.0 | | | | |
| 113 | 4 | 0.00 | | | | 70.0 | | |
| 119 | 4 | 0.44 | | | | 75.0 | | |
| 121 | 4 | -0.17 | | | | 68.0 | | |
| 126 | 2 | 1.31 | | 85.0 | | | | |
| 129 | 4 | 0.44 | 75.0 | | | | | |
| 131 | 3 | 0.62 | | | | 77.1 | | |
| 133 | 3 | 0.89 | | | | 80.2 | | |
| 134 | 4 | -0.17 | | | | 68.0 | | |
| 138 | 3 | -0.68 | | | | 62.2 | | |
| 140 | 3 | -0.87 | | 60.0 | | | | |
| 141 | 1 | -1.60 | | | | 51.6 | | |

| Lab | Rating | Z-value | 0 | 1 | 3 | 4 | 5 | 6 |
|-----|--------|---------|------|------|-------|-------|---|-------|
| 142 | 3 | -0.87 | | | | 60.0 | | |
| 145 | 3 | -0.61 | | | | 63.0 | | |
| 146 | 3 | 0.57 | | | | 76.6 | | |
| 147 | 0 | -6.09 | | | | 0.1 | | |
| 149 | 4 | 0.00 | | 70.0 | | | | |
| 151 | 2 | -1.20 | | | | | | 56.2 |
| 154 | 0 | -2.35 | | | | 43.0 | | |
| 158 | 3 | -0.73 | | | | 61.6 | | |
| 180 | 2 | -1.48 | | | | 53.0 | | |
| 185 | 4 | 0.00 | | 70.0 | | | | |
| 190 | 3 | 0.73 | 78.4 | | | | | |
| 191 | 2 | 1.31 | | | | | | 85.0 |
| 198 | NR | | | | | < 100 | | |
| 203 | 3 | 0.87 | | 80.0 | | | | |
| 212 | 0 | 3.31 | | | | 108.0 | | |
| 213 | 4 | -0.02 | | | 69.8 | | | |
| 215 | 4 | 0.26 | | | | 73.0 | | |
| 218 | 3 | 0.74 | | | | 78.5 | | |
| 219 | 4 | -0.44 | | | | 65.0 | | |
| 220 | 0 | 2.23 | | | | 95.6 | | |
| 221 | 3 | 0.96 | | | 81.0 | | | |
| 224 | 2 | 1.40 | | | | 86.1 | | |
| 234 | 4 | -0.28 | | | | 66.8 | | |
| 235 | 1 | -1.74 | | | | 50.0 | | |
| 236 | 4 | -0.26 | | | | 67.0 | | |
| 237 | 1 | -1.91 | | | | 48.0 | | |
| 241 | 3 | -0.96 | | 59.0 | | | | |
| 245 | 0 | 11.84 | | | | | | 206.0 |
| 252 | 1 | 1.65 | | 89.0 | | | | |
| 255 | 3 | 1.00 | | | | 81.5 | | |
| 256 | 2 | -1.31 | | 55.0 | | | | |
| 257 | 3 | 0.66 | | | 77.6 | | | |
| 259 | 4 | -0.03 | | | | 69.7 | | |
| 265 | 4 | 0.39 | | | | 74.5 | | |
| 273 | 4 | -0.48 | | | | 64.5 | | |
| 274 | 0 | 4.48 | | | 121.5 | | | |
| 282 | 4 | -0.14 | | | | | | 68.4 |
| 284 | 3 | 0.52 | | 76.0 | | | | |
| 287 | 1 | 1.57 | | 88.0 | | | | |
| 289 | 1 | 1.65 | | | 89.0 | | | |
| 292 | 4 | 0.00 | | | | 70.0 | | |

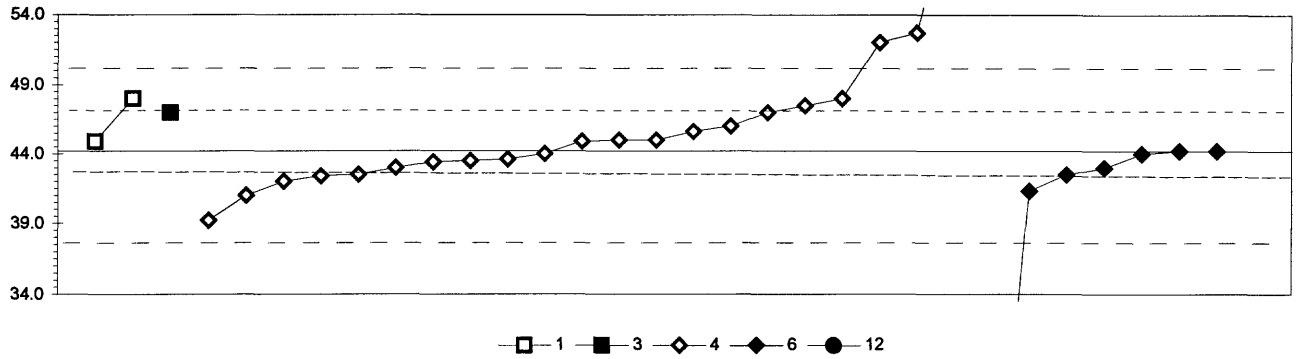
Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
K (Potassium) mg/L



| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|------|------|------|------|------|----|
| 1 | 3 | -0.85 | | 1.88 | | | | |
| 3 | 0 | -2.13 | | | 1.70 | | | |
| 11 | 4 | 0.28 | | | 2.04 | | | |
| 12 | 4 | 0.00 | | | 2.00 | | | |
| 13 | 4 | -0.28 | | | 1.96 | | | |
| 16 | 0 | 2.13 | | 2.30 | | | | |
| 18 | 4 | 0.00 | | | 2.00 | | | |
| 23 | 2 | -1.42 | | 1.80 | | | | |
| 24 | 2 | -1.47 | | | 1.79 | | | |
| 25 | 3 | -0.57 | | | 1.92 | | | |
| 26 | 4 | -0.14 | | | | 1.98 | | |
| 30 | 2 | -1.42 | | | | | 1.80 | |
| 32 | 4 | -0.43 | | | | 1.94 | | |
| 33 | 4 | 0.00 | 2.00 | | | | | |
| 36 | 4 | 0.00 | | 2.00 | | | | |
| 40 | 4 | -0.50 | | | 1.93 | | | |
| 42 | 4 | 0.02 | | | 2.00 | | | |
| 43 | 3 | -0.71 | | | 1.90 | | | |
| 45 | 4 | 0.35 | 2.05 | | | | | |
| 46 | 4 | 0.14 | | | 2.02 | | | |
| 48 | 3 | -0.57 | | | 1.92 | | | |
| 51 | 3 | 0.57 | | | | | 2.08 | |
| 61 | 0 | 10.58 | | | 3.49 | | | |
| 64 | 4 | 0.43 | | 2.06 | | | | |
| 68 | 3 | -0.71 | | | 1.90 | | | |
| 69 | 3 | 0.71 | | | | | 2.10 | |
| 70 | 4 | -0.28 | | | 1.96 | | | |
| 81 | 4 | 0.07 | | | 2.01 | | | |
| 83 | 4 | -0.21 | | 1.97 | | | | |
| 86 | 4 | -0.43 | | | 1.94 | | | |
| 87 | 0 | -7.81 | | 0.90 | | | | |
| 89 | 4 | -0.28 | | 1.96 | | | | |
| 92 | 2 | -1.42 | | 1.80 | | | | |
| 97 | 3 | -0.71 | | 1.90 | | | | |
| 105 | 4 | -0.43 | | | 1.94 | | | |
| 108 | 0 | 3820 | | | | | 540 | |
| 109 | 3 | 0.57 | | 2.08 | | | | |
| 110 | 0 | 2.20 | | 2.31 | | | | |
| 111 | 4 | -0.36 | | 1.95 | | | | |
| 113 | 2 | 1.21 | | | 2.17 | | | |
| 114 | 2 | 1.07 | | 2.15 | | | | |
| 119 | 0 | 5.68 | | | 2.80 | | | |
| 129 | 0 | 4.97 | | 2.70 | | | | |
| 131 | 4 | 0.00 | | | 2.00 | | | |
| 134 | 3 | -0.71 | | 1.90 | | | | |
| 138 | 2 | -1.35 | | | 1.81 | | | |
| 140 | 4 | -0.28 | | 1.96 | | | | |
| 141 | 3 | 0.64 | | | 2.09 | | | |
| 142 | 3 | -0.64 | | | 1.91 | | | |
| 145 | 4 | 0.43 | | | 2.06 | | | |

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|---|------|------|------|------|------|
| 146 | 0 | 2.49 | | | 2.35 | | | |
| 149 | 4 | 0.00 | | 2.00 | | | | |
| 154 | 2 | -1.28 | | | 1.82 | | | |
| 158 | 0 | -2.56 | | | 1.64 | | | |
| 180 | 1 | 1.85 | | | 2.26 | | | |
| 185 | 3 | -0.99 | | 1.86 | | | | |
| 190 | 3 | -0.85 | | | | | 1.88 | |
| 191 | 2 | -1.35 | | | | 1.81 | | |
| 193 | 3 | -0.57 | | 1.92 | | | | |
| 198 | 4 | -0.43 | | 1.94 | | | | |
| 203 | 1 | 1.85 | | 2.26 | | | | |
| 212 | 4 | 0.43 | | | 2.06 | | | |
| 215 | 0 | -7.10 | | | 1.00 | | | |
| 218 | 2 | 1.28 | | | 2.18 | | | |
| 219 | 4 | 0.00 | | | 2.00 | | | |
| 220 | 4 | 0.14 | | 2.02 | | | | |
| 221 | 4 | -0.50 | | 1.93 | | | | |
| 224 | 3 | 0.94 | | | 2.13 | | | |
| 234 | 4 | -0.07 | | | 1.99 | | | |
| 236 | 0 | -4.07 | | | 1.43 | | | |
| 241 | 2 | -1.42 | | 1.80 | | | | |
| 247 | 0 | 9.87 | | | | | 3.39 | |
| 255 | 4 | -0.50 | | | 1.93 | | | |
| 256 | 0 | 8.02 | | | | | | 3.13 |
| 257 | 0 | 4.26 | | | | | | 2.60 |
| 259 | 4 | 0.21 | | 2.03 | | | | |
| 265 | 4 | -0.50 | | | 1.93 | | | |
| 268 | 0 | 3.62 | | 2.51 | | | | |
| 272 | 4 | 0.00 | | | | | | 2.00 |
| 273 | 4 | 0.35 | | | 2.05 | | | |
| 274 | 0 | 2.91 | | | | | | 2.41 |
| 275 | 4 | 0.00 | | | | | | 2.00 |
| 282 | 0 | 2.20 | | | | 2.31 | | |
| 284 | 1 | 1.85 | | 2.26 | | | | |
| 287 | 0 | 10.59 | | 3.49 | | | | |
| 289 | 3 | -0.78 | | | 1.89 | | | |
| 292 | 2 | -1.42 | | 1.80 | | | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Li (Lithium) $\mu\text{g/L}$

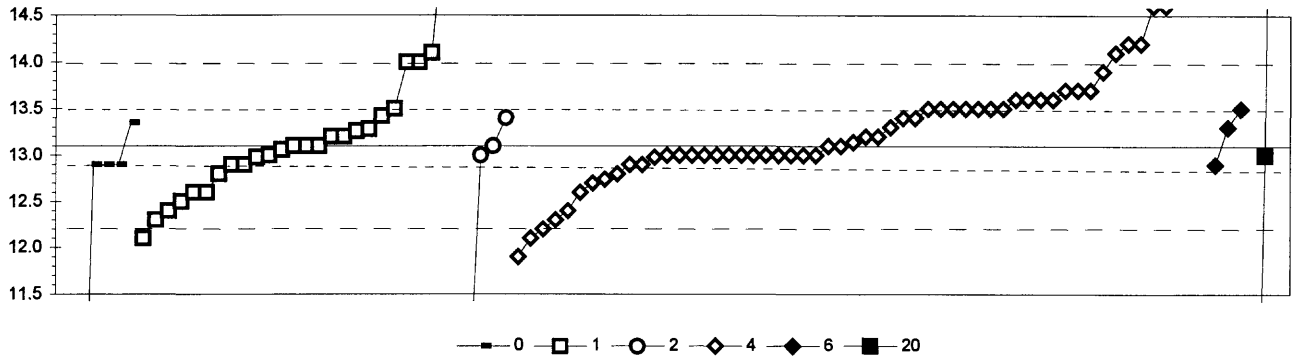


| 1. AA: direct air | | | 6. ICP/MS | | | | |
|-------------------------|-----------------|--|--------------------|------|------|------|-------|
| 3. AA: graphite furnace | | | 12. Flame emission | | | | |
| 4. ICP | | | | | | | |
| | N = | | 2 | 1 | 21 | 7 | 1 |
| | Minimum = | | 44.9 | 47.0 | 39.2 | 13.1 | 180.0 |
| | Maximum = | | 48.0 | | 63.0 | 44.2 | |
| | Median = | | | | 44.9 | 43.0 | |
| | F-pseudosigma = | | | | 3.0 | 1.6 | |

MPV = 44.2
F-pseudosigma = 3.2
N = 32
Hu = 47.0
Hi = 42.8

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 | 12 |
|-----|--------|---------|------|------|------|------|-------|
| 1 | 4 | -0.22 | | | 43.5 | | |
| 3 | 2 | 1.21 | | | 48.0 | | |
| 4 | 4 | -0.38 | | | 43.0 | | |
| 11 | 4 | 0.25 | | | 45.0 | | |
| 16 | 4 | 0.00 | | | | 44.2 | |
| 25 | 3 | 0.89 | | | 47.0 | | |
| 26 | 4 | 0.44 | | | 45.6 | | |
| 32 | 3 | -0.54 | | | | 42.5 | |
| 40 | 3 | -0.54 | | | 42.5 | | |
| 68 | 4 | -0.06 | | | 44.0 | | |
| 69 | 3 | 0.89 | | 47.0 | | | |
| 76 | 3 | -0.91 | | | | 41.3 | |
| 105 | 1 | -1.59 | | | 39.2 | | |
| 109 | 4 | 0.22 | 44.9 | | | | |
| 131 | 2 | 1.05 | | | 47.5 | | |
| 134 | 4 | -0.25 | | | 43.4 | | |
| 142 | 4 | 0.25 | | | 45.0 | | |
| 145 | 3 | 0.57 | | | 46.0 | | |
| 147 | 4 | -0.06 | | | | 44.0 | |
| 151 | 4 | 0.00 | | | | 44.2 | |
| 212 | 4 | -0.19 | | | 43.6 | | |
| 219 | 3 | -0.70 | | | 42.0 | | |
| 220 | 3 | -0.58 | | | 42.4 | | |
| 234 | 4 | 0.22 | | | 44.9 | | |
| 236 | 2 | -1.02 | | | 41.0 | | |
| 237 | 0 | 2.48 | | | 52.0 | | |
| 247 | 0 | -9.87 | | | | 13.1 | |
| 256 | 0 | 43.10 | | | | | 180.0 |
| 257 | 2 | 1.21 | 48.0 | | | | |
| 265 | 4 | -0.38 | | | 43.0 | | |
| 273 | 0 | 2.70 | | | 52.7 | | |
| 289 | 0 | 5.97 | | | 63.0 | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Mg (Magnesium) mg/L



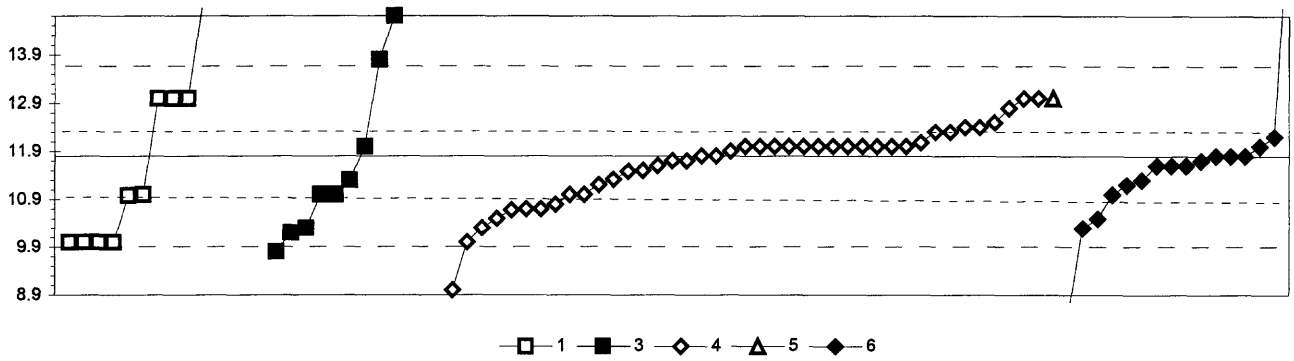
| | | | | | | |
|-----------------------------|---------------------------|------|------|------|------|------|
| 0. Other | 4. ICP | | | | | |
| 1. AA: direct air | 6. ICP/MS | | | | | |
| 2. AA: direct nitrous oxide | 20. Titrate: colorimetric | | | | | |
| | N = | 6 | 26 | 4 | 56 | 3 |
| | Minimum = | 7.1 | 12.1 | 10.1 | 11.9 | 12.9 |
| | Maximum = | 13.4 | 15.5 | 13.4 | 15.3 | 13.5 |
| | Median = | | 13.1 | | 13.2 | |
| | F-pseudsigma = | | 0.5 | | 0.4 | |

MPV = 13.1
F-pseudsigma = 0.7
N = 98
Hu = 13.5
HI = 12.9

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 | 20 |
|-----|--------|---------|------|------|------|------|------|----|
| 1 | 4 | 0.00 | | | | 13.1 | | |
| 3 | 4 | 0.00 | | | | 13.1 | | |
| 4 | 4 | -0.15 | | | | 13.0 | | |
| 11 | 1 | 1.69 | | | | 14.2 | | |
| 12 | 0 | 2.31 | | | | 14.6 | | |
| 13 | 3 | 0.62 | | | | 13.5 | | |
| 16 | 3 | 0.92 | | | | 13.7 | | |
| 18 | 4 | -0.46 | | | | 12.8 | | |
| 23 | 3 | 0.62 | | 13.5 | | | | |
| 24 | 4 | -0.15 | | | | 13.0 | | |
| 25 | 1 | 1.54 | | | | 14.1 | | |
| 26 | 3 | 0.62 | | | | 13.5 | | |
| 30 | 4 | 0.00 | | | 13.1 | | | |
| 32 | 4 | -0.31 | | | | | 12.9 | |
| 33 | 4 | -0.31 | 12.9 | | | | | |
| 36 | 1 | 1.54 | | 14.1 | | | | |
| 40 | 3 | 0.77 | | | | 13.6 | | |
| 42 | 0 | 3.35 | | | | 15.3 | | |
| 43 | 4 | -0.15 | | | | 13.0 | | |
| 45 | 4 | -0.31 | 12.9 | | | | | |
| 46 | 3 | -0.55 | | | | 12.7 | | |
| 48 | 4 | -0.15 | | | | 13.0 | | |
| 51 | 4 | -0.15 | | 13.0 | | | | |
| 59 | 4 | -0.15 | | | | 13.0 | | |
| 61 | 1 | 1.69 | | | | 14.2 | | |
| 64 | 4 | -0.15 | | | | 13.0 | | |
| 68 | 4 | -0.15 | | | | 13.0 | | |
| 69 | 4 | 0.15 | | 13.2 | | | | |
| 70 | 3 | 0.62 | | | | 13.5 | | |
| 76 | 4 | 0.25 | | 13.3 | | | | |
| 81 | 2 | 1.23 | | | | 13.9 | | |
| 83 | 1 | -1.54 | | | | 12.1 | | |
| 84 | 2 | -1.23 | | 12.3 | | | | |
| 86 | 4 | 0.31 | | | | 13.3 | | |
| 87 | 3 | -0.77 | | 12.6 | | | | |
| 89 | 4 | 0.15 | | 13.2 | | | | |
| 92 | 3 | -0.92 | | 12.5 | | | | |
| 97 | 4 | -0.31 | | 12.9 | | | | |
| 105 | 2 | -1.23 | | | | 12.3 | | |
| 109 | 4 | 0.00 | | 13.1 | | | | |
| 110 | 4 | -0.31 | 12.9 | | | | | |
| 111 | 4 | -0.15 | | | 13.0 | | | |
| 113 | 0 | 2.31 | | | | 14.6 | | |
| 114 | 4 | 0.46 | | | 13.4 | | | |
| 119 | 3 | 0.62 | | | | 13.5 | | |
| 121 | 4 | -0.15 | | | | 13.0 | | |
| 129 | 2 | 1.38 | | 14.0 | | | | |
| 131 | 1 | -1.85 | | | | 11.9 | | |
| 133 | 3 | 0.77 | | | | 13.6 | | |
| 134 | 4 | -0.31 | | | | 12.9 | | |

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 | 20 |
|-----|--------|---------|------|------|------|------|------|------|
| 138 | 4 | -0.15 | | | | 13.0 | | |
| 140 | 3 | -0.77 | | 12.6 | | | | |
| 141 | 3 | 0.92 | | | | 13.7 | | |
| 142 | 4 | 0.46 | | | | 13.4 | | |
| 145 | 3 | 0.92 | | | | 13.7 | | |
| 146 | 4 | -0.15 | | | | 13.0 | | |
| 147 | 3 | 0.62 | | | | 13.5 | | |
| 149 | 2 | -1.08 | | 12.4 | | | | |
| 154 | 3 | 0.77 | | | | 13.6 | | |
| 158 | 4 | 0.46 | | | | 13.4 | | |
| 180 | 4 | -0.15 | | | | 13.0 | | |
| 183 | 0 | -4.62 | | | 10.1 | | | |
| 185 | 4 | -0.46 | | 12.8 | | | | |
| 190 | 4 | -0.31 | 12.9 | | | | | |
| 191 | 4 | 0.31 | | | | | 13.3 | |
| 193 | 1 | -1.54 | | 12.1 | | | | |
| 198 | 4 | -0.15 | | | | 13.0 | | |
| 203 | 4 | 0.28 | | 13.3 | | | | |
| 209 | 0 | 2.77 | | | | 14.9 | | |
| 212 | 3 | 0.62 | | | | 13.5 | | |
| 215 | 3 | -0.62 | | | | 12.7 | | |
| 218 | 0 | 2.40 | | | | 14.7 | | |
| 219 | 4 | -0.15 | | | | 13.0 | | |
| 220 | 4 | -0.18 | | 13.0 | | | | |
| 221 | 4 | 0.00 | | 13.1 | | | | |
| 224 | 2 | -1.38 | | | | 12.2 | | |
| 234 | 3 | 0.77 | | | | 13.6 | | |
| 235 | 2 | -1.08 | | | | 12.4 | | |
| 236 | 4 | -0.18 | | | | 13.0 | | |
| 237 | 4 | 0.15 | | | | 13.2 | | |
| 241 | 2 | 1.38 | | 14.0 | | | | |
| 247 | 0 | -7.71 | 8.1 | | | | | |
| 252 | 0 | 3.54 | | 15.4 | | | | |
| 255 | 4 | 0.06 | | | | 13.1 | | |
| 256 | 0 | 3.69 | | 15.5 | | | | |
| 257 | 4 | -0.15 | | | | | | 13.0 |
| 262 | 4 | 0.38 | 13.4 | | | | | |
| 265 | 4 | -0.31 | | | | 12.9 | | |
| 268 | 4 | 0.00 | | 13.1 | | | | |
| 272 | 0 | 22.42 | | | | | | 27.7 |
| 273 | 3 | 0.62 | | | | 13.5 | | |
| 274 | 0 | -9.17 | 7.1 | | | | | |
| 275 | 0 | -9.69 | | | | | | 6.8 |
| 282 | 3 | 0.62 | | | | | 13.5 | |
| 284 | 4 | 0.49 | | 13.4 | | | | |
| 287 | 4 | -0.06 | | 13.1 | | | | |
| 289 | 3 | -0.77 | | | | 12.6 | | |
| 292 | 4 | 0.15 | | | | 13.2 | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Mn (Manganese) μg/L



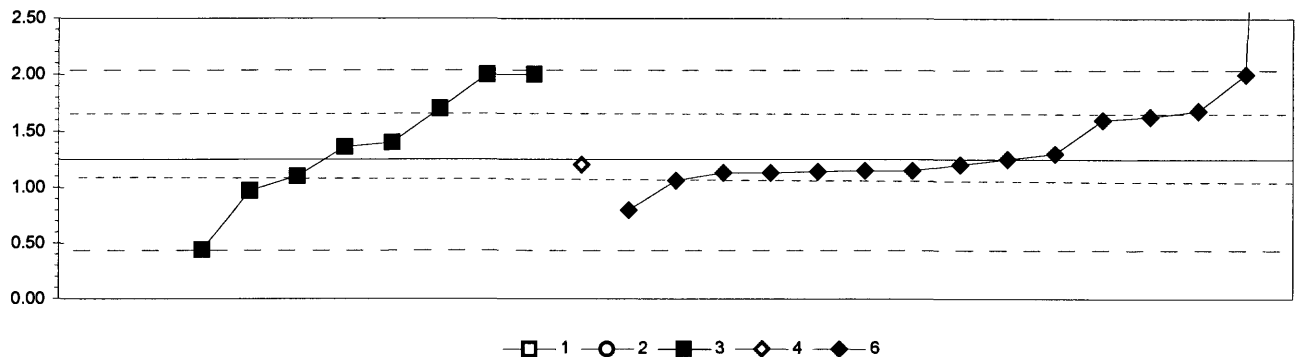
| | |
|-------------------------|---------------------------------|
| 1. AA: direct air | 5. DCP |
| 3. AA: graphite furnace | 6. ICP/MS |
| 4. ICP | |
| | N = 14 12 41 0 16 |
| | Minimum = 10.0 9.8 9.0 < 20 8.4 |
| | Maximum = 16.0 16.6 13.0 17.0 |
| | Median = 13.0 11.7 12.0 11.6 |
| | F-pseudosigma = 3.7 3.2 0.6 0.5 |

MPV = 11.8
F-pseudosigma = 1.0
N = 83
Hu = 12.3
HI = 11.0

| Lab | Rating | Z-value | 1 | 3 | 4 | 5 | 6 |
|-----|--------|---------|------|------|------|------|---|
| 1 | 3 | -0.62 | | | 11.2 | | |
| 3 | 4 | 0.21 | | | 12.0 | | |
| 4 | 4 | 0.21 | | | 12.0 | | |
| 10 | 0 | 3.32 | 15.0 | | | | |
| 11 | 2 | 1.25 | | | 13.0 | | |
| 12 | NR | | | | < 30 | | |
| 13 | 2 | 1.04 | | | 12.8 | | |
| 16 | 4 | -0.21 | | | | 11.6 | |
| 18 | 3 | -0.83 | | | 11.0 | | |
| 19 | 4 | -0.21 | | | 11.6 | | |
| 23 | 4 | 0.21 | | 12.0 | | | |
| 25 | 0 | -10.17 | | | < 2 | | |
| 26 | 4 | -0.31 | | | 11.5 | | |
| 30 | 4 | -0.10 | | | | 11.7 | |
| 32 | 4 | 0.21 | | | | 12.0 | |
| 33 | NR | | | | < 20 | | |
| 36 | 3 | -0.83 | | 11.0 | | | |
| 40 | 1 | -1.56 | | | 10.3 | | |
| 42 | 0 | -3.53 | | | | 8.4 | |
| 43 | 4 | 0.21 | | | 12.0 | | |
| 46 | 2 | -1.16 | | | 10.7 | | |
| 48 | 4 | -0.21 | | | | 11.6 | |
| 59 | 3 | -0.83 | | | | 11.0 | |
| 61 | 3 | 0.73 | | | 12.5 | | |
| 68 | 4 | 0.21 | | | 12.0 | | |
| 69 | NR | | < 20 | | | | |
| 70 | NR | | | | < 20 | | |
| 80 | 1 | -1.56 | | 10.3 | | | |
| 81 | 4 | 0.21 | | | 12.0 | | |
| 83 | 2 | -1.04 | | | 10.8 | | |
| 84 | 0 | -2.08 | | 9.8 | | | |
| 86 | 3 | 0.52 | | | 12.3 | | |
| 87 | 3 | -0.83 | 11.0 | | | | |
| 89 | 3 | -0.52 | | 11.3 | | | |
| 91 | 4 | -0.21 | | | | 11.6 | |
| 92 | 2 | 1.25 | 13.0 | | | | |
| 96 | NR | | < 20 | | | | |
| 97 | 3 | -0.83 | | 11.0 | | | |
| 105 | 2 | -1.35 | | | | 10.5 | |
| 108 | 0 | 3.32 | 15.0 | | | | |
| 109 | 3 | -0.85 | 11.0 | | | | |
| 113 | 3 | -0.83 | | | 11.0 | | |
| 114 | 2 | 1.25 | 13.0 | | | | |
| 118 | 0 | 3.53 | | 15.2 | | | |
| 119 | 2 | 1.25 | | | 13.0 | | |
| 121 | 4 | 0.21 | | | 12.0 | | |
| 126 | 1 | -1.87 | 10.0 | | | | |
| 131 | 4 | 0.00 | | | 11.8 | | |
| 134 | 4 | -0.33 | | | 11.5 | | |
| 138 | 3 | -0.62 | | | | 11.2 | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 5 | 6 |
|-----|--------|---------|------|------|------|---|------|
| 140 | 1 | -1.87 | 10.0 | | | | |
| 141 | 3 | 0.52 | | | 12.3 | | |
| 142 | 1 | -1.87 | | | 10.0 | | |
| 145 | 4 | 0.21 | | | 12.0 | | |
| 146 | 4 | -0.10 | | | 11.7 | | |
| 147 | 4 | 0.42 | | | | | 12.2 |
| 149 | 1 | -1.87 | 10.0 | | | | |
| 151 | 4 | 0.00 | | | | | 11.8 |
| 154 | 0 | -2.91 | | | 9.0 | | |
| 158 | 4 | -0.10 | | | 11.7 | | |
| 180 | 4 | 0.00 | | | 11.8 | | |
| 190 | 0 | 2.08 | | 13.8 | | | |
| 191 | 3 | -0.52 | | | | | 11.3 |
| 198 | 3 | 0.62 | | | 12.4 | | |
| 203 | 1 | -1.87 | 10.0 | | | | |
| 212 | NR | | | | < 10 | | |
| 215 | 4 | 0.21 | | | 12.0 | | |
| 219 | 4 | 0.21 | | | 12.0 | | |
| 220 | 3 | -0.51 | | | 11.3 | | |
| 221 | 0 | 3.01 | | 14.7 | | | |
| 224 | 4 | 0.10 | | | 11.9 | | |
| 234 | 3 | 0.62 | | | 12.4 | | |
| 235 | 2 | -1.35 | | | 10.5 | | |
| 236 | 4 | 0.21 | | | 12.0 | | |
| 237 | 4 | 0.21 | | | 12.0 | | |
| 241 | 0 | 3.32 | 15.0 | | | | |
| 245 | 1 | -1.56 | | | | | 10.3 |
| 247 | 0 | 5.36 | | | | | 17.0 |
| 252 | NR | | < 40 | | | | |
| 255 | 4 | 0.29 | | | 12.1 | | |
| 256 | 0 | 3.32 | 15.0 | | | | |
| 257 | 0 | 4.95 | | 16.6 | | | |
| 259 | 2 | -1.14 | | | 10.7 | | |
| 265 | 4 | 0.00 | | | | | 11.8 |
| 273 | 2 | -1.14 | | | 10.7 | | |
| 274 | 0 | 4.88 | | 16.5 | | | |
| 282 | 4 | 0.00 | | | | | 11.8 |
| 284 | 0 | 4.36 | 16.0 | | | | |
| 287 | 2 | 1.25 | 13.0 | | | | |
| 289 | 1 | -1.66 | | 10.2 | | | |
| 292 | 4 | 0.21 | | | 12.0 | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Mo (Molybdenum) µg/L



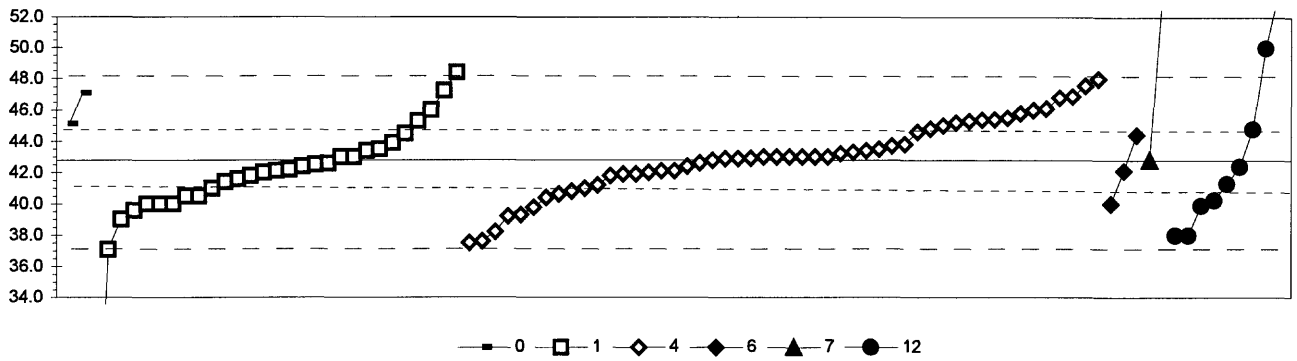
| | |
|-----------------------------|---------------------------------------|
| 1. AA: direct air | 4. ICP |
| 2. AA: direct nitrous oxide | 6. ICP/MS |
| 3. AA: graphite furnace | |
| N = | 1 0 8 1 15 |
| Minimum = | 47.00 < 20 0.44 1.20 0.80 |
| Maximum = | 2.00 11.60 |
| Median = | 1.38 1.20 |
| F-pseudostigma = | 0.60 0.36 |

MPV = 1.25
F-pseudostigma = 0.41
N = 25
Hu = 1.68
Hi = 1.13

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|---|------|--------|--------|-------|
| 1 | 4 | -0.27 | | | | | 1.14 |
| 3 | NR | | | | | < 5 | |
| 4 | NR | | | | | < 20 | |
| 12 | NR | | | | | < 30 | |
| 16 | 3 | 0.86 | | | | | 1.60 |
| 18 | NR | | | | | < 20 | |
| 23 | NR | | | | < 3 | | |
| 26 | NR | | | | | < 4 | |
| 30 | 1 | 1.84 | | | | | 2.00 |
| 32 | 4 | -0.29 | | | | | 1.13 |
| 42 | NR | | | | | | < 10 |
| 48 | 4 | 0.12 | | | | | 1.30 |
| 61 | NR | | | | | < 17.2 | |
| 68 | NR | | | | | < 7 | |
| 70 | NR | | | | | < 50 | |
| 81 | NR | | | | | < 5 | |
| 87 | 4 | 0.37 | | | 1.40 | | |
| 97 | NR | | | | < 1.05 | | |
| 105 | NR | | | | | | < 4 |
| 108 | 4 | -0.37 | | | 1.10 | | |
| 109 | 3 | -0.69 | | | 0.97 | | |
| 119 | 2 | 1.05 | | | | | 1.68 |
| 131 | NR | | | | | < 15 | |
| 134 | NR | | | | | < 2 | |
| 138 | 4 | -0.47 | | | | | 1.06 |
| 141 | NR | | | | | < 10 | |
| 142 | 4 | 0.00 | | | | | 1.25 |
| 143 | 4 | 0.27 | | | 1.36 | | |
| 145 | NR | | | | | < 4 | |
| 146 | NR | | | | | < 10 | |
| 147 | 4 | -0.25 | | | | | 1.15 |
| 149 | NR | | | | < 2 | | |
| 151 | 4 | -0.12 | | | | | 1.20 |
| 180 | NR | | | | | < 5.11 | |
| 212 | 4 | -0.29 | | | | | 1.13 |
| 215 | 1 | 1.84 | | | 2.00 | | |
| 221 | 1 | 1.84 | | | 2.00 | | |
| 224 | NR | | | | | < 5 | |
| 234 | 1 | -1.99 | | | 0.44 | | |
| 235 | 3 | 0.93 | | | | | 1.63 |
| 236 | NR | | | | | < 11 | |
| 237 | NR | | | | | < 50 | |
| 241 | NR | | | | < 5 | | |
| 245 | 4 | -0.25 | | | | | 1.15 |
| 247 | 0 | 25.39 | | | | | 11.60 |
| 252 | NR | | | | < 1 | | |
| 255 | NR | | | | | < 5.1 | |
| 257 | NR | | | < 20 | | | |
| 259 | 4 | -0.12 | | | | 1.20 | |
| 265 | 2 | -1.10 | | | | | 0.80 |

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-------|---|------|---|------|
| 282 | NR | | | | | | < 50 |
| 284 | 0 | 112.21 | 47.00 | | | | |
| 289 | 2 | 1.10 | | | 1.70 | | |
| 292 | NR | | | | | | < 5 |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Na (Sodium) mg/L

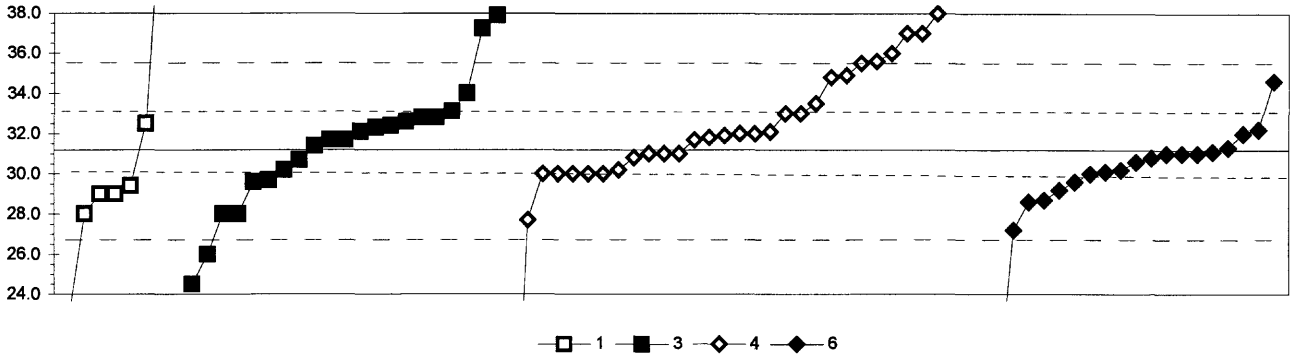


| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|------|------|------|------|---|----|
| 1 | 4 | 0.07 | | | 43.0 | | | |
| 3 | 3 | 0.88 | | | 45.2 | | | |
| 4 | 2 | 1.17 | | | 46.0 | | | |
| 11 | 3 | -0.73 | | | 40.8 | | | |
| 12 | 3 | 0.80 | | | 45.0 | | | |
| 13 | 2 | 1.09 | | | 45.8 | | | |
| 16 | 4 | 0.07 | | | 43.0 | | | |
| 18 | 4 | -0.26 | | | 42.1 | | | |
| 23 | 4 | 0.40 | | 43.9 | | | | |
| 24 | 4 | -0.07 | | | 42.6 | | | |
| 25 | 3 | 0.95 | | | 45.4 | | | |
| 26 | 4 | -0.15 | | | 42.4 | | | |
| 32 | 2 | -1.02 | | | | 40.0 | | |
| 33 | 3 | 0.84 | 45.1 | | | | | |
| 36 | 3 | 0.91 | | 45.3 | | | | |
| 40 | 4 | 0.22 | | | 43.4 | | | |
| 42 | 3 | 0.94 | | | 45.4 | | | |
| 43 | 4 | -0.33 | | | 41.9 | | | |
| 45 | 1 | 1.57 | 47.1 | | | | | |
| 46 | 4 | 0.04 | | | 42.9 | | | |
| 48 | 4 | 0.07 | | | 43.0 | | | |
| 51 | 2 | -1.06 | | | | 39.9 | | |
| 59 | 3 | -0.66 | | | 41.0 | | | |
| 61 | 3 | -0.88 | | | 40.4 | | | |
| 64 | 4 | 0.22 | | 43.4 | | | | |
| 68 | 4 | 0.07 | | | 43.0 | | | |
| 69 | 3 | -0.55 | | | | 41.3 | | |
| 70 | 4 | 0.26 | | | 43.5 | | | |
| 76 | 4 | -0.08 | | 42.6 | | | | |
| 81 | 3 | 0.91 | | | 45.3 | | | |
| 83 | 2 | -1.31 | | | 39.2 | | | |
| 84 | 4 | -0.15 | | | | 42.4 | | |
| 86 | 3 | 0.66 | | | 44.6 | | | |
| 87 | 2 | -1.02 | | 40.0 | | | | |
| 89 | 3 | -0.66 | | 41.0 | | | | |
| 92 | 0 | -9.95 | 15.5 | | | | | |
| 97 | 4 | 0.07 | | 43.0 | | | | |
| 105 | 4 | -0.36 | | | 41.8 | | | |
| 109 | 4 | -0.26 | | 42.1 | | | | |
| 110 | 0 | -2.09 | 37.1 | | | | | |
| 111 | 2 | -1.02 | | 40.0 | | | | |
| 113 | 1 | -1.68 | | | 38.2 | | | |
| 114 | 4 | -0.11 | | 42.5 | | | | |
| 118 | 4 | 0.07 | | 43.0 | | | | |
| 119 | 4 | 0.36 | | | 43.8 | | | |
| 121 | 4 | 0.07 | | | 43.0 | | | |
| 126 | 3 | 0.62 | | 44.5 | | | | |
| 129 | 2 | -1.39 | | 39.0 | | | | |
| 131 | 1 | -1.90 | | | 37.6 | | | |
| 134 | 2 | -1.17 | | 39.6 | | | | |

MPV = 42.8
F-pseudosigma = 2.7
N = 95
Hu = 44.7
HI = 41.0

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|---|------|------|------|------|------|
| 138 | 4 | -0.33 | | | 41.9 | | | |
| 140 | 2 | -1.02 | | 40.0 | | | | |
| 141 | 3 | 0.73 | | | 44.8 | | | |
| 142 | 4 | 0.33 | | | 43.7 | | | |
| 145 | 4 | 0.18 | | | 43.3 | | | |
| 146 | 2 | 1.20 | | | 46.1 | | | |
| 147 | 1 | 1.90 | | | 48.0 | | | |
| 149 | 4 | -0.29 | | 42.0 | | | | |
| 154 | 2 | 1.46 | | | 46.8 | | | |
| 158 | 2 | -1.28 | | | 39.3 | | | |
| 180 | 4 | -0.26 | | | 42.1 | | | |
| 185 | 3 | 0.73 | | | | | | 44.8 |
| 190 | 4 | 0.00 | | | | | 42.8 | |
| 191 | 4 | -0.26 | | | | 42.1 | | |
| 193 | 3 | -0.51 | | 41.4 | | | | |
| 198 | 4 | 0.04 | | | 42.9 | | | |
| 203 | 3 | -0.84 | | 40.5 | | | | |
| 212 | 3 | 0.98 | | | 45.5 | | | |
| 215 | 3 | -0.58 | | | 41.2 | | | |
| 218 | 1 | 1.74 | | | 47.6 | | | |
| 219 | 4 | 0.07 | | | 43.0 | | | |
| 220 | 4 | -0.15 | | 42.4 | | | | |
| 221 | 4 | 0.26 | | 43.5 | | | | |
| 224 | 2 | -1.10 | | | 39.8 | | | |
| 234 | 4 | 0.00 | | | 42.8 | | | |
| 236 | 3 | -0.79 | | | 40.6 | | | |
| 237 | 4 | 0.15 | | | 43.2 | | | |
| 241 | 2 | 1.17 | | 46.0 | | | | |
| 247 | 0 | 3.94 | | | | | 53.6 | |
| 252 | 3 | -0.84 | | 40.5 | | | | |
| 255 | 4 | 0.04 | | | 42.9 | | | |
| 256 | 3 | -0.93 | | | | | | 40.3 |
| 257 | 1 | -1.75 | | | | | | 38.0 |
| 259 | 4 | -0.22 | | 42.2 | | | | |
| 265 | 4 | -0.29 | | | 42.0 | | | |
| 268 | 1 | 2.04 | | 48.4 | | | | |
| 272 | 1 | -1.75 | | | | | | 38.0 |
| 273 | 2 | 1.49 | | | 46.9 | | | |
| 274 | 0 | 3.94 | | | | | | 53.6 |
| 275 | 0 | 2.63 | | | | | | 50.0 |
| 282 | 3 | 0.58 | | | | 44.4 | | |
| 284 | 1 | 1.62 | | 47.3 | | | | |
| 287 | 4 | -0.44 | | 41.6 | | | | |
| 289 | 1 | -1.93 | | | 37.5 | | | |
| 292 | 4 | -0.36 | | 41.8 | | | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
 Ni (Nickel) µg/L



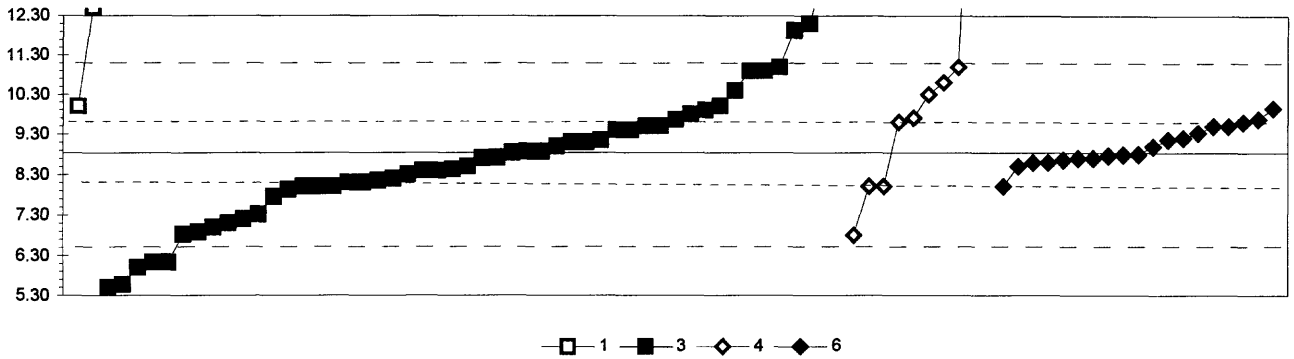
| 1. AA: direct air | | | 6. ICP/MS | | | |
|-------------------|--------|-----------------|-----------|------|------|------|
| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
| | | N = | 8 | 21 | 32 | 19 |
| | | Minimum = | 23.0 | 24.5 | 11.8 | 18.9 |
| | | Maximum = | 60.0 | 37.9 | 49.0 | 34.6 |
| | | Median = | 29.2 | 31.7 | 32.0 | 30.6 |
| | | F-pseudosigma = | 7.2 | 2.3 | 3.7 | 1.2 |

MPV = 31.2
 F-pseudosigma = 2.2
 N = 80
 Hu = 33.0
 HI = 30.0

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|------|
| 1 | 3 | 0.85 | | 33.1 | | |
| 3 | 0 | 2.16 | | | 36.0 | |
| 4 | 3 | -0.54 | | | 30.0 | |
| 11 | 0 | 2.61 | | | 37.0 | |
| 12 | 3 | -0.54 | | | 30.0 | |
| 13 | 1 | -1.57 | | | 27.7 | |
| 16 | 4 | -0.09 | | | | 31.0 |
| 18 | 3 | 0.81 | | | 33.0 | |
| 19 | 0 | 2.61 | | | 37.0 | |
| 25 | NR | | | | < 49 | |
| 26 | 3 | 0.63 | | 32.6 | | |
| 30 | 4 | 0.36 | | | | 32.0 |
| 32 | 4 | 0.45 | | | | 32.2 |
| 36 | 0 | -3.01 | | 24.5 | | |
| 42 | 1 | -1.80 | | | | 27.2 |
| 46 | 4 | 0.22 | | | 31.7 | |
| 48 | 4 | -0.27 | | | | 30.6 |
| 59 | 3 | -0.54 | | | | 30.0 |
| 61 | 4 | 0.31 | | | 31.9 | |
| 68 | 3 | -0.54 | | | 30.0 | |
| 69 | 4 | 0.22 | | 31.7 | | |
| 70 | NR | | | | < 50 | |
| 76 | 4 | -0.45 | | | | 30.2 |
| 81 | 2 | -1.44 | | 28.0 | | |
| 83 | 4 | -0.45 | | | 30.2 | |
| 86 | 0 | 4.05 | | | 40.2 | |
| 87 | 3 | -0.99 | 29.0 | | | |
| 89 | 3 | -0.72 | | 29.6 | | |
| 92 | 0 | -3.69 | 23.0 | | | |
| 96 | 4 | 0.49 | | 32.3 | | |
| 97 | 3 | 0.54 | | 32.4 | | |
| 105 | 2 | -1.12 | | | | 28.7 |
| 108 | 2 | -1.44 | | 28.0 | | |
| 111 | 4 | 0.09 | | 31.4 | | |
| 113 | 4 | -0.18 | | | 30.8 | |
| 114 | 3 | -0.99 | 29.0 | | | |
| 118 | 3 | -0.67 | | 29.7 | | |
| 119 | 2 | -1.17 | | | | 28.6 |
| 121 | 3 | 0.81 | | | 33.0 | |
| 126 | 0 | 12.95 | 60.0 | | | |
| 131 | 0 | 8.00 | | | 49.0 | |
| 133 | 1 | 1.93 | | | 35.5 | |
| 134 | 4 | 0.22 | | 31.7 | | |
| 138 | 4 | -0.18 | | | | 30.8 |
| 140 | 3 | 0.58 | 32.5 | | | |
| 141 | 4 | 0.40 | | | 32.1 | |
| 142 | 4 | 0.04 | | | | 31.3 |
| 143 | 4 | -0.45 | | 30.2 | | |
| 145 | 0 | 3.06 | | | 38.0 | |
| 146 | NR | | | | < 40 | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|------|
| 147 | 4 | -0.09 | | | | 31.0 |
| 151 | 3 | -0.72 | | | | 29.6 |
| 154 | 4 | -0.09 | | | 31.0 | |
| 158 | 2 | 1.03 | | | 33.5 | |
| 180 | 0 | 4.00 | | | 40.1 | |
| 183 | 3 | 0.72 | | 32.8 | | |
| 190 | 0 | 3.01 | | 37.9 | | |
| 191 | 1 | 1.53 | | | | 34.6 |
| 193 | NR | | < 50 | | | |
| 198 | NR | | | < 50 | | |
| 212 | 4 | -0.04 | | | | 31.1 |
| 213 | 3 | -0.81 | 29.4 | | | |
| 215 | 4 | -0.09 | | | 31.0 | |
| 219 | 4 | -0.09 | | | 31.0 | |
| 220 | 4 | 0.27 | | | 31.8 | |
| 221 | 4 | 0.40 | | 32.1 | | |
| 224 | 0 | -8.72 | | | 11.8 | |
| 234 | 1 | 1.62 | | | 34.8 | |
| 235 | 4 | -0.49 | | | | 30.1 |
| 236 | 4 | 0.36 | | | 32.0 | |
| 237 | 4 | 0.36 | | | 32.0 | |
| 241 | 3 | 0.72 | | 32.8 | | |
| 245 | 3 | -0.90 | | | | 29.2 |
| 247 | 0 | -5.53 | | | | 18.9 |
| 252 | 2 | 1.26 | | 34.0 | | |
| 255 | 1 | 1.66 | | | 34.9 | |
| 256 | 0 | 2.72 | | 37.3 | | |
| 257 | 2 | -1.44 | 28.0 | | | |
| 259 | 3 | -0.54 | | | 30.0 | |
| 265 | 4 | -0.09 | | | | 31.0 |
| 273 | 1 | 1.98 | | | 35.6 | |
| 282 | NR | | | | | < 50 |
| 284 | 0 | -2.34 | | 26.0 | | |
| 287 | 0 | 5.76 | 44.0 | | | |
| 289 | 4 | -0.22 | | 30.7 | | |
| 292 | 3 | -0.54 | | | 30.0 | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Pb (Lead) $\mu\text{g/L}$



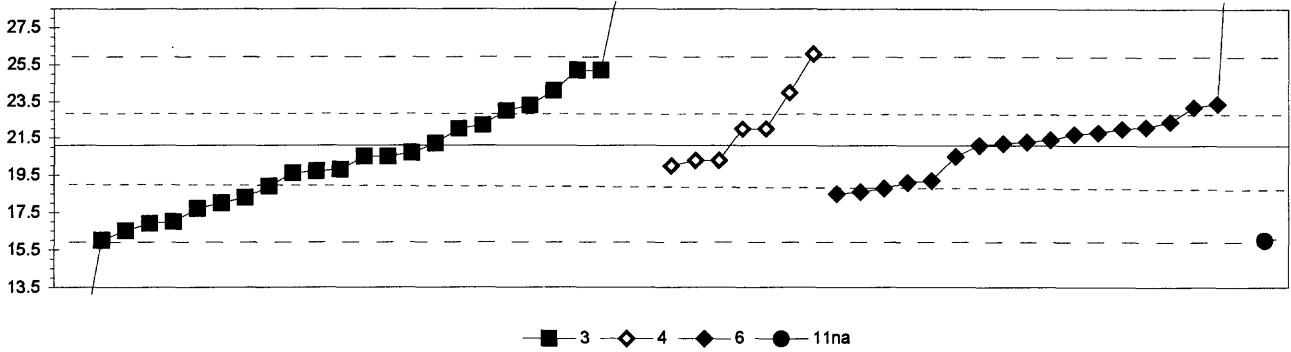
| 1. AA: direct air | | | 6. ICP/MS | | | |
|-------------------------|------------------|--|-----------|-------|-------|------|
| 3. AA: graphite furnace | | | | | | |
| 4. ICP | | | | | | |
| | N = | | 2 | 50 | 10 | 19 |
| | Minimum = | | 10.00 | 5.50 | 6.80 | 8.00 |
| | Maximum = | | 12.50 | 19.40 | 28.00 | 9.95 |
| | Median = | | | 8.60 | 10.00 | 8.80 |
| | F-pseudostigma = | | | 1.17 | 2.22 | 0.54 |

MPV = 8.84
F-pseudostigma = 1.17
N = 81
Hu = 9.68
HI = 8.10

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|-------|---|-------|------|
| 1 | 4 | -0.20 | | | | 8.60 |
| 3 | 1 | 1.84 | | | 11.00 | |
| 4 | NR | | | | < 200 | |
| 10 | 4 | -0.38 | 8.40 | | | |
| 11 | 3 | 0.73 | | | 9.70 | |
| 12 | NR | | < 10 | | | |
| 13 | 0 | -2.85 | 5.50 | | | |
| 16 | 4 | -0.03 | | | 8.80 | |
| 18 | 4 | -0.29 | 8.50 | | | |
| 19 | 3 | -0.72 | 8.00 | | | |
| 23 | 4 | -0.38 | 8.40 | | | |
| 25 | NR | | | | < 71 | |
| 26 | 3 | -0.63 | 8.10 | | | |
| 30 | 4 | -0.12 | | | 8.70 | |
| 32 | 3 | 0.95 | | | 9.95 | |
| 34 | 3 | 0.70 | 9.66 | | | |
| 36 | 2 | -1.30 | 7.32 | | | |
| 42 | 3 | -0.72 | | | 8.00 | |
| 46 | 3 | -0.79 | 7.92 | | | |
| 48 | 3 | 0.56 | | | 9.50 | |
| 59 | 3 | 0.56 | | | 9.50 | |
| 61 | 1 | -1.74 | | | 6.80 | |
| 68 | 0 | 9.02 | 19.40 | | | |
| 69 | 3 | -0.93 | 7.75 | | | |
| 70 | 3 | -0.55 | 8.20 | | | |
| 76 | 4 | -0.06 | | | 8.76 | |
| 80 | 3 | -0.63 | 8.10 | | | |
| 81 | 3 | -0.72 | | | 8.00 | |
| 84 | 2 | 1.33 | 10.40 | | | |
| 86 | 4 | 0.48 | 9.40 | | | |
| 87 | 1 | 1.76 | 10.90 | | | |
| 89 | 0 | -2.79 | 5.57 | | | |
| 92 | 3 | 0.99 | 10.00 | | | |
| 96 | 3 | 0.56 | 9.50 | | | |
| 97 | 4 | 0.22 | 9.10 | | | |
| 105 | 4 | -0.20 | | | 8.60 | |
| 108 | 3 | 0.91 | 9.90 | | | |
| 109 | 4 | -0.12 | 8.70 | | | |
| 111 | 0 | 2.78 | 12.10 | | | |
| 113 | 4 | 0.26 | 9.15 | | | |
| 114 | NR | | < 10 | | | |
| 118 | 3 | 0.82 | 9.80 | | | |
| 119 | 3 | 0.65 | | | 9.60 | |
| 126 | 3 | 0.56 | 9.50 | | | |
| 131 | 0 | 9.53 | | | 20.00 | |
| 133 | NR | | | | < 20 | |
| 134 | 4 | 0.03 | 8.87 | | | |
| 138 | 4 | -0.04 | | | 8.79 | |
| 140 | 0 | 3.12 | 12.50 | | | |
| 141 | 1 | 1.76 | 10.90 | | | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|---|-------|--------|------|
| 142 | 4 | -0.15 | | | | 8.66 |
| 145 | 0 | 16.36 | | | 28.00 | |
| 146 | 2 | 1.25 | | | 10.30 | |
| 147 | 4 | -0.12 | | | | 8.70 |
| 149 | 3 | -0.72 | | 8.00 | | |
| 151 | 4 | 0.31 | | | | 9.20 |
| 154 | 4 | 0.22 | | 9.10 | | |
| 158 | 2 | -1.49 | | 7.10 | | |
| 180 | NR | | | | < 31.9 | |
| 190 | 1 | -1.72 | | 6.82 | | |
| 191 | 3 | 0.72 | | | | 9.68 |
| 193 | 4 | 0.48 | | 9.40 | | |
| 198 | 4 | -0.10 | | 8.72 | | |
| 203 | 4 | -0.46 | | 8.30 | | |
| 212 | 4 | 0.27 | | | | 9.16 |
| 213 | 4 | -0.35 | | 8.43 | | |
| 215 | 1 | -1.57 | | 7.00 | | |
| 221 | 3 | -0.59 | | 8.15 | | |
| 224 | 0 | -2.31 | | 6.13 | | |
| 234 | 2 | 1.50 | | | 10.60 | |
| 235 | 4 | 0.42 | | | | 9.33 |
| 236 | NR | | | | < 19 | |
| 237 | NR | | | | < 40 | |
| 241 | 2 | -1.40 | | 7.20 | | |
| 245 | 4 | 0.13 | | | | 8.99 |
| 247 | 0 | 3.89 | | 13.40 | | |
| 252 | 0 | -2.31 | | 6.13 | | |
| 255 | 4 | 0.03 | | 8.87 | | |
| 256 | 1 | -1.67 | | 6.88 | | |
| 257 | 3 | 1.00 | | 10.01 | | |
| 259 | 3 | -0.72 | | | 8.00 | |
| 265 | 4 | -0.29 | | | | 8.50 |
| 273 | 3 | 0.65 | | | 9.60 | |
| 274 | 0 | 2.64 | | 11.93 | | |
| 282 | 0 | -2.42 | | 6.00 | | |
| 284 | 3 | -0.72 | | 8.00 | | |
| 287 | 4 | 0.00 | | 8.84 | | |
| 289 | 4 | 0.14 | | 9.00 | | |
| 292 | 1 | 1.84 | | 11.00 | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
 Sb (Antimony) μg/L



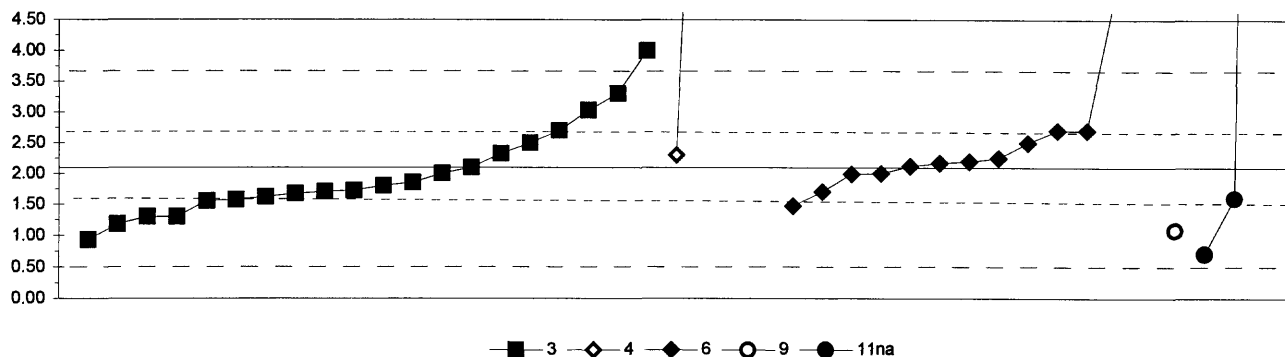
| | 3 | 4 | 6 | 11na |
|-------------------------|------|------|------|------|
| 3. AA: graphite furnace | | | | |
| 4. ICP | | | | |
| 6. ICP/MS | | | | |
| N = | 25 | 7 | 18 | 1 |
| Minimum = | 9.1 | 20.0 | 18.5 | 16.0 |
| Maximum = | 35.0 | 26.1 | 44.0 | |
| Median = | 20.5 | 22.0 | 21.4 | |
| F-pseudosigma = | 3.7 | 2.0 | 2.1 | |

MPV = 21.1
 F-pseudosigma = 2.4
 N = 51
 Hu = 22.3
 Hl = 19.0

| Lab | Rating | Z-value | 3 | 4 | 6 | 11na |
|-----|--------|---------|------|--------|------|------|
| 1 | 4 | 0.41 | | | | 22.1 |
| 3 | 4 | -0.45 | | 20.0 | | |
| 11 | 4 | 0.37 | | 22.0 | | |
| 13 | 1 | 1.67 | 25.2 | | | |
| 16 | 3 | -0.82 | | | 19.1 | |
| 18 | 2 | -1.39 | 17.7 | | | |
| 23 | 2 | -1.14 | 18.3 | | | |
| 25 | NR | | | < 51 | | |
| 30 | 0 | 9.35 | | | | 44.0 |
| 32 | 3 | -0.78 | | | | 19.2 |
| 36 | 1 | -1.88 | 16.5 | | | |
| 42 | 2 | -1.02 | | | | 18.6 |
| 46 | 3 | 0.90 | | 23.3 | | |
| 48 | 4 | 0.24 | | | | 21.7 |
| 59 | 4 | 0.37 | | | | 22.0 |
| 61 | 4 | 0.37 | | 22.0 | | |
| 68 | 0 | 4.08 | 31.1 | | | |
| 69 | 1 | -1.71 | 16.9 | | | |
| 70 | 1 | 1.67 | 25.2 | | | |
| 76 | 4 | 0.13 | | | | 21.4 |
| 81 | 1 | -1.67 | 17.0 | | | |
| 89 | 3 | -0.61 | 19.6 | | | |
| 96 | 3 | -0.57 | 19.7 | | | |
| 97 | 3 | -0.53 | 19.8 | | | |
| 105 | 2 | -1.06 | | | | 18.5 |
| 113 | 4 | -0.33 | | 20.3 | | |
| 119 | 4 | 0.29 | | | | 21.8 |
| 131 | 2 | 1.18 | | 24.0 | | |
| 134 | 3 | -0.90 | 18.9 | | | |
| 138 | 4 | 0.08 | | | | 21.3 |
| 141 | 2 | 1.22 | 24.1 | | | |
| 142 | 3 | 0.94 | | | | 23.4 |
| 146 | NR | | | < 50 | | |
| 147 | 4 | 0.00 | | | | 21.1 |
| 149 | 2 | -1.27 | 18.0 | | | |
| 151 | 3 | 0.53 | | | | 22.4 |
| 154 | 4 | -0.24 | 20.5 | | | |
| 180 | NR | | | < 27.8 | | |
| 193 | 3 | 0.78 | 23.0 | | | |
| 198 | 4 | -0.16 | 20.7 | | | |
| 212 | 3 | -0.94 | | | | 18.8 |
| 215 | 0 | -2.08 | 16.0 | | | |
| 234 | 4 | -0.33 | | 20.3 | | |
| 235 | 3 | 0.86 | | | | 23.2 |
| 236 | NR | | | < 100 | | |
| 241 | 4 | 0.45 | 22.2 | | | |
| 245 | 4 | 0.04 | | | | 21.2 |
| 247 | 0 | -4.90 | 9.1 | | | |
| 252 | 4 | -0.24 | 20.5 | | | |
| 255 | 1 | 2.03 | | 26.1 | | |

| Lab | Rating | Z-value | 3 | 4 | 6 | 11na |
|-----|--------|---------|------|---|------|------|
| 257 | 4 | 0.04 | 21.2 | | | |
| 265 | 4 | -0.24 | | | 20.5 | |
| 282 | 0 | -2.08 | | | | 16.0 |
| 284 | 0 | 5.67 | 35.0 | | | |
| 292 | 4 | 0.37 | 22.0 | | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Se (Selenium) $\mu\text{g/L}$



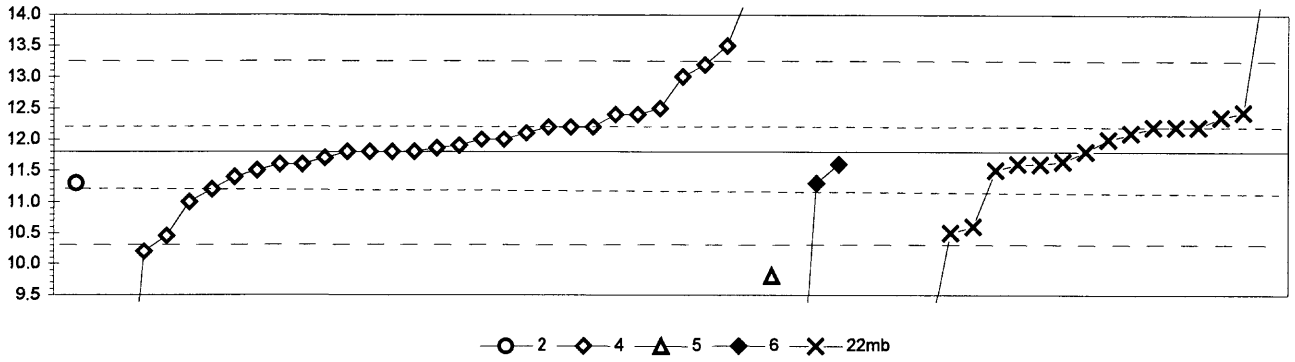
| | | | | | | |
|-------------------------|-------------------------------------|------|-------|-------|------|-------|
| 3. AA: graphite furnace | 9. Atomic fluorescence | | | | | |
| 4. ICP | 11na. AA: hydride NaBH ₄ | | | | | |
| 6. ICP/MS | N = | 20 | 4 | 13 | 1 | 3 |
| | Minimum = | 0.93 | 2.30 | 1.47 | 1.08 | 0.71 |
| | Maximum = | 4.00 | 90.00 | 14.00 | | 30.00 |
| | Median = | 1.76 | | 2.20 | | |
| | F-pseudosigma = | 0.63 | | 0.52 | | |

MPV = 2.10
F-pseudosigma = 0.80
N = 41
Hu = 2.70
HI = 1.62

| Lab | Rating | Z-value | 3 | 4 | 6 | 9 | 11na |
|-----|--------|---------|-------|--------|------|------|-------|
| 1 | 3 | -1.00 | 1.30 | | | | |
| 3 | NR | | | < 10 | | | |
| 13 | NR | | < 5 | | | | |
| 16 | NR | | | | < 5 | | |
| 18 | 4 | 0.50 | 2.50 | | | | |
| 25 | NR | | | < 129 | | | |
| 26 | 3 | -0.62 | | | | | 1.60 |
| 30 | 0 | 3.62 | | | 5.00 | | |
| 32 | NR | | | | < 6 | | |
| 34 | 3 | -0.60 | 1.62 | | | | |
| 36 | 4 | -0.37 | 1.80 | | | | |
| 42 | 3 | 0.75 | | | 2.70 | | |
| 48 | 4 | -0.12 | | | 2.00 | | |
| 59 | 3 | 0.75 | | | 2.70 | | |
| 61 | NR | | | < 2.5 | | | |
| 68 | NR | | < 2.6 | | | | |
| 69 | NR | | < 5 | | | | |
| 70 | NR | | < 10 | | | | |
| 80 | NR | | < 2 | | | | |
| 81 | NR | | | < 2 | | | |
| 86 | 1 | -1.74 | | | | | 0.71 |
| 87 | NR | | | | | | < 2 |
| 89 | NR | | | | | | < 2 |
| 96 | 4 | -0.50 | 1.70 | | | | |
| 97 | 2 | 1.16 | 3.03 | | | | |
| 105 | NR | | | < 7 | | | |
| 108 | 0 | 34.85 | | | | | 30.00 |
| 109 | 3 | -1.00 | 1.30 | | | | |
| 111 | 2 | -1.46 | 0.93 | | | | |
| 113 | 4 | -0.31 | 1.85 | | | | |
| 118 | 2 | 1.50 | 3.30 | | | | |
| 119 | 4 | 0.09 | | | | 2.17 | |
| 131 | 0 | 13.61 | | 13.00 | | | |
| 133 | NR | | < 5 | | | | |
| 134 | 4 | 0.27 | 2.32 | | | | |
| 138 | 4 | 0.02 | | | | 2.12 | |
| 141 | NR | | < 2 | | | | |
| 142 | 3 | -0.79 | | | | 1.47 | |
| 143 | 3 | -0.69 | 1.55 | | | | |
| 146 | NR | | | < 10 | | | |
| 147 | 4 | -0.50 | | | | 1.70 | |
| 151 | 4 | 0.12 | | | | 2.20 | |
| 154 | 3 | -0.66 | 1.57 | | | | |
| 180 | NR | | | < 53.2 | | | |
| 193 | NR | | < 5 | | | | |
| 198 | NR | | < 5 | | | | |
| 212 | 4 | 0.19 | | | | 2.25 | |
| 215 | NR | | < 5 | | | | |
| 220 | 4 | 0.00 | 2.10 | | | | |
| 221 | 3 | -0.54 | 1.67 | | | | |

| Lab | Rating | Z-value | 3 | 4 | 6 | 9 | 11na |
|-----|--------|---------|------|-------|---|-------|------|
| 224 | 0 | 48.59 | | 41.00 | | | |
| 234 | 4 | -0.47 | 1.72 | | | | |
| 235 | 2 | -1.27 | | | | 1.08 | |
| 236 | 0 | 109.79 | | 90.00 | | | |
| 241 | 3 | 0.75 | 2.70 | | | | |
| 245 | 4 | -0.14 | | | | 1.99 | |
| 247 | 0 | 14.86 | | | | 14.00 | |
| 252 | 2 | -1.15 | 1.18 | | | | |
| 255 | NR | | < 2 | | | | |
| 256 | NR | | | | | | < 1 |
| 259 | 4 | 0.25 | | 2.30 | | | |
| 265 | 4 | 0.50 | | | | 2.50 | |
| 282 | NR | | | | | | < 5 |
| 284 | 0 | 2.37 | 4.00 | | | | |
| 289 | NR | | < 5 | | | | |
| 292 | 4 | -0.12 | 2.00 | | | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
SiO₂ (Silica) mg/L



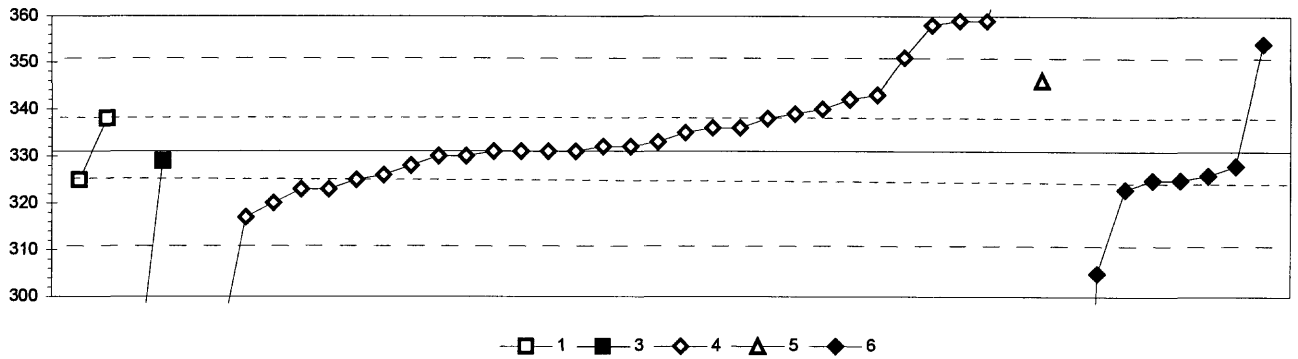
| | | | | | | |
|-----------------------------|-----------------------------|-------|-------|------|-------|-------|
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | | |
| 4. ICP | 22mb. Color: molybdate blue | | | | | |
| 5. DCP | N = | 1 | 30 | 1 | 3 | 19 |
| | Minimum = | 11.30 | 5.83 | 9.80 | 5.85 | 5.80 |
| | Maximum = | | 14.40 | | 11.60 | 14.76 |
| | Median = | | 11.83 | | | 11.64 |
| | F-pseudosigma = | | 0.52 | | | 1.22 |

MPV = 11.8
F-pseudosigma = 0.7
N = 54
Hu = 12.2
HI = 11.2

| Lab | Rating | Z-value | 2 | 4 | 5 | 6 | 22mb |
|-----|--------|---------|------|------|------|------|------|
| 1 | 4 | 0.00 | | 11.8 | | | |
| 3 | 3 | 0.81 | | 12.4 | | | |
| 4 | 4 | 0.27 | | 12.0 | | | |
| 11 | 4 | 0.00 | | 11.8 | | | |
| 13 | 3 | 0.54 | | 12.2 | | | |
| 24 | 3 | 0.94 | | 12.5 | | | |
| 25 | 0 | 3.51 | | 14.4 | | | |
| 26 | 4 | -0.13 | | 11.7 | | | |
| 32 | 4 | -0.27 | | | | 11.6 | |
| 33 | 0 | -2.70 | | | 9.8 | | |
| 40 | 2 | -1.08 | | 11.0 | | | |
| 42 | 1 | 1.88 | | 13.2 | | | |
| 43 | 4 | 0.13 | | 11.9 | | | |
| 61 | 0 | -8.05 | | 5.8 | | | |
| 64 | 3 | -0.54 | | 11.4 | | | |
| 70 | 4 | -0.40 | | | | | 11.5 |
| 81 | 3 | 0.54 | | | | | 12.2 |
| 83 | 1 | -1.82 | | 10.5 | | | |
| 87 | 0 | -7.96 | | | | | 5.9 |
| 89 | 4 | 0.27 | | | | | 12.0 |
| 97 | 1 | -1.62 | | | | | 10.6 |
| 104 | 3 | 0.86 | | | | | 12.4 |
| 105 | 4 | 0.00 | | 11.8 | | | |
| 111 | 4 | -0.22 | | | | | 11.6 |
| 113 | 3 | 0.54 | | | | | 12.2 |
| 118 | 0 | -5.18 | | | | | 8.0 |
| 119 | 1 | 1.62 | | 13.0 | | | |
| 121 | 4 | -0.40 | | 11.5 | | | |
| 129 | 4 | -0.27 | | | | | 11.6 |
| 131 | 4 | 0.00 | | 11.8 | | | |
| 134 | 4 | 0.08 | | 11.9 | | | |
| 138 | 4 | 0.00 | | | | | 11.8 |
| 140 | 4 | -0.27 | | | | | 11.6 |
| 142 | 0 | 2.29 | | 13.5 | | | |
| 145 | 3 | 0.54 | | 12.2 | | | |
| 147 | 3 | 0.54 | | 12.2 | | | |
| 185 | 4 | 0.40 | | | | | 12.1 |
| 190 | 0 | -8.09 | | | | | 5.8 |
| 191 | 3 | -0.67 | | | 11.3 | | |
| 203 | 3 | 0.76 | | | | | 12.4 |
| 204 | 3 | 0.54 | | | | | 12.2 |
| 212 | 3 | 0.81 | | 12.4 | | | |
| 215 | 0 | -2.16 | | 10.2 | | | |
| 234 | 4 | 0.40 | | 12.1 | | | |
| 236 | 0 | -7.97 | | 5.9 | | | |
| 237 | 4 | -0.27 | | 11.6 | | | |
| 241 | 3 | -0.67 | 11.3 | | | | |
| 256 | 1 | -1.75 | | | | | 10.5 |
| 265 | 4 | 0.27 | | 12.0 | | | |
| 273 | 4 | -0.27 | | 11.6 | | | |

| Lab | Rating | Z-value | 2 | 4 | 5 | 6 | 22mb |
|-----|--------|---------|---|------|---|-----|------|
| 274 | 0 | 3.99 | | | | | 14.8 |
| 282 | 0 | -8.03 | | | | 5.9 | |
| 284 | 0 | -4.24 | | | | | 8.7 |
| 289 | 3 | -0.81 | | 11.2 | | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
Sr (Strontium) μg/L

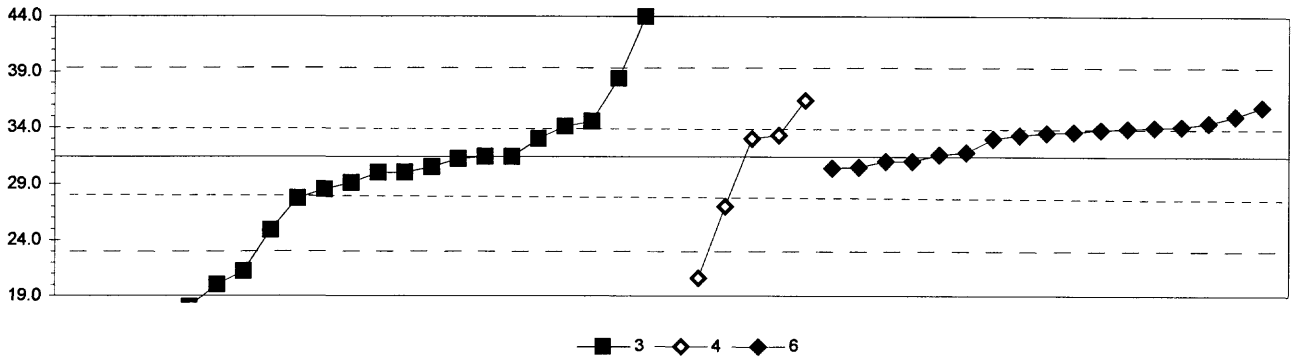


| | | | | | | |
|-------------------------|------------------|-----|-----|-----|-----|-----|
| 1. AA: direct air | 5. DCP | | | | | |
| 3. AA: graphite furnace | 6. ICP/MS | | | | | |
| 4. ICP | | | | | | |
| | N = | 2 | 2 | 31 | 1 | 8 |
| | Minimum = | 325 | 277 | 262 | 346 | 134 |
| | Maximum = | 338 | 329 | 378 | | 354 |
| | Median = | | | 332 | | 325 |
| | F-pseudostigma = | | | 9 | | 10 |

MPV = 331
F-pseudostigma = 17
N = 44
Hu = 338
Hi = 325

| Lab | Rating | Z-value | 1 | 3 | 4 | 5 | 6 |
|-----|--------|---------|-----|-----|-----|-----|-----|
| 1 | 4 | -0.48 | | | | | 323 |
| 3 | 1 | 1.70 | | | 359 | | |
| 11 | 3 | 0.55 | | | 340 | | |
| 16 | 3 | -0.85 | | | 317 | | |
| 18 | 4 | -0.48 | | | 323 | | |
| 23 | 4 | -0.12 | | 329 | | | |
| 24 | 3 | 0.67 | | | 342 | | |
| 25 | 1 | 1.64 | | | 358 | | |
| 32 | 2 | 1.39 | | | | | 354 |
| 33 | 3 | 0.91 | | | | 346 | |
| 40 | 0 | -4.18 | | | 262 | | |
| 42 | 1 | 1.70 | | | 359 | | |
| 68 | 4 | -0.06 | | | 330 | | |
| 70 | 4 | 0.42 | | | 338 | | |
| 81 | 2 | 1.21 | | | 351 | | |
| 86 | 4 | 0.06 | | | 332 | | |
| 97 | 0 | -3.27 | | 277 | | | |
| 105 | 4 | 0.06 | | | 332 | | |
| 109 | 4 | -0.36 | 325 | | | | |
| 113 | 4 | 0.00 | | | 331 | | |
| 119 | 0 | -11.94 | | | | | 134 |
| 121 | 4 | 0.24 | | | 335 | | |
| 131 | 4 | 0.12 | | | 333 | | |
| 134 | 4 | 0.00 | | | 331 | | |
| 138 | 4 | -0.18 | | | 328 | | |
| 142 | 3 | 0.73 | | | 343 | | |
| 145 | 4 | 0.30 | | | 336 | | |
| 147 | 4 | -0.36 | | | | | 325 |
| 151 | 4 | -0.30 | | | | | 326 |
| 154 | 4 | -0.36 | | | 325 | | |
| 191 | 4 | -0.18 | | | | | 328 |
| 212 | 4 | 0.00 | | | 331 | | |
| 218 | 4 | 0.48 | | | 339 | | |
| 219 | 4 | -0.06 | | | 330 | | |
| 234 | 4 | 0.00 | | | 331 | | |
| 235 | 0 | -2.67 | | | 287 | | |
| 236 | 3 | -0.67 | | | 320 | | |
| 237 | 4 | 0.30 | | | 336 | | |
| 247 | 1 | -1.58 | | | | | 305 |
| 259 | 4 | -0.30 | | | 326 | | |
| 265 | 3 | -0.36 | | | | | 325 |
| 273 | 0 | 2.85 | | | 378 | | |
| 284 | 4 | 0.42 | 338 | | | | |
| 289 | 4 | -0.48 | | | 323 | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
 Tl (Thallium) µg/L

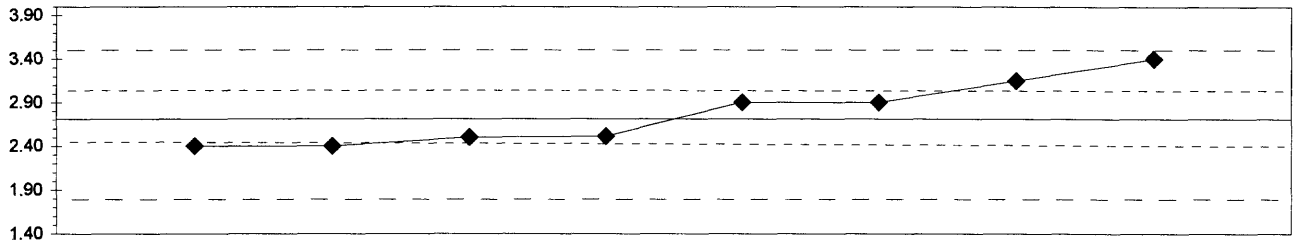


| | | | | |
|-------------------------|------------------|------|------|------|
| 3. AA: graphite furnace | | | | |
| 4. ICP | | | | |
| 6. ICP/MS | | | | |
| | N = | 23 | 5 | 17 |
| | Minimum = | 5.0 | 20.6 | 30.4 |
| | Maximum = | 49.5 | 36.4 | 35.8 |
| | Median = | 30.0 | | 33.5 |
| | F-pseudostigma = | 8.6 | | 1.8 |

MPV = 31.4
 F-pseudostigma = 4.0
 N = 45
 Hu = 33.9
 Hi = 28.5

| Lab | Rating | Z-value | 3 | 4 | 6 |
|-----|--------|---------|------|--------|------|
| 1 | 4 | -0.10 | | | 31.0 |
| 3 | 2 | -1.10 | | 27.0 | |
| 11 | 4 | 0.40 | | 33.0 | |
| 13 | 1 | -1.62 | 24.9 | | |
| 16 | 4 | 0.10 | | | 31.8 |
| 18 | 4 | -0.22 | 30.5 | | |
| 23 | 0 | 3.15 | 44.0 | | |
| 32 | 2 | 1.10 | | | 35.8 |
| 36 | 0 | -5.22 | 10.5 | | |
| 42 | 4 | -0.25 | | | 30.4 |
| 48 | 3 | 0.60 | | | 33.8 |
| 59 | 4 | 0.40 | | | 33.0 |
| 61 | 2 | 1.25 | | 36.4 | |
| 68 | 1 | 1.75 | 38.4 | | |
| 69 | 4 | 0.00 | 31.4 | | |
| 70 | 3 | -0.57 | 29.1 | | |
| 81 | 4 | -0.35 | 30.0 | | |
| 89 | 4 | -0.05 | 31.2 | | |
| 97 | 3 | 0.67 | 34.1 | | |
| 105 | 4 | 0.05 | | | 31.6 |
| 113 | 3 | -0.72 | 28.5 | | |
| 119 | 3 | 0.90 | | | 35.0 |
| 134 | 3 | 0.78 | 34.5 | | |
| 138 | 4 | 0.47 | | | 33.3 |
| 141 | 0 | 4.52 | 49.5 | | |
| 142 | 3 | 0.65 | | | 34.0 |
| 145 | 0 | -7.10 | | < 3 | |
| 146 | 4 | 0.47 | | 33.3 | |
| 147 | 4 | -0.10 | | | 31.0 |
| 151 | 3 | 0.67 | | | 34.1 |
| 180 | NR | | | < 40.1 | |
| 191 | 3 | 0.52 | | | 33.5 |
| 193 | 0 | -6.60 | 5.0 | | |
| 198 | 4 | 0.00 | 31.4 | | |
| 212 | 3 | 0.75 | | | 34.4 |
| 213 | 0 | -2.55 | 21.2 | | |
| 215 | 0 | -3.35 | 18.0 | | |
| 234 | 4 | -0.35 | 30.0 | | |
| 235 | 3 | 0.55 | | | 33.6 |
| 241 | 0 | -5.17 | 10.7 | | |
| 245 | 3 | 0.62 | | | 33.9 |
| 247 | 0 | -2.85 | 20.0 | | |
| 255 | NR | | | < 59 | |
| 265 | 4 | -0.22 | | | 30.5 |
| 273 | 0 | -2.70 | | 20.6 | |
| 282 | 3 | -0.92 | 27.7 | | |
| 284 | 0 | -5.35 | 10.0 | | |
| 292 | 4 | 0.40 | 33.0 | | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
 U (Uranium) µg/L



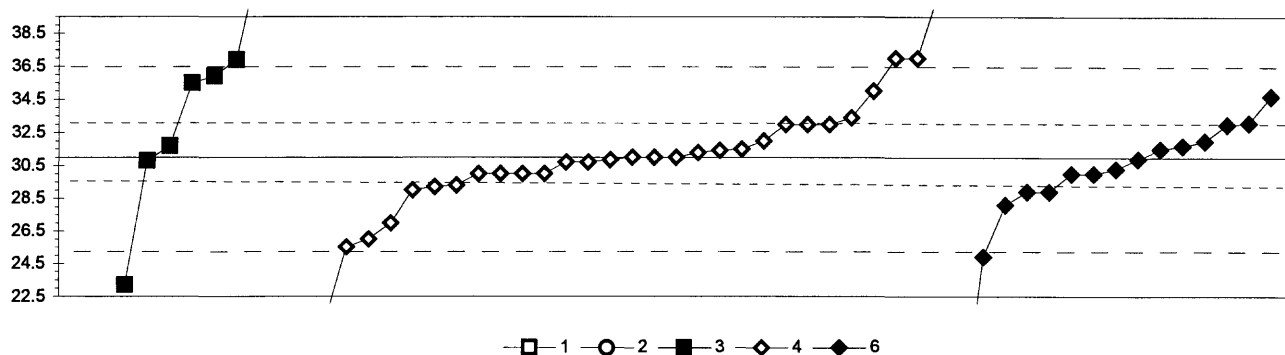
◆ 6

| | | | |
|-----------|------------------|---------|---|
| 6. ICP/MS | | | |
| | N = | 8 | |
| | Minimum = | 2.40 | |
| | Maximum = | 3.40 | |
| | Median = | 2.71 | |
| | F-pseudostigma = | 0.43 | |
| Lab | Rating | Z-value | 6 |

MPV = 2.71
 F-pseudostigma = 0.43
 N = 8
 Hu = 3.03
 HI = 2.45

| Lab | Rating | Z-value | 6 |
|-----|--------|---------|------|
| 1 | 3 | -0.72 | 2.40 |
| 16 | 4 | 0.46 | 2.90 |
| 30 | 1 | 1.63 | 3.40 |
| 32 | 2 | 1.04 | 3.15 |
| 119 | 4 | 0.46 | 2.90 |
| 142 | 4 | -0.46 | 2.51 |
| 147 | 4 | -0.48 | 2.50 |
| 265 | 3 | -0.72 | 2.40 |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)—Continued
V (Vanadium) $\mu\text{g/L}$



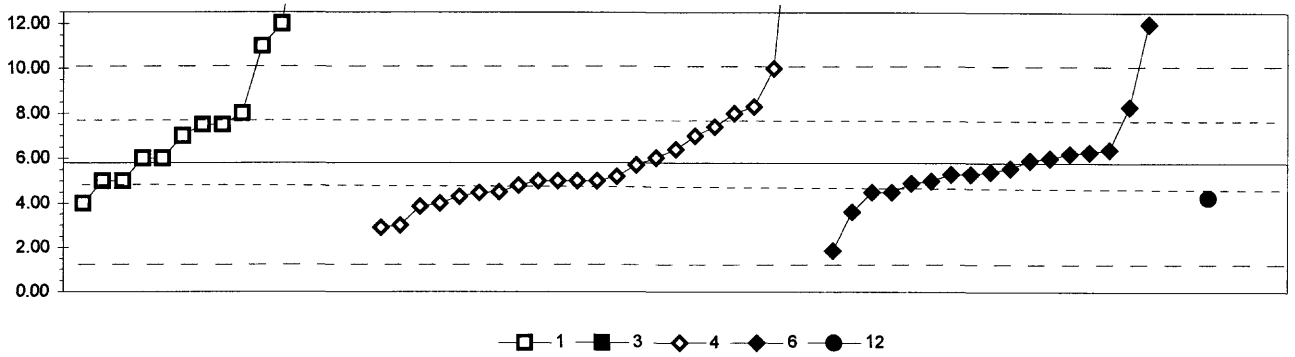
| | N = | 1 | 0 | 7 | 31 | 15 |
|-----------------------------|-----------------|-------|-------|------|------|------|
| 1. AA: direct air | | | | | | |
| 2. AA: direct nitrous oxide | | 561.0 | < 100 | 23.2 | 13.3 | 14.5 |
| 3. AA: graphite furnace | | | | 42.8 | 41.1 | 34.7 |
| | Minimum = | | | 35.5 | 30.8 | 30.3 |
| | Maximum = | | | 3.8 | 2.4 | 2.2 |
| | Median = | | | | | |
| | F-pseudosigma = | | | | | |

MPV = 31.0
F-pseudosigma = 2.8
N = 54
Hu = 33.0
HI = 29.2

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|---|---|------|------|------|
| 1 | 4 | 0.02 | | | | 31.0 | |
| 3 | 4 | 0.37 | | | | 32.0 | |
| 4 | 0 | -3.89 | | | | 20.0 | |
| 11 | 3 | 0.73 | | | | 33.0 | |
| 13 | 0 | -3.57 | | | | 20.9 | |
| 16 | 3 | 0.73 | | | | | 33.0 |
| 18 | 4 | -0.34 | | | | 30.0 | |
| 23 | 0 | 2.11 | | | 36.9 | | |
| 25 | 4 | -0.34 | | | | 30.0 | |
| 26 | 4 | 0.12 | | | | 31.3 | |
| 30 | 4 | 0.37 | | | | | 32.0 |
| 32 | 4 | 0.27 | | | | | 31.7 |
| 40 | 3 | -0.59 | | | | 29.3 | |
| 42 | 0 | -2.15 | | | | | 24.9 |
| 46 | 4 | -0.09 | | | | 30.7 | |
| 48 | 4 | -0.34 | | | | | 30.0 |
| 61 | 3 | 0.87 | | | | 33.4 | |
| 68 | 3 | 0.73 | | | | 33.0 | |
| 70 | NR | | | | | < 50 | |
| 81 | 3 | 0.73 | | | | 33.0 | |
| 86 | 0 | 3.60 | | | | 41.1 | |
| 89 | 0 | 4.21 | | | 42.8 | | |
| 97 | 0 | -2.75 | | | 23.2 | | |
| 105 | 3 | -0.73 | | | | | 28.9 |
| 111 | 1 | 1.76 | | | 35.9 | | |
| 119 | 3 | 0.76 | | | | | 33.1 |
| 121 | 4 | -0.34 | | | | 30.0 | |
| 131 | 2 | -1.40 | | | | 27.0 | |
| 134 | 4 | -0.04 | | | | 30.8 | |
| 138 | 4 | 0.02 | | | | 31.0 | |
| 141 | 3 | -0.62 | | | | 29.2 | |
| 142 | 4 | -0.02 | | | | | 30.9 |
| 145 | 0 | 2.15 | | | | 37.0 | |
| 146 | 4 | 0.02 | | | | 31.0 | |
| 147 | 4 | 0.20 | | | | | 31.5 |
| 154 | 0 | 2.15 | | | | 37.0 | |
| 158 | 4 | -0.09 | | | | 30.7 | |
| 180 | 0 | -6.27 | | | | 13.3 | |
| 183 | 1 | 1.62 | | | 35.5 | | |
| 212 | 3 | -0.73 | | | | | 28.9 |
| 219 | 3 | -0.69 | | | | 29.0 | |
| 220 | 4 | -0.34 | | | | 30.0 | |
| 224 | 1 | -1.93 | | | | 25.5 | |
| 234 | 4 | 0.20 | | | | 31.5 | |
| 235 | 2 | 1.33 | | | | | 34.7 |
| 236 | 1 | -1.76 | | | | 26.0 | |
| 237 | 2 | 1.44 | | | | 35.0 | |
| 241 | 4 | -0.05 | | | 30.8 | | |
| 245 | 2 | -1.01 | | | | | 28.1 |
| 247 | 0 | -5.84 | | | | | 14.5 |

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-------|-------|---|------|------|
| 255 | 4 | 0.17 | | | | 31.4 | |
| 257 | NR | | | < 100 | | | |
| 265 | 4 | -0.34 | | | | | 30.0 |
| 282 | 4 | -0.23 | | | | | 30.3 |
| 284 | 0 | 188.17 | 561.0 | | | | |
| 289 | 4 | 0.27 | | | | 31.7 | |

Table 14. Statistical summary of reported data for standard reference water sample T-149 (trace constituents)--Continued
 Zn (Zinc) µg/L



| | |
|-------------------------|---|
| 1. AA: direct air | 6. ICP/MS |
| 3. AA: graphite furnace | 12. Flame emission |
| 4. ICP | |
| | N = 13 2 23 17 1 |
| | Minimum = 4.00 15.71 2.90 1.85 4.25 |
| | Maximum = 20.00 17.20 25.90 12.00 |
| | Median = 7.50 5.00 5.40 |
| | F-pseudosigma = 3.71 2.01 1.11 |

MPV = 5.80
 F-pseudosigma = 2.15
 N = 56
 Hu = 7.75
 Hi = 4.85

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 | 12 |
|-----|--------|---------|-------|---|-------|-------|----|
| 1 | 4 | -0.42 | | | | 4.90 | |
| 3 | 3 | 0.56 | | | 7.00 | | |
| 4 | 3 | -0.60 | | | 4.50 | | |
| 10 | 4 | -0.37 | 5.00 | | | | |
| 12 | NR | | | | < 20 | | |
| 13 | NR | | | | < 10 | | |
| 16 | 2 | -1.02 | | | | 3.60 | |
| 18 | NR | | | | < 100 | | |
| 25 | NR | | | | < 4 | | |
| 26 | 3 | -0.91 | | | 3.85 | | |
| 30 | 4 | 0.28 | | | | 6.40 | |
| 32 | 4 | 0.19 | | | | 6.20 | |
| 42 | 4 | -0.37 | | | | 5.00 | |
| 48 | 2 | 1.16 | | | | 8.30 | |
| 59 | 4 | 0.09 | | | | 6.00 | |
| 61 | 4 | 0.28 | | | | 6.40 | |
| 68 | 3 | 0.74 | | | | 7.40 | |
| 69 | NR | | < 50 | | | | |
| 70 | NR | | | | < 20 | | |
| 80 | NR | | < 2 | | | | |
| 81 | 2 | -1.30 | | | | 3.00 | |
| 83 | 2 | -1.35 | | | | 2.90 | |
| 87 | 0 | 2.42 | 11.00 | | | | |
| 89 | NR | | | | < 5 | | |
| 92 | 0 | 2.88 | 12.00 | | | | |
| 96 | NR | | < 10 | | | | |
| 97 | 0 | -2.70 | | | < 0 | | |
| 105 | NR | | | | | < 5 | |
| 108 | 0 | 6.61 | 20.00 | | | | |
| 113 | 4 | -0.37 | | | | 5.00 | |
| 114 | NR | | < 10 | | | | |
| 118 | NR | | < 15 | | | | |
| 119 | 4 | -0.23 | | | | 5.30 | |
| 121 | 3 | -0.84 | | | | 4.00 | |
| 126 | 4 | 0.09 | 6.00 | | | | |
| 131 | 0 | 6.14 | | | | 19.00 | |
| 133 | 4 | 0.10 | | | | 6.02 | |
| 134 | 3 | -0.62 | | | | 4.47 | |
| 138 | 3 | -0.60 | | | | 4.50 | |
| 140 | 3 | 0.79 | 7.50 | | | | |
| 141 | NR | | | | < 5 | | |
| 142 | 1 | -1.84 | | | | 1.85 | |
| 145 | 2 | 1.02 | | | | 8.00 | |
| 146 | NR | | | | < 20 | | |
| 147 | 4 | 0.05 | | | | 5.90 | |
| 149 | 4 | 0.09 | 6.00 | | | | |
| 151 | 4 | -0.23 | | | | 5.30 | |
| 154 | 4 | -0.37 | | | | 5.00 | |
| 158 | 4 | -0.05 | | | | 5.70 | |
| 180 | 4 | -0.37 | | | | 5.00 | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 | 12 |
|-----|--------|---------|-------|-------|-------|-------|------|
| 190 | 3 | -0.72 | | | | | 4.25 |
| 191 | 4 | -0.19 | | | | 5.40 | |
| 193 | NR | | < 50 | | | | |
| 198 | NR | | | | < 25 | | |
| 203 | 3 | 0.79 | 7.50 | | | | |
| 212 | 4 | 0.22 | | | | 6.28 | |
| 213 | NR | | < 38 | | | | |
| 215 | 1 | 1.95 | | | 10.00 | | |
| 219 | 4 | -0.37 | | | 5.00 | | |
| 220 | 3 | -0.70 | | | 4.30 | | |
| 224 | 4 | -0.47 | | | 4.80 | | |
| 234 | 2 | 1.16 | | | 8.30 | | |
| 235 | 4 | -0.11 | | | | 5.56 | |
| 236 | 0 | -2.23 | | | < 1 | | |
| 237 | NR | | | | < 10 | | |
| 241 | NR | | < 10 | | | | |
| 245 | 0 | 5.30 | | 17.20 | | | |
| 247 | 0 | 2.88 | | | | 12.00 | |
| 252 | 3 | -0.84 | 4.00 | | | | |
| 255 | 2 | 1.02 | 8.00 | | | | |
| 256 | NR | | < 10 | | | | |
| 257 | 4 | -0.37 | 5.00 | | | | |
| 259 | 4 | -0.28 | | | 5.20 | | |
| 265 | 3 | -0.60 | | | | 4.50 | |
| 273 | 0 | 9.35 | | | 25.90 | | |
| 274 | 0 | 4.61 | | 15.71 | | | |
| 282 | NR | | | | | < 20 | |
| 284 | 0 | 5.21 | 17.00 | | | | |
| 287 | 3 | 0.56 | 7.00 | | | | |
| 292 | NR | | < 10 | | | | |

Table 15. *Statistical summary of reported data for standard reference water sample M-142 (major constituents)*

Definition of analytical methods, abbreviations, and symbols

Analytical methods

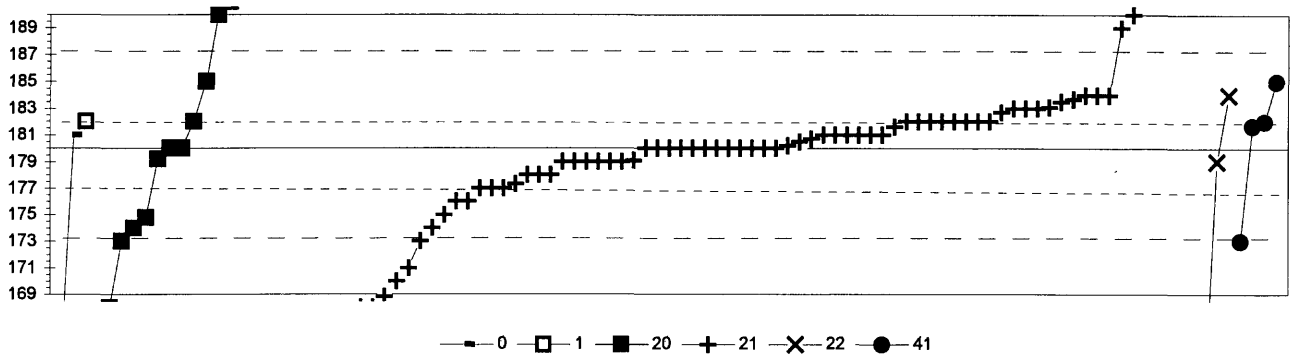
| | | |
|--------------------------------|---|---|
| 0 Other/Not reported | = | |
| 1 AA: direct, air | = | atomic absorption: direct,air |
| 2 AA: direct, N ₂ O | = | atomic absorption: direct,nitrous oxide |
| 3 AA: graphite furnace | = | atomic absorption: graphite furnace |
| 4 ICP | = | inductively coupled plasma |
| 5 DCP | = | direct current plasma |
| 6 ICP/MS | = | inductively coupled plasma/mass spectrometry |
| 7 IC | = | ion chromatography |
| 12 Flame emission | = | flame emission |
| 20 Titrate: color | = | titration: colorimetric [color reagent specified] |
| 21 Titrate: electro | = | titration: electrometric |
| 22 Color: | = | colorimetric [color reagent specified] |
| 40 Ion electrode | = | ion selective electrode |
| 41 Electro | = | electrometric: [type meter specified] |
| 50 Gravimetric | = | gravimetric: [precipitate specified] |
| 51 Turbidimetric | = | turbidimetric: [precipitate specified] |

Abbreviations and symbols

| | | |
|---------------|---|--------------------------------------|
| N | = | number of samples |
| MPV | = | most probable value |
| F-pseudosigma | = | nonparametric statistic deviation |
| Hu | = | upper hinge value |
| Hi | = | lower hinge value |
| µg/L | = | micrograms per liter |
| mg/L | = | milligrams per liter |
| µS/cm | = | microsiemens per centimeter at 25° C |
| Lab | = | laboratory code number |
| NR | = | not rated, less than value reported |
| < | = | less than |

| <u>Constituent</u> | <u>page</u> |
|-------------------------------------|-------------|
| Alk Alkalinity as CaCO ₃ | 112 |
| B Boron | 113 |
| Ca Calcium | 114 |
| Cl Chloride | 115 |
| DSRD Dissolved solids | 116 |
| F Fluoride | 117 |
| K Potassium | 118 |
| Mg Magnesium | 119 |
| Na Sodium | 120 |
| total P Phosphorus | 121 |
| pH | 122 |
| SiO ₂ Silica | 123 |
| SO ₄ Sulfate | 124 |
| Sp Con Specific Conductance | 125 |
| Sr Strontium | 126 |
| V Vanadium | 127 |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)—Continued
Alkalinity (as CaCO₃) mg/L



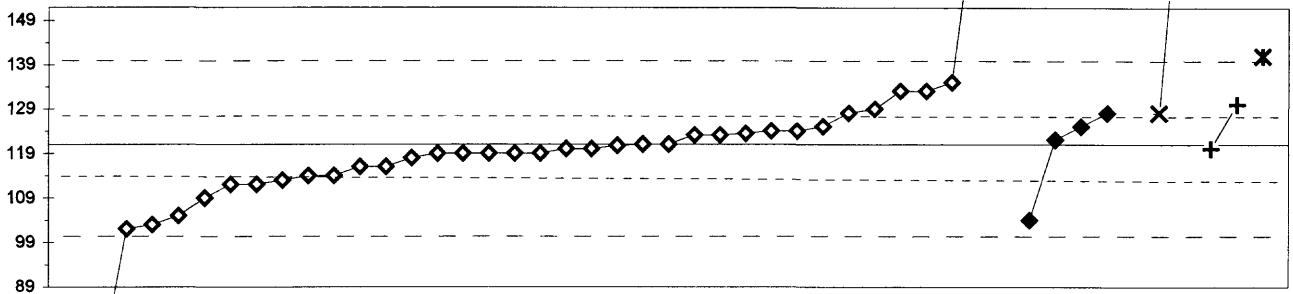
| | | | | | | | |
|---------------------------|----------------------------|-----|-----|-----|-----|-----|-----|
| 0. Other | 21. Titrate: electrometric | | | | | | |
| 1. AA: direct air | 22. Colorimetric | | | | | | |
| 20. Titrate: colorimetric | 41. Direct reading | | | | | | |
| | N = | 2 | 1 | 16 | 76 | 4 | 4 |
| | Minimum = | 165 | 182 | 161 | 6 | 159 | 173 |
| | Maximum = | 181 | | 273 | 220 | 184 | 185 |
| | Median = | | | 181 | 180 | | |
| | F-pseudostigma = | | | 18 | 4 | | |

MPV = 180
F-pseudostigma = 9
N = 103
Hu = 182
HI = 177

| Lab | Rating | Z-value | 0 | 1 | 20 | 21 | 22 | 41 |
|-----|--------|---------|-----|-----|-----|-----|-----|-----|
| 1 | 4 | 0.22 | | | | | | 182 |
| 3 | 4 | 0.00 | | | | 180 | | |
| 9 | 4 | -0.11 | | | | 179 | | |
| 10 | 4 | 0.22 | | | | 182 | | |
| 11 | 0 | 2.78 | | | | 205 | | |
| 12 | 4 | -0.11 | | | | 179 | | |
| 13 | 4 | 0.00 | | | | 180 | | |
| 16 | 4 | 0.08 | | | | 181 | | |
| 18 | 4 | 0.33 | | | | 183 | | |
| 19 | 3 | -0.56 | | | | 175 | | |
| 23 | 4 | 0.11 | | | | 181 | | |
| 24 | 4 | 0.06 | | | | 181 | | |
| 25 | 4 | 0.44 | | | | 184 | | |
| 26 | 4 | 0.22 | | | | 182 | | |
| 32 | 4 | 0.33 | | | | 183 | | |
| 33 | 4 | 0.18 | | | | 182 | | |
| 36 | 0 | 4.44 | | | | 220 | | |
| 38 | 4 | 0.30 | | | | 183 | | |
| 39 | 2 | -1.11 | | | | 170 | | |
| 40 | 2 | -1.33 | | | | 168 | | |
| 42 | 1 | -1.66 | 165 | | | | | |
| 43 | 4 | 0.00 | | | | 180 | | |
| 46 | 4 | 0.22 | | | | 182 | | |
| 48 | 0 | -2.11 | | | | | 161 | |
| 50 | 2 | 1.11 | | | | 190 | | |
| 51 | 4 | 0.22 | | | | 182 | | |
| 57 | 4 | 0.00 | | 180 | | | | |
| 61 | 4 | 0.00 | | | | 180 | | |
| 68 | 4 | 0.44 | | | | | 184 | |
| 69 | 4 | -0.11 | | | | | 179 | |
| 70 | 4 | 0.00 | | | | 180 | | |
| 76 | 3 | -0.58 | | 175 | | | | |
| 80 | 4 | -0.09 | | 179 | | | | |
| 81 | 4 | 0.22 | | | | 182 | | |
| 85 | 4 | 0.22 | | | | 182 | | |
| 87 | 4 | 0.00 | | | | 180 | | |
| 89 | 4 | -0.11 | | | | 179 | | |
| 90 | 1 | -1.89 | | | | 163 | | |
| 92 | 4 | 0.11 | | | | 181 | | |
| 96 | 4 | 0.39 | | | | 184 | | |
| 97 | 4 | 0.11 | | | | 181 | | |
| 105 | 4 | 0.02 | | | | 180 | | |
| 107 | 4 | -0.33 | | | | 177 | | |
| 109 | 2 | 1.30 | | | | 192 | | |
| 111 | 4 | -0.11 | | | | 179 | | |
| 113 | 4 | 0.44 | | | | 184 | | |
| 114 | 4 | 0.44 | | | | 184 | | |
| 118 | 2 | 1.11 | | 190 | | | | |
| 119 | 4 | -0.22 | | | | 178 | | |
| 127 | 4 | 0.00 | | | | 180 | | |
| 129 | 4 | 0.22 | | | 182 | | | |
| 133 | 4 | 0.11 | 181 | | | | | |
| 134 | 4 | 0.19 | | | | | | 182 |
| 138 | 2 | 1.00 | | | | 189 | | |
| 141 | 4 | 0.11 | | | | 181 | | |

| Lab | Rating | Z-value | 0 | 1 | 20 | 21 | 22 | 41 |
|-----|--------|---------|---|-----|-----|-----|-----|-----|
| 142 | 4 | 0.11 | | | | 181 | | |
| 145 | 0 | -2.33 | | | | | 159 | |
| 146 | 4 | 0.33 | | | | 183 | | |
| 149 | 0 | 8.89 | | | 260 | | | |
| 151 | 4 | 0.00 | | | 180 | | | |
| 154 | 4 | -0.44 | | | | 176 | | |
| 158 | 4 | -0.33 | | | | 177 | | |
| 180 | 3 | 0.56 | | | | | | 185 |
| 185 | 4 | -0.30 | | | | 177 | | |
| 190 | 4 | -0.11 | | | | 179 | | |
| 193 | 4 | 0.41 | | | | 184 | | |
| 196 | 0 | -2.11 | | | 161 | | | |
| 203 | 2 | -1.24 | | | | 169 | | |
| 212 | 4 | -0.22 | | | | 178 | | |
| 213 | 0 | -16.31 | | | | 33 | | |
| 215 | 4 | 0.22 | | | | 182 | | |
| 217 | 4 | 0.11 | | | | 181 | | |
| 218 | 0 | -2.27 | | | | 160 | | |
| 220 | 3 | -0.78 | | | | 173 | | |
| 224 | 4 | -0.22 | | | | 178 | | |
| 234 | 3 | -0.78 | | | 173 | | | |
| 236 | 4 | 0.34 | | | | 183 | | |
| 244 | 4 | 0.22 | | | | 182 | | |
| 247 | 0 | -19.34 | | | | 6 | | |
| 252 | 3 | -0.78 | | | | | | 173 |
| 255 | 3 | -0.67 | | | | 174 | | |
| 256 | 3 | -0.67 | | | 174 | | | |
| 257 | 4 | 0.00 | | | | 180 | | |
| 258 | 2 | 1.22 | | | 191 | | | |
| 259 | 4 | 0.00 | | | | 180 | | |
| 261 | 0 | 10.28 | | | 273 | | | |
| 262 | 4 | -0.10 | | | | 179 | | |
| 263 | 2 | -1.00 | | | | 171 | | |
| 264 | 4 | 0.00 | | | | 180 | | |
| 265 | 0 | 3.56 | | | 212 | | | |
| 266 | 4 | -0.33 | | | | 177 | | |
| 267 | 4 | 0.00 | | | | 180 | | |
| 269 | 4 | -0.11 | | | | 179 | | |
| 270 | 0 | 2.08 | | | | 199 | | |
| 272 | 0 | 6.75 | | | 241 | | | |
| 273 | 0 | -3.56 | | | | 148 | | |
| 274 | 0 | -3.24 | | | | 151 | | |
| 275 | 2 | -1.33 | | | 168 | | | |
| 276 | 3 | 0.56 | | | 185 | | | |
| 282 | 4 | -0.44 | | | | 176 | | |
| 284 | 4 | 0.22 | | 182 | | | | |
| 287 | 2 | -1.33 | | | | 168 | | |
| 292 | 4 | 0.00 | | | | 180 | | |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)—Continued
 B (Boron) μg/L



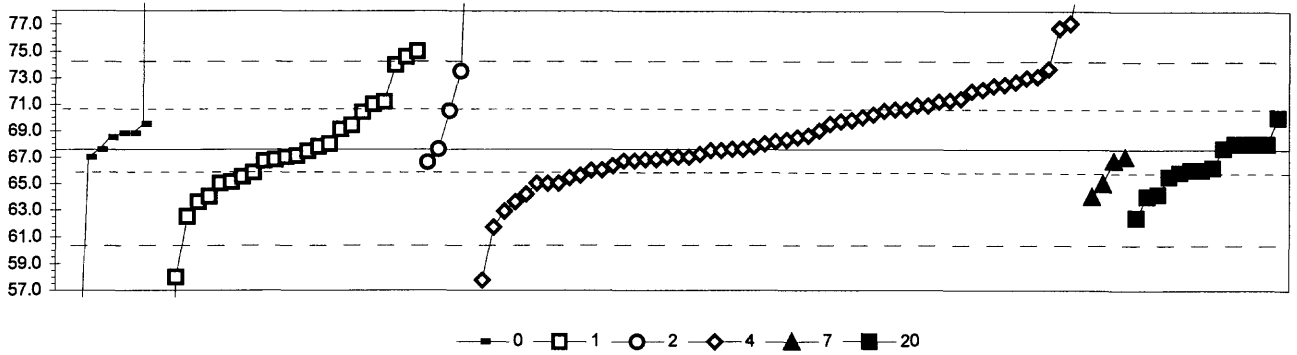
◇ 4 ◆ 6 ▲ 7 × 22 + 22az × 22cu

| | |
|-----------------------|--------------------------------|
| 4. ICP | 22. Colorimetric |
| 6. ICP/MS | 22az. Color: azomethine |
| 7. Ion chromatography | 22cu. Color: curcumin |
| N = 36 | 4 0 2 2 1 |
| Minimum = 52 | 104 < 100 128 120 141 |
| Maximum = 249 | 128 198 130 |
| Median = 119 | |
| F-pseudosigma = 7 | |

MPV = 121
 F-pseudosigma = 10
 N = 45
 Hu = 128
 HI = 114

| Lab | Rating | Z-value | 4 | 6 | 7 | 22 | 22az | 22cu |
|-----|--------|---------|------|-----|-------|-----|------|------|
| 1 | 3 | -0.65 | 114 | | | | | |
| 3 | 4 | 0.32 | 124 | | | | | |
| 10 | 3 | 0.70 | | | 128 | | | |
| 11 | 3 | -0.74 | 113 | | | | | |
| 16 | 0 | 12.36 | 249 | | | | | |
| 18 | 4 | -0.17 | 119 | | | | | |
| 24 | 4 | -0.17 | 119 | | | | | |
| 25 | 0 | -9.80 | < 23 | | | | | |
| 26 | 2 | -1.13 | 109 | | | | | |
| 32 | 1 | -1.61 | | 104 | | | | |
| 39 | 4 | -0.17 | 119 | | | | | |
| 40 | 1 | -1.51 | 105 | | | | | |
| 42 | 1 | -1.80 | 102 | | | | | |
| 46 | 4 | 0.03 | 121 | | | | | |
| 48 | 0 | -4.89 | 70 | | | | | |
| 50 | 3 | 0.89 | | | | | 130 | |
| 57 | NR | | | | < 100 | | | |
| 61 | 3 | 0.80 | 129 | | | | | |
| 68 | 0 | 5.71 | 180 | | | | | |
| 70 | 4 | 0.41 | 125 | | | | | |
| 85 | 3 | -0.84 | 112 | | | | | |
| 86 | 3 | -0.65 | 114 | | | | | |
| 119 | 1 | -1.71 | 103 | | | | | |
| 121 | 4 | 0.32 | 124 | | | | | |
| 127 | 4 | -0.17 | 119 | | | | | |
| 129 | 0 | 7.45 | | | 198 | | | |
| 131 | 4 | 0.22 | 123 | | | | | |
| 134 | 4 | 0.00 | 121 | | | | | |
| 138 | 4 | 0.03 | 121 | | | | | |
| 141 | 2 | 1.18 | 133 | | | | | |
| 142 | 4 | -0.45 | 116 | | | | | |
| 145 | 4 | 0.22 | 123 | | | | | |
| 147 | 3 | 0.70 | | 128 | | | | |
| 154 | 4 | -0.45 | 116 | | | | | |
| 180 | 3 | 0.70 | 128 | | | | | |
| 212 | 2 | 1.18 | 133 | | | | | |
| 215 | 4 | -0.07 | 120 | | | | | |
| 217 | 4 | -0.26 | 118 | | | | | |
| 219 | 4 | -0.07 | | | | 120 | | |
| 234 | 4 | -0.17 | 119 | | | | | |
| 236 | 3 | -0.84 | 112 | | | | | |
| 255 | 4 | 0.26 | 123 | | | | | |
| 256 | 0 | -11.10 | | | < 10 | | | |
| 259 | 2 | 1.38 | 135 | | | | | |
| 265 | 4 | 0.12 | | 122 | | | | |
| 266 | 1 | 1.95 | | | | | | 141 |
| 273 | 0 | -6.62 | 52 | | | | | |
| 282 | 4 | 0.41 | | 125 | | | | |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)--Continued
Ca (Calcium) mg/L

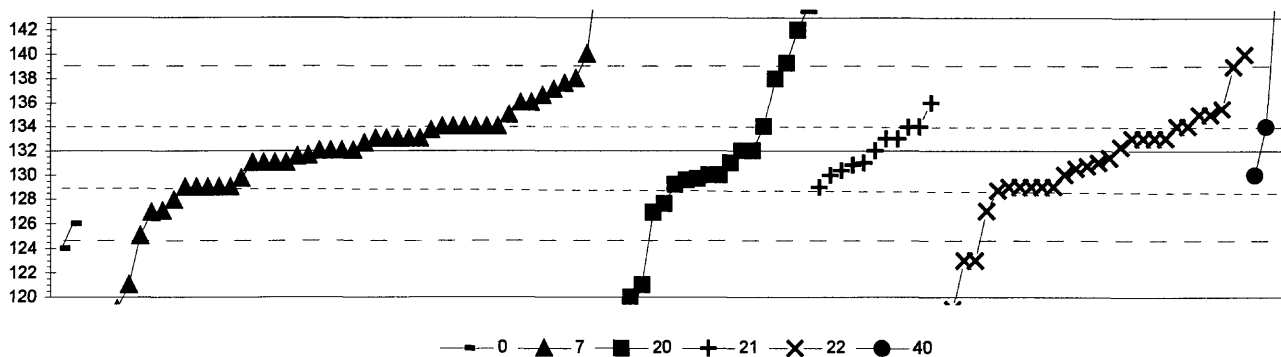


| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 7 | 20 |
|-----|--------|---------|-------|------|------|------|------|----|
| 1 | 3 | -0.65 | | | | 65.4 | | |
| 3 | 2 | 1.09 | | | | 71.3 | | |
| 10 | 4 | -0.27 | | 66.7 | | | | |
| 11 | 1 | 1.80 | | | | 73.7 | | |
| 12 | 4 | 0.41 | | | | 69.0 | | |
| 13 | 4 | -0.18 | | | | 67.0 | | |
| 16 | 3 | 0.71 | | | | 70.0 | | |
| 18 | 4 | -0.24 | | | | 66.8 | | |
| 19 | 4 | -0.24 | | | | 66.8 | | |
| 23 | 0 | 2.07 | | 74.6 | | | | |
| 24 | 4 | -0.03 | | | | 67.5 | | |
| 25 | 1 | 1.51 | | | | 72.7 | | |
| 26 | 4 | 0.21 | | | | 68.3 | | |
| 30 | 1 | 1.74 | | | 73.5 | | | |
| 32 | 4 | 0.35 | 68.8 | | | | | |
| 33 | 4 | 0.00 | 67.6 | | | | | |
| 36 | 3 | 0.86 | | | 70.5 | | | |
| 38 | 4 | -0.30 | | | 66.6 | | | |
| 39 | 3 | -0.77 | | | | 65.0 | | |
| 40 | 1 | -1.74 | | | | 61.7 | | |
| 42 | 0 | 2.70 | | | | 76.7 | | |
| 43 | 3 | 0.65 | | | | 69.8 | | |
| 45 | 4 | 0.35 | 68.8 | | | | | |
| 46 | 3 | -0.59 | | | | 65.6 | | |
| 48 | 1 | 1.60 | | | | 73.0 | | |
| 50 | 4 | -0.18 | | | | | 67.0 | |
| 51 | 2 | -1.18 | | 63.6 | | | | |
| 57 | 3 | -0.77 | | | | | 65.0 | |
| 59 | 0 | 3.96 | | | | 81.0 | | |
| 61 | 0 | 2.81 | | | | 77.1 | | |
| 68 | 4 | -0.18 | | | | 67.0 | | |
| 69 | 3 | -0.53 | | 65.8 | | | | |
| 70 | 3 | 0.89 | | | | 70.6 | | |
| 80 | 0 | 2.19 | | 75.0 | | | | |
| 81 | 3 | 0.77 | | | | 70.2 | | |
| 83 | 2 | -1.39 | | | | 62.9 | | |
| 84 | 4 | 0.44 | | 69.1 | | | | |
| 85 | 3 | 0.53 | | 69.4 | | | | |
| 86 | 3 | 0.86 | | | | 70.5 | | |
| 87 | 4 | 0.00 | | | 67.6 | | | |
| 89 | 3 | -0.77 | | 65.0 | | | | |
| 90 | 3 | -0.53 | | | | | 65.8 | |
| 92 | 0 | -2.84 | | 58.0 | | | | |
| 93 | 2 | -1.01 | | | | 64.2 | | |
| 97 | 4 | -0.15 | | 67.1 | | | | |
| 102 | 2 | 1.30 | | | | 72.0 | | |
| 105 | 4 | -0.27 | | | | 66.7 | | |
| 108 | 0 | 31.74 | 175.0 | | | | | |
| 109 | 4 | -0.24 | | 66.8 | | | | |
| 111 | 0 | 7.71 | | | 93.7 | | | |
| 113 | 3 | 0.98 | | | | 70.9 | | |
| 119 | 4 | 0.00 | | | | 67.6 | | |
| 121 | 4 | -0.47 | | | | 66.0 | | |
| 127 | 4 | -0.27 | | | | 66.7 | | |
| 129 | 1 | 1.89 | | 74.0 | | | | |
| 131 | 2 | 1.12 | | | | 71.4 | | |
| 133 | 2 | 1.45 | | | | 72.5 | | |
| 134 | 3 | -0.77 | | | | 65.0 | | |
| 138 | 4 | 0.12 | | | | 68.0 | | |
| 140 | 4 | 0.12 | | 68.0 | | | | |

| | |
|-----------------|------|
| MPV = | 67.6 |
| F-pseudosigma = | 3.4 |
| N = | 112 |
| Hu = | 70.5 |
| Hi = | 65.9 |

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 7 | 20 |
|-----|--------|---------|------|------|------|---|------|------|
| 141 | 2 | 1.06 | | | | | 71.2 | |
| 142 | 4 | -0.48 | | | | | 66.0 | |
| 145 | 1 | 1.63 | | | | | 73.1 | |
| 146 | 4 | 0.27 | | | | | 68.5 | |
| 147 | 4 | -0.18 | | | | | 67.0 | |
| 149 | 2 | -1.06 | | 64.0 | | | | |
| 151 | 2 | 1.06 | | 71.2 | | | | |
| 154 | 2 | -1.18 | | | | | 63.6 | |
| 180 | 4 | -0.03 | | | | | 67.5 | |
| 183 | 0 | -8.69 | | | 38.2 | | | |
| 185 | 3 | -0.62 | | | 65.5 | | | |
| 190 | 2 | -1.06 | | | | | 64.0 | |
| 191 | 4 | -0.18 | 67.0 | | | | | |
| 196 | 3 | 0.83 | | 70.4 | | | | |
| 209 | 3 | 0.89 | | | | | 70.6 | |
| 212 | 3 | 0.62 | | | | | 69.7 | |
| 215 | 4 | 0.00 | | | | | 67.6 | |
| 217 | 4 | 0.06 | | | | | 67.8 | |
| 218 | 2 | 1.42 | | | | | 72.4 | |
| 219 | 3 | -0.77 | | | | | 65.0 | |
| 220 | 4 | -0.18 | | 67.0 | | | | |
| 221 | 3 | -0.74 | | 65.1 | | | | |
| 224 | 0 | -2.91 | | | | | 57.7 | |
| 234 | 3 | 0.98 | | | | | 70.9 | |
| 235 | 4 | -0.12 | | | | | 67.2 | |
| 236 | 4 | -0.37 | | | | | 66.4 | |
| 241 | 3 | 1.00 | | 71.0 | | | | |
| 247 | 4 | -0.27 | | | | | | 66.7 |
| 255 | 4 | 0.17 | | | | | 68.2 | |
| 256 | 3 | -0.62 | | | | | | 65.5 |
| 257 | 3 | 0.71 | | | | | | 70.0 |
| 258 | 4 | 0.02 | | | | | | 67.7 |
| 259 | 4 | -0.47 | | | | | | 66.0 |
| 261 | 4 | -0.41 | | | | | | 66.2 |
| 262 | 4 | 0.27 | 68.5 | | | | | |
| 263 | 2 | -1.06 | | | | | | 64.0 |
| 264 | 4 | 0.12 | | | | | | 68.0 |
| 265 | 4 | 0.30 | | | | | 68.6 | |
| 266 | 4 | 0.12 | | | | | | 68.0 |
| 267 | 4 | 0.12 | | | | | | 68.0 |
| 268 | 1 | -1.51 | | 62.5 | | | | |
| 269 | 4 | -0.47 | | | | | | 66.0 |
| 270 | 0 | -6.41 | 45.9 | | | | | |
| 272 | 2 | -1.01 | | | | | | 64.2 |
| 273 | 2 | 1.33 | | | | | 72.1 | |
| 274 | 0 | -11.29 | 29.4 | | | | | |
| 275 | 4 | 0.12 | | | | | | 68.0 |
| 276 | 1 | -1.54 | | | | | | 62.4 |
| 282 | 3 | 0.56 | 69.5 | | | | | |
| 284 | 4 | 0.06 | | 67.8 | | | | |
| 287 | 4 | -0.05 | | 67.4 | | | | |
| 292 | 3 | 0.56 | | | | | 69.5 | |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)--Continued
Cl (Chloride) mg/L



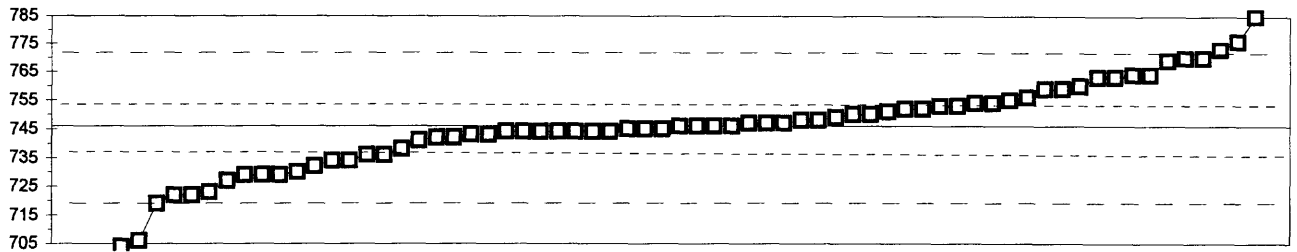
| | | | | | | | |
|---------------------------|-----------------------------|-----|-----|-----|-----|-----|-----|
| 0. Other | 21. Titrate: electrometric | | | | | | |
| 7. Ion chromatography | 22. Colorimetric | | | | | | |
| 20. Titrate: colorimetric | 40. Ion selective electrode | | | | | | |
| | N = | 2 | 49 | 17 | 11 | 28 | 3 |
| | Minimum = | 124 | 28 | 120 | 129 | 109 | 130 |
| | Maximum = | 126 | 191 | 144 | 136 | 140 | 148 |
| | Median = | 132 | 130 | 132 | 131 | | |
| | F-pseudosigma = | 4 | 3 | 1 | 3 | | |

MPV = 132
F-pseudosigma = 7
N = 110
Hu = 134
Hi = 129

| Lab | Rating | Z-value | 0 | 7 | 20 | 21 | 22 | 40 |
|-----|--------|---------|-----|-----|-----|-----|-----|-----|
| 1 | 4 | 0.49 | | 135 | | | | |
| 3 | 4 | -0.42 | | | | | 129 | |
| 9 | 4 | 0.33 | | 134 | | | | |
| 10 | 4 | 0.33 | | | | | 134 | |
| 11 | 4 | -0.27 | | | | | 130 | |
| 12 | 4 | 0.18 | | | | | 133 | |
| 13 | 4 | -0.42 | | 129 | | | | |
| 16 | 4 | 0.33 | | | | 134 | | |
| 18 | 2 | 1.24 | | | | | 140 | |
| 19 | 4 | -0.27 | | | 130 | | | |
| 24 | 4 | -0.17 | | | | | 131 | |
| 25 | 4 | -0.42 | | 129 | | | | |
| 26 | 4 | 0.18 | | 133 | | | | |
| 30 | 3 | -0.59 | | 128 | | | | |
| 32 | 4 | 0.33 | | 134 | | | | |
| 33 | 1 | -1.64 | | 121 | | | | |
| 36 | 4 | 0.03 | | | 132 | | | |
| 39 | 1 | -1.79 | | | 120 | | | |
| 40 | 4 | -0.42 | | | | | 129 | |
| 42 | 0 | -15.73 | | 28 | | | | |
| 43 | 4 | 0.33 | | | | | | 134 |
| 46 | 4 | 0.18 | | | | | 133 | |
| 48 | 1 | -1.34 | | | | | 123 | |
| 50 | 4 | 0.18 | | | | | 133 | |
| 51 | 3 | 0.80 | | 137 | | | | |
| 57 | 4 | -0.27 | | | 130 | | | |
| 61 | 2 | -1.18 | 124 | | | | | |
| 64 | 4 | 0.18 | | 133 | | | | |
| 68 | 4 | 0.33 | | | | | 134 | |
| 69 | 4 | -0.42 | | | | | 129 | |
| 70 | 4 | -0.42 | | 129 | | | | |
| 80 | 4 | 0.03 | | | 132 | | | |
| 81 | 4 | -0.27 | | | | 130 | | |
| 84 | 0 | 8.98 | | 191 | | | | |
| 85 | 4 | 0.33 | | 134 | | | | |
| 86 | 0 | 2.46 | | | | | | 148 |
| 87 | 0 | -3.46 | | | | | 109 | |
| 89 | 4 | 0.33 | | 134 | | | | |
| 92 | 4 | 0.33 | | | 134 | | | |
| 93 | 0 | -15.59 | | 29 | | | | |
| 96 | 4 | 0.08 | | | | | 132 | |
| 97 | 4 | -0.42 | | | | | 129 | |
| 102 | 1 | -1.94 | | | | | 119 | |
| 105 | 4 | -0.12 | | 131 | | | | |
| 107 | 4 | -0.42 | | | | 129 | | |
| 109 | 4 | -0.21 | | | | 130 | | |
| 111 | 0 | 2.31 | | 147 | | | | |
| 113 | 4 | 0.33 | | 134 | | | | |
| 114 | 4 | -0.27 | | | | | | 130 |
| 119 | 4 | -0.42 | | 129 | | | | |
| 127 | 4 | 0.33 | | 134 | | | | |
| 129 | 4 | -0.12 | | 131 | | | | |
| 131 | 2 | -1.03 | | 125 | | | | |
| 134 | 4 | 0.18 | | 133 | | | | |
| 138 | 4 | 0.03 | | 132 | | | | |

| Lab | Rating | Z-value | 0 | 7 | 20 | 21 | 22 | 40 |
|-----|--------|---------|-----|-----|-----|-----|-----|-----|
| 140 | 4 | -0.06 | | | | | | 131 |
| 141 | 3 | -0.73 | | | | | | 127 |
| 142 | 3 | 0.88 | | 138 | | | | |
| 143 | 3 | -0.88 | 126 | | | | | |
| 145 | 3 | 0.73 | | 137 | | | | |
| 146 | 2 | 1.09 | | | | | | 139 |
| 147 | 4 | -0.12 | | 131 | | | | |
| 149 | 3 | 0.64 | | 136 | | | | |
| 151 | 4 | 0.03 | | 132 | | | | |
| 154 | 2 | -1.34 | | | | | | 123 |
| 158 | 4 | -0.47 | | | | | | 129 |
| 180 | 4 | 0.18 | | 133 | | | | |
| 183 | 4 | -0.20 | | | | | | 131 |
| 185 | 4 | -0.03 | | 132 | | | | |
| 190 | 3 | -0.73 | | 127 | | | | |
| 191 | 4 | 0.03 | | 132 | | | | |
| 198 | 3 | -0.74 | | 127 | | | | |
| 203 | 4 | 0.03 | | | | | 132 | |
| 212 | 2 | 1.24 | | 140 | | | | |
| 213 | 1 | -1.64 | | | 121 | | | |
| 215 | 1 | 1.85 | | | 144 | | | |
| 217 | 4 | -0.12 | | 131 | | | | |
| 219 | 0 | 2.76 | | 150 | | | | |
| 220 | 3 | 0.56 | | | | | | 136 |
| 221 | 4 | -0.39 | | | 129 | | | |
| 224 | 4 | -0.32 | | 130 | | | | |
| 234 | 4 | 0.29 | | 134 | | | | |
| 236 | 4 | -0.42 | | 129 | | | | |
| 241 | 4 | 0.03 | | 132 | | | | |
| 247 | 1 | -1.94 | | 119 | | | | |
| 252 | 4 | 0.49 | | | | | | 135 |
| 255 | 4 | 0.18 | | | | | | 133 |
| 256 | 4 | -0.34 | | | 130 | | | |
| 257 | 3 | 0.64 | | | | | 136 | |
| 258 | 2 | 1.14 | | | 139 | | | |
| 259 | 4 | 0.18 | | | | | 133 | |
| 261 | 4 | -0.32 | | | 130 | | | |
| 262 | 4 | -0.15 | | | | | 131 | |
| 263 | 4 | -0.42 | | | | | | 129 |
| 264 | 4 | 0.18 | | | | | 133 | |
| 265 | 2 | 0.94 | | 138 | | | | |
| 266 | 4 | 0.33 | | | | | 134 | |
| 267 | 4 | -0.12 | | | | | 131 | |
| 268 | 4 | 0.12 | | 133 | | | | |
| 269 | 4 | 0.49 | | | | | | 135 |
| 272 | 3 | -0.63 | | | | 128 | | |
| 273 | 4 | -0.04 | | 132 | | | | |
| 274 | 3 | -0.74 | | | | 127 | | |
| 275 | 1 | 1.55 | | | | 142 | | |
| 276 | 4 | -0.12 | | | | 131 | | |
| 282 | 4 | 0.18 | | 133 | | | | |
| 284 | 4 | -0.12 | | | | | | 131 |
| 287 | 1 | 0.94 | | | | 138 | | |
| 290 | 1 | -2.00 | | 119 | | | | |
| 292 | 3 | 0.64 | | 136 | | | | |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)--Continued
 DSRD (Dissolved solids) mg/L



□ 50

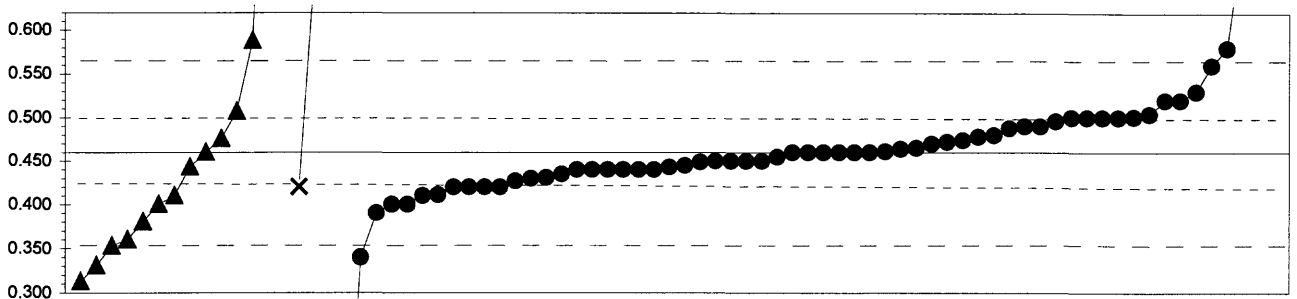
| 50. Gravimetric | | | |
|-----------------|-----|--|--|
| N = | 70 | | |
| Minimum = | 420 | | |
| Maximum = | 820 | | |
| Median = | 746 | | |
| F-pseudosigma = | 13 | | |

MPV = 746
 F-pseudosigma = 37
 N = 70
 Hu = 754
 HI = 736

| Lab | Rating | Z-value | 50 |
|-----|--------|---------|-----|
| 1 | 4 | 0.07 | 748 |
| 3 | 0 | -8.73 | 420 |
| 9 | 4 | -0.04 | 744 |
| 10 | 4 | 0.36 | 759 |
| 11 | 2 | -1.22 | 700 |
| 12 | 4 | 0.25 | 755 |
| 13 | 3 | -0.60 | 723 |
| 16 | 4 | -0.07 | 743 |
| 18 | 2 | -1.06 | 706 |
| 19 | 4 | 0.04 | 747 |
| 23 | 4 | -0.04 | 744 |
| 25 | 4 | -0.25 | 736 |
| 26 | 4 | -0.04 | 744 |
| 32 | 4 | 0.17 | 752 |
| 36 | 3 | 0.63 | 769 |
| 38 | 4 | 0.23 | 754 |
| 39 | 4 | -0.01 | 745 |
| 40 | 4 | -0.04 | 744 |
| 43 | 4 | 0.01 | 746 |
| 46 | 4 | 0.39 | 760 |
| 48 | 3 | 0.66 | 770 |
| 50 | 4 | -0.04 | 744 |
| 51 | 4 | -0.20 | 738 |
| 57 | 3 | 0.66 | 770 |
| 61 | 0 | -7.20 | 477 |
| 69 | 4 | -0.04 | 744 |
| 70 | 4 | 0.12 | 750 |
| 76 | 4 | 0.01 | 746 |
| 80 | 4 | 0.01 | 746 |
| 81 | 4 | -0.01 | 745 |
| 85 | 4 | -0.09 | 742 |
| 87 | 2 | -1.11 | 704 |
| 89 | 4 | -0.44 | 729 |
| 90 | 3 | -0.63 | 722 |
| 92 | 4 | 0.50 | 764 |
| 96 | 4 | 0.07 | 748 |
| 97 | 4 | 0.47 | 763 |
| 105 | 2 | 0.82 | 776 |
| 109 | 4 | 0.15 | 751 |
| 113 | 4 | -0.31 | 734 |
| 114 | 4 | 0.47 | 763 |
| 118 | 4 | 0.12 | 750 |
| 119 | 4 | -0.44 | 729 |
| 127 | 4 | 0.04 | 747 |
| 129 | 3 | -0.71 | 719 |
| 134 | 4 | 0.36 | 759 |
| 138 | 4 | -0.25 | 736 |
| 140 | 3 | -0.63 | 722 |
| 141 | 4 | -0.31 | 734 |
| 142 | 3 | 0.74 | 773 |

| Lab | Rating | Z-value | 50 |
|-----|--------|---------|-----|
| 143 | 4 | -0.01 | 745 |
| 146 | 4 | 0.04 | 747 |
| 149 | 4 | -0.36 | 732 |
| 151 | 4 | 0.28 | 756 |
| 158 | 4 | 0.01 | 746 |
| 190 | 4 | -0.09 | 742 |
| 212 | 4 | -0.12 | 741 |
| 215 | 4 | -0.07 | 743 |
| 217 | 4 | 0.50 | 764 |
| 224 | 4 | -0.50 | 727 |
| 234 | 4 | -0.04 | 744 |
| 236 | 4 | 0.20 | 753 |
| 247 | 4 | -0.44 | 729 |
| 255 | 4 | 0.20 | 753 |
| 257 | 4 | 0.23 | 754 |
| 259 | 4 | 0.09 | 749 |
| 266 | 4 | 0.17 | 752 |
| 269 | 2 | 1.06 | 785 |
| 273 | 1 | 2.00 | 820 |
| 282 | 4 | -0.42 | 730 |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)--Continued
F (Fluoride) mg/L



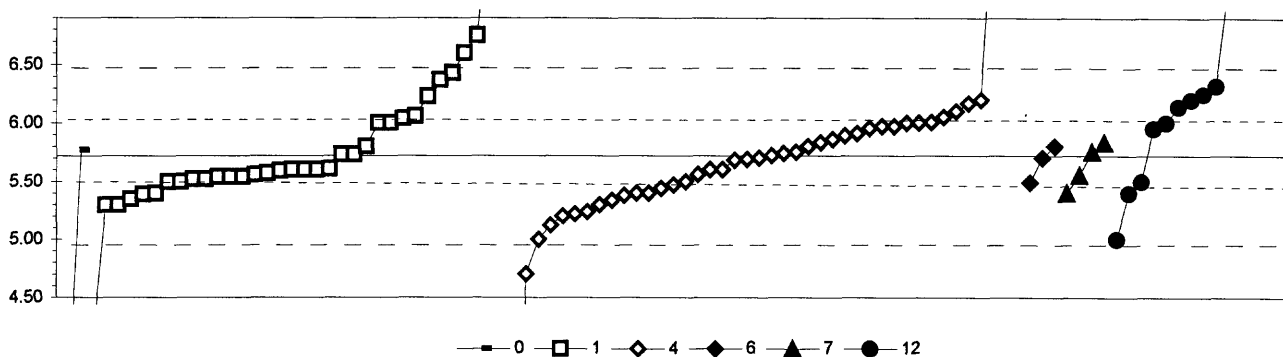
| | | | |
|-----------------------------|-------|-------|-------|
| 7. Ion chromatography | | | |
| 22. Colorimetric | | | |
| 40. Ion selective electrode | | | |
| N = | 14 | 3 | 61 |
| Minimum = | 0.313 | 0.420 | 0.068 |
| Maximum = | 79.92 | 0.770 | 4.400 |
| Median = | 0.427 | | 0.460 |
| F-pseudosigma = | 0.109 | | 0.037 |

MPV = 0.460
F-pseudosigma = 0.054
N = 78
Hu = 0.500
Hi = 0.427

| Lab | Rating | Z-value | 7 | 22 | 40 |
|-----|--------|---------|-------|-------|-------|
| 1 | 3 | 0.74 | | | 0.500 |
| 3 | 4 | 0.18 | | | 0.470 |
| 9 | 4 | -0.37 | | | 0.440 |
| 10 | 4 | 0.00 | | | 0.460 |
| 11 | 4 | -0.37 | | | 0.440 |
| 13 | 0 | -2.38 | 0.331 | | |
| 16 | 4 | -0.37 | | | 0.440 |
| 18 | 3 | 0.55 | | | 0.490 |
| 24 | 4 | 0.00 | | | 0.460 |
| 25 | 3 | -0.74 | | | 0.420 |
| 32 | 2 | 1.29 | | | 0.530 |
| 36 | 3 | -0.61 | | | 0.427 |
| 39 | 0 | 2.22 | | | 0.580 |
| 40 | 3 | -0.54 | | | 0.431 |
| 45 | 4 | -0.20 | | | 0.449 |
| 46 | 4 | 0.00 | | | 0.460 |
| 48 | 0 | -7.24 | | | 0.068 |
| 50 | 4 | 0.00 | | | 0.460 |
| 57 | 3 | -0.74 | | | 0.420 |
| 61 | 3 | -0.74 | | | 0.420 |
| 69 | 4 | -0.18 | | | 0.450 |
| 70 | 4 | -0.18 | | | 0.450 |
| 76 | 3 | 0.81 | | | 0.504 |
| 84 | 3 | -0.92 | 0.410 | | |
| 85 | 4 | -0.37 | | | 0.440 |
| 89 | 3 | 0.55 | | | 0.490 |
| 93 | 0 | 4.62 | | | 0.710 |
| 96 | 4 | 0.33 | | | 0.478 |
| 97 | 3 | -0.91 | | | 0.411 |
| 105 | 2 | -1.48 | 0.380 | | |
| 107 | 4 | -0.31 | | | 0.443 |
| 109 | 4 | -0.18 | | | 0.450 |
| 113 | 3 | 0.76 | | | 0.501 |
| 114 | 4 | 0.02 | | | 0.461 |
| 119 | 3 | -0.55 | | | 0.430 |
| 127 | 3 | 0.87 | 0.507 | | |
| 129 | 0 | -2.72 | 0.313 | | |
| 131 | 4 | -0.37 | | | 0.440 |
| 134 | 4 | -0.37 | | | 0.440 |
| 138 | 4 | -0.46 | | | 0.435 |
| 140 | 4 | 0.22 | | | 0.472 |
| 141 | 4 | 0.09 | | | 0.465 |
| 142 | 1 | 1.85 | | | 0.560 |
| 145 | 2 | -1.11 | 0.400 | | |
| 146 | 4 | 0.07 | | | 0.464 |
| 149 | 4 | 0.00 | 0.460 | | |
| 151 | 4 | -0.09 | | | 0.455 |
| 154 | 3 | -0.74 | | 0.420 | |
| 180 | 0 | -6.65 | < 0.1 | | |
| 183 | 0 | 72.81 | | | 4.400 |

| Lab | Rating | Z-value | 7 | 22 | 40 |
|-----|--------|---------|--------|-------|-------|
| 190 | 3 | 0.52 | | | 0.488 |
| 196 | 4 | -0.31 | 0.443 | | |
| 212 | 2 | -1.29 | | | 0.390 |
| 215 | 3 | -0.74 | | | 0.420 |
| 217 | 2 | -1.11 | | | 0.400 |
| 224 | 0 | 2.37 | 0.588 | | |
| 234 | 1 | -1.98 | 0.353 | | |
| 236 | 0 | 9.42 | 0.970 | | |
| 241 | 3 | 0.67 | | | 0.496 |
| 247 | 4 | 0.30 | 0.476 | | |
| 252 | 0 | 3.88 | | 0.670 | |
| 255 | 2 | 1.11 | | | 0.520 |
| 256 | 2 | 1.11 | | | 0.520 |
| 257 | 4 | -0.18 | | | 0.450 |
| 258 | 0 | 6.65 | | | 0.820 |
| 259 | 4 | 0.37 | | | 0.480 |
| 262 | 4 | -0.28 | | | 0.445 |
| 263 | 4 | 0.00 | | | 0.460 |
| 265 | 3 | -0.92 | | | 0.410 |
| 266 | 3 | 0.74 | | | 0.500 |
| 269 | 3 | 0.74 | | | 0.500 |
| 272 | 4 | 0.26 | | | 0.474 |
| 273 | 0 | 1468 | 79.920 | | |
| 274 | 0 | 5.73 | | 0.770 | |
| 275 | 0 | -2.22 | | | 0.340 |
| 282 | 2 | -1.11 | | | 0.400 |
| 284 | 4 | 0.00 | | | 0.460 |
| 287 | 3 | 0.74 | | | 0.500 |
| 292 | 1 | -1.85 | 0.360 | | |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)—Continued
K (Potassium) mg/L



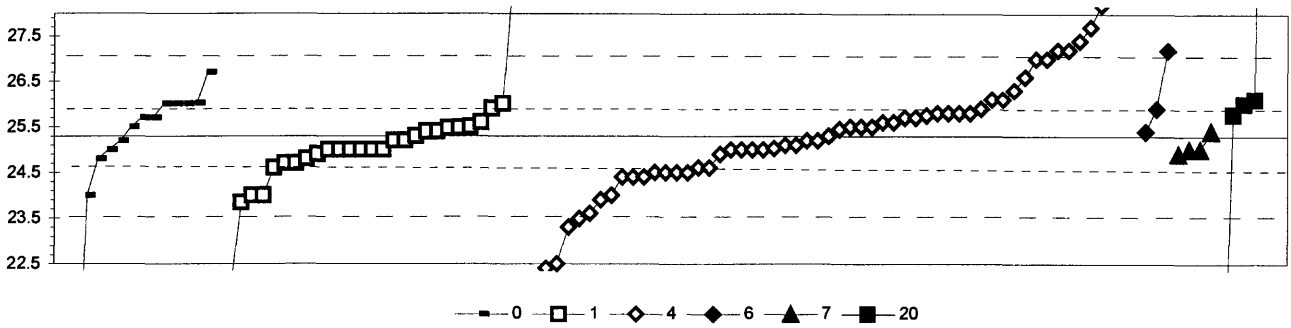
| | | | | | | | |
|-------------------|-----------------------|------|-------|-------|------|------|------|
| 0. Other | 6. ICP/MS | | | | | | |
| 1. AA: direct air | 7. Ion chromatography | | | | | | |
| 4. ICP | 12. Flame emission | | | | | | |
| | N = | 2 | 34 | 42 | 3 | 4 | 14 |
| | Minimum = | 3.61 | 4.16 | 0.46 | 5.49 | 5.40 | 5.00 |
| | Maximum = | 5.77 | 10.40 | 12.90 | 5.80 | 5.83 | 8.99 |
| | Median = | | 5.60 | 5.71 | | | 6.23 |
| | F-pseudosigma = | | 0.39 | 0.42 | | | 0.94 |

MPV = 5.72
F-pseudosigma = 0.39
N = 99
Hu = 6.02
HI = 5.50

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|------|------|-------|------|------|----|
| 1 | 4 | -0.31 | | 5.60 | | | | |
| 3 | 3 | 0.84 | | | 6.05 | | | |
| 10 | 4 | -0.33 | | 5.59 | | | | |
| 11 | 2 | 1.15 | | | 6.17 | | | |
| 12 | 3 | 0.72 | | | 6.00 | | | |
| 13 | 4 | -0.08 | | | 5.69 | | | |
| 16 | 2 | -1.07 | | 5.30 | | | | |
| 18 | 4 | -0.31 | | | 5.60 | | | |
| 19 | 3 | -0.82 | | | 5.40 | | | |
| 23 | 4 | -0.46 | | 5.54 | | | | |
| 24 | 2 | -1.28 | | | 5.22 | | | |
| 25 | 4 | 0.05 | | | 5.74 | | | |
| 26 | 4 | 0.08 | | | | 5.75 | | |
| 32 | 4 | -0.05 | | | | 5.70 | | |
| 33 | 4 | 0.13 | 5.77 | | | | | |
| 36 | 4 | -0.46 | | 5.54 | | | | |
| 38 | 3 | 0.87 | | 6.06 | | | | |
| 40 | 3 | -0.97 | | | 5.34 | | | |
| 42 | 3 | 0.60 | | | 5.95 | | | |
| 43 | 3 | 0.72 | | | 6.00 | | | |
| 45 | 0 | -5.40 | 3.61 | | | | | |
| 46 | 4 | 0.00 | | | 5.72 | | | |
| 48 | 2 | -1.07 | | | 5.30 | | | |
| 50 | 3 | -0.82 | | | | 5.40 | | |
| 51 | 1 | 1.53 | | | | | 6.32 | |
| 57 | 0 | 5.32 | | | | | 7.80 | |
| 61 | 0 | 18.36 | | | 12.90 | | | |
| 64 | 1 | 1.82 | | 6.43 | | | | |
| 68 | 4 | 0.20 | | | 5.80 | | | |
| 69 | 2 | 1.07 | | | | | 6.14 | |
| 70 | 4 | -0.10 | | | 5.68 | | | |
| 80 | 3 | 0.72 | | 6.00 | | | | |
| 81 | 3 | 0.97 | | | 6.10 | | | |
| 83 | 4 | 0.03 | | 5.73 | | | | |
| 85 | 3 | 0.82 | | 6.04 | | | | |
| 86 | 4 | 0.08 | | | 5.75 | | | |
| 87 | 3 | -0.84 | | 5.39 | | | | |
| 89 | 3 | -0.95 | | 5.35 | | | | |
| 92 | 2 | -1.07 | | 5.30 | | | | |
| 93 | 3 | -0.56 | | | | | 5.50 | |
| 97 | 4 | -0.38 | | 5.57 | | | | |
| 102 | 1 | -1.84 | | | 5.00 | | | |
| 105 | 3 | -0.72 | | | 5.44 | | | |
| 107 | 4 | -0.41 | | 5.56 | | | | |
| 108 | 3 | -0.82 | | | | | 5.40 | |
| 109 | 1 | 1.66 | | 6.37 | | | | |
| 111 | 3 | -0.56 | | 5.50 | | | | |
| 113 | 0 | 5.78 | | | 7.98 | | | |
| 119 | 2 | -1.33 | | | 5.20 | | | |
| 127 | 3 | -0.87 | | | 5.38 | | | |

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|---|-------|---|---|------|------|
| 129 | 0 | 5.58 | | 7.90 | | | | |
| 131 | 2 | 1.23 | | | | | 6.20 | |
| 134 | 4 | -0.28 | | 5.61 | | | | |
| 138 | 3 | -0.82 | | | | | 5.40 | |
| 140 | 3 | -0.51 | | 5.52 | | | | |
| 141 | 3 | 0.64 | | | | | 5.97 | |
| 142 | 4 | -0.41 | | | | | 5.56 | |
| 145 | 4 | 0.43 | | | | | 5.89 | |
| 146 | 0 | 7.72 | | | | | 8.74 | |
| 149 | 3 | -0.82 | | 5.40 | | | | |
| 151 | 3 | -0.51 | | 5.52 | | | | |
| 154 | 3 | 0.64 | | | | | 5.97 | |
| 180 | 3 | -0.64 | | | | | 5.47 | |
| 185 | 4 | -0.46 | | 5.54 | | | | |
| 190 | 4 | 0.28 | | | | | | 5.83 |
| 191 | 4 | 0.20 | | | | | 5.80 | |
| 196 | 4 | 0.03 | | 5.73 | | | | |
| 212 | 4 | 0.49 | | | | | 5.91 | |
| 215 | 0 | -2.61 | | | | | 4.70 | |
| 217 | 1 | -1.53 | | | | | 5.12 | |
| 218 | 3 | 0.73 | | | | | 6.01 | |
| 219 | 4 | -0.05 | | | | | 5.70 | |
| 220 | 2 | 1.30 | | 6.23 | | | | |
| 221 | 4 | -0.31 | | 5.60 | | | | |
| 224 | 0 | -13.45 | | | | | 0.46 | |
| 234 | 4 | 0.36 | | | | | 5.86 | |
| 236 | 2 | -1.23 | | | | | 5.24 | |
| 241 | 3 | -0.56 | | 5.50 | | | | |
| 247 | 4 | -0.43 | | | | | | 5.55 |
| 255 | 4 | 0.29 | | | | | 5.83 | |
| 256 | 0 | 8.36 | | | | | | 8.99 |
| 257 | 0 | 3.78 | | | | | | 7.20 |
| 258 | 2 | 1.36 | | | | | | 6.25 |
| 259 | 4 | -0.31 | | 5.60 | | | | |
| 261 | 0 | -3.99 | | 4.16 | | | | |
| 262 | 3 | 0.59 | | | | | | 5.95 |
| 264 | 3 | 0.72 | | 6.00 | | | | |
| 265 | 3 | -0.56 | | | | | 5.50 | |
| 266 | 2 | 1.23 | | | | | | 6.20 |
| 268 | 0 | 2.25 | | 6.60 | | | | |
| 270 | 0 | 3.84 | | | | | | 7.22 |
| 272 | 1 | -1.84 | | | | | | 5.00 |
| 273 | 4 | -0.31 | | | | | 5.60 | |
| 274 | 0 | 3.86 | | | | | | 7.23 |
| 275 | 3 | 0.72 | | | | | | 6.00 |
| 282 | 3 | -0.59 | | | | | 5.49 | |
| 284 | 0 | 2.63 | | 6.75 | | | | |
| 287 | 0 | 11.97 | | 10.40 | | | | |
| 292 | 4 | 0.20 | | 5.80 | | | | |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)-Continued
Mg (Magnesium) mg/L



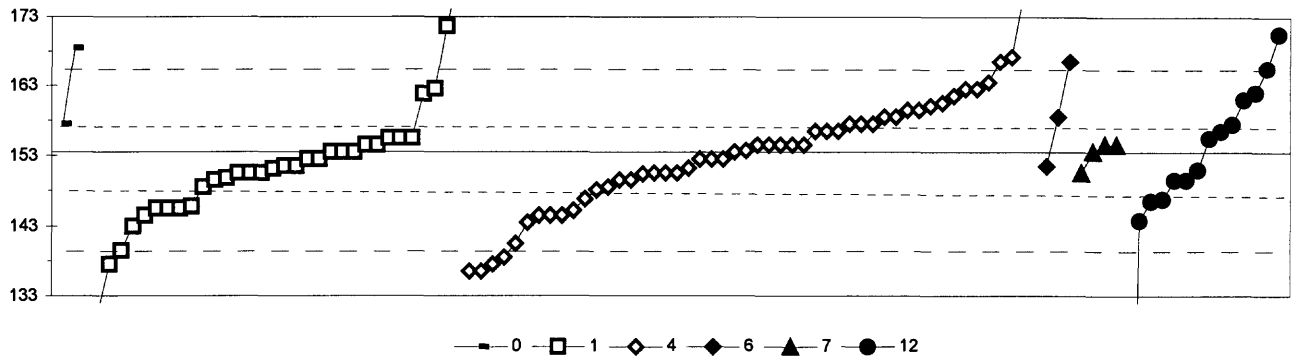
| | |
|-------------------|---|
| 0. Other | 6. ICP/MS |
| 1. AA: direct air | 7. Ion chromatography |
| 4. ICP | 20. Titrate: colorimetric |
| | N = 14 29 56 3 4 5 |
| | Minimum = 7.8 20.6 20.9 25.4 24.9 17.5 |
| | Maximum = 26.7 30.0 30.0 27.2 25.4 46.9 |
| | Median = 25.6 25.0 25.4 |
| | F-pseudostigma = 0.9 0.6 1.1 |

MPV = 25.3
F-pseudostigma = 1.3
N = 111
Hu = 25.9
HI = 24.7

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 20 |
|-----|--------|---------|------|------|------|------|---|----|
| 1 | 3 | -0.71 | | | 24.4 | | | |
| 3 | 3 | -0.55 | | | 24.6 | | | |
| 10 | 4 | 0.16 | 25.5 | | | | | |
| 11 | 2 | 1.34 | | | 27.0 | | | |
| 12 | 0 | 2.29 | | | 28.2 | | | |
| 13 | 4 | -0.16 | | | 25.1 | | | |
| 16 | 4 | 0.16 | | | 25.5 | | | |
| 18 | 3 | -0.63 | | | 24.5 | | | |
| 19 | 4 | -0.16 | | | 25.1 | | | |
| 24 | 4 | -0.24 | | | 25.0 | | | |
| 25 | 3 | 0.63 | | | 26.1 | | | |
| 26 | 4 | 0.40 | | | 25.8 | | | |
| 30 | 4 | 0.32 | 25.7 | | | | | |
| 32 | 2 | 1.50 | | | | 27.2 | | |
| 33 | 4 | -0.40 | 24.8 | | | | | |
| 36 | 4 | 0.47 | | 25.9 | | | | |
| 38 | 4 | 0.00 | | 25.3 | | | | |
| 39 | 3 | -0.71 | | | 24.4 | | | |
| 40 | 0 | -3.48 | | | 20.9 | | | |
| 42 | 0 | 3.51 | | | 29.7 | | | |
| 43 | 3 | 0.63 | | | 26.1 | | | |
| 45 | 4 | -0.08 | 25.2 | | | | | |
| 46 | 3 | -0.71 | | | 24.4 | | | |
| 48 | 2 | -1.11 | | | 23.9 | | | |
| 50 | 4 | -0.24 | | | | 25.0 | | |
| 51 | 0 | -2.77 | | 21.8 | | | | |
| 57 | 4 | -0.24 | | | | 25.0 | | |
| 59 | 0 | 3.72 | | | 30.0 | | | |
| 61 | 0 | 3.08 | | | 29.2 | | | |
| 68 | 4 | -0.24 | | | 25.0 | | | |
| 69 | 4 | -0.08 | | 25.2 | | | | |
| 70 | 4 | 0.40 | | | 25.8 | | | |
| 76 | 4 | 0.13 | | 25.5 | | | | |
| 80 | 4 | -0.24 | | 25.0 | | | | |
| 81 | 3 | 0.79 | | | 26.3 | | | |
| 83 | 0 | -2.29 | | | 22.4 | | | |
| 84 | 4 | 0.24 | | 25.6 | | | | |
| 85 | 4 | 0.08 | | 25.4 | | | | |
| 86 | 4 | -0.08 | | | 25.2 | | | |
| 87 | 3 | -0.55 | | 24.6 | | | | |
| 89 | 4 | -0.24 | | 25.0 | | | | |
| 92 | 2 | -1.03 | | 24.0 | | | | |
| 93 | 4 | -0.21 | | | 25.0 | | | |
| 97 | 4 | -0.24 | | 25.0 | | | | |
| 102 | 2 | 1.34 | | | 27.0 | | | |
| 105 | 1 | -1.58 | | | 23.3 | | | |
| 107 | 0 | -3.72 | | 20.6 | | | | |
| 109 | 4 | -0.32 | | 24.9 | | | | |
| 111 | 2 | 1.11 | 26.7 | | | | | |
| 113 | 2 | 1.50 | | | 27.2 | | | |
| 119 | 4 | -0.24 | | | 25.0 | | | |
| 121 | 4 | 0.32 | | | 25.7 | | | |
| 127 | 4 | -0.08 | | | 25.2 | | | |
| 129 | 0 | 2.92 | | 29.0 | | | | |
| 131 | 2 | -1.34 | | | 23.6 | | | |
| 133 | 2 | 1.03 | | | 26.6 | | | |
| 134 | 2 | -1.03 | | | 24.0 | | | |
| 138 | 4 | -0.32 | | | 24.9 | | | |
| 140 | 4 | -0.24 | | 25.0 | | | | |
| 141 | 4 | 0.24 | | | 25.6 | | | |

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 20 |
|-----|--------|---------|------|------|------|------|------|------|
| 142 | 4 | 0.32 | | | 25.7 | | | |
| 145 | 2 | 1.50 | | | 27.2 | | | |
| 146 | 4 | 0.40 | | | 25.8 | | | |
| 147 | 4 | 0.00 | | | 25.3 | | | |
| 149 | 2 | -1.03 | | 24.0 | | | | |
| 151 | 4 | -0.24 | | 25.0 | | | | |
| 154 | 3 | -0.63 | | | 24.5 | | | |
| 180 | 3 | -0.55 | | | 24.6 | | | |
| 183 | 0 | -5.85 | 17.9 | | | | | |
| 185 | 4 | -0.40 | | 24.8 | | | | |
| 190 | 4 | -0.32 | | | | | 24.9 | |
| 191 | 4 | 0.08 | | | | 25.4 | | |
| 196 | 2 | -1.15 | | 23.8 | | | | |
| 209 | 1 | 1.66 | | | 27.4 | | | |
| 212 | 4 | 0.47 | | | 25.9 | | | |
| 215 | 3 | -0.63 | | | 24.5 | | | |
| 217 | 4 | 0.16 | | | 25.5 | | | |
| 218 | 1 | 1.90 | | | 27.7 | | | |
| 219 | 4 | -0.24 | | | 25.0 | | | |
| 220 | 4 | -0.47 | | 24.7 | | | | |
| 221 | 4 | -0.08 | | 25.2 | | | | |
| 224 | 2 | -1.43 | | | 23.5 | | | |
| 234 | 4 | 0.24 | | | 25.6 | | | |
| 235 | 3 | -0.63 | | | 24.5 | | | |
| 236 | 4 | 0.36 | | | 25.8 | | | |
| 241 | 4 | -0.24 | | 25.0 | | | | |
| 247 | 4 | 0.08 | | | | 25.4 | | |
| 252 | 0 | 3.72 | | 30.0 | | | | |
| 255 | 4 | 0.12 | | | 25.5 | | | |
| 256 | 4 | 0.37 | | | | | | 25.8 |
| 257 | 3 | 0.55 | | | | | | 26.0 |
| 258 | 3 | 0.57 | 26.0 | | | | | |
| 259 | 4 | 0.32 | 25.7 | | | | | |
| 261 | 3 | 0.63 | | | | | | 26.1 |
| 262 | 3 | 0.55 | 26.0 | | | | | |
| 263 | 2 | -1.03 | 24.0 | | | | | |
| 264 | 3 | 0.55 | | 26.0 | | | | |
| 265 | 4 | 0.16 | | | 25.5 | | | |
| 266 | 4 | -0.24 | 25.0 | | | | | |
| 267 | 3 | 0.55 | 26.0 | | | | | |
| 268 | 4 | 0.08 | | 25.4 | | | | |
| 269 | 3 | 0.55 | 26.0 | | | | | |
| 272 | 0 | 17.04 | | | | | | 46.9 |
| 273 | 0 | -2.21 | | | 22.5 | | | |
| 274 | 0 | -13.82 | 7.8 | | | | | |
| 275 | 0 | -6.17 | | | | | | 17.5 |
| 276 | 4 | 0.16 | 25.5 | | | | | |
| 282 | 4 | 0.47 | | | | 25.9 | | |
| 284 | 4 | -0.47 | | 24.7 | | | | |
| 287 | 4 | 0.14 | | 25.5 | | | | |
| 292 | 4 | 0.40 | | | 25.8 | | | |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)--Continued
Na (Sodium) mg/L



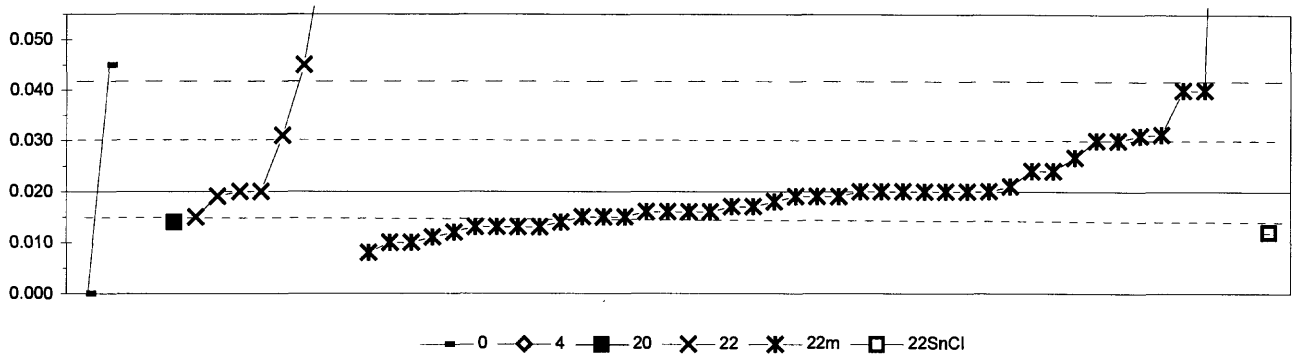
| | | | | | | | |
|-------------------|-----------------------|-----|-----|-----|-----|-----|-----|
| 0. Other | 6. ICP/MS | | | | | | |
| 1. AA: direct air | 7. Ion chromatography | | | | | | |
| 4. ICP | 12. Flame emission | | | | | | |
| | N = | 2 | 33 | 50 | 3 | 4 | 14 |
| | Minimum = | 157 | 0 | 136 | 151 | 150 | 62 |
| | Maximum = | 157 | 178 | 183 | 166 | 154 | 170 |
| | Median = | | 151 | 154 | | | 153 |
| | F-pseudosigma = | | 7 | 7 | | | 11 |

MPV = 153
F-pseudosigma = 7
N = 106
Hu = 157
HI = 148

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|-----|-----|-----|-----|-----|----|
| 1 | 4 | -0.39 | | | 150 | | | |
| 3 | 3 | 0.82 | | | 158 | | | |
| 10 | 4 | 0.07 | | 153 | | | | |
| 11 | 2 | -1.27 | | | 144 | | | |
| 12 | 3 | -0.52 | | | 149 | | | |
| 13 | 2 | -1.27 | | | 144 | | | |
| 16 | 4 | 0.22 | | | 154 | | | |
| 18 | 4 | -0.07 | | | 152 | | | |
| 19 | 4 | 0.22 | | | 154 | | | |
| 23 | 3 | -0.52 | | 149 | | | | |
| 24 | 4 | 0.07 | | | 153 | | | |
| 25 | 2 | 1.27 | | | 161 | | | |
| 26 | 3 | 0.67 | | | 157 | | | |
| 32 | 1 | 2.02 | | | | 166 | | |
| 33 | 3 | 0.67 | 157 | | | | | |
| 36 | 2 | 1.42 | | 162 | | | | |
| 38 | 2 | -1.50 | | 143 | | | | |
| 39 | 3 | -0.52 | | | 149 | | | |
| 40 | 2 | -1.27 | | | 144 | | | |
| 42 | 0 | 2.13 | | | 167 | | | |
| 43 | 3 | 0.82 | | | 158 | | | |
| 45 | 0 | 2.32 | 168 | | | | | |
| 46 | 3 | -0.67 | | | 148 | | | |
| 48 | 1 | -1.87 | | | 140 | | | |
| 50 | 4 | 0.22 | | | | 154 | | |
| 51 | 4 | -0.30 | | | | | 151 | |
| 57 | 4 | -0.37 | | | | 150 | | |
| 59 | 0 | 4.57 | | | 183 | | | |
| 61 | 0 | -2.47 | | | 136 | | | |
| 64 | 3 | -0.67 | | 148 | | | | |
| 68 | 4 | -0.37 | | | 150 | | | |
| 69 | 3 | -0.97 | | | | | 146 | |
| 70 | 3 | 0.52 | | | 156 | | | |
| 76 | 4 | -0.48 | | 149 | | | | |
| 80 | 4 | -0.37 | | 150 | | | | |
| 81 | 1 | 1.57 | | | 163 | | | |
| 83 | 0 | -2.32 | | | 137 | | | |
| 84 | 4 | 0.37 | | | | | 155 | |
| 85 | 4 | 0.37 | | 155 | | | | |
| 86 | 3 | 0.97 | | | 159 | | | |
| 87 | 2 | -1.12 | | 145 | | | | |
| 89 | 1 | -2.02 | | 139 | | | | |
| 92 | 0 | -3.37 | | 130 | | | | |
| 93 | 0 | -13.56 | | | | | 62 | |
| 97 | 4 | 0.22 | | 154 | | | | |
| 102 | 0 | -2.47 | | | 136 | | | |
| 105 | 4 | -0.27 | | | 151 | | | |
| 109 | 4 | -0.28 | | 151 | | | | |
| 111 | 2 | -1.12 | | 145 | | | | |
| 113 | 4 | 0.22 | | | 154 | | | |
| 118 | 2 | -1.12 | | 145 | | | | |
| 119 | 4 | 0.22 | | | 154 | | | |
| 121 | 3 | 0.52 | | | 156 | | | |
| 126 | 4 | 0.37 | | 155 | | | | |
| 127 | 0 | -2.17 | | | 138 | | | |

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|---|-----|-----|-----|---|-----|
| 129 | 0 | -2.32 | | 137 | | | | |
| 131 | 2 | -1.42 | | | 143 | | | |
| 134 | 4 | -0.07 | | 152 | | | | |
| 138 | 4 | 0.22 | | | 154 | | | |
| 140 | 4 | 0.22 | | 154 | | | | |
| 141 | 3 | 0.97 | | | | 159 | | |
| 142 | 2 | 1.42 | | | | 162 | | |
| 145 | 2 | 1.06 | | | | 160 | | |
| 146 | 3 | 0.67 | | | | 157 | | |
| 147 | 4 | -0.37 | | | | 150 | | |
| 149 | 4 | -0.22 | | 151 | | | | |
| 151 | 4 | -0.07 | | 152 | | | | |
| 154 | 4 | -0.07 | | | | 152 | | |
| 180 | 4 | -0.37 | | | | 150 | | |
| 185 | 2 | 1.35 | | | | | | 162 |
| 190 | 4 | 0.22 | | | | | | 154 |
| 191 | 4 | -0.22 | | | | 151 | | |
| 196 | 2 | 1.32 | | 161 | | | | |
| 212 | 2 | 1.12 | | | | 160 | | |
| 215 | 3 | -0.93 | | | | 146 | | |
| 217 | 3 | 0.52 | | | | 156 | | |
| 218 | 0 | 3.48 | | | | 176 | | |
| 219 | 3 | 0.67 | | | | 157 | | |
| 220 | 4 | 0.07 | | 153 | | | | |
| 221 | 4 | 0.07 | | 153 | | | | |
| 224 | 2 | -1.17 | | | | 145 | | |
| 234 | 2 | 1.42 | | | | 162 | | |
| 236 | 3 | -0.74 | | | | 148 | | |
| 241 | 4 | -0.37 | | 150 | | | | |
| 247 | 4 | 0.07 | | | | | | 153 |
| 252 | 4 | -0.37 | | 150 | | | | |
| 255 | 4 | 0.10 | | | | 153 | | |
| 256 | 2 | -1.38 | | | | | | 143 |
| 257 | 3 | -0.52 | | | | | | 149 |
| 258 | 3 | 0.52 | | | | | | 156 |
| 259 | 4 | -0.22 | | 151 | | | | |
| 261 | 0 | -22.86 | | 0 | | | | |
| 262 | 3 | -0.52 | | | | | | 149 |
| 264 | 4 | 0.37 | | 155 | | | | |
| 265 | 4 | -0.07 | | | | 152 | | |
| 266 | 3 | 0.67 | | | | | | 157 |
| 268 | 0 | 3.85 | | 178 | | | | |
| 270 | 3 | -0.93 | | | | | | 146 |
| 272 | 0 | 2.62 | | | | | | 170 |
| 273 | 1 | 2.02 | | | | 166 | | |
| 274 | 2 | 1.20 | | | | | | 160 |
| 275 | 1 | 1.87 | | | | | | 165 |
| 282 | 3 | 0.82 | | | | 158 | | |
| 284 | 0 | 2.79 | | 171 | | | | |
| 287 | 2 | -1.27 | | 144 | | | | |
| 292 | 2 | -1.08 | | 145 | | | | |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)--Continued
total P as P (total Phosphorus as phosphorus) mg/L



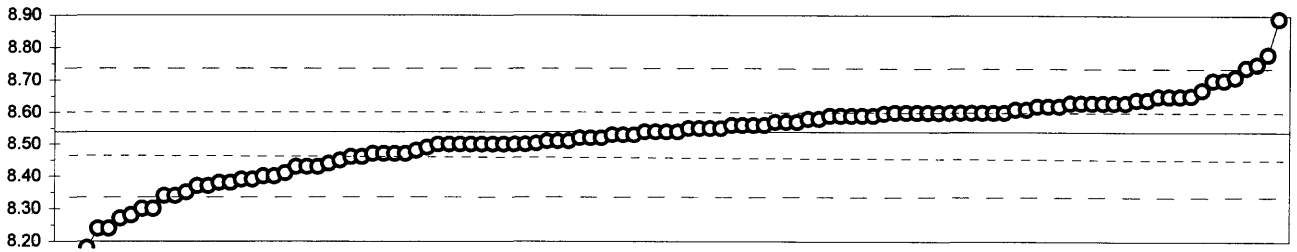
| | N = | 2 | 2 | 1 | 8 | 42 | 1 |
|-----------------|-----|------|------|------|------|------|------|
| Minimum = | | 0.00 | 0.09 | 0.01 | 0.02 | 0.01 | 0.01 |
| Maximum = | | 0.00 | 0.13 | | 0.20 | 1.35 | |
| Median = | | | | | 0.03 | 0.02 | |
| F-pseudosigma = | | | | | 0.03 | 0.01 | |

MPV = 0.02
F-pseudosigma = 0.01
N = 56
Hu = 0.03
HI = 0.02

| Lab | Rating | Z-value | 0 | 4 | 20 | 22 | 22m | 22SnCl |
|-----|--------|---------|---------|---------|---------|------|---------|--------|
| 1 | 3 | -0.85 | | | | | 0.01 | |
| 3 | 4 | 0.04 | | | | 0.02 | | |
| 12 | NR | | | | | | < 0.02 | |
| 13 | NR | | | | | | < 0.05 | |
| 16 | 0 | 2.29 | | | | 0.05 | | |
| 18 | 4 | -0.31 | | | | | 0.02 | |
| 22 | 4 | -0.31 | | | | | 0.02 | |
| 25 | NR | | < 0.121 | | | | | |
| 36 | NR | | | | < 0.025 | | | |
| 38 | 4 | 0.13 | | | | | 0.02 | |
| 39 | 4 | 0.40 | | | | | 0.02 | |
| 57 | 4 | 0.04 | | | | | 0.02 | |
| 61 | 0 | 2.29 | 0.05 | | | | | |
| 64 | 4 | -0.04 | | | | | 0.02 | |
| 68 | 2 | 1.03 | | | | 0.03 | | |
| 70 | NR | | | | | | < 0.1 | |
| 81 | 3 | -0.67 | | | | | 0.01 | |
| 83 | 4 | -0.04 | | | | 0.02 | | |
| 85 | 4 | -0.04 | | | | | 0.02 | |
| 87 | 4 | -0.40 | | | | | 0.02 | |
| 89 | 4 | 0.04 | | | | | 0.02 | |
| 92 | 4 | 0.04 | | | | | 0.02 | |
| 102 | 3 | -0.58 | | | | | 0.01 | |
| 104 | 4 | -0.13 | | | | | 0.02 | |
| 105 | 4 | 0.04 | | | | 0.02 | | |
| 107 | 4 | -0.31 | | | | | 0.02 | |
| 108 | 1 | 1.84 | | | | | 0.04 | |
| 111 | 4 | 0.40 | | | | | 0.02 | |
| 113 | 4 | -0.31 | | | | | 0.02 | |
| 114 | 4 | 0.04 | | | | | 0.02 | |
| 118 | 3 | 0.94 | | | | | 0.03 | |
| 119 | 4 | 0.04 | | | | | 0.02 | |
| 127 | 3 | 0.65 | | | | | 0.03 | |
| 129 | 1 | 1.84 | | | | | 0.04 | |
| 131 | 0 | 6.34 | 0.09 | | | | | |
| 133 | 4 | -0.49 | | 0.01 | | | | |
| 134 | 4 | -0.40 | | | | | 0.02 | |
| 138 | 4 | -0.22 | | | | | 0.02 | |
| 140 | 0 | 4.54 | | | | 0.07 | | |
| 141 | NR | | | | | | < 0.05 | |
| 142 | NR | | | | | | < 0.018 | |
| 143 | 3 | -0.58 | | | | | 0.01 | |
| 145 | 4 | -0.40 | | | | | 0.02 | |
| 146 | 2 | 1.03 | | | | | 0.03 | |
| 154 | 4 | -0.40 | | | | 0.02 | | |
| 158 | 2 | 1.05 | | | | | 0.03 | |
| 180 | NR | | | < 0.025 | | | | |
| 203 | 2 | -1.03 | | | | | 0.01 | |
| 204 | 4 | -0.49 | | | | | 0.01 | |
| 212 | NR | | | | | | < 0.05 | |

| Lab | Rating | Z-value | 0 | 4 | 20 | 22 | 22m | 22SnCl |
|-----|--------|---------|---------|------|----|-------|-----|--------|
| 213 | 3 | 0.94 | | | | | | 0.03 |
| 215 | 3 | -0.85 | | | | | | 0.01 |
| 224 | 4 | -0.22 | | | | | | 0.02 |
| 234 | 4 | 0.04 | | | | | | 0.02 |
| 236 | NR | | < 0.006 | | | | | |
| 241 | 4 | -0.04 | | | | | | 0.02 |
| 252 | 3 | -0.76 | | | | | | 0.01 |
| 257 | 0 | 12.64 | | | | | | 0.16 |
| 259 | 3 | -0.67 | | | | | | |
| 261 | 0 | 16.23 | | | | 0.20 | | 0.01 |
| 264 | 3 | -0.58 | | | | | | 0.01 |
| 273 | 0 | 9.94 | | 0.13 | | | | |
| 274 | 0 | 119.66 | | | | | | 1.35 |
| 275 | NR | -1.75 | 0.00 | | | | | |
| 282 | NR | | | | | | | < 0.1 |
| 284 | NR | | | | | < 0.1 | | |
| 287 | NR | | | | | | | < 0.1 |
| 290 | 3 | -0.58 | | | | | | 0.01 |
| 292 | 4 | 0.04 | | | | | | 0.02 |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)--Continued
pH



—○— 41

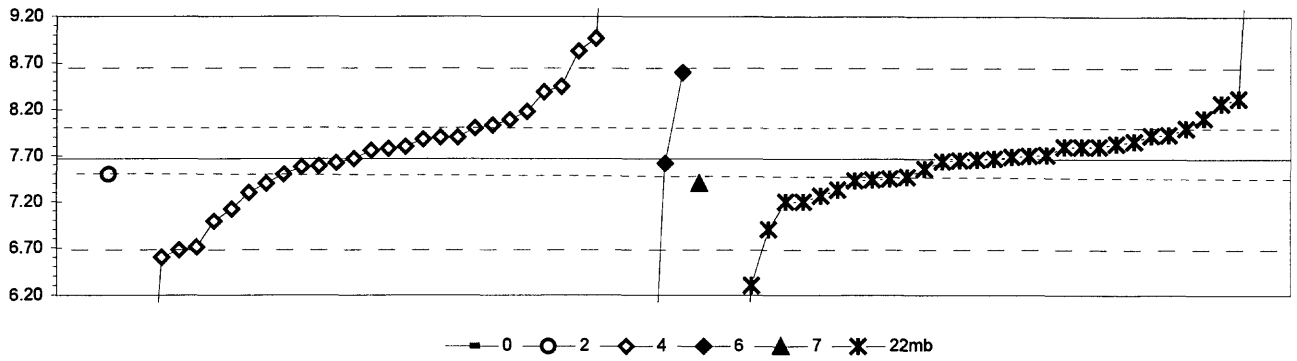
| 41. Electrometric | | | |
|-------------------|------|--|--|
| N = | 112 | | |
| Minimum = | 7.74 | | |
| Maximum = | 8.89 | | |
| Median = | 8.54 | | |
| F-pseudostigma = | 0.10 | | |

MPV = 8.54
F-pseudostigma = 0.43
N = 113
Hu = 8.60
HI = 8.47

| Lab | Rating | Z-value | 41 |
|-----|--------|---------|------|
| 1 | 4 | -0.05 | 8.52 |
| 3 | 4 | -0.05 | 8.52 |
| 10 | 4 | 0.30 | 8.67 |
| 11 | 4 | -0.19 | 8.46 |
| 12 | 4 | 0.14 | 8.60 |
| 13 | 4 | 0.07 | 8.57 |
| 16 | 4 | -0.09 | 8.50 |
| 18 | 4 | -0.40 | 8.37 |
| 19 | 4 | -0.09 | 8.50 |
| 24 | 4 | -0.21 | 8.45 |
| 25 | 4 | 0.19 | 8.62 |
| 26 | 4 | -0.02 | 8.53 |
| 30 | 4 | 0.49 | 8.75 |
| 32 | 4 | 0.14 | 8.60 |
| 33 | 4 | 0.07 | 8.57 |
| 36 | 4 | -0.07 | 8.51 |
| 38 | 4 | -0.09 | 8.50 |
| 39 | 4 | 0.14 | 8.60 |
| 40 | 4 | 0.12 | 8.59 |
| 43 | 4 | -0.19 | 8.46 |
| 46 | 4 | 0.26 | 8.65 |
| 48 | 4 | -0.33 | 8.40 |
| 50 | 4 | 0.00 | 8.54 |
| 51 | 4 | 0.23 | 8.64 |
| 57 | 1 | -1.87 | 7.74 |
| 61 | 4 | 0.00 | 8.54 |
| 64 | 4 | 0.21 | 8.63 |
| 68 | 3 | 0.56 | 8.78 |
| 69 | 4 | 0.14 | 8.60 |
| 70 | 4 | 0.07 | 8.57 |
| 76 | 4 | 0.26 | 8.65 |
| 80 | 4 | -0.26 | 8.43 |
| 81 | 4 | 0.21 | 8.63 |
| 84 | 4 | -0.44 | 8.35 |
| 85 | 4 | 0.14 | 8.60 |
| 86 | 4 | -0.16 | 8.47 |
| 87 | 3 | -0.84 | 8.18 |
| 89 | 4 | 0.19 | 8.62 |
| 90 | 4 | -0.26 | 8.43 |
| 92 | 4 | -0.37 | 8.38 |
| 93 | 4 | 0.21 | 8.63 |
| 96 | 4 | 0.12 | 8.59 |
| 97 | 4 | 0.16 | 8.61 |
| 105 | 4 | -0.14 | 8.48 |
| 107 | 4 | -0.02 | 8.53 |
| 109 | 4 | 0.21 | 8.63 |
| 111 | 4 | -0.07 | 8.51 |
| 113 | 4 | -0.09 | 8.50 |
| 114 | 4 | -0.23 | 8.44 |
| 118 | 4 | -0.33 | 8.40 |
| 119 | 4 | 0.37 | 8.70 |
| 127 | 4 | 0.05 | 8.56 |
| 129 | 4 | -0.40 | 8.37 |
| 131 | 4 | 0.05 | 8.56 |
| 133 | 4 | -0.26 | 8.43 |
| 134 | 4 | 0.13 | 8.60 |
| 138 | 4 | -0.02 | 8.53 |
| 140 | 4 | 0.00 | 8.54 |
| 141 | 4 | 0.26 | 8.65 |
| 142 | 4 | -0.12 | 8.49 |

| Lab | Rating | Z-value | 41 |
|-----|--------|---------|------|
| 143 | 4 | 0.26 | 8.65 |
| 146 | 4 | 0.00 | 8.54 |
| 149 | 4 | 0.14 | 8.60 |
| 151 | 4 | 0.16 | 8.61 |
| 154 | 4 | 0.02 | 8.55 |
| 158 | 4 | 0.02 | 8.55 |
| 180 | 4 | 0.14 | 8.60 |
| 185 | 4 | 0.05 | 8.56 |
| 190 | 4 | -0.09 | 8.50 |
| 196 | 4 | 0.37 | 8.70 |
| 203 | 4 | 0.05 | 8.56 |
| 204 | 4 | 0.47 | 8.74 |
| 209 | 4 | -0.35 | 8.39 |
| 212 | 4 | 0.14 | 8.60 |
| 213 | 4 | -0.05 | 8.52 |
| 215 | 4 | -0.09 | 8.50 |
| 217 | 4 | 0.14 | 8.60 |
| 218 | 4 | 0.21 | 8.63 |
| 221 | 3 | 0.82 | 8.89 |
| 224 | 4 | -0.16 | 8.47 |
| 234 | 4 | 0.12 | 8.59 |
| 236 | 4 | 0.09 | 8.58 |
| 241 | 4 | -0.35 | 8.39 |
| 244 | 4 | 0.21 | 8.63 |
| 247 | 4 | 0.12 | 8.59 |
| 252 | 4 | -0.09 | 8.50 |
| 255 | 4 | 0.09 | 8.58 |
| 256 | 3 | -0.63 | 8.27 |
| 257 | 3 | -0.61 | 8.28 |
| 258 | 4 | 0.02 | 8.55 |
| 259 | 4 | 0.02 | 8.55 |
| 261 | 4 | -0.30 | 8.41 |
| 262 | 4 | -0.16 | 8.47 |
| 263 | 3 | -0.56 | 8.30 |
| 264 | 4 | 0.19 | 8.62 |
| 265 | 4 | 0.23 | 8.64 |
| 266 | 3 | -0.56 | 8.30 |
| 267 | 4 | 0.14 | 8.60 |
| 268 | 3 | -0.70 | 8.24 |
| 269 | 4 | -0.07 | 8.51 |
| 270 | 4 | 0.14 | 8.60 |
| 272 | 4 | -0.16 | 8.47 |
| 273 | 4 | -0.09 | 8.50 |
| 274 | 4 | 0.12 | 8.59 |
| 275 | 4 | -0.37 | 8.38 |
| 276 | 2 | -1.03 | 8.10 |
| 282 | 4 | -0.09 | 8.50 |
| 284 | 3 | -0.70 | 8.24 |
| 287 | 4 | -0.47 | 8.34 |
| 290 | 4 | -0.09 | 8.50 |
| 291 | 4 | -0.47 | 8.34 |
| 292 | 4 | 0.40 | 8.71 |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)--Continued
SiO₂ (Silica) mg/L

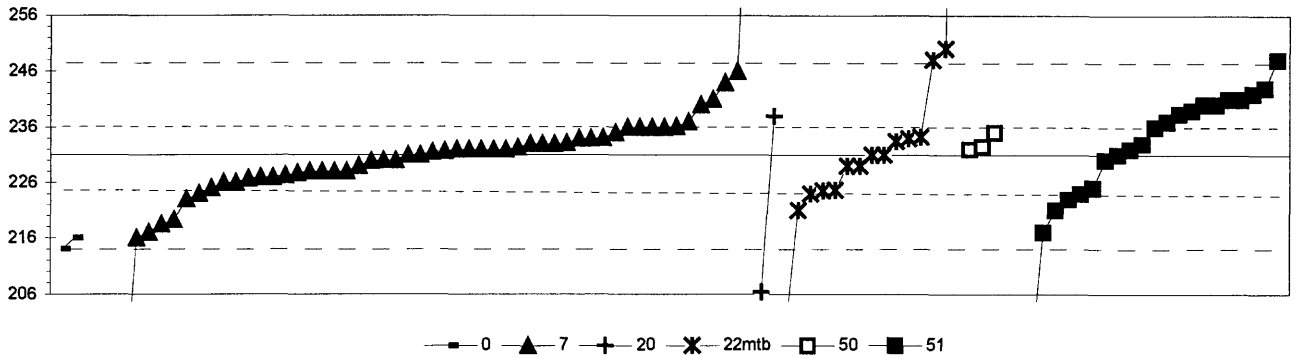


| Lab | Rating | Z-value | 0 | 2 | 4 | 6 | 7 | 22mb |
|-----|--------|---------|--------|---|-------|------|------|-------|
| 1 | 4 | -0.46 | | | | | | 7.44 |
| 3 | 3 | 0.85 | | | 8.09 | | | |
| 10 | 4 | -0.06 | | | | | | 7.64 |
| 11 | 3 | -0.74 | | | 7.30 | | | |
| 13 | 0 | 2.62 | | | 8.97 | | | |
| 18 | 4 | -0.48 | | | | | | 7.43 |
| 24 | 1 | 1.57 | | | 8.45 | | | |
| 25 | 0 | 8.72 | | | 12.00 | | | |
| 26 | 4 | 0.22 | | | 7.78 | | | |
| 32 | 1 | 1.87 | | | | 8.60 | | |
| 33 | 0 | -3.60 | 5.88 | | | | | |
| 38 | 4 | -0.04 | | | | | | 7.65 |
| 39 | 4 | 0.00 | | | 7.67 | | | |
| 40 | 0 | -2.15 | | | 6.60 | | | |
| 42 | 0 | 2.34 | | | 8.83 | | | |
| 43 | 4 | 0.46 | | | 7.90 | | | |
| 46 | 4 | -0.44 | | | | | | 7.45 |
| 50 | 4 | 0.00 | | | | | | 7.67 |
| 57 | 3 | -0.54 | | | | | 7.40 | |
| 61 | 0 | -7.67 | | | 3.86 | | | |
| 64 | 4 | -0.16 | | | 7.59 | | | |
| 68 | 3 | -0.81 | | | | | | 7.27 |
| 70 | 3 | 0.52 | | | | | | 7.93 |
| 81 | 4 | -0.22 | | | | | | 7.56 |
| 83 | 1 | -1.99 | | | 6.68 | | | |
| 87 | 0 | -7.65 | | | | | | 3.87 |
| 89 | 4 | 0.26 | | | | | | 7.80 |
| 97 | 4 | 0.32 | | | | | | 7.83 |
| 102 | 3 | -0.68 | | | | | | 7.33 |
| 104 | 4 | 0.50 | | | | | | 7.92 |
| 105 | 4 | -0.18 | | | 7.58 | | | |
| 107 | 4 | -0.40 | | | | | | 7.47 |
| 111 | 4 | -0.02 | | | | | | 7.66 |
| 113 | 2 | 1.21 | | | | | | 8.27 |
| 118 | 0 | 8.66 | | | | | | 11.97 |
| 119 | 3 | 0.66 | | | 8.00 | | | |
| 121 | 4 | 0.26 | | | 7.80 | | | |
| 127 | 2 | -1.37 | | | 6.99 | | | |
| 129 | 4 | 0.26 | | | | | | 7.80 |
| 131 | 4 | 0.42 | | | 7.88 | | | |
| 134 | 4 | -0.09 | | | 7.62 | | | |
| 138 | 4 | 0.08 | | | | | | 7.71 |
| 140 | 3 | 0.66 | | | | | | 8.00 |
| 142 | 2 | 1.45 | | | 8.39 | | | |
| 145 | 4 | 0.18 | | | 7.76 | | | |
| 147 | 4 | 0.46 | | | 7.90 | | | |
| 149 | 3 | -0.95 | | | | | | 7.20 |
| 151 | 2 | 1.31 | | | | | | 8.32 |
| 183 | 0 | 435.16 | 223.80 | | | | | |
| 185 | 0 | -2.76 | | | | | | 6.30 |

MPV = 7.67
F-pseudosigma = 0.50
N = 70
Hu = 8.00
HI = 7.33

| Lab | Rating | Z-value | 0 | 2 | 4 | 6 | 7 | 22mb |
|-----|--------|---------|---|------|-------|------|---|-------|
| 190 | 0 | -7.99 | | | | | | 3.70 |
| 191 | 4 | -0.10 | | | | 7.62 | | |
| 203 | 3 | 0.89 | | | | | | 8.11 |
| 212 | 2 | 1.03 | | | 8.18 | | | |
| 215 | 1 | -1.93 | | | 6.71 | | | |
| 217 | 0 | 31.47 | | | 23.30 | | | |
| 234 | 3 | 0.72 | | | 8.03 | | | |
| 236 | 0 | -7.43 | | | 3.98 | | | |
| 241 | 4 | -0.34 | | 7.50 | | | | |
| 252 | 4 | 0.26 | | | | | | 7.80 |
| 255 | 4 | 0.04 | | | | | | 7.69 |
| 256 | 1 | -1.55 | | | | | | 6.90 |
| 259 | 3 | -0.54 | | | 7.40 | | | |
| 264 | 3 | -0.95 | | | | | | 7.20 |
| 265 | 4 | -0.34 | | | 7.50 | | | |
| 268 | 4 | 0.06 | | | | | | 7.70 |
| 273 | 2 | -1.11 | | | 7.12 | | | |
| 274 | 0 | 8.05 | | | | | | 11.67 |
| 282 | 0 | -7.77 | | | | 3.81 | | |
| 284 | 4 | 0.38 | | | | | | 7.86 |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)--Continued
 SO₄ (Sulfate) mg/L



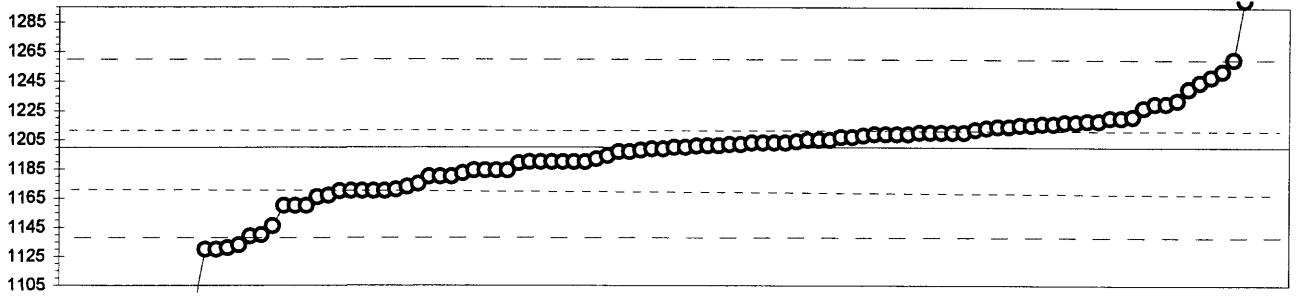
| Method | N | Minimum | Maximum | Median | F-pseudostigma |
|----------------------------------|---|---------|---------|--------|----------------|
| 0. Other | | | | | |
| 7. Ion chromatography | | | | | |
| 20. Titrate: colorimetric | | | | | |
| 22mtb. Color: methyl thymol blue | | | | | |
| 50. Gravimetric | | | | | |
| 51. Turbidimetric | | | | | |

MPV = 231
 F-pseudostigma = 12
 N = 101
 Hu = 236
 HI = 225

| Lab | Rating | Z-value | 0 | 7 | 20 | 22mtb | 50 | 51 |
|-----|--------|---------|-----|-----|-----|-------|-----|-----|
| 1 | 4 | 0.06 | | 232 | | | | |
| 3 | 2 | -1.23 | | 217 | | | | |
| 9 | 4 | -0.28 | | 228 | | | | |
| 10 | 4 | -0.02 | | | | | | 231 |
| 11 | 4 | 0.41 | | 236 | | | | |
| 12 | 2 | 1.45 | | | | 248 | | |
| 13 | 4 | -0.28 | | 228 | | | | |
| 16 | 4 | 0.26 | | | | 234 | | |
| 18 | 4 | -0.02 | | | | 231 | | |
| 19 | 4 | -0.19 | | | | 229 | | |
| 23 | 3 | -0.54 | | | | | | 225 |
| 24 | 4 | 0.19 | | | | 234 | | |
| 25 | 4 | -0.28 | | 228 | | | | |
| 26 | 4 | 0.15 | | 233 | | | | |
| 30 | 4 | -0.31 | | 228 | | | | |
| 32 | 4 | -0.02 | | 231 | | | | |
| 33 | 2 | -1.32 | | 216 | | | | |
| 36 | 4 | 0.15 | | | | | | 233 |
| 39 | 4 | 0.41 | | 236 | | | | |
| 42 | 0 | -11.11 | | 103 | | | | |
| 43 | 4 | 0.06 | | | | | 232 | |
| 45 | 3 | -0.89 | | | | | | 221 |
| 46 | 4 | 0.32 | | 235 | | | | |
| 48 | 4 | 0.50 | | | | | | 237 |
| 50 | 4 | 0.24 | | | | 234 | | |
| 51 | 4 | 0.25 | | 234 | | | | |
| 57 | 4 | -0.11 | | | | | | 230 |
| 61 | 0 | -4.95 | | | | | | 174 |
| 64 | 4 | 0.06 | | 232 | | | | |
| 69 | 4 | -0.02 | | | | 231 | | |
| 70 | 4 | -0.45 | | 226 | | | | |
| 80 | 3 | 0.58 | | | 238 | | | |
| 81 | 4 | -0.19 | | | | 229 | | |
| 83 | 2 | -1.49 | 214 | | | | | |
| 84 | 0 | 5.86 | | 299 | | | | |
| 85 | 4 | -0.11 | | 230 | | | | |
| 86 | 4 | 0.41 | | 236 | | | | |
| 87 | 1 | 1.62 | | | | 250 | | |
| 89 | 4 | 0.41 | | 236 | | | | |
| 92 | 4 | 0.06 | | | | | | 232 |
| 93 | 0 | -16.23 | | 44 | | | | |
| 96 | 4 | 0.41 | | | | | | 236 |
| 97 | 3 | -0.89 | | | | 221 | | |
| 102 | 0 | 9.58 | | | | 342 | | |
| 105 | 2 | -1.03 | | 219 | | | | |
| 109 | 4 | 0.11 | | | | | 233 | |
| 111 | 4 | -0.37 | | 227 | | | | |
| 113 | 3 | -0.63 | | 224 | | | | |
| 114 | 3 | 0.67 | | | | | | 239 |
| 119 | 4 | 0.06 | | 232 | | | | |
| 127 | 4 | -0.45 | | 226 | | | | |
| 129 | 4 | 0.15 | | 233 | | | | |
| 131 | 0 | -3.74 | | 188 | | | | |
| 134 | 4 | 0.06 | | 232 | | | | |
| 138 | 4 | 0.50 | | 237 | | | | |

| Lab | Rating | Z-value | 0 | 7 | 20 | 22mtb | 50 | 51 |
|-----|--------|---------|-----|---|----|-------|-----|------|
| 140 | 3 | 0.84 | | | | | | 241 |
| 141 | 3 | 0.84 | | | | | | 241 |
| 142 | 4 | 0.43 | | | | | 236 | |
| 145 | 4 | -0.28 | | | | | 228 | |
| 146 | 2 | -1.32 | 216 | | | | | |
| 147 | 4 | -0.19 | | | | 229 | | |
| 149 | 4 | 0.24 | | | | 234 | | |
| 151 | 4 | 0.24 | | | | 234 | | |
| 154 | 0 | -2.70 | | | | | | 200 |
| 158 | 3 | -0.63 | | | | | | 224 |
| 180 | 4 | -0.11 | | | | 230 | | |
| 190 | 3 | -0.54 | | | | 225 | | |
| 191 | 4 | -0.02 | | | | 231 | | |
| 196 | 2 | -1.10 | | | | 219 | | |
| 203 | 3 | -0.58 | | | | | | 225 |
| 212 | 2 | 1.10 | | | | 244 | | |
| 215 | 2 | 1.45 | | | | | | 248 |
| 217 | 3 | -0.71 | | | | 223 | | |
| 219 | 3 | 0.76 | | | | 240 | | |
| 220 | 3 | -0.57 | | | | | | 225 |
| 221 | 4 | 0.32 | | | | | | 235 |
| 224 | 4 | -0.12 | | | | 230 | | |
| 234 | 4 | 0.09 | | | | 232 | | |
| 236 | 4 | 0.04 | | | | 232 | | |
| 241 | 4 | 0.15 | | | | 233 | | |
| 247 | 0 | -19.83 | | | | 2 | | |
| 252 | 3 | 0.76 | | | | | | 240 |
| 256 | 0 | -2.15 | | | | | | 206 |
| 257 | 4 | 0.06 | | | | 232 | | |
| 258 | 3 | 0.62 | | | | | | 238 |
| 259 | 4 | -0.37 | | | | 227 | | |
| 261 | 0 | 204.91 | | | | | | 2600 |
| 262 | 2 | -1.23 | | | | | | 217 |
| 263 | 3 | -0.63 | | | | | | 224 |
| 264 | 3 | 0.76 | | | | | | 240 |
| 265 | 2 | 1.28 | | | | 246 | | |
| 266 | 3 | 0.93 | | | | | | 242 |
| 268 | 4 | 0.02 | | | | 232 | | |
| 273 | 4 | -0.39 | | | | 227 | | |
| 274 | 0 | -3.29 | | | | | | 193 |
| 275 | 2 | 1.02 | | | | | | 243 |
| 282 | 3 | 0.84 | | | | 241 | | |
| 284 | 0 | -3.22 | | | | | | 194 |
| 287 | 3 | -0.71 | | | | | | 223 |
| 290 | 4 | 0.17 | | | | 233 | | |
| 292 | 4 | -0.34 | | | | 227 | | |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)--Continued
Sp Cond (Specific Conductance) $\mu\text{S}/\text{cm}$



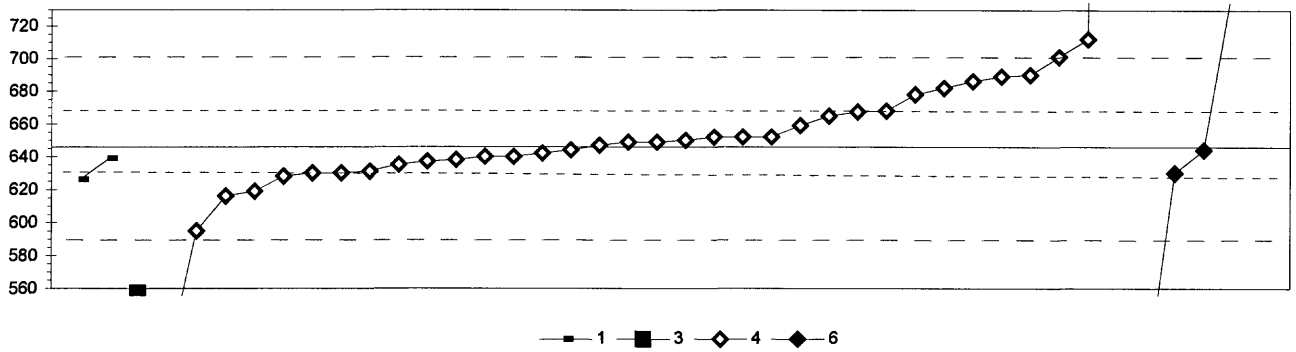
—○— 41

| | | | |
|-------------------|-----------------|------|--|
| 41. Electrometric | | | |
| | N = | 109 | |
| | Minimum = | 520 | |
| | Maximum = | 7380 | |
| | Median = | 1200 | |
| | F-pseudosigma = | 31 | |

MPV = 1200
F-pseudosigma = 60
N = 109
Hu = 1212
Hi = 1170

| Lab | Rating | Z-value | 41 | Lab | Rating | Z-value | 41 |
|-----|--------|---------|------|-----|--------|---------|------|
| 1 | 4 | 0.07 | 1204 | 133 | 0 | -3.33 | 1000 |
| 3 | 4 | -0.17 | 1190 | 134 | 4 | 0.05 | 1203 |
| 9 | 4 | 0.17 | 1210 | 138 | 4 | -0.50 | 1170 |
| 10 | 4 | 0.45 | 1227 | 140 | 4 | -0.33 | 1180 |
| 11 | 4 | -0.17 | 1190 | 141 | 4 | 0.20 | 1212 |
| 13 | 4 | 0.23 | 1214 | 142 | 4 | 0.02 | 1201 |
| 16 | 4 | -0.42 | 1175 | 145 | 3 | -1.00 | 1140 |
| 18 | 3 | -0.57 | 1166 | 146 | 1 | -1.83 | 1090 |
| 19 | 4 | -0.10 | 1194 | 149 | 4 | 0.08 | 1205 |
| 23 | 3 | 0.87 | 1252 | 151 | 4 | 0.27 | 1216 |
| 24 | 4 | 0.00 | 1200 | 154 | 3 | 0.53 | 1232 |
| 25 | 4 | -0.02 | 1199 | 180 | 3 | 0.67 | 1240 |
| 26 | 4 | 0.23 | 1214 | 185 | 4 | -0.05 | 1197 |
| 32 | 3 | -0.67 | 1160 | 190 | 4 | 0.02 | 1201 |
| 33 | 0 | -9.63 | 622 | 193 | 4 | -0.50 | 1170 |
| 36 | 4 | -0.33 | 1180 | 196 | 0 | 103.00 | 7380 |
| 38 | 3 | 0.74 | 1244 | 203 | 4 | -0.02 | 1199 |
| 39 | 1 | -1.83 | 1090 | 204 | 4 | -0.27 | 1184 |
| 40 | 4 | -0.17 | 1190 | 212 | 4 | -0.50 | 1170 |
| 42 | 3 | -0.48 | 1171 | 215 | 4 | -0.50 | 1170 |
| 43 | 4 | 0.03 | 1202 | 217 | 3 | -0.67 | 1160 |
| 46 | 4 | -0.17 | 1190 | 218 | 0 | -8.47 | 692 |
| 48 | 4 | 0.28 | 1217 | 219 | 2 | -1.17 | 1130 |
| 50 | 4 | 0.17 | 1210 | 224 | 4 | 0.33 | 1220 |
| 51 | 4 | -0.45 | 1173 | 234 | 4 | 0.17 | 1210 |
| 57 | 1 | -1.83 | 1090 | 236 | 2 | -1.15 | 1131 |
| 61 | 4 | 0.30 | 1218 | 241 | 0 | -2.50 | 1050 |
| 64 | 4 | 0.12 | 1207 | 244 | 4 | -0.03 | 1198 |
| 68 | 3 | 0.80 | 1248 | 247 | 0 | -5.48 | 871 |
| 70 | 4 | 0.00 | 1200 | 252 | 2 | -1.17 | 1130 |
| 76 | 4 | 0.05 | 1203 | 255 | 4 | -0.50 | 1170 |
| 80 | 4 | 0.03 | 1202 | 256 | 1 | 2.02 | 1321 |
| 81 | 4 | 0.33 | 1220 | 257 | 4 | 0.15 | 1209 |
| 84 | 4 | -0.27 | 1184 | 258 | 4 | -0.30 | 1182 |
| 85 | 4 | -0.17 | 1190 | 259 | 4 | 0.25 | 1215 |
| 86 | 4 | 0.50 | 1230 | 261 | 3 | -1.02 | 1139 |
| 87 | 0 | -11.33 | 520 | 262 | 4 | 0.30 | 1218 |
| 89 | 4 | 0.17 | 1210 | 263 | 4 | -0.13 | 1192 |
| 90 | 4 | -0.18 | 1189 | 264 | 4 | -0.27 | 1184 |
| 92 | 4 | 0.01 | 1201 | 266 | 4 | 0.17 | 1210 |
| 93 | 4 | 0.08 | 1205 | 267 | 4 | 0.15 | 1209 |
| 96 | 4 | 0.27 | 1216 | 268 | 1 | 1.67 | 1300 |
| 97 | 4 | 0.22 | 1213 | 269 | 4 | 0.15 | 1209 |
| 102 | 4 | 0.13 | 1208 | 270 | 0 | 4.67 | 1480 |
| 105 | 4 | 0.08 | 1205 | 272 | 4 | 0.28 | 1217 |
| 107 | 4 | -0.27 | 1184 | 273 | 4 | 0.35 | 1221 |
| 109 | 3 | -0.55 | 1167 | 274 | 0 | -3.85 | 969 |
| 111 | 3 | -0.67 | 1160 | 275 | 3 | 1.00 | 1260 |
| 113 | 4 | 0.05 | 1203 | 276 | 4 | 0.50 | 1230 |
| 114 | 4 | -0.05 | 1197 | 282 | 1 | -1.83 | 1090 |
| 118 | 0 | -7.92 | 725 | 284 | 4 | 0.12 | 1207 |
| 119 | 4 | 0.05 | 1203 | 287 | 4 | 0.25 | 1215 |
| 127 | 4 | -0.33 | 1180 | 290 | 3 | -0.90 | 1146 |
| 129 | 2 | -1.12 | 1133 | 292 | 4 | 0.15 | 1209 |
| 131 | 4 | -0.17 | 1190 | | | | |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)--Continued
 Sr (Strontium) μg/L

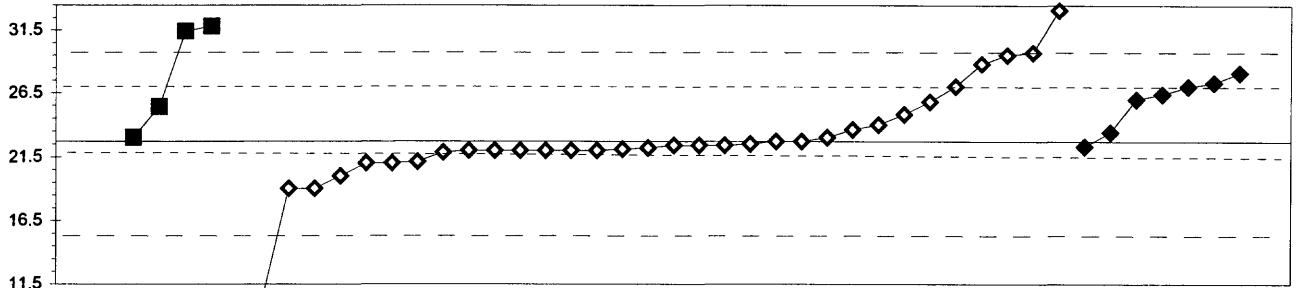


| 1. AA: direct air | | 6. ICP/MS | | | |
|-------------------------|------------------|-----------|-----|------|-----|
| 3. AA: graphite furnace | | | | | |
| 4. ICP | | | | | |
| | N = | 2 | 1 | 34 | 4 |
| | Minimum = | 626 | 557 | 513 | 496 |
| | Maximum = | 639 | | 1680 | 745 |
| | Median = | | | 649 | |
| | F-pseudostigma = | | | 24 | |

MPV = 646
 F-pseudostigma = 32
 N = 42
 Hu = 668
 Hl = 630

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|-----|-----|------|-----|
| 1 | 4 | 0.14 | | | 650 | |
| 3 | 2 | 1.25 | | | 686 | |
| 11 | 4 | 0.05 | | | 647 | |
| 16 | 3 | -0.91 | | | 616 | |
| 18 | 4 | -0.48 | | | 630 | |
| 24 | 3 | 0.60 | | | 665 | |
| 25 | 2 | 1.35 | | | 689 | |
| 32 | 0 | 3.08 | | | | 745 |
| 39 | 3 | -0.82 | | | 619 | |
| 40 | 0 | -4.10 | | | 513 | |
| 42 | 3 | 0.70 | | | 668 | |
| 68 | 4 | -0.17 | | | 640 | |
| 70 | 4 | 0.42 | | | 659 | |
| 81 | 3 | 1.01 | | | 678 | |
| 85 | 2 | 1.38 | | | 690 | |
| 86 | 4 | -0.11 | | | 642 | |
| 97 | 0 | -2.74 | | 557 | | |
| 102 | 0 | 32.05 | | | 1680 | |
| 105 | 4 | -0.45 | | | 631 | |
| 113 | 4 | -0.48 | | | 630 | |
| 119 | 0 | -4.63 | | | | 496 |
| 121 | 4 | 0.20 | | | 652 | |
| 127 | 4 | -0.23 | | | 638 | |
| 131 | 4 | 0.20 | | | 652 | |
| 134 | 4 | -0.33 | | | 635 | |
| 138 | 4 | -0.05 | | | 644 | |
| 142 | 3 | 0.68 | | | 668 | |
| 145 | 2 | 1.13 | | | 682 | |
| 147 | 4 | -0.48 | | | | 630 |
| 154 | 1 | -1.56 | | | 595 | |
| 191 | 4 | -0.05 | | | | 644 |
| 212 | 4 | -0.17 | | | 640 | |
| 217 | 4 | 0.20 | | | 652 | |
| 218 | 1 | 1.72 | | | 701 | |
| 219 | 4 | -0.26 | | | 637 | |
| 234 | 4 | 0.11 | | | 649 | |
| 236 | 3 | -0.54 | | | 628 | |
| 259 | 3 | -0.60 | 626 | | | |
| 265 | 4 | 0.11 | | | 649 | |
| 273 | 0 | 2.06 | | | 712 | |
| 284 | 4 | -0.20 | 639 | | | |

Table 15. Statistical summary of reported data for standard reference water sample M-142 (major constituents)--Continued
V (Vanadium) $\mu\text{g/L}$



□ 1 ○ 2 ■ 3 ◇ 4 ◆ 6 ▲ 7

| | | | | | | |
|-----------------------------|-----------------------|-------|-------|------|------|------|
| 1. AA: direct air | 4. ICP | | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | | |
| 3. AA: graphite furnace | 7. Ion chromatography | | | | | |
| | N = | 1 | 0 | 4 | 33 | 7 |
| | Minimum = | 185.0 | < 100 | 23.0 | 0.0 | 22.3 |
| | Maximum = | | | 31.8 | 33.1 | 28.1 |
| | Median = | | | | 22.2 | 26.4 |
| | F-pseudostigma = | | | | 1.3 | 1.8 |

MPV = 22.7
F-pseudostigma = 3.7
N = 45
Hu = 27.0
HI = 22.0

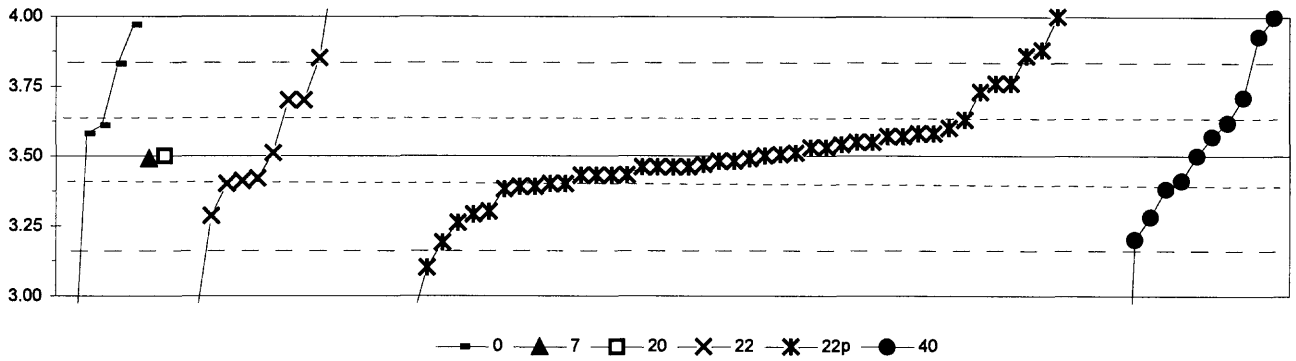
| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 | 7 |
|-----|--------|---------|---|-------|------|------|------|-------|
| 1 | 4 | 0.00 | | | | 22.7 | | |
| 3 | 4 | 0.35 | | | | 24.0 | | |
| 13 | NR | | | | | < 50 | | |
| 16 | 2 | 1.16 | | | | | 27.0 | |
| 18 | 4 | -0.19 | | | | 22.0 | | |
| 25 | 4 | -0.19 | | | | 22.0 | | |
| 26 | 4 | -0.16 | | | | 22.1 | | |
| 32 | 3 | 1.00 | | | | | 26.4 | |
| 39 | 3 | 0.84 | | | | 25.8 | | |
| 40 | 4 | -0.08 | | | | 22.4 | | |
| 42 | 4 | -0.19 | | | | 22.0 | | |
| 46 | 4 | -0.08 | | | | 22.4 | | |
| 48 | 4 | 0.19 | | | | | 23.4 | |
| 57 | NR | | | | | | | < 100 |
| 61 | 2 | 1.16 | | | | 27.0 | | |
| 68 | 4 | 0.08 | | | | 23.0 | | |
| 70 | NR | | | | | < 50 | | |
| 81 | 4 | -0.46 | | | | 21.0 | | |
| 85 | NR | | | | | < 20 | | |
| 86 | 0 | 2.81 | | | | 33.1 | | |
| 89 | 0 | 2.35 | | | 31.4 | | | |
| 97 | 3 | 0.73 | | | 25.4 | | | |
| 102 | 4 | -0.46 | | | | 21.0 | | |
| 105 | 1 | 1.65 | | | | 28.8 | | |
| 119 | 2 | 1.24 | | | | | 27.3 | |
| 121 | 4 | -0.19 | | | | 22.0 | | |
| 127 | 3 | -0.73 | | | | 20.0 | | |
| 131 | 4 | -0.19 | | | | 22.0 | | |
| 134 | 4 | -0.23 | | | | 21.8 | | |
| 138 | 4 | -0.08 | | | | 22.4 | | |
| 141 | 4 | -0.43 | | | | 21.1 | | |
| 142 | 2 | 1.46 | | | | | 28.1 | |
| 145 | 1 | 1.89 | | | | 29.7 | | |
| 146 | 4 | 0.24 | | | | 23.6 | | |
| 147 | 4 | -0.11 | | | | | 22.3 | |
| 154 | 1 | 1.83 | | | | 29.5 | | |
| 180 | 0 | -3.32 | | | | 10.4 | | |
| 183 | 0 | 2.46 | | | 31.8 | | | |
| 212 | 3 | 0.57 | | | | 24.8 | | |
| 217 | 4 | -0.05 | | | | 22.5 | | |
| 219 | 3 | -1.00 | | | | 19.0 | | |
| 224 | 0 | -6.12 | | | | 0.0 | | |
| 234 | 4 | -0.13 | | | | 22.2 | | |
| 235 | 0 | -3.42 | | | | < 10 | | |
| 236 | 3 | -1.00 | | | | 19.0 | | |
| 241 | 4 | 0.08 | | | 23.0 | | | |
| 255 | 4 | 0.00 | | | | 22.7 | | |
| 257 | NR | | | < 100 | | | | |
| 265 | 4 | -0.19 | | | | 22.0 | | |
| 282 | 3 | 0.89 | | | | | 26.0 | |

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 | 7 |
|-----|--------|---------|-------|---|---|---|---|---|
| 284 | 0 | 43.79 | 185.0 | | | | | |

Table 16. *Statistical summary of reported data for standard reference water sample N-53 (nutrient constituents)*

| Definition of analytical methods, abbreviations, and symbols | | |
|--|---|---|
| <u>Analytical methods</u> | | |
| 0. Other/Not reported | | |
| 4. ICP | = | inductively coupled plasma |
| 5. DCP | = | direct coupled plasma |
| 7. IC | = | ion chromatography |
| 20. Titrate: color | = | titration: colorimetric (color reagent specified) |
| 21. Titrate: electro | = | titration: electrometric |
| 22. Color: | = | colorimetric [color reagent specified] |
| 40. Ion electrode | = | ion selective electrode |
| <u>Abbreviations and symbols</u> | | |
| | N = | number of samples |
| | MPV = | most probable value |
| | F-pseudosigma = | nonparametric statistic deviation |
| | Hu = | upper hinge value |
| | Hi = | lower hinge value |
| | mg/L = | milligrams per liter |
| | Lab = | laboratory code number |
| | NR = | not rated, less than value reported |
| | < = | less than |
| <u>Constituent</u> | | <u>page</u> |
| NH ₃ as N | Ammonia as nitrogen | 129 |
| NH ₃ +Org N as N | Ammonia plus organic nitrogen as nitrogen | 130 |
| NO ₃ +NO ₂ as N | Nitrate plus nitrite as nitrogen | 131 |
| Total P as P | Total Phosphorus as phosphorus | 132 |
| PO ₄ as P | Orthophosphate as phosphorus | 133 |

Table 16. Statistical summary of reported data for standard reference water sample N-53 (nutrient constituents)—Continued
 NH₃ as N (Ammonia as nitrogen) mg/L



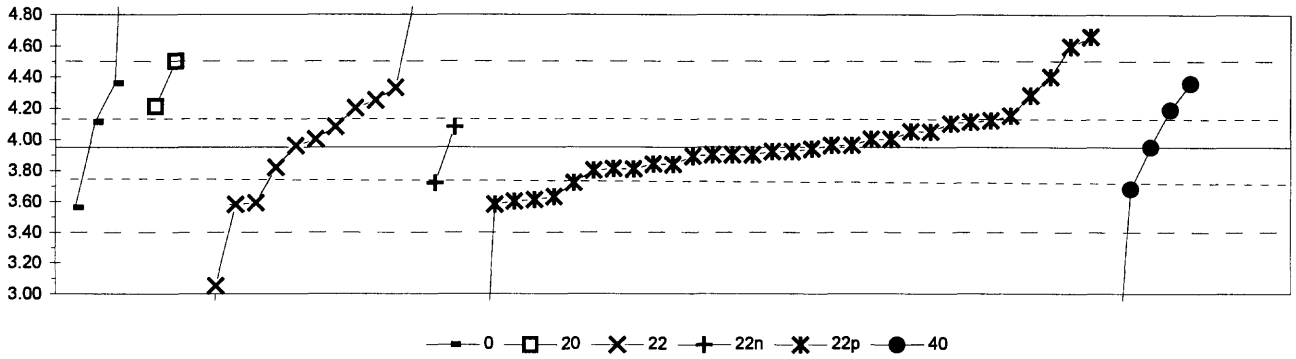
| | N = | 5 | 1 | 1 | 12 | 48 | 12 |
|---------------------------|------------------|------|------|------|------|------|------|
| 0. Other | | | | | | | |
| 7. Ion chromatography | | | | | | | |
| 20. Titrate: colorimetric | | | | | | | |
| | Minimum = | 2.47 | 3.49 | 3.50 | 0.89 | 0.55 | 1.72 |
| | Maximum = | 3.97 | | | 4.25 | 4.35 | 4.00 |
| | Median = | | | | 3.51 | 3.48 | 3.50 |
| | F-pseudostigma = | | | | 0.32 | 0.13 | 0.32 |

MPV = 3.50
 F-pseudostigma = 0.17
 N = 79
 Hu = 3.63
 HI = 3.39

| Lab | Rating | Z-value | 0 | 7 | 20 | 22 | 22p | 40 |
|-----|--------|---------|------|---|----|------|------|------|
| 1 | 2 | 1.15 | | | | 3.70 | | |
| 9 | 4 | 0.29 | | | | | 3.55 | |
| 10 | 4 | 0.00 | | | | | | 3.50 |
| 11 | 0 | 3.44 | | | | | 4.10 | |
| 12 | 0 | -2.30 | | | | | 3.10 | |
| 13 | 1 | -1.78 | | | | | 3.19 | |
| 16 | 0 | -3.50 | | | | 2.89 | | |
| 18 | 2 | 1.32 | | | | | 3.73 | |
| 19 | 4 | 0.17 | | | | | 3.53 | |
| 23 | 2 | -1.21 | | | | | 3.29 | |
| 26 | 4 | -0.06 | 3.49 | | | | | |
| 33 | 0 | 4.88 | | | | | 4.35 | |
| 38 | 0 | 2.06 | | | | | 3.86 | |
| 45 | 3 | -0.53 | | | | | | 3.41 |
| 46 | 4 | 0.03 | | | | | 3.51 | |
| 48 | 0 | 2.87 | | | | | 4.00 | |
| 51 | 3 | 0.69 | | | | | | 3.62 |
| 55 | 3 | -0.53 | | | | 3.41 | | |
| 59 | 4 | -0.40 | | | | | 3.43 | |
| 61 | 3 | 0.63 | 3.61 | | | | | |
| 64 | 4 | 0.06 | | | | | 3.51 | |
| 68 | 1 | 2.01 | | | | 3.85 | | |
| 70 | 4 | -0.40 | | | | | 3.43 | |
| 76 | 3 | -0.63 | | | | | 3.39 | |
| 81 | 0 | 2.18 | | | | | 3.88 | |
| 83 | 0 | -14.98 | | | | 0.89 | | |
| 85 | 4 | -0.06 | | | | | 3.49 | |
| 86 | 4 | -0.40 | | | | | 3.43 | |
| 87 | 4 | 0.29 | | | | | 3.55 | |
| 89 | 4 | 0.40 | | | | | 3.57 | |
| 90 | 3 | 0.57 | | | | | 3.60 | |
| 91 | 3 | -0.69 | | | | | 3.38 | |
| 92 | 0 | 2.87 | | | | | | 4.00 |
| 96 | 3 | -0.57 | | | | | 3.40 | |
| 97 | 0 | -14.64 | | | | | 0.95 | |
| 102 | 0 | -9.82 | | | | | 1.79 | |
| 104 | 4 | -0.40 | | | | | 3.43 | |
| 105 | 4 | -0.46 | | | | 3.42 | | |
| 107 | 4 | 0.46 | | | | | 3.58 | |
| 111 | 0 | -3.44 | | | | | 2.90 | |
| 114 | 2 | -1.26 | | | | | | 3.28 |
| 118 | 3 | -0.63 | | | | | 3.39 | |
| 119 | 3 | -0.69 | | | | | | 3.38 |
| 127 | 4 | 0.17 | | | | | 3.53 | |
| 129 | 2 | -1.23 | | | | 3.29 | | |
| 133 | 0 | -9.70 | | | | | | 1.81 |
| 134 | 4 | 0.40 | | | | | 3.57 | |
| 138 | 4 | 0.46 | | | | | 3.58 | |
| 140 | 0 | 4.08 | | | | 4.21 | | |
| 141 | 4 | 0.00 | | | | | 3.50 | |

| Lab | Rating | Z-value | 0 | 7 | 20 | 22 | 22p | 40 |
|-----|--------|---------|------|---|------|------|------|------|
| 142 | 4 | -0.11 | | | | | | 3.48 |
| 143 | 4 | -0.18 | | | | | | 3.47 |
| 145 | 2 | 1.49 | | | | | | 3.76 |
| 146 | 2 | -1.15 | | | | | | 3.30 |
| 149 | 0 | -16.93 | | | | | | 0.55 |
| 154 | 4 | -0.11 | | | | | | 3.48 |
| 158 | 3 | 0.75 | | | | | | 3.63 |
| 180 | 4 | 0.23 | | | | | | 3.54 |
| 183 | 0 | 2.47 | | | | | | 3.93 |
| 185 | 2 | 1.49 | | | | | | 3.76 |
| 190 | 2 | 1.15 | | | | 3.70 | | |
| 203 | 4 | -0.23 | | | | | | 3.46 |
| 212 | 3 | -0.57 | | | | | | 3.40 |
| 213 | 4 | 0.00 | | | 3.50 | | | |
| 215 | 4 | -0.23 | | | | | | 3.46 |
| 217 | 3 | -0.57 | | | | 3.40 | | |
| 220 | 2 | -1.38 | | | | | 3.26 | |
| 221 | 0 | -10.22 | | | | | | 1.72 |
| 224 | 0 | 2.70 | 3.97 | | | | | |
| 234 | 2 | 1.21 | | | | | | 3.71 |
| 241 | 4 | 0.40 | | | | | | 3.57 |
| 252 | 1 | 1.89 | 3.83 | | | | | |
| 282 | 4 | -0.23 | | | | | | 3.46 |
| 284 | 0 | 4.31 | | | | 4.25 | | |
| 285 | 0 | -5.91 | 2.47 | | | | | |
| 289 | 4 | -0.23 | | | | | 3.46 | |
| 290 | 4 | 0.06 | | | | 3.51 | | |
| 292 | 1 | -1.72 | | | | | | 3.20 |
| 294 | 4 | 0.46 | 3.58 | | | | | |

Table 16. Statistical summary of reported data for standard reference water sample N-53 (nutrient constituents)--Continued
 NH₃ + Org. N as N (Ammonia + Organic nitrogen as nitrogen) mg/L



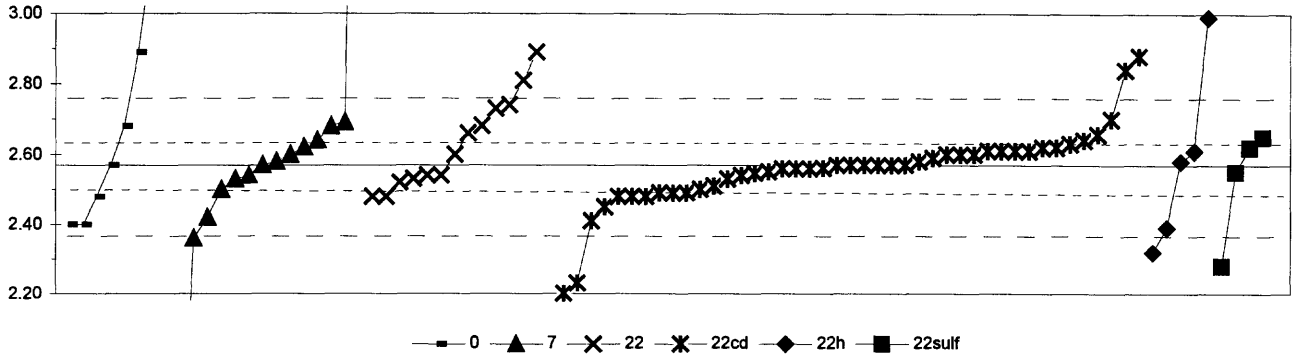
| | | | | | | |
|---------------------------|------------------|------|------|------|------|------|
| 0. Other | | | | | | |
| 20. Titrate: colorimetric | | | | | | |
| 22. Colorimetric | | | | | | |
| | N = | 4 | 2 | 13 | 2 | 32 |
| | Minimum = | 3.56 | 4.21 | 0.29 | 3.72 | 1.17 |
| | Maximum = | 7.56 | 4.50 | 4.93 | 4.08 | 4.66 |
| | Median = | | | 3.98 | | 3.92 |
| | F-pseudostigma = | | | 0.47 | | 0.20 |

MPV = 3.95
 F-pseudostigma = 0.28
 N = 58
 Hu = 4.14
 HI = 3.76

| Lab | Rating | Z-value | 0 | 20 | 22 | 22n | 22p | 40 |
|-----|--------|---------|------|----|------|-------|------|----|
| 1 | 3 | 0.89 | | | 4.20 | | | |
| 9 | 3 | -0.52 | | | | 3.81 | | |
| 10 | 4 | -0.12 | | | | 3.92 | | |
| 11 | 2 | 1.07 | | | 4.25 | | | |
| 12 | 3 | -0.55 | | | | 3.80 | | |
| 16 | 0 | -3.25 | | | 3.05 | | | |
| 18 | 3 | 0.53 | | | | 4.10 | | |
| 38 | 3 | -0.84 | | | | 3.72 | | |
| 45 | 2 | 1.46 | | | | | 4.36 | |
| 46 | 4 | 0.17 | | | | | 4.00 | |
| 48 | 1 | 1.61 | | | | | 4.40 | |
| 55 | 2 | 1.04 | | | 4.24 | | | |
| 59 | 4 | -0.19 | | | | | 3.90 | |
| 61 | 2 | 1.46 | 4.36 | | | | | |
| 68 | 4 | 0.46 | | | 4.08 | | | |
| 70 | 3 | 0.60 | | | | 4.12 | | |
| 81 | 3 | 0.71 | | | | 4.15 | | |
| 85 | 4 | 0.17 | | | | 4.00 | | |
| 87 | 2 | 1.17 | | | | 4.28 | | |
| 89 | 4 | 0.35 | | | | 4.05 | | |
| 90 | 0 | -13.75 | | | | < 0.1 | | |
| 91 | 4 | -0.19 | | | | 3.90 | | |
| 96 | 4 | -0.19 | | | | 3.90 | | |
| 97 | 0 | -10.01 | | | | 1.17 | | |
| 102 | 2 | -1.16 | | | | 3.63 | | |
| 104 | 0 | 2.31 | | | | 4.60 | | |
| 105 | 2 | -1.34 | | | 3.58 | | | |
| 113 | 3 | -0.84 | | | | 3.72 | | |
| 118 | 4 | 0.35 | | | | 4.05 | | |
| 119 | 4 | -0.01 | | | | | 3.95 | |
| 127 | 3 | 0.56 | | | | 4.11 | | |
| 129 | 4 | 0.01 | | | 3.96 | | | |
| 133 | 0 | -7.42 | | | | | 1.89 | |
| 134 | 3 | -0.52 | | | | 3.81 | | |
| 138 | 4 | -0.23 | | | | 3.89 | | |
| 140 | 2 | 1.35 | | | 4.33 | | | |
| 141 | 4 | 0.46 | | | | 4.08 | | |
| 142 | 2 | -1.34 | | | | 3.58 | | |
| 143 | 4 | 0.02 | | | | 3.96 | | |
| 145 | 4 | -0.41 | | | | 3.84 | | |
| 146 | 4 | 0.02 | | | | 3.96 | | |
| 154 | 4 | -0.12 | | | | 3.92 | | |
| 158 | 3 | 0.85 | | | | | 4.19 | |
| 180 | 4 | -0.05 | | | | 3.94 | | |
| 190 | 4 | -0.48 | | | 3.82 | | | |
| 209 | 0 | -13.18 | | | 0.29 | | | |
| 212 | 2 | -1.27 | | | | 3.60 | | |
| 213 | 1 | 1.97 | 4.50 | | | | | |
| 215 | 2 | -1.24 | | | | 3.61 | | |
| 217 | 4 | 0.17 | | | 4.00 | | | |

| Lab | Rating | Z-value | 0 | 20 | 22 | 22n | 22p | 40 |
|-----|--------|---------|------|------|------|-----|------|------|
| 221 | 3 | 0.92 | | 4.21 | | | | |
| 224 | 0 | 12.96 | 7.56 | | | | | |
| 241 | 3 | -0.98 | | | | | | 3.68 |
| 252 | 3 | 0.56 | 4.11 | | | | | |
| 282 | 0 | 2.54 | | | | | 4.66 | |
| 284 | 0 | 3.51 | | | 4.93 | | | |
| 285 | 2 | -1.42 | 3.56 | | | | | |
| 289 | 4 | -0.41 | | | | | 3.84 | |
| 290 | 2 | -1.31 | | | 3.59 | | | |

Table 16. Statistical summary of reported data for standard reference water sample N-53 (nutrient constituents)--Continued
 NO₃ + NO₂ as N (Nitrate + nitrite as nitrogen) mg/L



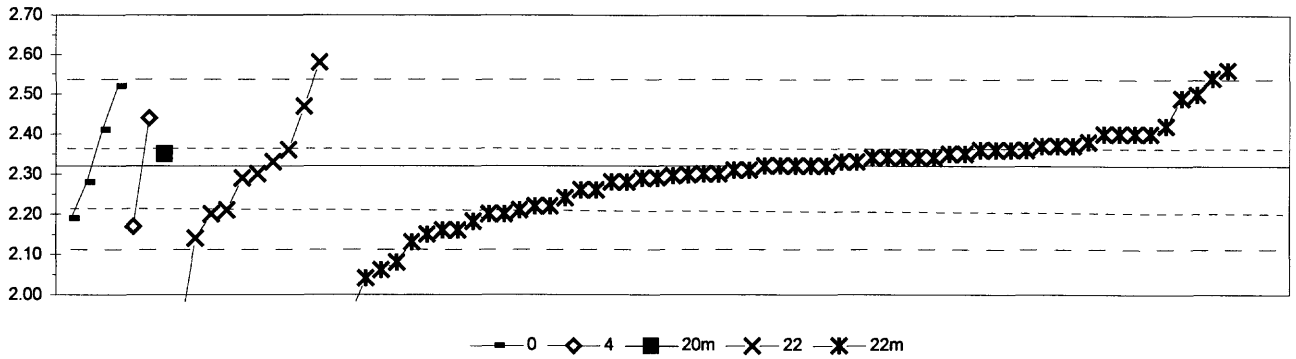
| | | | | | | | |
|-----------------------|-------------------------------------|------|------|------|------|------|------|
| 0. Other | 22cd. Cd diazotization | | | | | | |
| 7. Ion chromatography | 22h. Color: hydrazine diazotization | | | | | | |
| 22. Colorimetric | 22sulf. Color: sulfanilamide | | | | | | |
| | N = | 8 | 14 | 14 | 43 | 5 | 4 |
| | Minimum = | 2.40 | 1.45 | 2.48 | 1.15 | 2.32 | 2.28 |
| | Maximum = | 5.50 | 5.60 | 2.89 | 2.88 | 2.99 | 2.65 |
| | Median = | 2.63 | 2.58 | 2.60 | 2.57 | | |
| | F-pseudosigma = | 0.45 | 0.10 | 0.15 | 0.08 | | |

MPV = 2.57
 F-pseudosigma = 0.13
 N = 88
 Hu = 2.63
 HI = 2.50

| Lab | Rating | Z-value | 0 | 7 | 22 | 22cd | 22h | 22sulf |
|-----|--------|---------|---|------|------|------|------|--------|
| 1 | 1 | 1.86 | | | 2.81 | | | |
| 9 | 4 | -0.16 | | | | 2.55 | | |
| 10 | 4 | 0.00 | | | | 2.57 | | |
| 11 | 4 | 0.39 | | | | | | 2.62 |
| 12 | 4 | 0.39 | | | | 2.62 | | |
| 13 | 4 | 0.00 | | 2.57 | | | | |
| 16 | 0 | -2.25 | | | | | | 2.28 |
| 18 | 4 | -0.08 | | | | 2.56 | | |
| 19 | 4 | 0.00 | | | | 2.57 | | |
| 23 | 2 | -1.24 | | | | 2.41 | | |
| 36 | 4 | 0.00 | | | | 2.57 | | |
| 38 | 4 | -0.07 | | | | 2.56 | | |
| 42 | 0 | -8.71 | | 1.45 | | | | |
| 45 | 4 | 0.31 | | | | 2.61 | | |
| 46 | 4 | -0.19 | | | | 2.55 | | |
| 48 | 1 | -1.94 | | | | | 2.32 | |
| 51 | 3 | 0.85 | | 2.68 | | | | |
| 53 | 0 | 2.48 | | 2.89 | | | | |
| 55 | 4 | -0.23 | | | 2.54 | | | |
| 59 | 4 | -0.23 | | | | 2.54 | | |
| 61 | 2 | -1.32 | | 2.40 | | | | |
| 64 | 4 | 0.31 | | | | 2.61 | | |
| 68 | 2 | 1.24 | | | 2.73 | | | |
| 69 | 4 | 0.08 | | | | 2.58 | | |
| 70 | 4 | 0.00 | | | | 2.57 | | |
| 81 | 4 | 0.31 | | | | | 2.61 | |
| 83 | 3 | -0.70 | | | 2.48 | | | |
| 84 | 2 | -1.16 | | 2.42 | | | | |
| 85 | 3 | 0.54 | | | | 2.64 | | |
| 86 | 4 | 0.00 | | | | 2.57 | | |
| 87 | 3 | -0.70 | | | | 2.48 | | |
| 89 | 3 | 1.01 | | | | 2.70 | | |
| 90 | 0 | 3.26 | | | | | 2.99 | |
| 91 | 4 | 0.23 | | | | 2.60 | | |
| 92 | 0 | -2.87 | | | | 2.20 | | |
| 96 | 4 | 0.23 | | | | 2.60 | | |
| 97 | 0 | -11.01 | | | | 1.15 | | |
| 102 | 4 | -0.31 | | | | 2.53 | | |
| 104 | 3 | 0.67 | | | | 2.66 | | |
| 105 | 4 | -0.39 | | | 2.52 | | | |
| 107 | 4 | 0.31 | | | | 2.61 | | |
| 111 | 4 | 0.08 | | 2.58 | | | | |
| 113 | 4 | -0.47 | | | | 2.51 | | |
| 114 | 4 | 0.16 | | | | 2.59 | | |
| 118 | 2 | -1.40 | | | | | 2.39 | |
| 119 | 4 | 0.31 | | | | 2.61 | | |
| 127 | 4 | -0.31 | | 2.53 | | | | |
| 129 | 4 | 0.40 | | 2.62 | | | | |
| 133 | 3 | -0.93 | | | | 2.45 | | |
| 134 | 4 | 0.39 | | | | 2.62 | | |

| Lab | Rating | Z-value | 0 | 7 | 22 | 22cd | 22h | 22sulf |
|-----|--------|---------|------|------|------|------|-----|--------|
| 138 | 3 | -0.70 | | | | | | 2.48 |
| 140 | 3 | 0.86 | | | 2.68 | | | |
| 141 | 4 | -0.08 | | | | | | 2.56 |
| 142 | 3 | 0.70 | | | 2.66 | | | |
| 143 | 3 | -0.62 | | | | | | 2.49 |
| 145 | 3 | -0.54 | | | | | | 2.50 |
| 146 | 0 | 2.40 | | | | | | 2.88 |
| 149 | 4 | 0.23 | | 2.60 | | | | |
| 151 | 3 | -0.70 | | | | 2.48 | | |
| 154 | 0 | 2.09 | | | | | | 2.84 |
| 158 | 4 | 0.09 | | | | | | 2.58 |
| 180 | 3 | -0.70 | | | | | | 2.48 |
| 183 | 0 | 22.71 | 5.50 | | | | | |
| 185 | 4 | 0.00 | | | | | | 2.57 |
| 190 | 4 | -0.23 | | | 2.54 | | | |
| 191 | 4 | 0.00 | 2.57 | | | | | |
| 193 | 0 | -2.64 | | | | | | 2.23 |
| 203 | 4 | -0.16 | | | | | | 2.55 |
| 209 | 0 | 23.49 | | 5.60 | | | | |
| 212 | 4 | 0.23 | | | | | | 2.60 |
| 215 | 4 | 0.47 | | | | | | 2.63 |
| 217 | 4 | 0.23 | | | | 2.60 | | |
| 220 | 3 | -0.62 | | | | | | 2.49 |
| 221 | 0 | 2.48 | | | | 2.89 | | |
| 224 | 3 | 0.95 | | 2.69 | | | | |
| 234 | 3 | -0.54 | | 2.50 | | | | |
| 241 | 4 | -0.23 | | 2.54 | | | | |
| 247 | 1 | -1.63 | | 2.36 | | | | |
| 252 | 3 | 0.85 | 2.68 | | | | | |
| 255 | 4 | -0.08 | | | | | | 2.56 |
| 282 | 3 | 0.62 | | | | | | 2.65 |
| 284 | 2 | 1.32 | | | 2.74 | | | |
| 285 | 3 | -0.70 | 2.48 | | | | | |
| 289 | 3 | -0.62 | | | | | | 2.49 |
| 290 | 4 | -0.31 | | | 2.53 | | | |
| 291 | 0 | 4.88 | 3.20 | | | | | |
| 292 | 3 | 0.54 | | 2.64 | | | | |
| 294 | 2 | -1.32 | 2.40 | | | | | |

Table 16. Statistical summary of reported data for standard reference water sample N-53 (nutrient constituents)--Continued
total P as P (total Phosphorus as phosphorus) mg/L



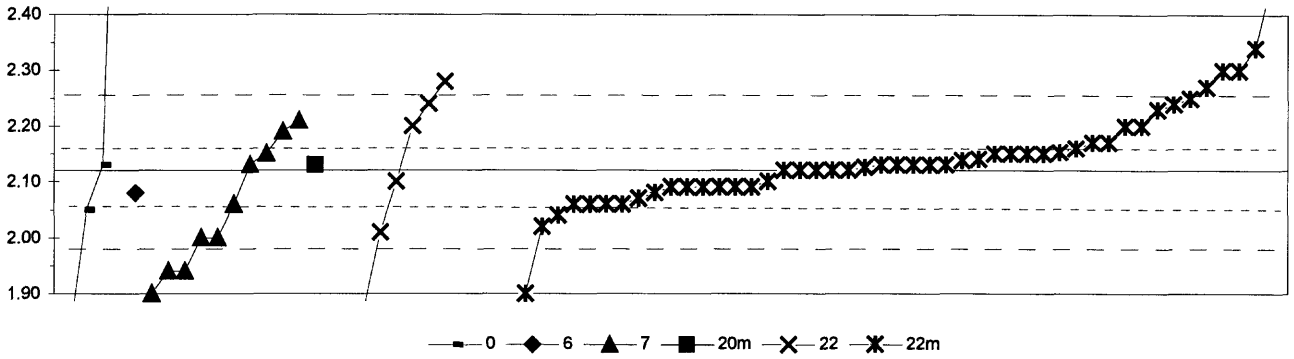
| 0. Other | | 22. Colorimetric | | | | | |
|-------------------------------|--------|-----------------------------|------|------|------|------|------|
| 4. ICP | | 22m. Color:phosphomolybdate | | | | | |
| 20m. Titrate:phosphomolybdate | | | | | | | |
| Lab | Rating | N = | 0 | 4 | 20m | 22 | |
| | | 4 | 2 | 1 | 10 | 59 | |
| | | Minimum = | 2.19 | 2.17 | 2.35 | 1.90 | 1.70 |
| | | Maximum = | 2.52 | 2.44 | | 2.58 | 2.56 |
| | | Median = | | | | 2.30 | 2.32 |
| | | F-pseudosigma = | | | | 0.12 | 0.10 |

MPV = 2.32
F-pseudosigma = 0.11
N = 76
Hu = 2.36
HI = 2.22

| Lab | Rating | Z-value | 0 | 4 | 20m | 22 | 22m |
|-----|--------|---------|------|------|------|------|-----|
| 1 | 2 | 1.40 | | | | 2.47 | |
| 10 | 4 | -0.19 | | | | 2.30 | |
| 11 | 0 | -3.44 | | | | 1.95 | |
| 12 | 3 | -0.56 | | | | 2.26 | |
| 13 | 2 | -1.02 | | | | 2.21 | |
| 16 | 3 | 0.74 | | | | 2.40 | |
| 18 | 4 | -0.37 | | | | 2.28 | |
| 19 | 4 | -0.28 | | | | 2.29 | |
| 22 | 2 | -1.28 | | | | 2.18 | |
| 23 | 3 | -0.93 | | | | 2.22 | |
| 36 | 1 | -1.58 | | | | 2.15 | |
| 38 | 4 | -0.20 | | | | 2.30 | |
| 46 | 4 | -0.09 | | | | 2.31 | |
| 48 | 2 | -1.12 | | | | 2.20 | |
| 51 | 4 | 0.28 | | | | 2.35 | |
| 55 | 0 | 2.42 | | | 2.58 | | |
| 59 | 1 | 1.67 | | | | 2.50 | |
| 61 | 3 | 0.84 | 2.41 | | | | |
| 64 | 4 | 0.47 | | | | 2.37 | |
| 68 | 4 | 0.37 | | | 2.36 | | |
| 70 | 4 | 0.47 | | | | 2.37 | |
| 81 | 1 | -1.77 | | | | 2.13 | |
| 83 | 2 | -1.40 | | 2.17 | | | |
| 85 | 4 | -0.28 | | | | 2.29 | |
| 86 | 2 | 1.12 | | 2.44 | | | |
| 87 | 1 | 2.05 | | | | 2.54 | |
| 89 | 4 | 0.37 | | | | 2.36 | |
| 91 | 4 | 0.00 | | | | 2.32 | |
| 92 | 3 | -0.56 | | | | 2.26 | |
| 96 | 2 | -1.12 | | | | 2.20 | |
| 97 | 0 | -5.77 | | | | 1.70 | |
| 102 | 2 | -1.49 | | | | 2.16 | |
| 104 | 4 | -0.23 | | | | 2.30 | |
| 105 | 4 | 0.09 | | | 2.33 | | |
| 107 | 4 | 0.37 | | | | 2.36 | |
| 111 | 0 | -2.60 | | | | 2.04 | |
| 113 | 3 | -0.93 | | | | 2.22 | |
| 114 | 4 | 0.00 | | | | 2.32 | |
| 118 | 4 | 0.19 | | | | 2.34 | |
| 119 | 3 | 0.56 | | | | 2.38 | |
| 127 | 4 | 0.00 | | | | 2.32 | |
| 129 | 4 | -0.19 | | | | 2.30 | |
| 133 | 4 | 0.28 | | | 2.35 | | |
| 134 | 2 | -1.49 | | | | 2.16 | |
| 138 | 4 | 0.00 | | | | 2.32 | |
| 140 | 0 | -3.91 | | | 1.90 | | |
| 141 | 3 | -0.74 | | | | 2.24 | |
| 142 | 4 | 0.47 | | | | 2.37 | |
| 143 | 0 | -2.23 | | | | 2.08 | |
| 145 | 4 | 0.19 | | | | 2.34 | |

| Lab | Rating | Z-value | 0 | 4 | 20m | 22 | 22m |
|-----|--------|---------|------|---|-----|------|------|
| 146 | 4 | 0.09 | | | | | 2.33 |
| 151 | 0 | -2.42 | | | | | 2.06 |
| 154 | 2 | -1.02 | | | | 2.21 | |
| 158 | 4 | 0.37 | | | | | 2.36 |
| 180 | 3 | 0.93 | | | | | 2.42 |
| 183 | 4 | -0.09 | | | | | 2.31 |
| 185 | 0 | 2.23 | | | | | 2.56 |
| 190 | 4 | -0.28 | | | | 2.29 | |
| 203 | 4 | 0.37 | | | | | 2.36 |
| 212 | 3 | 0.74 | | | | | 2.40 |
| 213 | 4 | 0.28 | | | | | 2.35 |
| 215 | 4 | 0.09 | | | | | 2.33 |
| 217 | 2 | -1.12 | | | | 2.20 | |
| 221 | 4 | -0.19 | | | | 2.30 | |
| 224 | 4 | -0.37 | | | | | 2.28 |
| 234 | 4 | 0.19 | | | | | 2.34 |
| 241 | 3 | 0.74 | | | | | 2.40 |
| 252 | 1 | 1.86 | 2.52 | | | | |
| 282 | 3 | 0.74 | | | | | 2.40 |
| 284 | 1 | -1.67 | | | | 2.14 | |
| 285 | 2 | -1.21 | 2.19 | | | | |
| 287 | 1 | 1.58 | | | | | 2.49 |
| 289 | 4 | 0.19 | | | | | 2.34 |
| 290 | 4 | 0.00 | | | | | 2.32 |
| 292 | 4 | 0.19 | | | | | 2.34 |
| 294 | 4 | -0.37 | 2.28 | | | | |

Table 16. Statistical summary of reported data for standard reference water sample N-53 (nutrient constituents)--Continued
 PO₄ as P (Orthophosphate as phosphorus) mg/L



| | | | | | | | |
|-----------------------|-----------------|--------------------------------|------|------|------|------|------|
| 0. Other | | 20m: Titrate: phosphomolybdate | | | | | |
| 6. ICP/MS | | 22. Colorimetric | | | | | |
| 7. Ion chromatography | | 22m. Color:phosphomolybdate | | | | | |
| | N = | | 4 | 1 | 10 | 1 | 8 |
| | Minimum = | | 1.83 | 2.08 | 1.90 | 2.13 | 0.56 |
| | Maximum = | | 3.13 | | 2.21 | | 2.28 |
| | Median = | | | | 2.03 | | 2.06 |
| | F-pseudosigma = | | | | 0.16 | | 0.35 |
| | | | | | | | 0.05 |

MPV = 2.12
 F-pseudosigma = 0.11
 N = 75
 Hu = 2.16
 HI = 2.06

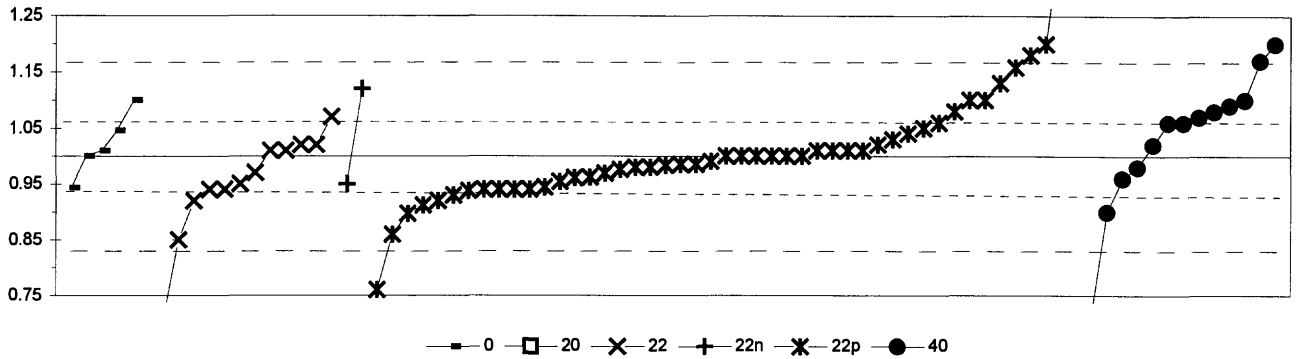
| Lab | Rating | Z-value | 0 | 6 | 7 | 20m | 22 | 22m |
|-----|--------|---------|------|---|------|------|------|------|
| 1 | 1 | 1.51 | | | | | 2.28 | |
| 9 | 4 | -0.28 | | | | | | 2.09 |
| 10 | 4 | 0.00 | | | | | | 2.12 |
| 11 | 0 | -2.08 | | | | | | 1.90 |
| 12 | 4 | 0.28 | | | | | | 2.15 |
| 13 | 1 | -1.70 | | | 1.94 | | | |
| 16 | 4 | 0.09 | | | | | | 2.13 |
| 18 | 4 | 0.09 | | | | | | 2.13 |
| 19 | 4 | 0.28 | | | | | | 2.15 |
| 23 | 4 | 0.47 | | | | | | 2.17 |
| 26 | 4 | 0.28 | | | 2.15 | | | |
| 33 | 2 | -1.13 | | | 2.00 | | | |
| 36 | 1 | 1.70 | | | | | | 2.30 |
| 38 | 4 | 0.17 | | | | | | 2.14 |
| 46 | 4 | 0.05 | | | | | | 2.13 |
| 48 | 4 | 0.38 | | | | | | 2.16 |
| 51 | 4 | 0.00 | | | | | | 2.12 |
| 53 | 2 | 1.23 | | | | | | 2.25 |
| 59 | 4 | -0.28 | | | | | | 2.09 |
| 61 | 0 | -2.74 | 1.83 | | | | | |
| 70 | 4 | -0.28 | | | | | | 2.09 |
| 81 | 4 | 0.28 | | | | | | 2.15 |
| 83 | 0 | -14.72 | | | | 0.56 | | |
| 84 | 2 | -1.13 | | | 2.00 | | | |
| 85 | 4 | 0.09 | | | | | | 2.13 |
| 87 | 4 | -0.38 | | | | | | 2.08 |
| 89 | 4 | 0.09 | | | | | | 2.13 |
| 92 | 4 | 0.47 | | | | | | 2.17 |
| 96 | 4 | -0.19 | | | | | | 2.10 |
| 97 | 0 | -4.15 | | | | | | 1.68 |
| 102 | 3 | -0.57 | | | | | | 2.06 |
| 104 | 4 | 0.31 | | | | | | 2.15 |
| 105 | 3 | 0.75 | | | | | 2.20 | |
| 107 | 3 | -0.75 | | | | | | 2.04 |
| 113 | 4 | -0.28 | | | | | | 2.09 |
| 118 | 4 | 0.00 | | | | | | 2.12 |
| 119 | 4 | 0.19 | | | | | | 2.14 |
| 127 | 3 | 0.66 | | | 2.19 | | | |
| 129 | 4 | 0.00 | | | | | | 2.12 |
| 133 | 4 | 0.09 | | | | 2.13 | | |
| 134 | 4 | 0.28 | | | | | | 2.15 |
| 138 | 4 | 0.09 | | | | | | 2.13 |
| 140 | 0 | -2.36 | | | | | 1.87 | |
| 141 | 0 | 2.08 | | | | | | 2.34 |
| 142 | 3 | -0.94 | | | | | | 2.02 |
| 143 | 2 | 1.42 | | | | | | 2.27 |
| 145 | 4 | -0.47 | | | | | | 2.07 |
| 146 | 0 | 3.21 | | | | | | 2.46 |
| 149 | 3 | -0.57 | | | 2.06 | | | |
| 151 | 3 | 0.85 | | | 2.21 | | | |

| Lab | Rating | Z-value | 0 | 6 | 7 | 20m | 22 | 22m |
|-----|--------|---------|------|------|------|-----|------|------|
| 154 | 4 | -0.42 | | | | | | 2.09 |
| 158 | 3 | -0.84 | | | | | | 2.06 |
| 180 | 3 | -0.84 | | | | | | 2.06 |
| 183 | 1 | 1.54 | | | | | | 2.23 |
| 185 | 0 | -5.45 | | | | | | 1.73 |
| 190 | 1 | -1.54 | | | | | | 2.01 |
| 191 | 3 | -0.56 | | 2.08 | | | | |
| 203 | 2 | 1.12 | | | | | | 2.20 |
| 212 | 0 | 2.52 | | | | | | 2.30 |
| 213 | 4 | 0.00 | | | | | | 2.12 |
| 215 | 3 | -0.84 | | | | | | 2.06 |
| 217 | 4 | -0.28 | | | | | | 2.10 |
| 221 | 1 | 1.68 | | | | | | 2.24 |
| 224 | 1 | 1.68 | | | | | | 2.24 |
| 234 | 0 | -3.08 | | | 1.90 | | | |
| 241 | 4 | 0.14 | | | 2.13 | | | |
| 247 | 0 | -2.52 | | | 1.94 | | | |
| 252 | 3 | -0.98 | 2.05 | | | | | |
| 282 | 2 | 1.12 | | | | | | 2.20 |
| 284 | 0 | -6.85 | | | | | 1.63 | |
| 285 | 0 | 14.12 | 3.13 | | | | | |
| 287 | 0 | -14.26 | | | | | | 1.10 |
| 289 | 0 | -4.75 | | | | | | 1.78 |
| 292 | 4 | -0.42 | | | | | | 2.09 |
| 294 | 4 | 0.14 | 2.13 | | | | | |

Table 17. *Statistical summary of reported data for standard reference water sample N-54 (nutrient constituentss)*

| Definition of analytical methods, abbreviations, and symbols | | |
|--|---|---|
| <u>Analytical methods</u> | | |
| 0. Other/Not reported | = | |
| 4. ICP | = | inductively coupled plasma |
| 5. DCP | = | direct coupled plasma |
| 7. IC | = | ion chromatography |
| 20. Titrate: color | = | titration: colorimetric (color reagent specified) |
| 21. Titrate: electro | = | titration: electrometric |
| 22. Color: | = | colorimetric [color reagent specified] |
| 40. Ion electrode | = | ion selective electrode |
| <u>Abbreviations and symbols</u> | | |
| | N = | number of samples |
| | MPV = | most probable value |
| | F-pseudosigma = | nonparametric statistic deviation |
| | Hu = | upper hinge value |
| | Hi = | lower hinge value |
| | mg/L = | milligrams per liter |
| | Lab = | laboratory code number |
| | NR = | not rated, less than value reported |
| | < = | less than |
| <u>Constituent</u> | | |
| NH ₃ as N | Ammonia as nitrogen | <u>page</u> 135 |
| NH ₃ +Org N as N | Ammonia plus organic nitrogen as nitrogen | 136 |
| NO ₃ +NO ₂ as N | Nitrate plus nitrite as nitrogen | 137 |
| Total P as P | Total Phosphorus as phosphorus | 138 |
| PO ₄ as P | Orthophosphate as phosphorus | 139 |

Table 17. Statistical summary of reported data for standard reference water sample N-54 (nutrient constituents)--Continued
 NH₃ as N (Ammonia as nitrogen) mg/L



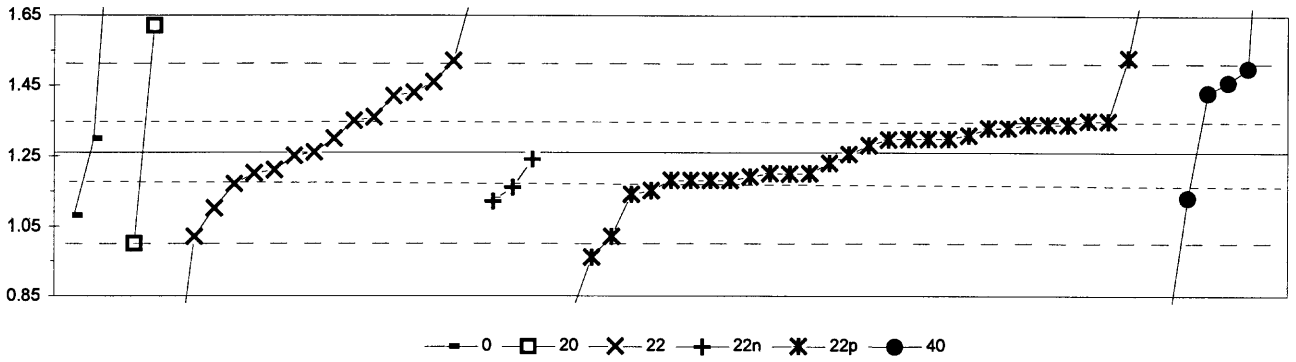
| | N = | 5 | 0 | 12 | 2 | 46 | 14 |
|-----------------|-----|------|-----|------|------|------|------|
| Minimum = | | 0.94 | < 1 | 0.70 | 0.95 | 0.76 | 0.66 |
| Maximum = | | 1.10 | | 1.07 | 1.12 | 1.40 | 1.20 |
| Median = | | | | 0.96 | | 1.00 | 1.06 |
| F-pseudosigma = | | | | 0.06 | | 0.06 | 0.10 |

MPV = 1.00
 F-pseudosigma = 0.08
 N = 79
 Hu = 1.06
 HI = 0.94

| Lab | Rating | Z-value | 0 | 20 | 22 | 22n | 22p | 40 |
|-----|--------|---------|------|------|------|------|------|----|
| 1 | 4 | 0.12 | | | 1.01 | | | |
| 3 | 3 | -0.97 | | | 0.92 | | | |
| 10 | 4 | -0.24 | | | | | 0.98 | |
| 11 | 0 | 2.18 | | | | 1.18 | | |
| 12 | 2 | 1.21 | | | | 1.10 | | |
| 13 | 4 | -0.38 | | | | 0.97 | | |
| 16 | 1 | -1.81 | | 0.85 | | | | |
| 18 | 3 | 0.97 | | | | 1.08 | | |
| 19 | 4 | -0.12 | | | | 0.99 | | |
| 23 | 4 | -0.24 | | | | 0.98 | | |
| 26 | 3 | -0.69 | 0.94 | | | | | |
| 33 | 4 | -0.24 | | | | 0.98 | | |
| 36 | 3 | 0.97 | | | | | 1.08 | |
| 38 | 1 | 1.91 | | | | 1.16 | | |
| 39 | 0 | -2.90 | | | | 0.76 | | |
| 45 | 3 | 0.73 | | | | | 1.06 | |
| 46 | 2 | -1.25 | | | | 0.90 | | |
| 48 | 1 | -1.69 | | | | 0.86 | | |
| 55 | 4 | -0.36 | | 0.97 | | | | |
| 57 | 2 | -1.21 | | | | | 0.90 | |
| 59 | 4 | 0.48 | | | | 1.04 | | |
| 61 | 2 | 1.21 | 1.10 | | | | | |
| 64 | 4 | 0.12 | | | | 1.01 | | |
| 68 | 4 | 0.12 | | 1.01 | | | | |
| 70 | 3 | -0.85 | | | | 0.93 | | |
| 76 | 4 | -0.20 | | | | 0.98 | | |
| 80 | 2 | 1.45 | | | 1.12 | | | |
| 81 | 1 | 1.57 | | | | 1.13 | | |
| 83 | 3 | -0.73 | | 0.94 | | | | |
| 85 | 4 | 0.00 | | | | 1.00 | | |
| 86 | 4 | 0.00 | | | | 1.00 | | |
| 87 | 3 | 0.60 | | | | 1.05 | | |
| 89 | 3 | -0.97 | | | | 0.92 | | |
| 90 | 0 | 4.84 | | | | 1.40 | | |
| 91 | 3 | -0.73 | | | | 0.94 | | |
| 92 | 2 | 1.21 | | | | | 1.10 | |
| 96 | 4 | 0.00 | | | | 1.00 | | |
| 102 | 0 | 2.42 | | | | 1.20 | | |
| 104 | 4 | -0.18 | | | | 0.99 | | |
| 105 | 3 | -0.60 | | 0.95 | | | | |
| 107 | 3 | -0.56 | | | | 0.95 | | |
| 108 | 3 | 0.73 | | | | | 1.06 | |
| 111 | 4 | 0.24 | | | | 1.02 | | |
| 114 | 4 | -0.48 | | | | | 0.96 | |
| 118 | 3 | -0.73 | | | | 0.94 | | |
| 119 | 4 | 0.24 | | | | | 1.02 | |
| 120 | 3 | -0.73 | | 0.94 | | | | |
| 127 | 4 | 0.00 | | | | 1.00 | | |
| 129 | 3 | -0.60 | | | 0.95 | | | |
| 133 | 0 | -3.46 | | | | | 0.71 | |

| Lab | Rating | Z-value | 0 | 20 | 22 | 22n | 22p | 40 |
|-----|--------|---------|------|----|-------|-----|------|------|
| 138 | 3 | -0.75 | | | | | 0.94 | |
| 140 | 3 | -0.73 | | | 0.94 | | | |
| 141 | 3 | -0.68 | | | | | 0.94 | |
| 142 | 4 | 0.12 | | | | | 1.01 | |
| 143 | 3 | -0.73 | | | | | 0.94 | |
| 145 | 4 | 0.36 | | | | | 1.03 | |
| 146 | 2 | -1.06 | | | | | 0.91 | |
| 154 | 4 | 0.12 | | | | | 1.01 | |
| 158 | 4 | -0.18 | | | | | 0.99 | |
| 180 | 4 | -0.46 | | | | | 0.96 | |
| 183 | 0 | 2.42 | | | | | | 1.20 |
| 185 | 4 | 0.00 | | | | | 1.00 | |
| 190 | 4 | 0.24 | | | 1.02 | | | |
| 203 | 3 | 0.73 | | | | | 1.06 | |
| 212 | 2 | 1.21 | | | | | 1.10 | |
| 213 | NR | | < 1 | | | | | |
| 215 | 3 | -0.73 | | | | | 0.94 | |
| 220 | 3 | -0.08 | | | 0.935 | | | |
| 221 | 0 | -4.07 | | | | | | 0.66 |
| 224 | 3 | 0.56 | 1.05 | | | | | |
| 234 | 3 | 0.85 | | | | | | 1.07 |
| 241 | 2 | 1.09 | | | | | | 1.09 |
| 252 | 3 | 0.85 | | | 1.07 | | | |
| 255 | 4 | 0.00 | | | | | 1.00 | |
| 282 | 4 | 0.12 | | | | | 1.01 | |
| 284 | 0 | -3.62 | | | 0.70 | | | |
| 285 | 4 | 0.12 | 1.01 | | | | | |
| 289 | 4 | -0.47 | | | | | 0.96 | |
| 290 | 4 | 0.24 | | | 1.02 | | | |
| 292 | 0 | 2.06 | | | | | | 1.17 |
| 294 | 4 | 0.00 | 1.00 | | | | | |

Table 17. Statistical summary of reported data for standard reference water sample N-54 (nutrient constituents)--Continued
 NH₃ + Org. N as N (Ammonia + Organic nitrogen as nitrogen) mg/L



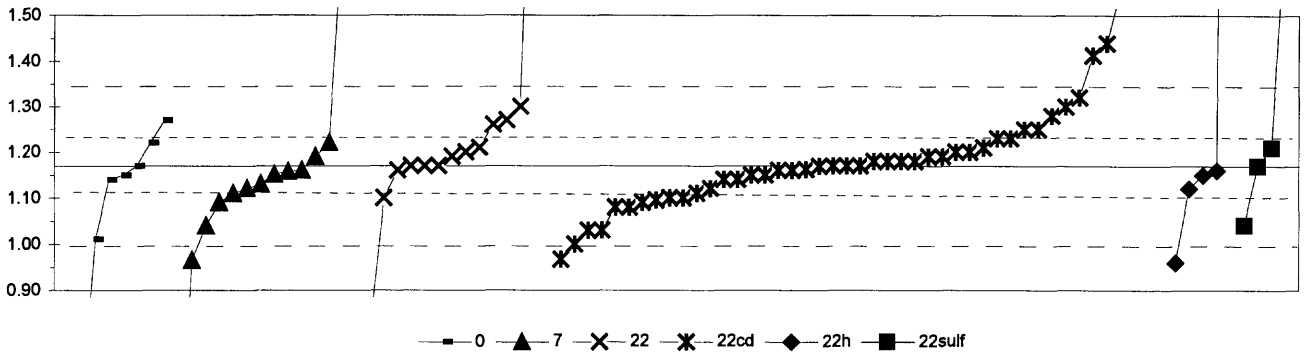
| | | | | | | | |
|---------------------------|-----------------------------|------|------|------|------|------|------|
| 0. Other | 22n. Color: Nesslerization | | | | | | |
| 20. Titrate: colorimetric | 22p. Color: phenate | | | | | | |
| 22. Colorimetric | 40. Ion selective electrode | | | | | | |
| | N = | 3 | 2 | 16 | 3 | 31 | 6 |
| | Minimum = | 1.08 | 1.00 | 0.57 | 1.12 | 0.75 | 0.74 |
| | Maximum = | 2.13 | 1.62 | 1.73 | 1.24 | 1.80 | 2.40 |
| | Median = | | | 1.28 | | 1.26 | |
| | F-pseudostigma = | | | 0.18 | | 0.11 | |

MPV = 1.26
 F-pseudostigma = 0.13
 N = 61
 Hu = 1.35
 HI = 1.17

| Lab | Rating | Z-value | 0 | 20 | 22 | 22n | 22p | 40 |
|-----|--------|---------|------|------|------|------|------|------|
| 1 | 4 | 0.30 | | | 1.30 | | | |
| 3 | 1 | -1.95 | | 1.00 | | | 1.18 | |
| 10 | 3 | -0.60 | | | | | 1.18 | |
| 11 | 1 | 1.95 | | | 1.52 | | | |
| 12 | 0 | -3.45 | | | | | 0.80 | |
| 16 | 1 | -1.80 | | | 1.02 | | | |
| 18 | 3 | 0.60 | | | | | 1.34 | |
| 23 | 4 | 0.00 | | | 1.26 | | | |
| 33 | 3 | 0.60 | | | | | 1.34 | |
| 36 | 2 | -1.20 | | | 1.10 | | | |
| 38 | 3 | -0.75 | | | | 1.16 | | |
| 45 | 2 | 1.50 | | | | | | 1.46 |
| 46 | 4 | -0.45 | | | | | 1.20 | |
| 48 | 4 | -0.45 | | | | | 1.20 | |
| 55 | 4 | -0.45 | | | 1.20 | | | |
| 57 | 0 | 8.54 | | | | | | 2.40 |
| 59 | 4 | 0.30 | | | | | 1.30 | |
| 61 | 4 | 0.30 | 1.30 | | | | | |
| 68 | 2 | 1.27 | | | 1.43 | | | |
| 70 | 3 | 0.60 | | | | | 1.34 | |
| 81 | 3 | 0.52 | | | | | 1.33 | |
| 85 | 3 | 0.67 | | | | | 1.35 | |
| 87 | 1 | 2.02 | | | | | 1.53 | |
| 89 | 3 | -0.52 | | | | | 1.19 | |
| 90 | 0 | -3.82 | | | | | 0.75 | |
| 91 | 3 | 0.67 | | | | | 1.35 | |
| 96 | 3 | -0.60 | | | | | 1.18 | |
| 102 | 3 | -0.60 | | | | | 1.18 | |
| 104 | 4 | 0.28 | | | | | 1.30 | |
| 105 | 4 | -0.37 | | | 1.21 | | | |
| 108 | 3 | -0.82 | | | | | 1.15 | |
| 113 | 3 | 0.52 | | | | | 1.33 | |
| 118 | 3 | 0.75 | | | 1.36 | | | |
| 119 | 1 | 1.80 | | | | | | 1.50 |
| 127 | 3 | -0.60 | | | | | 1.18 | |
| 129 | 4 | -0.15 | | | | 1.24 | | |
| 133 | 0 | -3.89 | | | | | | 0.74 |
| 134 | 4 | 0.30 | | | | | 1.30 | |
| 138 | 3 | -0.67 | | | 1.17 | | | |
| 140 | 2 | 1.50 | | | 1.46 | | | |
| 141 | 2 | -1.05 | | | | 1.12 | | |
| 142 | 4 | 0.30 | | | | | 1.30 | |
| 143 | 4 | 0.15 | | | | | 1.28 | |
| 145 | 4 | 0.37 | | | | | 1.31 | |
| 146 | 3 | -0.90 | | | | | 1.14 | |
| 154 | 1 | -1.80 | | | | | 1.02 | |
| 158 | 2 | 1.27 | | | | | | 1.43 |
| 180 | 4 | -0.22 | | | | | 1.23 | |
| 190 | 3 | 0.67 | | | 1.35 | | | |
| 209 | 0 | -5.17 | | | 0.57 | | | |

| Lab | Rating | Z-value | 0 | 20 | 22 | 22n | 22p | 40 |
|-----|--------|---------|------|------|------|-----|-----|------|
| 212 | 4 | -0.45 | | | | | | 1.20 |
| 213 | NR | | | < 1 | | | | |
| 215 | 0 | -2.25 | | | | | | 0.96 |
| 221 | 0 | 2.70 | | 1.62 | | | | |
| 224 | 0 | 6.51 | 2.13 | | | | | |
| 241 | 3 | -0.97 | | | | | | 1.13 |
| 252 | 4 | -0.07 | | | 1.25 | | | |
| 282 | 0 | 4.05 | | | | | | 1.80 |
| 284 | 0 | 3.52 | | | 1.73 | | | |
| 285 | 2 | -1.35 | 1.08 | | | | | |
| 289 | 4 | -0.04 | | | | | | 1.26 |
| 290 | 2 | 1.20 | | | 1.42 | | | |

Table 17. Statistical summary of reported data for standard reference water sample N-54 (nutrient constituents)--Continued
 NO₃ + NO₂ as N (Nitrate + nitrite as nitrogen) mg/L



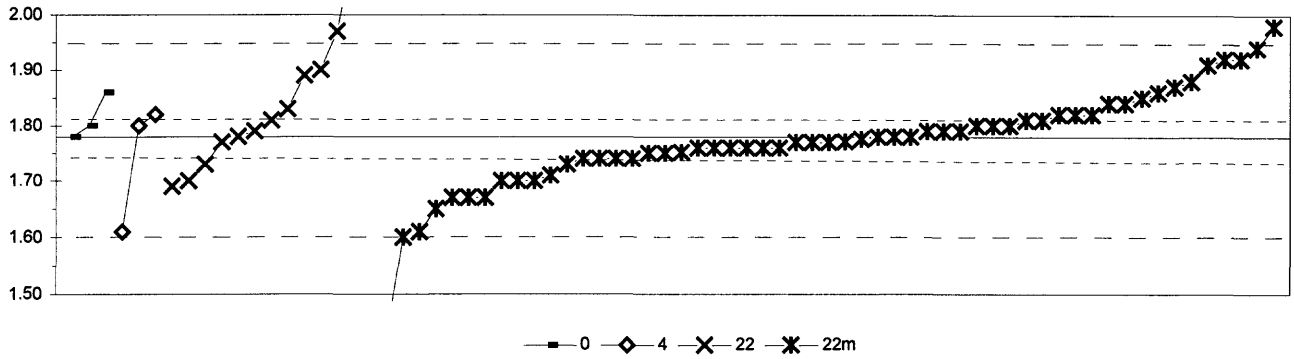
| 0. Other | | 22cd. Cd diazotization | | | | | |
|-----------------------|-----|-------------------------------------|------|------|------|------|------|
| 7. Ion chromatography | | 22h. Color: hydrazine diazotization | | | | | |
| 22. Colorimetric | | 22sulf. Color: sulfanilamide | | | | | |
| | N = | 8 | 14 | 14 | 45 | 5 | 4 |
| Minimum = | | 0.57 | 0.32 | 0.81 | 0.97 | 0.96 | 1.04 |
| Maximum = | | 1.27 | 1.88 | 3.64 | 3.20 | 7.26 | 1.72 |
| Median = | | 1.15 | 1.14 | 1.20 | 1.17 | | |
| F-pseudostigma = | | 0.08 | 0.07 | 0.07 | 0.08 | | |

MPV = 1.17
 F-pseudostigma = 0.09
 N = 90
 Hu = 1.23
 HI = 1.11

| Lab | Rating | Z-value | 0 | 7 | 22 | 22cd | 22h | 22sulf |
|-----|--------|---------|------|------|------|------|------|--------|
| 1 | 4 | 0.45 | | | 1.21 | | | |
| 3 | 4 | 0.34 | | | 1.20 | | | |
| 9 | 4 | 0.00 | | | | 1.17 | | |
| 10 | 4 | 0.22 | | | | 1.19 | | |
| 11 | 0 | 6.18 | | | | | | 1.72 |
| 12 | 4 | -0.34 | | | | 1.14 | | |
| 13 | 4 | 0.22 | | 1.19 | | | | |
| 16 | 2 | -1.45 | | | | | | 1.04 |
| 18 | 3 | -0.67 | | | | 1.11 | | |
| 19 | 2 | 1.24 | | | | 1.28 | | |
| 23 | 4 | -0.22 | | | | 1.15 | | |
| 26 | 3 | 0.56 | 1.22 | | | | | |
| 30 | 4 | -0.11 | | 1.16 | | | | |
| 36 | 4 | -0.11 | | 1.16 | | | | |
| 38 | 0 | 2.73 | | | | 1.41 | | |
| 39 | 4 | -0.45 | | 1.13 | | | | |
| 45 | 4 | 0.00 | | | | 1.17 | | |
| 46 | 4 | -0.09 | | | | 1.16 | | |
| 48 | 0 | -2.36 | | | | | 0.96 | |
| 53 | 1 | -1.79 | 1.01 | | | | | |
| 55 | 2 | 1.01 | | | 1.26 | | | |
| 57 | 0 | 8.21 | | | | 1.90 | | |
| 59 | 4 | -0.34 | | | | 1.14 | | |
| 61 | 2 | 1.12 | 1.27 | | | | | |
| 68 | 4 | 0.00 | | | 1.17 | | | |
| 69 | 4 | -0.11 | | | | 1.16 | | |
| 70 | 1 | -1.57 | | | | 1.03 | | |
| 80 | 0 | -6.75 | 0.57 | | | | | |
| 81 | 4 | -0.11 | | | | | 1.16 | |
| 83 | 3 | -0.79 | | | 1.10 | | | |
| 84 | 0 | -9.58 | | 0.32 | | | | |
| 85 | 4 | 0.22 | | | | 1.19 | | |
| 86 | 0 | 3.04 | | | | 1.44 | | |
| 87 | 4 | 0.11 | | | | 1.18 | | |
| 89 | 4 | 0.34 | | | | 1.20 | | |
| 90 | 3 | -0.56 | | | | | 1.12 | |
| 91 | 1 | -1.91 | | | | 1.00 | | |
| 92 | 3 | 0.90 | | | | 1.25 | | |
| 96 | 4 | 0.11 | | | | 1.18 | | |
| 102 | 4 | 0.11 | | | | 1.18 | | |
| 104 | 4 | -0.01 | | | | 1.17 | | |
| 105 | 4 | 0.22 | | 1.19 | | | | |
| 107 | 3 | 0.90 | | | | 1.25 | | |
| 108 | 1 | -1.57 | | | | 1.03 | | |
| 111 | 3 | -0.67 | | 1.11 | | | | |
| 113 | 0 | -2.28 | | | | 0.97 | | |
| 114 | 0 | 9.22 | | | | 1.99 | | |
| 118 | 4 | -0.22 | | | | | 1.15 | |
| 119 | 3 | -0.79 | | | | 1.10 | | |
| 126 | 4 | 0.45 | | | | 1.21 | | |

| Lab | Rating | Z-value | 0 | 7 | 22 | 22cd | 22h | 22sulf |
|-----|--------|---------|------|------|------|------|------|--------|
| 127 | 3 | -0.56 | | 1.12 | | | | |
| 129 | 4 | -0.21 | | 1.15 | | | | |
| 133 | 0 | 4.38 | | | | | | 1.56 |
| 134 | 4 | 0.00 | | | | | | 1.17 |
| 138 | 3 | -0.90 | | | | | | 1.09 |
| 140 | 0 | -4.02 | | | 0.81 | | | |
| 141 | 3 | -0.56 | | | | | | 1.12 |
| 142 | 4 | 0.00 | | | 1.17 | | | |
| 143 | 4 | 0.34 | | | | | | 1.20 |
| 145 | 2 | -1.01 | | | | | | 1.08 |
| 146 | 1 | 1.69 | | | | | | 1.32 |
| 154 | 2 | 1.46 | | | | | | 1.30 |
| 158 | 0 | 88.46 | | | | | | 7.26 |
| 180 | 4 | -0.22 | | | | | | 1.15 |
| 183 | 0 | -6.18 | 0.62 | | | | | |
| 185 | 2 | -1.01 | | | | | | 1.08 |
| 190 | 4 | 0.00 | | | 1.17 | | | |
| 191 | 4 | -0.22 | 1.15 | | | | | |
| 193 | 3 | 0.67 | | | | | | 1.23 |
| 196 | 0 | 6.30 | | 1.73 | | | | |
| 203 | 4 | 0.00 | | | | | | 1.17 |
| 209 | 0 | 7.98 | | 1.88 | | | | |
| 212 | 3 | -0.79 | | | | | | 1.10 |
| 215 | 4 | 0.11 | | | | | | 1.18 |
| 220 | 3 | 0.67 | | | | | | 1.23 |
| 221 | 2 | 1.46 | | | 1.30 | | | |
| 224 | 4 | -0.15 | | 1.16 | | | | |
| 234 | 3 | 0.56 | | 1.22 | | | | |
| 241 | 2 | -1.46 | | | 1.04 | | | |
| 247 | 0 | -2.30 | | 0.97 | | | | |
| 252 | 0 | 27.77 | | | 3.64 | | | |
| 255 | 4 | -0.11 | | | | | 1.16 | |
| 282 | 4 | 0.45 | | | | | | 1.21 |
| 284 | 0 | 12.82 | | | 2.31 | | | |
| 285 | 4 | 0.00 | 1.17 | | | | | |
| 289 | 3 | -0.84 | | | | | 1.10 | |
| 290 | 2 | 1.12 | | | 1.27 | | | |
| 291 | 0 | 22.82 | | | | | 3.20 | |
| 292 | 3 | -0.90 | | 1.09 | | | | |
| 294 | 4 | -0.34 | 1.14 | | | | | |

Table 17. Statistical summary of reported data for standard reference water sample N-54 (nutrient constituents)—Continued
 total P as P (total Phosphorus as phosphorus) mg/L



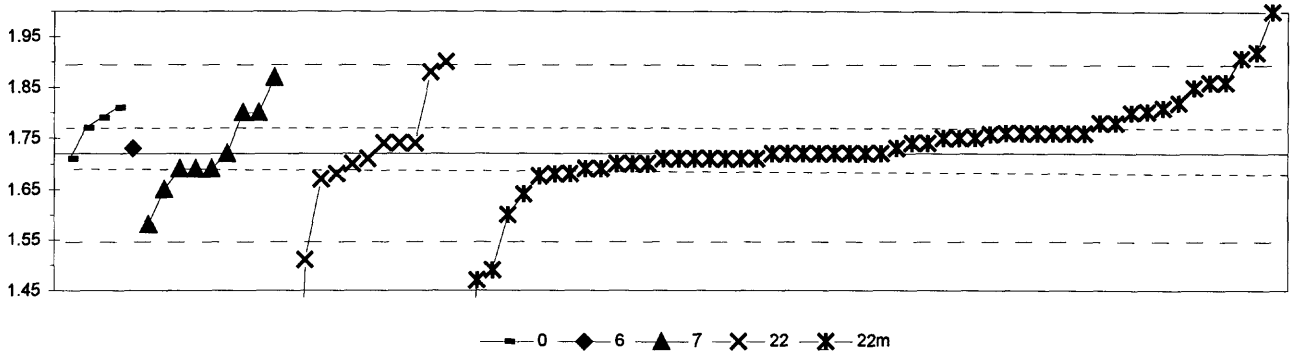
| 0. Other | | 22m. Color:phosphomolybdate | | | | |
|------------------|--|-----------------------------|------|------|------|------|
| 4. ICP | | | | | | |
| 22. Colorimetric | | N = | 3 | 3 | 12 | 56 |
| | | Minimum = | 1.78 | 1.61 | 1.69 | 1.42 |
| | | Maximum = | 1.86 | 1.82 | 2.12 | 1.98 |
| | | Median = | | | 1.80 | 1.77 |
| | | F-pseudosigma = | | | 0.11 | 0.06 |

MPV = 1.78
 F-pseudosigma = 0.09
 N = 74
 Hu = 1.82
 HI = 1.74

| Lab | Rating | Z-value | 0 | 4 | 22 | 22m |
|-----|--------|---------|------|------|------|------|
| 1 | 2 | 1.24 | | | 1.89 | |
| 3 | 4 | -0.90 | | | 1.70 | |
| 10 | 4 | 0.11 | | | | 1.79 |
| 11 | 0 | -4.05 | | | | 1.42 |
| 12 | 2 | -1.24 | | | | 1.67 |
| 13 | 4 | -0.22 | | | | 1.76 |
| 16 | 1 | 1.80 | | | | 1.94 |
| 18 | 4 | -0.45 | | | | 1.74 |
| 19 | 4 | 0.11 | | | | 1.79 |
| 22 | 4 | 0.34 | | | | 1.81 |
| 23 | 2 | -1.24 | | | | 1.67 |
| 36 | 2 | 1.35 | | 1.90 | | |
| 38 | 4 | -0.45 | | | | 1.74 |
| 39 | 2 | 1.01 | | | | 1.87 |
| 46 | 4 | -0.11 | | | | 1.77 |
| 48 | 4 | -0.90 | | | | 1.70 |
| 55 | 4 | -0.11 | | 1.77 | | |
| 57 | 1 | -2.02 | | | | 1.60 |
| 59 | 4 | -0.90 | | | | 1.70 |
| 61 | 4 | 0.00 | 1.78 | | | |
| 68 | 4 | 0.11 | | | 1.79 | |
| 70 | 4 | 0.67 | | | | 1.84 |
| 81 | 4 | -0.45 | | | | 1.74 |
| 83 | 1 | -1.91 | | 1.61 | | |
| 85 | 4 | 0.67 | | | | 1.84 |
| 86 | 4 | 0.45 | | 1.82 | | |
| 87 | 0 | 2.25 | | | | 1.98 |
| 89 | 4 | 0.22 | | | | 1.80 |
| 91 | 4 | 0.45 | | | | 1.82 |
| 92 | 4 | -0.11 | | | | 1.77 |
| 96 | 4 | 0.45 | | | | 1.82 |
| 102 | 4 | -0.22 | | | | 1.76 |
| 104 | 4 | -0.10 | | | | 1.77 |
| 105 | 2 | -1.01 | | | 1.69 | |
| 107 | 4 | 0.79 | | | | 1.85 |
| 108 | 0 | -4.05 | | | | 1.42 |
| 113 | 4 | -0.34 | | | | 1.75 |
| 114 | 4 | 0.22 | | | | 1.80 |
| 118 | 4 | 0.00 | | | | 1.78 |
| 119 | 4 | 0.00 | | | | 1.78 |
| 127 | 4 | 0.22 | | 1.80 | | |
| 129 | 4 | -0.31 | | | | 1.75 |
| 133 | 4 | -0.22 | | | | 1.76 |
| 134 | 4 | 0.90 | | | | 1.86 |
| 138 | 4 | -0.22 | | | | 1.76 |
| 140 | 4 | 0.00 | | | 1.78 | |
| 141 | 4 | -0.90 | | | | 1.70 |
| 142 | 4 | 0.45 | | | | 1.82 |
| 143 | 2 | -1.46 | | | | 1.65 |
| 145 | 4 | -0.79 | | | | 1.71 |

| Lab | Rating | Z-value | 0 | 4 | 22 | 22m |
|-----|--------|---------|------|---|------|------|
| 146 | 4 | -0.34 | | | | 1.75 |
| 154 | 4 | 0.34 | | | 1.81 | |
| 158 | 4 | 0.11 | | | | 1.79 |
| 180 | 2 | -1.24 | | | | 1.67 |
| 185 | 1 | 1.57 | | | | 1.92 |
| 190 | 4 | -0.56 | | | 1.73 | |
| 203 | 2 | 1.12 | | | | 1.88 |
| 212 | 4 | 0.22 | | | | 1.80 |
| 213 | 4 | -0.56 | | | | 1.73 |
| 215 | 4 | -0.11 | | | | 1.77 |
| 221 | 4 | 0.56 | | | 1.83 | |
| 224 | 4 | -0.22 | | | | 1.76 |
| 234 | 1 | -1.91 | | | | 1.61 |
| 241 | 4 | 0.34 | | | | 1.81 |
| 252 | 0 | 2.14 | | | 1.97 | |
| 255 | 4 | -0.45 | | | | 1.74 |
| 282 | 1 | 1.57 | | | | 1.92 |
| 284 | 0 | 3.82 | | | 2.12 | |
| 285 | 4 | 0.90 | 1.86 | | | |
| 287 | 2 | 1.46 | | | | 1.91 |
| 289 | 4 | -0.04 | | | | 1.78 |
| 290 | 4 | 0.00 | | | | 1.78 |
| 292 | 4 | -0.22 | | | | 1.76 |
| 294 | 4 | 0.22 | 1.80 | | | |

Table 17. Statistical summary of reported data for standard reference water sample N-54 (nutrient constituents)--Continued
 PO₄ as P (Orthophosphate as phosphorus) mg/L



| | N = | 4 | 1 | 9 | 11 | 53 |
|-----------------|-----|------|------|------|------|------|
| Minimum = | | 1.71 | 1.73 | 1.58 | 0.45 | 0.94 |
| Maximum = | | 1.81 | | 1.87 | 1.90 | 2.00 |
| Median = | | | | 1.69 | 1.71 | 1.72 |
| F-pseudosigma = | | | | 0.08 | 0.05 | 0.04 |

MPV = 1.72
 F-pseudosigma = 0.09
 N = 78
 Hu = 1.77
 HI = 1.70

| Lab | Rating | Z-value | 0 | 6 | 7 | 22 | 22m |
|-----|--------|---------|------|------|------|------|-----|
| 1 | 1 | 1.80 | | | | 1.88 | |
| 3 | 4 | -0.22 | | | | 1.70 | |
| 9 | 4 | 0.34 | | | | 1.75 | |
| 10 | 4 | 0.34 | | | | 1.75 | |
| 11 | 4 | -0.11 | | | | 1.71 | |
| 12 | 4 | -0.11 | | | | 1.71 | |
| 13 | 4 | -0.34 | | 1.69 | | | |
| 16 | 4 | 0.22 | | | | 1.74 | |
| 18 | 4 | 0.11 | | | | 1.73 | |
| 19 | 4 | -0.34 | | | | 1.69 | |
| 23 | 4 | 0.45 | | | | 1.76 | |
| 26 | 4 | 0.79 | 1.79 | | | | |
| 30 | 1 | 1.69 | | | 1.87 | | |
| 33 | 4 | -0.79 | | | 1.65 | | |
| 36 | 1 | 2.02 | | | | 1.90 | |
| 38 | 4 | -0.49 | | | | 1.68 | |
| 39 | 4 | 0.22 | | | | 1.74 | |
| 46 | 4 | 0.90 | | | | 1.80 | |
| 48 | 4 | 0.45 | | | | 1.76 | |
| 53 | 0 | 2.11 | | | | 1.91 | |
| 59 | 4 | -0.22 | | | | 1.70 | |
| 61 | 4 | -0.11 | 1.71 | | | | |
| 70 | 4 | -0.45 | | | | 1.68 | |
| 80 | 0 | -2.81 | | | | 1.47 | |
| 81 | 2 | -1.35 | | | | 1.60 | |
| 83 | 0 | -14.28 | | | 0.45 | | |
| 84 | 1 | -1.57 | | 1.58 | | | |
| 85 | 4 | 0.45 | | | | 1.76 | |
| 87 | 2 | 1.01 | | | | 1.81 | |
| 89 | 4 | -0.34 | | | | 1.69 | |
| 92 | 4 | -0.11 | | | | 1.71 | |
| 96 | 4 | 0.00 | | | | 1.72 | |
| 102 | 4 | -0.22 | | | | 1.70 | |
| 104 | 4 | 0.45 | | | | 1.76 | |
| 105 | 4 | -0.11 | | | | 1.71 | |
| 107 | 1 | 1.57 | | | | 1.86 | |
| 113 | 4 | 0.00 | | | | 1.72 | |
| 118 | 4 | 0.00 | | | | 1.72 | |
| 119 | 4 | -0.45 | | | | 1.68 | |
| 127 | 4 | 0.90 | | 1.80 | | | |
| 129 | 4 | -0.11 | | | | 1.71 | |
| 133 | 4 | 0.00 | | | | 1.72 | |
| 134 | 4 | 0.67 | | | | 1.78 | |
| 138 | 4 | -0.11 | | | | 1.71 | |
| 140 | 4 | 0.22 | | | | 1.74 | |
| 141 | 0 | 2.25 | | | | 1.92 | |
| 142 | 4 | 0.00 | | | | 1.72 | |
| 143 | 4 | 0.45 | | | | 1.76 | |
| 145 | 4 | 0.00 | | | | 1.72 | |
| 146 | 2 | 1.12 | | | | 1.82 | |

| Lab | Rating | Z-value | 0 | 6 | 7 | 22 | 22m |
|-----|--------|---------|------|------|------|------|------|
| 154 | 4 | 0.00 | | | | | 1.72 |
| 158 | 4 | 0.22 | | | | | 1.74 |
| 180 | 4 | -0.11 | | | | | 1.71 |
| 183 | 4 | 0.67 | | | | | 1.78 |
| 185 | 0 | -2.59 | | | | | 1.49 |
| 190 | 4 | -0.45 | | | | 1.68 | |
| 191 | 4 | 0.11 | 1.73 | | | | |
| 196 | 4 | -0.34 | | 1.69 | | | |
| 203 | 1 | 1.57 | | | | | 1.86 |
| 212 | 0 | 3.15 | | | | | 2.00 |
| 213 | 4 | -0.90 | | | | | 1.64 |
| 215 | 4 | 0.34 | | | | | 1.75 |
| 220 | 0 | -8.82 | | | | | 0.94 |
| 220 | 4 | 0.92 | | | | | 1.80 |
| 221 | 4 | 0.22 | | | | 1.74 | |
| 224 | 2 | 1.46 | | | | | 1.85 |
| 234 | 4 | -0.34 | | | 1.69 | | |
| 241 | 4 | 0.90 | | | 1.80 | | |
| 247 | 4 | 0.00 | | | 1.72 | | |
| 252 | 4 | -0.56 | | | | 1.67 | |
| 255 | 4 | 0.45 | | | | | 1.76 |
| 282 | 4 | 0.00 | | | | | 1.72 |
| 284 | 0 | -2.36 | | | | 1.51 | |
| 285 | 2 | 1.01 | 1.81 | | | | |
| 287 | 4 | -0.22 | | | | | 1.70 |
| 289 | 4 | 0.43 | | | | | 1.76 |
| 292 | 4 | -0.11 | | | | | 1.71 |
| 294 | 4 | 0.56 | 1.77 | | | | |

Table 18. *Statistical summary of reported data for standard reference water sample P-28 (low ionic strength constituents)*

Definition of analytical methods, abbreviations, and symbols

Analytical methods

| | | |
|--------------------------------|---|---|
| 0 Other/Not reported | = | |
| 1 AA: direct, air | = | atomic absorption: direct,air |
| 2 AA: direct, N ₂ O | = | atomic absorption: direct,nitrous oxide |
| 3 AA: graphite furnace | = | atomic absorption: graphite furnace |
| 4 ICP | = | inductively coupled plasma |
| 5 DCP | = | direct current plasma |
| 6 ICP/MS | = | inductively coupled plasma/mass spectrometry |
| 7 IC | = | ion chromatography |
| 12 Flame emission | = | flame emission |
| 20 Titrate: color | = | titration: colorimetric [color reagent specified] |
| 21 Titrate: electro | = | titration: electrometric |
| 22 Color: | = | colorimetric [color reagent specified] |
| 40 Ion electrode | = | ion selective electrode |
| 41 Electro | = | electrometric: [type meter specified] |
| 50 Gravimetric | = | gravimetric: [precipitate specified] |
| 51 Turbidimetric | = | turbidimetric: [precipitate specified] |

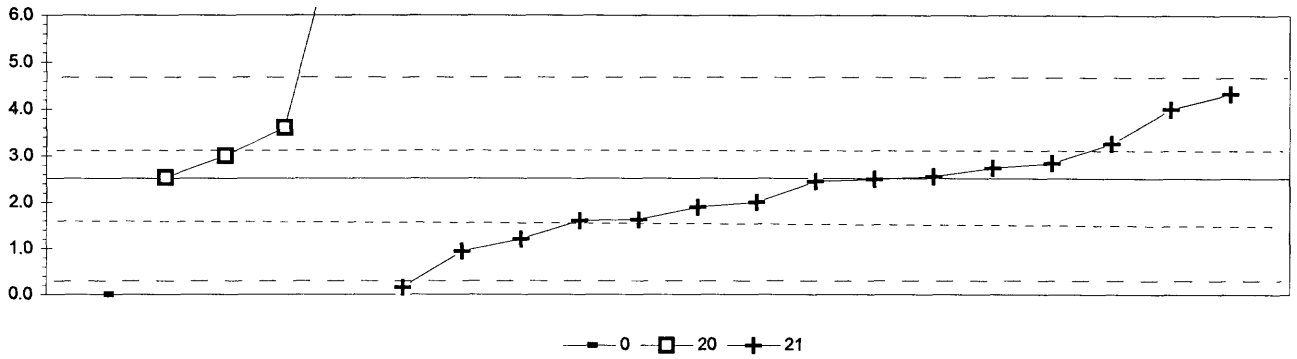
Abbreviations and symbols

| | | |
|---------------|---|--|
| N | = | number of samples |
| MPV | = | most probable value |
| F-pseudosigma | = | nonparametric statistic deviation |
| Hu | = | upper hinge value |
| Hi | = | lower hinge value |
| mg/L | = | milligrams per liter |
| μS/cm | = | microsiemens per centimeter at 25 ^o C |
| Lab | = | laboratory code number |
| NR | = | not rated, less than value reported |
| < | = | less than |

Constituent

| | | <u>page</u> |
|----------------------|------------------------------|-------------|
| Acid | Acidity as CaCO ₃ | 141 |
| Ca | Calcium | 142 |
| Cl | Chloride | 143 |
| F | Fluoride | 144 |
| I | Iodine | 145 |
| K | Potassium | 146 |
| Mg | Magnesium | 147 |
| Na | Sodium | 148 |
| pH | | 149 |
| PO ₄ as P | Orthophosphate as Phosphorus | 150 |
| SO ₄ | Sulfate | 151 |
| Sp Cond | Specific Conductance | 152 |

Table 18. Statistical summary of reported data for standard reference water sample P-28 (low ionic strength constituents)--Continued
Acidity (as CaCO₃) mg/L

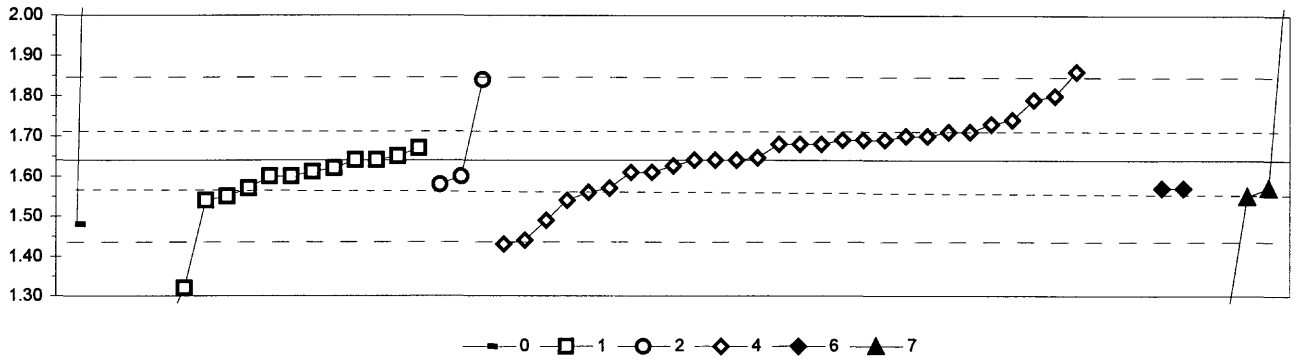


| | | | | |
|----------------------------|------------------|-----|-----|-----|
| 0. Other | | | | |
| 20. Titrate: colorimetric | | | | |
| 21. Titrate: electrometric | | | | |
| | N = | 1 | 4 | 15 |
| | Minimum = | 0.0 | 2.5 | 0.2 |
| | Maximum = | | 8.5 | 4.3 |
| | Median = | | | 2.5 |
| | F-pseudostigma = | | | 0.9 |

MPV = 2.5
F-pseudostigma = 1.1
N = 20
Hu = 3.1
HI = 1.6

| Lab | Rating | Z-value | 0 | 20 | 21 |
|-----|--------|---------|-----|-----|------|
| 1 | 4 | -0.46 | | | 2.0 |
| 3 | NR | | | | < 10 |
| 25 | NR | | | | < 8 |
| 38 | 1 | 1.61 | | | 4.3 |
| 39 | 2 | 1.32 | | | 4.0 |
| 81 | 0 | -2.10 | | | 0.2 |
| 89 | 4 | 0.03 | | | 2.6 |
| 92 | 3 | -0.81 | | | 1.6 |
| 105 | 3 | 0.96 | | 3.6 | |
| 111 | 4 | 0.20 | | | 2.7 |
| 141 | 4 | -0.06 | | | 2.5 |
| 146 | 4 | 0.29 | | | 2.8 |
| 215 | 4 | 0.43 | | 3.0 | |
| 224 | 3 | -0.55 | | | 1.9 |
| 237 | 4 | 0.01 | | 2.5 | |
| 238 | 0 | -2.23 | 0.0 | | |
| 247 | 2 | -1.17 | | | 1.2 |
| 256 | 0 | 5.31 | | 8.5 | |
| 273 | 3 | -0.79 | | | 1.6 |
| 274 | 2 | -1.40 | | | 0.9 |
| 282 | 3 | 0.66 | | | 3.3 |
| 289 | 4 | -0.01 | | | 2.5 |

Table 18. Statistical summary of reported data for standard reference water sample P-28 (low ionic strength constituents)--Continued
Ca (Calcium) mg/L



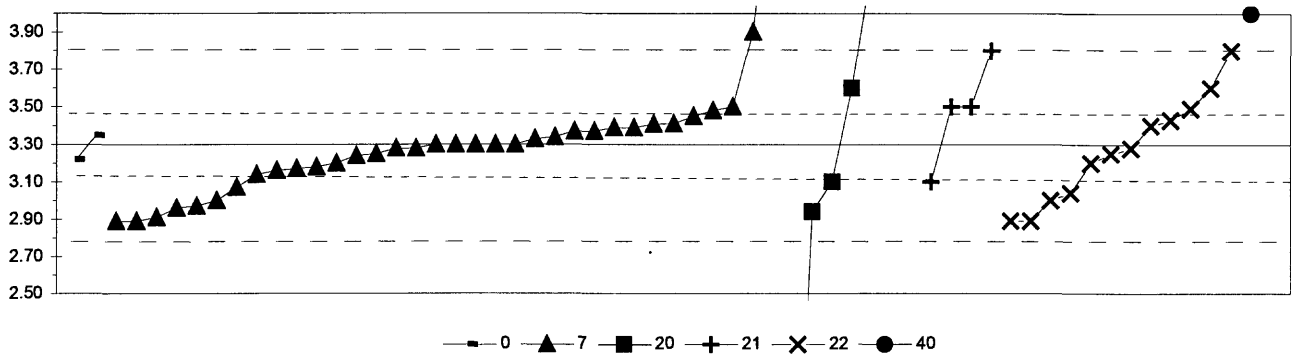
| | |
|-----------------------------|--|
| 0. Other | 4. ICP |
| 1. AA: direct air | 6. ICP/MS |
| 2. AA: direct nitrous oxide | 7. Ion chromatography |
| N = | 4 13 3 30 2 5 |
| Minimum = | 1.48 1.20 1.58 1.43 1.57 1.22 |
| Maximum = | 8.40 1.67 1.84 16.00 1.57 2.26 |
| Median = | 1.60 1.68 |
| F-pseudostigma = | 0.07 0.07 |

MPV = 1.64
F-pseudostigma = 0.10
N = 57
Hu = 1.71
Hi = 1.57

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 | 7 |
|-----|--------|---------|-------|------|------|-------|------|------|
| 1 | 4 | 0.39 | | | | 1.68 | | |
| 2 | 3 | -0.87 | | | | | | 1.55 |
| 3 | 2 | 1.45 | | | | 1.79 | | |
| 11 | 1 | 1.54 | | | | 1.80 | | |
| 23 | NR | | < 2 | | | | | |
| 25 | 4 | 0.39 | | | | 1.68 | | |
| 26 | 0 | 5.97 | | | | | | 2.26 |
| 33 | 1 | -1.54 | 1.48 | | | | | |
| 36 | 4 | -0.39 | | | 1.60 | | | |
| 38 | 3 | -0.58 | | | 1.58 | | | |
| 46 | 3 | 0.58 | | | | 1.70 | | |
| 48 | 2 | -1.45 | | | | 1.49 | | |
| 59 | 0 | 138.37 | | | | 16.00 | | |
| 64 | 4 | 0.00 | | 1.64 | | | | |
| 81 | 1 | -1.93 | | | | 1.44 | | |
| 83 | 3 | -0.96 | | | | 1.54 | | |
| 86 | 1 | -2.02 | | | | 1.43 | | |
| 89 | 0 | -3.08 | | 1.32 | | | | |
| 92 | 0 | -4.24 | | 1.20 | | | | |
| 93 | 4 | -0.29 | | | | 1.61 | | |
| 105 | 4 | 0.00 | | | | 1.64 | | |
| 110 | 4 | 0.00 | | 1.64 | | | | |
| 111 | 1 | 1.93 | | | 1.84 | | | |
| 113 | 0 | 2.12 | | | | 1.86 | | |
| 119 | 4 | 0.39 | | | | 1.68 | | |
| 134 | 4 | 0.06 | | | | 1.65 | | |
| 138 | 3 | 0.67 | | | | 1.71 | | |
| 140 | 4 | -0.28 | | 1.61 | | | | |
| 141 | 3 | 0.67 | | | | 1.71 | | |
| 145 | 3 | 0.87 | | | | 1.73 | | |
| 146 | 4 | 0.00 | | | | 1.64 | | |
| 147 | 4 | 0.48 | | | | 1.69 | | |
| 180 | 4 | 0.48 | | | | 1.69 | | |
| 185 | 3 | -0.67 | | 1.57 | | | | |
| 190 | 0 | -4.05 | | | | | | 1.22 |
| 191 | 3 | -0.67 | | | | | 1.57 | |
| 196 | 4 | 0.29 | | 1.67 | | | | |
| 209 | 3 | -0.67 | | | | 1.57 | | |
| 215 | 3 | 0.58 | | | | 1.70 | | |
| 220 | 4 | 0.10 | | 1.65 | | | | |
| 221 | 4 | -0.19 | | 1.62 | | | | |
| 224 | 0 | 131.44 | | | | 15.28 | | |
| 235 | 3 | 0.96 | | | | 1.74 | | |
| 237 | 4 | 0.48 | | | | 1.69 | | |
| 238 | 0 | 5.49 | | | | | | 2.21 |
| 241 | 4 | -0.39 | | 1.60 | | | | |
| 247 | 3 | -0.67 | | | | | | 1.57 |
| 255 | 4 | -0.13 | | | | 1.63 | | |
| 256 | 0 | 22.74 | 4.00 | | | | | |
| 257 | NR | | < 1.5 | | | | | |

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 | 7 |
|-----|--------|---------|-------|------|---|------|------|---|
| 262 | 0 | 65.14 | 8.40 | | | | | |
| 265 | 4 | -0.29 | | | | 1.61 | | |
| 268 | 3 | -0.87 | | 1.55 | | | | |
| 273 | 3 | -0.77 | | | | 1.56 | | |
| 274 | 0 | 197.15 | 22.10 | | | | | |
| 282 | 3 | -0.67 | | | | | 1.57 | |
| 284 | 4 | -0.39 | | 1.60 | | | | |
| 287 | 3 | -0.96 | | 1.54 | | | | |
| 289 | 4 | 0.00 | | | | 1.64 | | |

Table 18. Statistical summary of reported data for standard reference water sample P-28 (low ionic strength constituents)--Continued
 Cl (Chloride) mg/L



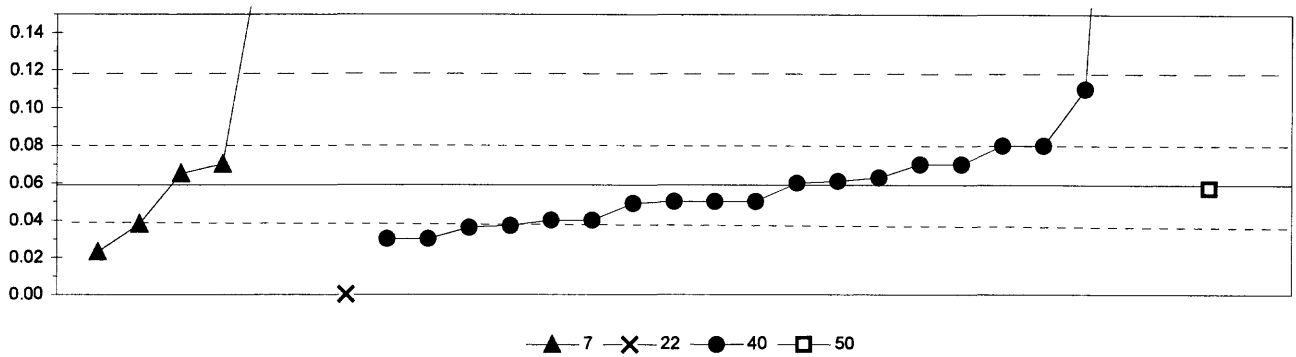
| | | | | | | |
|---------------------------|-----------------------------|------|-------|------|------|------|
| 0. Other | 21. Titrate: electrometric | | | | | |
| 7. Ion chromatography | 22. Colorimetric | | | | | |
| 20. Titrate: colorimetric | 40. Ion selective electrode | | | | | |
| N = | 2 | 34 | 7 | 4 | 12 | 1 |
| Minimum = | 3.22 | 2.89 | 0.60 | 3.10 | 2.89 | 4.00 |
| Maximum = | 3.35 | 4.79 | 29.29 | 3.80 | 3.80 | |
| Median = | 3.30 | 3.60 | | 3.27 | | |
| F-pseudostigma = | 0.17 | 1.77 | | 0.33 | | |

MPV = 3.30
 F-pseudostigma = 0.26
 N = 60
 Hu = 3.47
 HI = 3.12

| Lab | Rating | Z-value | 0 | 7 | 20 | 21 | 22 | 40 |
|-----|--------|---------|------|------|------|------|----|------|
| 1 | 4 | 0.12 | 3.33 | | | | | |
| 2 | 3 | -0.90 | 3.07 | | | | | |
| 3 | 1 | 1.96 | | | | 3.80 | | |
| 11 | 1 | -1.60 | | | | 2.89 | | |
| 23 | 4 | -0.31 | 3.22 | | | | | |
| 25 | 4 | 0.00 | 3.30 | | | | | |
| 26 | 4 | -0.23 | 3.24 | | | | | |
| 33 | 4 | 0.00 | 3.30 | | | | | |
| 36 | 3 | -0.78 | | | 3.10 | | | |
| 39 | 2 | 1.17 | | | 3.60 | | | |
| 46 | 4 | -0.39 | | | | 3.20 | | |
| 48 | 2 | -1.17 | | | | 3.00 | | |
| 59 | 3 | 0.70 | 3.48 | | | | | |
| 64 | 4 | 0.16 | 3.34 | | | | | |
| 81 | 3 | 0.78 | | | | 3.50 | | |
| 86 | 0 | 2.74 | | | | | | 4.00 |
| 89 | 4 | 0.00 | 3.30 | | | | | |
| 92 | 4 | 0.39 | | | | 3.40 | | |
| 93 | 4 | -0.08 | 3.28 | | | | | |
| 96 | 1 | -1.60 | | | | 2.89 | | |
| 105 | 3 | -0.55 | 3.16 | | | | | |
| 107 | 3 | 0.78 | | | 3.50 | | | |
| 110 | 4 | 0.35 | 3.39 | | | | | |
| 111 | 4 | 0.27 | 3.37 | | | | | |
| 113 | 4 | -0.20 | 3.25 | | | | | |
| 119 | 3 | -0.51 | 3.17 | | | | | |
| 134 | 3 | 0.59 | 3.45 | | | | | |
| 138 | 3 | -0.63 | 3.14 | | | | | |
| 140 | 4 | -0.08 | | | | 3.28 | | |
| 141 | 4 | -0.20 | | | | 3.25 | | |
| 143 | 4 | 0.20 | 3.35 | | | | | |
| 145 | 4 | 0.27 | 3.37 | | | | | |
| 146 | 3 | 0.74 | | | | 3.49 | | |
| 147 | 3 | 0.78 | 3.50 | | | | | |
| 158 | 0 | 5.83 | 4.79 | | | | | |
| 180 | 1 | -1.60 | 2.89 | | | | | |
| 183 | 2 | -1.02 | | | | 3.04 | | |
| 190 | 4 | -0.39 | 3.20 | | | | | |
| 191 | 4 | 0.00 | 3.30 | | | | | |
| 196 | 2 | -1.29 | 2.97 | | | | | |
| 203 | 3 | -0.78 | | | 3.10 | | | |
| 209 | 4 | 0.35 | 3.39 | | | | | |
| 215 | 0 | -10.56 | | 0.60 | | | | |
| 220 | 2 | 1.17 | | | | 3.60 | | |
| 221 | 2 | -1.41 | | 2.94 | | | | |
| 224 | 4 | 0.42 | 3.41 | | | | | |
| 238 | 2 | -1.17 | 3.00 | | | | | |
| 241 | 1 | -1.60 | 2.89 | | | | | |
| 247 | 2 | -1.33 | 2.96 | | | | | |
| 255 | 3 | 0.51 | | | | 3.43 | | |

| Lab | Rating | Z-value | 0 | 7 | 20 | 21 | 22 | 40 |
|-----|--------|---------|---|------|-------|------|----|-----|
| 256 | 0 | 3.75 | | | 4.26 | | | |
| 257 | 0 | 2.35 | | 3.90 | | | | |
| 262 | 1 | 1.96 | | | | 3.80 | | |
| 265 | 1 | -1.52 | | 2.91 | | | | |
| 268 | 4 | 0.43 | | 3.41 | | | | |
| 273 | 4 | -0.08 | | 3.28 | | | | |
| 274 | 0 | 101.62 | | | 29.29 | | | |
| 282 | 4 | -0.47 | | 3.18 | | | | |
| 284 | NR | | | | | | | < 5 |
| 287 | 0 | 12.75 | | | 6.56 | | | |
| 289 | 4 | 0.00 | | 3.30 | | | | |

Table 18. Statistical summary of reported data for standard reference water sample P-28 (low ionic strength constituents)--Continued
F (Fluoride) mg/L

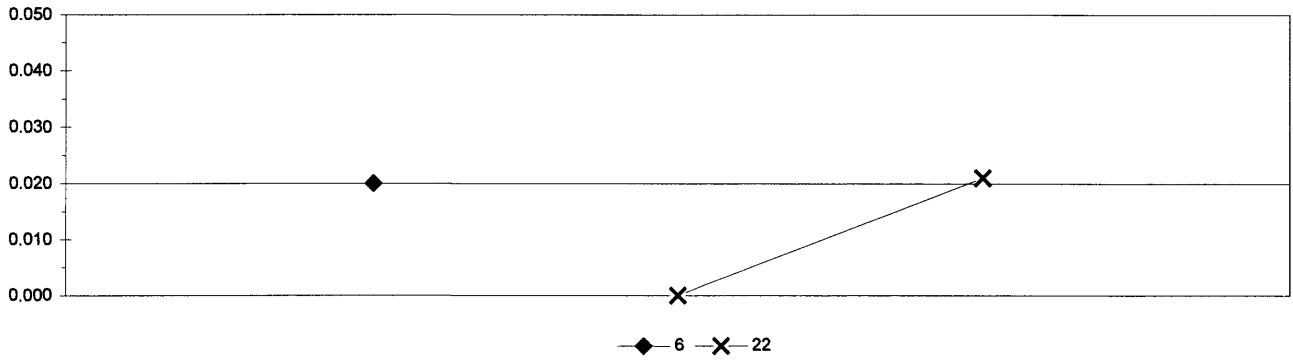


| 7. Ion chromatography | | | 50. Gravimetric | | | |
|-----------------------------|-----|--|-----------------|------|------|------|
| 22. Colorimetric | | | | | | |
| 40. Ion selective electrode | | | | | | |
| | N = | | 6 | 1 | 20 | 1 |
| Minimum = | | | 0.02 | 0.00 | 0.03 | 0.06 |
| Maximum = | | | 0.71 | | 0.46 | |
| Median = | | | | | 0.06 | |
| F-pseudostigma = | | | | | 0.03 | |

MPV = 0.06
F-pseudostigma = 0.03
N = 28
Hu = 0.08
HI = 0.04

| Lab | Rating | Z-value | 7 | 22 | 40 | 50 |
|-----|--------|---------|--------|------|--------|------|
| 1 | NR | | | | < 0.1 | |
| 3 | NR | | | | < 0.1 | |
| 23 | 4 | -0.28 | | | 0.05 | |
| 25 | 3 | 0.71 | | | 0.08 | |
| 39 | 4 | 0.38 | | | 0.07 | |
| 46 | 3 | -0.61 | | | 0.04 | |
| 48 | 0 | 12.98 | | | 0.45 | |
| 59 | NR | | | | < 0.2 | |
| 81 | 4 | -0.05 | | | | 0.06 |
| 83 | 0 | 13.21 | | | 0.46 | |
| 89 | NR | | | | < 0.1 | |
| 93 | 3 | -0.61 | | | 0.04 | |
| 105 | NR | < 0.2 | | | | |
| 107 | 3 | -0.94 | | | 0.03 | |
| 110 | 3 | -0.71 | | | 0.04 | |
| 113 | 4 | 0.05 | | | 0.06 | |
| 119 | 3 | -0.94 | | | 0.03 | |
| 134 | NR | | | | < 0.1 | |
| 138 | NR | | | | < 0.10 | |
| 140 | 3 | -0.74 | | | 0.04 | |
| 141 | 3 | -0.67 | 0.04 | | | |
| 145 | NR | | < 0.2 | | | |
| 146 | 4 | -0.31 | | | 0.05 | |
| 147 | NR | | < 0.05 | | | |
| 180 | NR | | < 0.05 | | | |
| 190 | 4 | 0.15 | | | 0.06 | |
| 191 | 2 | -1.17 | 0.02 | | | |
| 196 | 4 | 0.21 | 0.07 | | | |
| 215 | 4 | -0.28 | | | 0.05 | |
| 224 | 0 | 4.52 | 0.20 | | | |
| 241 | 4 | 0.38 | | | 0.07 | |
| 247 | 4 | 0.38 | 0.07 | | | |
| 255 | NR | | | | < 0.2 | |
| 256 | 1 | 1.69 | | | 0.11 | |
| 257 | 3 | 0.71 | | | 0.08 | |
| 262 | 4 | 0.08 | | | 0.06 | |
| 265 | 4 | -0.28 | | | 0.05 | |
| 273 | 0 | 21.53 | 0.71 | | | |
| 274 | NR | -1.92 | | 0.00 | | |
| 282 | NR | | | | < 0.1 | |
| 284 | NR | | | | < 0.1 | |
| 287 | NR | | | | < 0.1 | |

Table 18. Statistical summary of reported data for standard reference water sample P-28 (low ionic strength constituents)--Continued
I (Iodine) mg/L

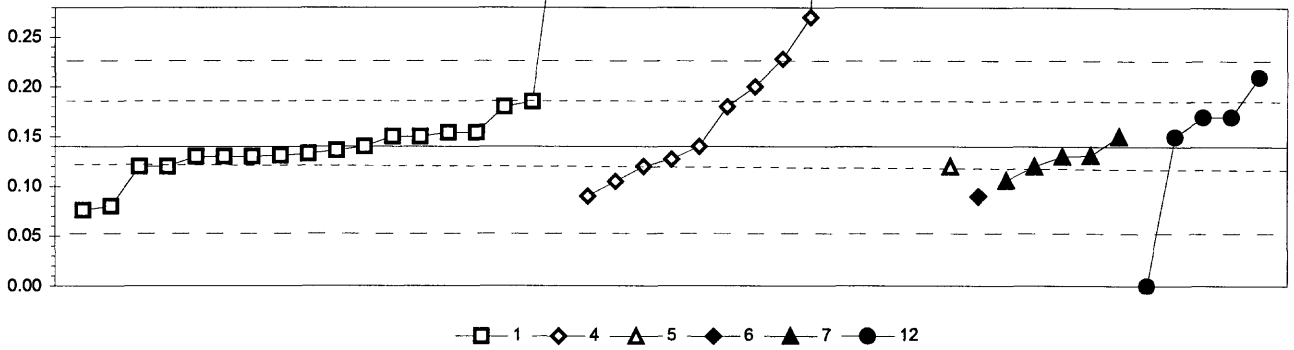


| | | | | |
|------------------|--------|-----------------|-------|-------|
| 6. ICP/MS | | | | |
| 22. Colorimetric | | | | |
| | | N = | 1 | 2 |
| | | Minimum = | 0.020 | 0.000 |
| | | Maximum = | | 0.021 |
| | | Median = | | |
| | | F-pseudosigma = | | |
| Lab | Rating | Z-value | 6 | 22 |

| | | | | |
|-----|----|-------|-------|-------|
| 1 | NR | 0.13 | | 0.021 |
| 265 | NR | 0.00 | 0.020 | |
| 274 | NR | -2.57 | | 0.000 |

MPV = insufficient data
F-pseudosigma =
N = 3
Hu =
HI =

Table 18. Statistical summary of reported data for standard reference water sample P-28 (low ionic strength constituents)--Continued
K (Potassium) mg/L



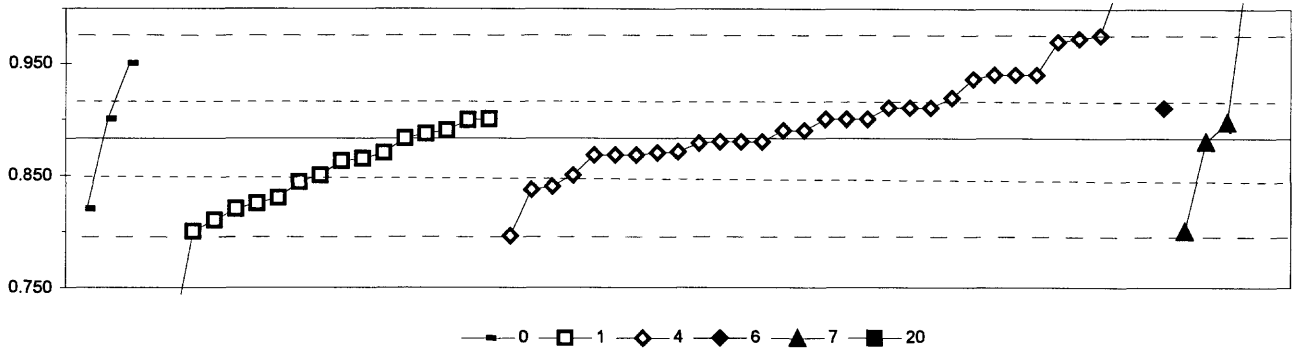
| | |
|-------------------|---|
| 1. AA: direct air | 6. ICP/MS |
| 4. ICP | 7. Ion chromatography |
| 5. DCP | 12. Flame emission |
| | N = 18 13 1 1 5 5 |
| | Minimum = 0.08 0.09 0.12 0.09 0.11 0.00 |
| | Maximum = 0.40 1.39 0.12 0.09 0.15 0.21 |
| | Median = 0.13 0.20 |
| | F-pseudostigma = 0.02 0.64 |

MPV = 0.14
F-pseudostigma = 0.04
N = 43
Hu = 0.18
HI = 0.12

| Lab | Rating | Z-value | 1 | 4 | 5 | 6 | 7 | 12 |
|-----|--------|---------|---------|------|------|------|-------|------|
| 1 | 4 | -0.09 | 0.14 | | | | | |
| 2 | 4 | -0.22 | | | | | 0.13 | |
| 3 | 2 | -1.12 | | 0.09 | | | | |
| 11 | 4 | -0.29 | | 0.13 | | | | |
| 23 | NR | | < 0.2 | | | | | |
| 25 | NR | | < 1.2 | | | | | |
| 26 | NR | | | | | | < 0.2 | |
| 33 | 4 | -0.45 | | | 0.12 | | | |
| 38 | 4 | 0.22 | 0.15 | | | | | |
| 48 | 2 | 1.35 | | 0.20 | | | | |
| 64 | 4 | 0.00 | 0.14 | | | | | |
| 81 | 1 | 1.98 | | 0.23 | | | | |
| 83 | 4 | -0.45 | 0.12 | | | | | |
| 89 | 4 | -0.45 | 0.12 | | | | | |
| 92 | 0 | 5.85 | 0.40 | | | | | |
| 93 | 1 | 1.57 | | | | | | 0.21 |
| 105 | NR | | < 0.5 | | | | | |
| 107 | 4 | -0.22 | 0.13 | | | | | |
| 111 | 4 | -0.22 | 0.13 | | | | | |
| 113 | 3 | -0.79 | | 0.11 | | | | |
| 119 | 0 | 20.24 | | 1.04 | | | | |
| 134 | 2 | -1.44 | 0.08 | | | | | |
| 138 | 4 | -0.45 | | 0.12 | | | | |
| 140 | 4 | -0.20 | 0.13 | | | | | |
| 141 | NR | | < 0.2 | | | | | |
| 145 | 0 | 2.92 | | 0.27 | | | | |
| 146 | NR | | | < 1 | | | | |
| 180 | NR | | < 0.422 | | | | | |
| 185 | 4 | -0.16 | 0.13 | | | | | |
| 190 | 4 | 0.22 | | | | | 0.15 | |
| 191 | 2 | -1.12 | | | | 0.09 | | |
| 196 | 4 | 0.31 | 0.15 | | | | | |
| 215 | 0 | 26.08 | | 1.30 | | | | |
| 220 | 2 | -1.35 | 0.08 | | | | | |
| 221 | 4 | 0.22 | 0.15 | | | | | |
| 224 | 0 | 28.13 | | 1.39 | | | | |
| 237 | 4 | -0.20 | | | | | 0.13 | |
| 238 | 4 | -0.45 | | | | | 0.12 | |
| 241 | 4 | -0.22 | 0.13 | | | | | |
| 247 | 3 | -0.76 | | | | | 0.11 | |
| 255 | NR | | < 0.313 | | | | | |
| 256 | NR | -3.15 | | | | | | 0.00 |
| 257 | 4 | 0.22 | | | | | | 0.15 |
| 262 | 3 | 0.67 | | | | | | 0.17 |
| 285 | 3 | 0.90 | | 0.18 | | | | |
| 268 | 4 | 0.31 | 0.15 | | | | | |
| 273 | 0 | 19.25 | | 1.00 | | | | |
| 274 | 3 | 0.67 | | | | | | 0.17 |
| 282 | NR | | | | | < 1 | | |
| 284 | 3 | 0.90 | 0.18 | | | | | |

| Lab | Rating | Z-value | 1 | 4 | 5 | 6 | 7 | 12 |
|-----|--------|---------|-------|-------|---|---|---|----|
| 287 | 2 | 1.01 | 0.185 | | | | | |
| 289 | 4 | 0.00 | | 0.140 | | | | |

Table 18. Statistical summary of reported data for standard reference water sample P-28 (low ionic strength constituents)--Continued
Mg (Magnesium) mg/L



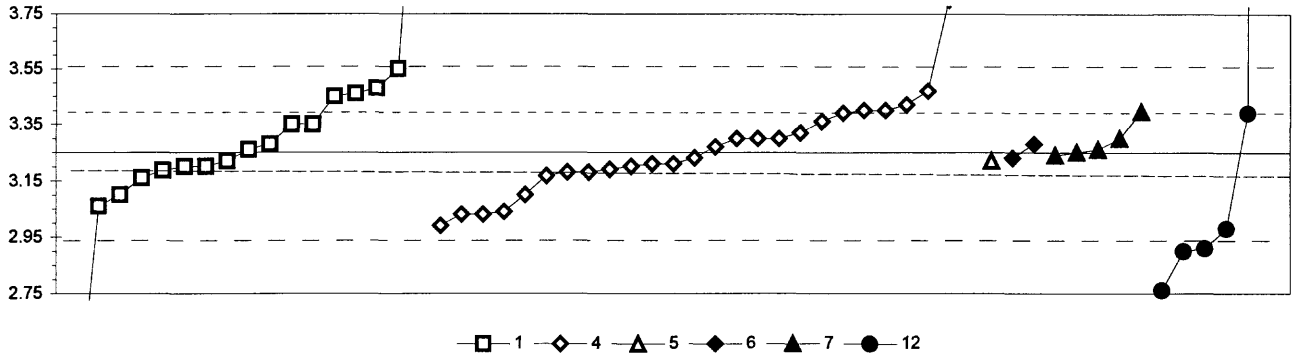
| | |
|-------------------|---|
| 0. Other | 6. ICP/MS |
| 1. AA: direct air | 7. Ion chromatography |
| 4. ICP | 20. Titrate: colorimetric |
| | N = 4 16 31 1 5 1 |
| | Minimum = 0.820 0.700 0.796 0.910 0.800 0.400 |
| | Maximum = 6.090 0.900 8.629 1.070 |
| | Median = 0.857 0.900 |
| | F-pseudosigma = 0.046 0.050 |

MPV = 0.883
F-pseudosigma = 0.044
N = 57
Hu = 0.910
HI = 0.850

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 20 |
|-----|--------|---------|-------|-------|-------|-------|-------|-------|
| 1 | 4 | -0.34 | | | 0.868 | | | |
| 2 | 0 | 3.69 | | | | | 1.047 | |
| 3 | 4 | -0.07 | | | 0.880 | | | |
| 11 | 1 | 2.02 | | | 0.973 | | | |
| 23 | 2 | -1.19 | | 0.830 | | | | |
| 25 | 3 | 0.61 | | | 0.910 | | | |
| 26 | 0 | 4.20 | | | | | 1.070 | |
| 33 | 2 | -1.42 | 0.820 | | | | | |
| 38 | 1 | -1.87 | | 0.800 | | | | |
| 38 | 4 | -0.40 | | 0.865 | | | | |
| 46 | 4 | 0.16 | | | 0.890 | | | |
| 48 | 2 | 1.28 | | | 0.940 | | | |
| 59 | 4 | 0.38 | | | 0.900 | | | |
| 64 | 4 | -0.29 | | | 0.870 | | | |
| 81 | 1 | -1.96 | | | 0.796 | | | |
| 83 | 2 | -1.03 | | | 0.837 | | | |
| 86 | 4 | -0.27 | | | 0.871 | | | |
| 89 | 2 | -1.42 | 0.820 | | | | | |
| 92 | 0 | -4.11 | | 0.700 | | | | |
| 93 | 2 | 1.28 | | | 0.940 | | | |
| 105 | 4 | -0.07 | | | 0.880 | | | |
| 107 | 1 | -1.64 | | 0.810 | | | | |
| 110 | 3 | -0.74 | | 0.850 | | | | |
| 111 | 4 | 0.38 | 0.900 | | | | | |
| 113 | 0 | 3.31 | | | 1.030 | | | |
| 119 | 2 | 1.28 | | | 0.940 | | | |
| 134 | 4 | -0.34 | | | 0.868 | | | |
| 138 | 4 | 0.38 | | | 0.900 | | | |
| 140 | 3 | -0.88 | | 0.844 | | | | |
| 141 | 3 | 0.81 | | | 0.919 | | | |
| 145 | 1 | 1.98 | | | 0.970 | | | |
| 146 | 4 | -0.34 | | | 0.868 | | | |
| 147 | 3 | 0.61 | | | 0.910 | | | |
| 180 | 4 | -0.07 | | | 0.880 | | | |
| 185 | 4 | -0.45 | | 0.863 | | | | |
| 190 | 1 | -1.87 | | | | | 0.800 | |
| 191 | 3 | 0.61 | | | | 0.910 | | |
| 196 | 4 | -0.29 | | 0.870 | | | | |
| 209 | 3 | -0.97 | | | 0.840 | | | |
| 215 | 3 | 0.61 | | | 0.910 | | | |
| 220 | 4 | 0.16 | | 0.890 | | | | |
| 221 | 4 | 0.09 | | 0.887 | | | | |
| 224 | 0 | 174.16 | | | 8.629 | | | |
| 235 | 0 | 2.09 | | | 0.976 | | | |
| 237 | 4 | 0.38 | | | 0.900 | | | |
| 238 | 4 | -0.07 | | | | | 0.880 | |
| 241 | 4 | 0.38 | | 0.900 | | | | |
| 247 | 4 | 0.31 | | | | | 0.897 | |
| 255 | 4 | -0.10 | | | 0.879 | | | |
| 256 | 0 | -10.86 | | | | | | 0.400 |

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 20 |
|-----|--------|---------|-------|-------|-------|---|-----|-------|
| 257 | NR | | | | | | | < 1.5 |
| 262 | 1 | 1.51 | 0.950 | | | | | |
| 265 | 4 | 0.16 | | | 0.890 | | | |
| 268 | 2 | -1.30 | | 0.825 | | | | |
| 273 | 2 | 1.19 | | | 0.936 | | | |
| 274 | 0 | 117.07 | 6.090 | | | | | |
| 282 | NR | | | | | | < 1 | |
| 284 | 4 | 0.36 | | 0.899 | | | | |
| 287 | 4 | 0.00 | | 0.883 | | | | |
| 289 | 3 | -0.74 | | | 0.850 | | | |

Table 18. Statistical summary of reported data for standard reference water sample P-28 (low ionic strength constituents)—Continued
Na (Sodium) mg/L



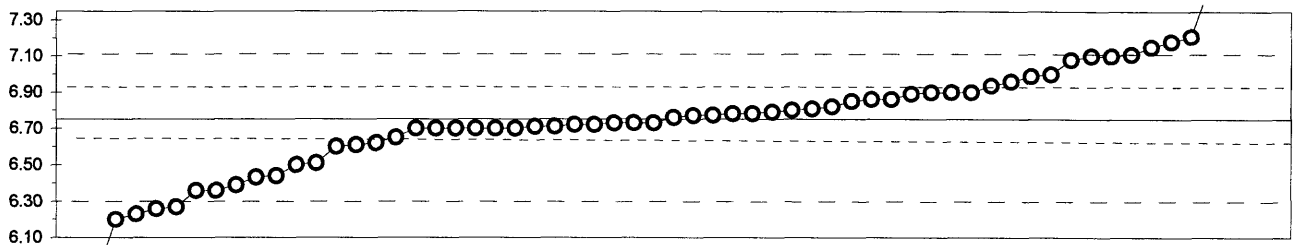
| | |
|-------------------|---|
| 1. AA: direct air | 6. ICP/MS |
| 4. ICP | 7. Ion chromatography |
| 5. DCP | 12. Flame emission |
| | N = 17 26 1 2 5 6 |
| | Minimum = 2.30 2.99 3.22 3.23 3.24 2.76 |
| | Maximum = 4.60 29.90 3.28 3.40 15.48 |
| | Median = 3.26 3.25 |
| | F-pseudostigma = 0.19 0.16 |

MPV = 3.25
F-pseudostigma = 0.16
N = 57
Hu = 3.39
HI = 3.18

| Lab | Rating | Z-value | 1 | 4 | 5 | 6 | 7 | 12 |
|-----|--------|---------|------|-------|------|---|------|------|
| 1 | 4 | 0.32 | | 3.30 | | | | |
| 2 | 3 | 0.93 | | | | | 3.40 | |
| 3 | 3 | 0.96 | | 3.40 | | | | |
| 11 | 2 | -1.35 | | 3.04 | | | | |
| 23 | 4 | -0.19 | 3.22 | | | | | |
| 25 | 3 | 0.96 | | 3.40 | | | | |
| 26 | 4 | 0.32 | | | | | 3.30 | |
| 33 | 4 | -0.19 | | | 3.22 | | | |
| 36 | 2 | 1.28 | 3.45 | | | | | |
| 38 | 2 | -1.22 | 3.08 | | | | | |
| 46 | 4 | -0.26 | | 3.21 | | | | |
| 48 | 4 | -0.45 | | 3.18 | | | | |
| 59 | 4 | -0.32 | | 3.20 | | | | |
| 64 | 4 | 0.06 | 3.26 | | | | | |
| 81 | 4 | -0.39 | | 3.19 | | | | |
| 83 | 1 | -1.67 | | 2.99 | | | | |
| 86 | 4 | 0.13 | | 3.27 | | | | |
| 89 | 3 | -0.58 | 3.16 | | | | | |
| 92 | 0 | -6.10 | 2.30 | | | | | |
| 93 | 0 | -2.18 | | | | | | 2.91 |
| 105 | 4 | 0.32 | | 3.30 | | | | |
| 110 | 4 | -0.32 | 3.20 | | | | | |
| 111 | 3 | -0.96 | 3.10 | | | | | |
| 113 | 3 | 0.71 | | 3.36 | | | | |
| 119 | 4 | 0.32 | | 3.30 | | | | |
| 134 | 4 | -0.40 | 3.19 | | | | | |
| 138 | 4 | -0.45 | | 3.18 | | | | |
| 140 | 3 | 0.64 | 3.35 | | | | | |
| 141 | 2 | 1.41 | | 3.47 | | | | |
| 145 | 4 | -0.26 | | 3.21 | | | | |
| 146 | 2 | -1.41 | | 3.03 | | | | |
| 147 | 0 | 3.53 | | 3.80 | | | | |
| 180 | 4 | 0.45 | | 3.32 | | | | |
| 185 | 3 | 0.90 | | | | | | 3.39 |
| 190 | 4 | -0.06 | | | | | 3.24 | |
| 191 | 4 | 0.19 | | | 3.28 | | | |
| 196 | 1 | 1.93 | 3.55 | | | | | |
| 215 | 3 | -0.96 | | 3.10 | | | | |
| 220 | 3 | 0.64 | 3.35 | | | | | |
| 221 | 4 | 0.19 | 3.28 | | | | | |
| 224 | 0 | 171.21 | | 29.90 | | | | |
| 237 | 3 | 0.90 | | 3.39 | | | | |
| 238 | 4 | 0.06 | | | | | 3.26 | |
| 241 | 4 | -0.32 | 3.20 | | | | | |
| 247 | 4 | 0.00 | | | | | 3.25 | |
| 255 | 3 | -0.53 | | 3.17 | | | | |
| 256 | 0 | -3.15 | | | | | | 2.76 |
| 257 | 1 | -1.73 | | | | | | 2.98 |
| 262 | 0 | -2.25 | | | | | | 2.90 |
| 265 | 4 | -0.13 | | 3.23 | | | | |

| Lab | Rating | Z-value | 1 | 4 | 5 | 6 | 7 | 12 |
|-----|--------|---------|------|------|---|------|---|-------|
| 268 | 2 | 1.35 | 3.46 | | | | | |
| 273 | 2 | 1.09 | | 3.42 | | | | |
| 274 | 0 | 78.56 | | | | | | 15.48 |
| 282 | 4 | -0.13 | | | | 3.23 | | |
| 284 | 2 | 1.48 | 3.48 | | | | | |
| 287 | 0 | 8.67 | 4.60 | | | | | |
| 289 | 2 | -1.41 | | 3.03 | | | | |

Table 18. Statistical summary of reported data for standard reference water sample P-28 (low ionic strength constituents)—Continued
pH



—○— 41

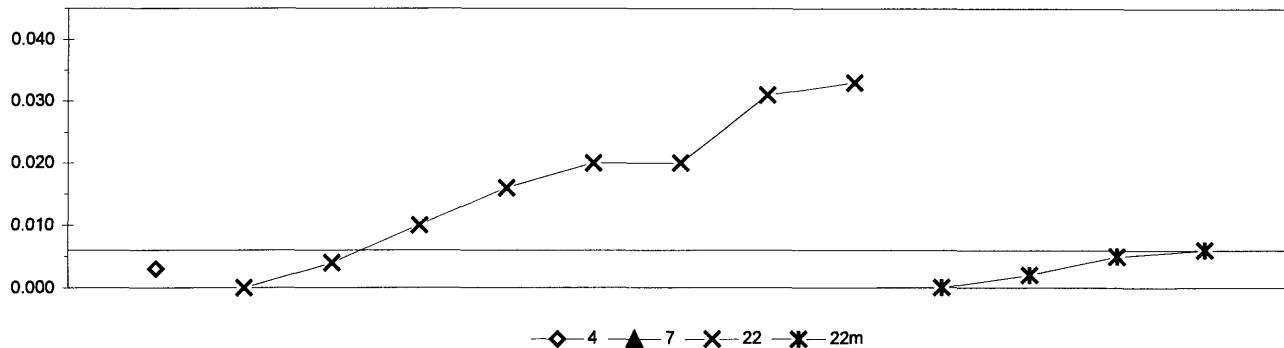
| | | | |
|-------------------|--------|------------------|------|
| 41. Electrometric | | | |
| | | N = | 60 |
| | | Minimum = | 5.76 |
| | | Maximum = | 8.93 |
| | | Median = | 6.75 |
| | | F-pseudostigma = | 0.21 |
| Lab | Rating | Z-value | 41 |

MPV = 6.75
F-pseudostigma = 0.34
N = 60
Hu = 6.90
HI = 6.62

| Lab | Rating | Z-value | 41 |
|-----|--------|---------|------|
| 1 | 4 | 0.21 | 6.82 |
| 2 | 3 | -0.94 | 6.43 |
| 3 | 4 | 0.12 | 6.79 |
| 11 | 4 | -0.09 | 6.72 |
| 23 | 4 | 0.03 | 6.76 |
| 25 | 2 | 1.04 | 7.10 |
| 26 | 4 | -0.15 | 6.70 |
| 33 | 4 | -0.09 | 6.72 |
| 36 | 2 | 1.04 | 7.10 |
| 38 | 4 | 0.45 | 6.90 |
| 39 | 4 | -0.15 | 6.70 |
| 46 | 0 | 6.47 | 8.93 |
| 48 | 1 | -1.63 | 6.20 |
| 59 | 0 | -2.94 | 5.76 |
| 64 | 4 | 0.33 | 6.86 |
| 81 | 3 | 0.71 | 6.99 |
| 86 | 3 | 0.62 | 6.96 |
| 89 | 2 | 1.28 | 7.18 |
| 92 | 2 | -1.16 | 6.36 |
| 93 | 4 | -0.12 | 6.71 |
| 96 | 3 | 0.98 | 7.08 |
| 105 | 1 | -1.54 | 6.23 |
| 107 | 4 | 0.06 | 6.77 |
| 110 | 4 | 0.55 | 6.94 |
| 111 | 4 | -0.06 | 6.73 |
| 113 | 4 | -0.12 | 6.71 |
| 119 | 4 | -0.42 | 6.61 |
| 134 | 4 | 0.17 | 6.81 |
| 138 | 3 | 1.07 | 7.11 |
| 140 | 0 | 2.31 | 7.53 |
| 141 | 4 | 0.09 | 6.78 |
| 143 | 4 | -0.15 | 6.70 |
| 146 | 2 | 1.36 | 7.21 |
| 158 | 3 | -0.92 | 6.44 |
| 180 | 4 | -0.15 | 6.70 |
| 185 | 4 | 0.15 | 6.80 |
| 190 | 4 | -0.45 | 6.60 |
| 196 | 2 | 1.19 | 7.15 |
| 203 | 3 | -0.71 | 6.51 |
| 204 | 4 | -0.30 | 6.65 |
| 209 | 4 | 0.42 | 6.89 |
| 215 | 4 | -0.15 | 6.70 |
| 221 | 4 | 0.45 | 6.90 |
| 224 | 4 | -0.39 | 6.62 |
| 237 | 4 | 0.30 | 6.85 |
| 238 | 0 | -2.61 | 5.87 |
| 241 | 2 | -1.45 | 6.26 |
| 244 | 4 | 0.09 | 6.78 |
| 247 | 4 | 0.33 | 6.86 |
| 255 | 3 | 0.74 | 7.00 |

| Lab | Rating | Z-value | 41 |
|-----|--------|---------|------|
| 256 | 0 | 4.15 | 8.15 |
| 262 | 4 | -0.06 | 6.73 |
| 265 | 2 | -1.07 | 6.39 |
| 268 | 4 | 0.45 | 6.90 |
| 273 | 4 | 0.07 | 6.77 |
| 274 | 4 | -0.15 | 6.70 |
| 282 | 3 | -0.74 | 6.50 |
| 284 | 2 | -1.42 | 6.27 |
| 287 | 2 | -1.16 | 6.36 |
| 289 | 4 | -0.06 | 6.73 |

Table 18. Statistical summary of reported data for standard reference water sample P-28 (low ionic strength constituents)--Continued
 PO₄ as P (Orthophosphate as phosphorus) mg/L

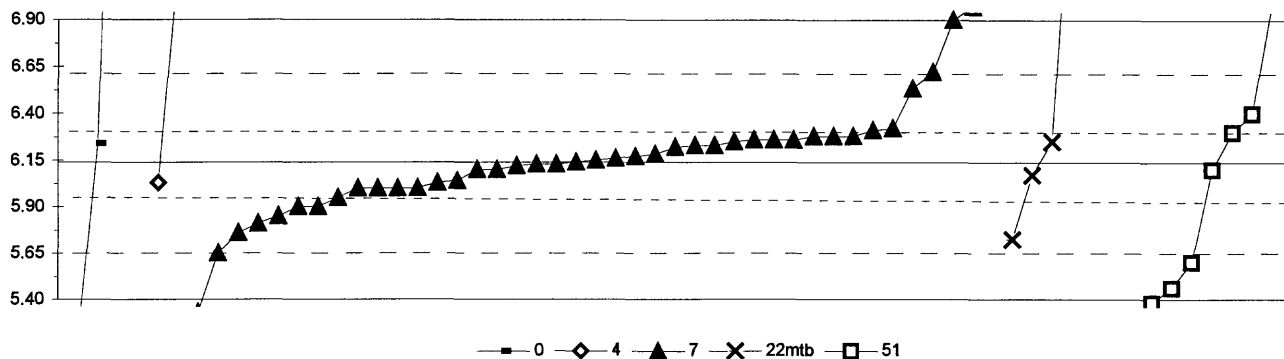


| 4. ICP | | 22m. Color:phosphomolybdate | | | |
|-----------------------|-----|-----------------------------|--------|-------|-------|
| 7. Ion chromatography | | | | | |
| 22. Colorimetric | | | | | |
| | N = | 1 | 0 | 8 | 4 |
| Minimum = | | 0.003 | < 0.01 | 0.000 | 0.000 |
| Maximum = | | | < 0.5 | 0.033 | 0.006 |
| Median = | | | | 0.018 | |
| F-pseudosigma = | | | | 0.014 | |

MPV = insufficient data
 F-pseudosigma =
 N = 13
 Hu =
 HI =

| Lab | Rating | Z-value | 4 | 7 | 22 | 22m |
|-----|--------|---------|-------|--------|---------|---------|
| 1 | NR | | | < 0.01 | | |
| 3 | NR | | | < 0.01 | | |
| 23 | NR | | | < 0.01 | | |
| 26 | NR | | | < 0.5 | | |
| 33 | NR | | | < 0.02 | | |
| 38 | NR | -0.48 | | | 0.000 | |
| 39 | NR | -0.16 | | | 0.004 | |
| 48 | NR | 1.98 | | | 0.031 | |
| 59 | NR | 1.11 | | | 0.020 | |
| 83 | NR | 0.79 | | | 0.016 | |
| 89 | NR | | | | < 0.002 | |
| 92 | NR | | | | < 0.005 | |
| 96 | NR | | | | < 0.01 | |
| 105 | NR | | | | < 0.002 | |
| 107 | NR | | | | < 0.002 | |
| 113 | NR | | | | < 0.004 | |
| 119 | NR | -0.48 | | | | 0.000 |
| 134 | NR | | | | | < 0.002 |
| 138 | NR | | | | < 0.004 | |
| 140 | NR | 1.11 | | | | 0.020 |
| 141 | NR | | | | | < 0.05 |
| 143 | NR | -0.32 | | | | 0.002 |
| 145 | NR | 0.32 | | | | 0.010 |
| 146 | NR | | | | | < 0.05 |
| 180 | NR | | | | < 0.01 | |
| 191 | NR | | | < 0.02 | | |
| 196 | NR | | | < 0.03 | | |
| 203 | NR | -0.08 | | | | 0.005 |
| 204 | NR | | | | | < 0.002 |
| 215 | NR | | | | | < 0.01 |
| 224 | NR | 0.00 | | | | 0.006 |
| 256 | NR | | | | < 0.02 | |
| 257 | NR | | | | | < 0.1 |
| 273 | NR | -0.24 | 0.003 | | | |
| 274 | NR | 2.14 | | | | 0.033 |
| 282 | NR | | | < 0.1 | | |
| 284 | NR | | | | < 0.1 | |
| 287 | NR | | | | | < 0.1 |

Table 18. Statistical summary of reported data for standard reference water sample P-28 (low ionic strength constituents)--Continued
SO₄ (Sulfate) mg/L



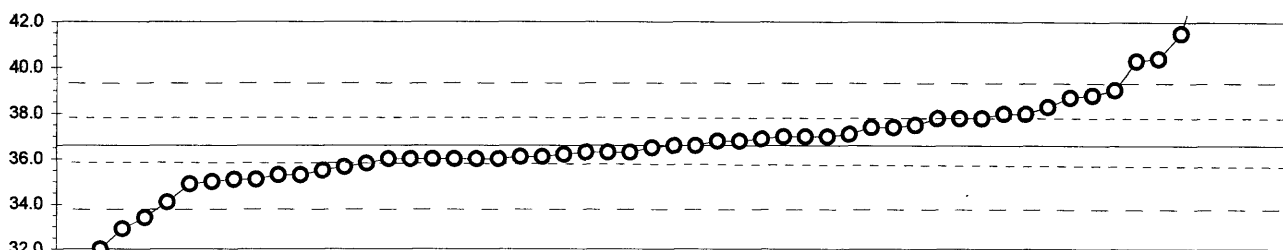
| 0. Other | | 22mtb. Color: methyl thymol blue | | | | | |
|-----------------------|--|----------------------------------|-------|------|------|------|------|
| 4. ICP | | 51. Turbidimetric | | | | | |
| 7. Ion chromatography | | N = | 4 | 2 | 41 | 4 | 10 |
| | | Minimum = | 5.18 | 6.03 | 5.33 | 5.73 | 4.05 |
| | | Maximum = | 11.50 | 7.22 | 7.02 | 7.88 | 7.00 |
| | | Median = | | | 6.15 | | 5.53 |
| | | F-pseudosigma = | | | 0.19 | | 0.74 |

MPV = 6.14
F-pseudosigma = 0.25
N = 61
Hu = 6.28
HI = 5.95

| Lab | Rating | Z-value | 0 | 4 | 7 | 22mtb | 51 |
|-----|--------|---------|-------|------|---|-------|------|
| 1 | 3 | 0.57 | | | | 6.28 | |
| 2 | 3 | -0.78 | | | | 5.95 | |
| 3 | 3 | -0.56 | | | | 6.00 | |
| 11 | 0 | 3.58 | | | | 7.02 | |
| 23 | 4 | 0.41 | 6.24 | | | | |
| 25 | 0 | 3.09 | | | | 6.90 | |
| 26 | 4 | 0.37 | | | | 6.23 | |
| 33 | 4 | -0.08 | | | | 6.12 | |
| 36 | 0 | -3.08 | | | | | 5.38 |
| 39 | 2 | -1.17 | | | | 5.85 | |
| 46 | 3 | -0.56 | | | | 6.00 | |
| 59 | 0 | 3.38 | | | | 6.97 | |
| 64 | 4 | -0.04 | | | | 6.13 | |
| 81 | 0 | 7.07 | | | | | 7.88 |
| 83 | 4 | -0.44 | 6.03 | | | | |
| 86 | 3 | 0.57 | | | | 6.28 | |
| 89 | 3 | -0.56 | | | | 6.00 | |
| 92 | 0 | -3.41 | | | | | 5.30 |
| 93 | 1 | -1.54 | | | | 5.76 | |
| 96 | 2 | 1.06 | | | | | 6.40 |
| 105 | 4 | -0.44 | | | | 6.03 | |
| 110 | 4 | 0.18 | | | | 6.18 | |
| 111 | 4 | -0.40 | | | | 6.04 | |
| 113 | 4 | 0.49 | | | | 6.26 | |
| 119 | 1 | -1.99 | | | | 5.65 | |
| 134 | 4 | 0.37 | | | | 6.23 | |
| 138 | 4 | 0.49 | | | | 6.26 | |
| 140 | 0 | -4.63 | | | | | 5.00 |
| 141 | 4 | 0.49 | | | | 6.26 | |
| 145 | 3 | 0.69 | | | | 6.31 | |
| 146 | 0 | -3.90 | 5.18 | | | | |
| 147 | 4 | 0.09 | | | | 6.16 | |
| 158 | 4 | -0.04 | | | | 6.13 | |
| 180 | 4 | 0.45 | | | | 6.25 | |
| 183 | 0 | -2.19 | | | | | 5.60 |
| 185 | 3 | 0.57 | | | | 6.28 | |
| 190 | 3 | -0.56 | | | | 6.00 | |
| 191 | 4 | 0.13 | | | | 6.17 | |
| 196 | 1 | 1.95 | | | | 6.62 | |
| 203 | 1 | -1.68 | | | | | 5.73 |
| 204 | 4 | -0.28 | | | | 6.07 | |
| 209 | 4 | 0.33 | | | | 6.22 | |
| 215 | 0 | 3.50 | | | | | 7.00 |
| 220 | 4 | 0.45 | | | | 6.25 | |
| 221 | 0 | 21.78 | 11.50 | | | | |
| 224 | 1 | 1.60 | | | | 6.53 | |
| 235 | 0 | 4.39 | | 7.22 | | | |
| 238 | 2 | -1.34 | | | | 5.81 | |
| 241 | 3 | -0.97 | | | | 5.90 | |
| 247 | 0 | -3.29 | | | | 5.33 | |

| Lab | Rating | Z-value | 0 | 4 | 7 | 22mtb | 51 |
|-----|--------|---------|------|---|------|-------|------|
| 256 | 0 | 14.06 | 9.60 | | | | |
| 257 | 4 | -0.16 | | | 6.10 | | |
| 262 | 0 | -8.49 | | | | | 4.05 |
| 265 | 3 | -0.97 | | | 5.90 | | |
| 268 | 4 | 0.04 | | | 6.15 | | |
| 273 | 4 | 0.00 | | | 6.14 | | |
| 274 | 4 | -0.16 | | | | | 6.10 |
| 282 | 3 | 0.74 | | | 6.32 | | |
| 284 | 0 | -2.76 | | | | | 5.46 |
| 287 | 3 | 0.65 | | | | | 6.30 |
| 289 | 4 | -0.16 | | | 6.10 | | |

Table 18. Statistical summary of reported data for standard reference water sample P-28 (low ionic strength constituents)--Continued
Sp Cond (Specific Conductance) $\mu\text{S}/\text{cm}$



○ 41

| 41. Electrometric | | | |
|-------------------|--------|---------|----|
| N = | 55 | | |
| Minimum = | 30.0 | | |
| Maximum = | 865.0 | | |
| Median = | 36.6 | | |
| F-pseudostigma = | 1.4 | | |
| Lab | Rating | Z-value | 41 |

MPV = 36.6
F-pseudostigma = 1.8
N = 55
Hu = 37.8
HI = 35.9

| | | | |
|-----|---|--------|-------|
| 1 | 4 | 0.11 | 36.8 |
| 2 | 3 | -0.52 | 35.6 |
| 3 | 4 | -0.33 | 36.0 |
| 11 | 4 | -0.27 | 36.1 |
| 23 | 4 | -0.33 | 36.0 |
| 25 | 4 | 0.22 | 37.0 |
| 26 | 4 | -0.27 | 36.1 |
| 33 | 3 | 0.93 | 38.3 |
| 36 | 3 | -0.87 | 35.0 |
| 38 | 3 | 0.66 | 37.8 |
| 39 | 4 | -0.33 | 36.0 |
| 46 | 0 | 9.40 | 53.8 |
| 48 | 4 | -0.33 | 36.0 |
| 64 | 0 | -2.02 | 32.9 |
| 81 | 4 | 0.44 | 37.4 |
| 86 | 3 | 0.66 | 37.8 |
| 89 | 3 | 0.66 | 37.8 |
| 93 | 2 | 1.34 | 39.1 |
| 96 | 2 | 1.15 | 38.7 |
| 105 | 4 | -0.16 | 36.3 |
| 107 | 4 | 0.00 | 36.6 |
| 111 | 3 | -0.93 | 34.9 |
| 113 | 4 | -0.33 | 36.0 |
| 119 | 4 | 0.22 | 37.0 |
| 134 | 4 | 0.11 | 36.8 |
| 138 | 4 | 0.16 | 36.9 |
| 140 | 3 | 0.77 | 38.0 |
| 141 | 2 | 1.20 | 38.8 |
| 145 | 0 | -19.45 | < 1 |
| 146 | 0 | 2.08 | 40.4 |
| 158 | 2 | -1.37 | 34.1 |
| 180 | 4 | 0.22 | 37.0 |
| 185 | 3 | -0.71 | 35.3 |
| 190 | 0 | 2.02 | 40.3 |
| 193 | 3 | -0.60 | 35.5 |
| 196 | 0 | 452.68 | 865.0 |
| 203 | 0 | 2.68 | 41.5 |
| 204 | 4 | -0.05 | 36.5 |
| 215 | 4 | 0.00 | 36.6 |
| 224 | 4 | 0.49 | 37.5 |
| 237 | 3 | -0.71 | 35.3 |
| 238 | 0 | -2.51 | 32.0 |
| 241 | 0 | -3.61 | 30.0 |
| 244 | 4 | -0.44 | 35.8 |
| 247 | 4 | -0.16 | 36.3 |
| 255 | 3 | -0.82 | 35.1 |
| 256 | 0 | 4.54 | 44.9 |
| 257 | 4 | -0.16 | 36.3 |
| 262 | 3 | 0.77 | 38.0 |
| 268 | 4 | -0.22 | 36.2 |

| Lab | Rating | Z-value | 41 |
|-----|--------|---------|------|
| 273 | 4 | 0.44 | 37.4 |
| 274 | 1 | -1.75 | 33.4 |
| 282 | 4 | -0.33 | 36.0 |
| 284 | 0 | 4.59 | 45.0 |
| 287 | 4 | 0.27 | 37.1 |
| 289 | 3 | -0.82 | 35.1 |

Table 19. *Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)*

Definition of analytical methods, abbreviations, and symbols

Analytical methods

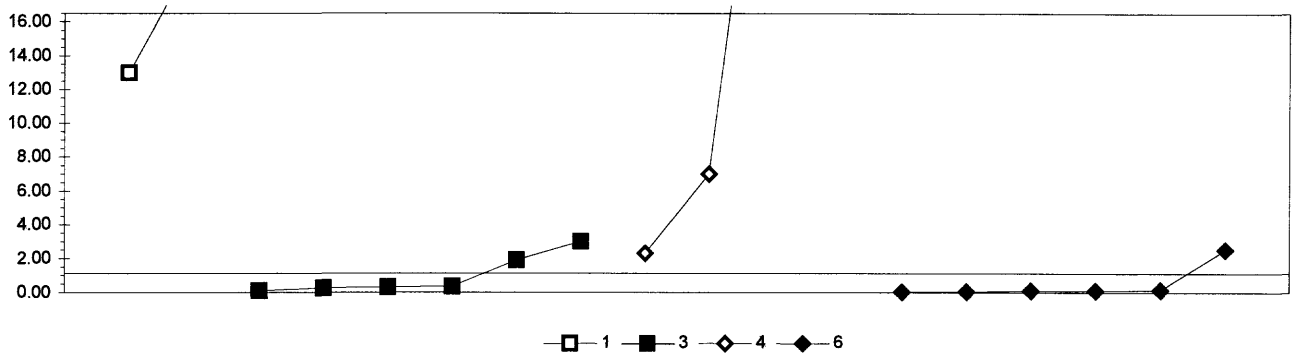
| | | |
|---------------------------------|---|--|
| 0. Other/Not reported | = | |
| 1. AA: direct, air | = | atomic absorption: direct,air |
| 2. AA: direct, N ₂ O | = | atomic absorption: direct,nitrous oxide |
| 3. AA: graphite furnace | = | atomic absorption: graphite furnace |
| 4. ICP | = | inductively coupled plasma |
| 5. DCP | = | direct current plasma |
| 6. ICP/MS | = | inductively coupled plasma/mass spectrometry |
| 10. AA: extraction | = | atomic absorption: extraction [chelating agent(s) specified] |
| 11. AA: hydride | = | atomic absorption: hydride [reducing agent specified] |
| 12. Flame emission | = | flame emission |
| 22. Color: | = | colorimetric [color reagent specified] |

Abbreviations and symbols

| | | |
|---------------|---|-------------------------------------|
| N | = | number of samples |
| MPV | = | most probable value |
| F-pseudosigma | = | nonparametric statistic deviation |
| Hu | = | upper hinge value |
| Hi | = | lower hinge value |
| µg/L | = | micrograms per liter |
| mg/L | = | milligrams per liter |
| Lab | = | laboratory code number |
| NR | = | not rated, less than value reported |
| < | = | less than |

| <u>Constituent</u> | <u>page</u> | <u>Constituent</u> | <u>page</u> |
|--------------------|-------------|-------------------------|-------------|
| Ag Silver | 154 | Li Lithium | 168 |
| Al Aluminium | 155 | Mg Magnesium | 169 |
| As Arsenic | 156 | Mn Manganese | 170 |
| B Boron | 157 | Mo Molybdenum | 171 |
| Ba Barium | 158 | Na Sodium | 172 |
| Be Beryllium | 159 | Ni Nickel | 173 |
| Ca Calcium | 160 | Pb Lead | 174 |
| Cd Cadmium | 161 | Sb Antimony | 175 |
| Cl Chloride | 162 | Se Selenium | 176 |
| Co Cobalt | 163 | SiO ₂ Silica | 177 |
| Cr Chromium | 164 | SO ₄ Sulfate | 178 |
| Cu Copper | 165 | Sr Strontium | 179 |
| Fe Iron | 166 | V Vanadium | 180 |
| K Potassium | 167 | Zn Zinc | 181 |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Ag (Silver) µg/L

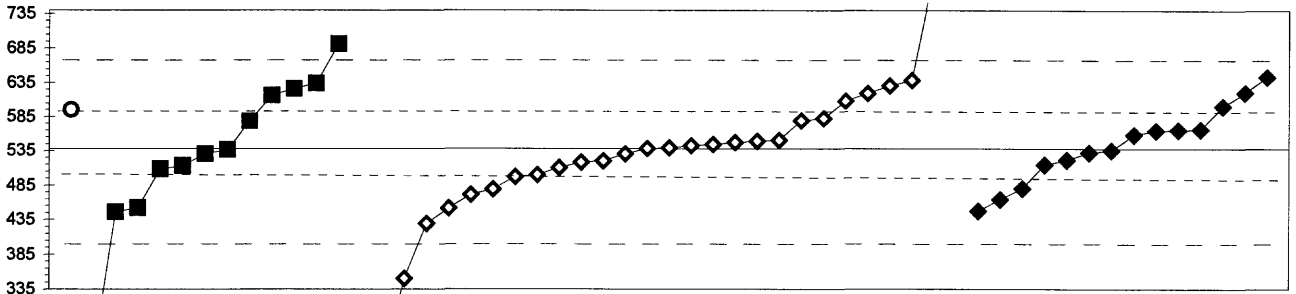


| 1. AA: direct air | | 6. ICP/MS | | | | |
|-------------------------|--|------------------|-------|------|-------|------|
| 3. AA: graphite furnace | | N = | 2 | 6 | 4 | 6 |
| 4. ICP | | Minimum = | 13.00 | 0.10 | 2.30 | 0.02 |
| | | Maximum = | 20.00 | 3.00 | 39.10 | 2.51 |
| | | Median = | | | | |
| | | F-pseudostigma = | | | | |

MPV = insufficient data
F-pseudostigma =
N = 18
Hu =
Hi =

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|-------|-------|--------|-------|
| 1 | NR | | | < 1 | | |
| 3 | NR | 1.15 | | | 7.00 | |
| 12 | NR | | | < 0.2 | | |
| 13 | NR | | | | < 10 | |
| 16 | NR | | | | | < 1 |
| 18 | NR | | | | < 3 | |
| 26 | NR | | | < 0.2 | | |
| 30 | NR | | | | | < 1 |
| 32 | NR | | | | | < 0.1 |
| 34 | NR | | | < 0.2 | | |
| 42 | NR | | | | | < 1 |
| 48 | NR | | | | | < 0.6 |
| 59 | NR | | | < 5 | | |
| 61 | NR | | | | < 2 | |
| 69 | NR | | | < 1 | | |
| 81 | NR | | | < 1 | | |
| 89 | NR | | | < 2 | | |
| 113 | NR | | | < 0.5 | | |
| 126 | NR | -0.16 | | 0.30 | | |
| 127 | NR | | | < 0.2 | | |
| 134 | NR | | | < 1 | | |
| 138 | NR | -0.20 | | | | 0.09 |
| 140 | NR | 3.69 | 20.00 | | | |
| 141 | NR | 7.43 | | | 39.10 | |
| 142 | NR | 0.27 | | | | 2.51 |
| 146 | NR | | | | < 10 | |
| 147 | NR | | | | | < 0.2 |
| 149 | NR | | | < 0.1 | | |
| 151 | NR | -0.21 | | | | 0.02 |
| 180 | NR | | | | < 3.22 | |
| 190 | NR | -0.15 | | 0.35 | | |
| 196 | NR | -0.20 | | | | 0.09 |
| 203 | NR | | | < 2 | | |
| 212 | NR | -0.19 | | | | 0.14 |
| 215 | NR | | | < 1 | | |
| 221 | NR | -0.20 | | 0.10 | | |
| 235 | NR | | | | < 5 | |
| 241 | NR | | | < 1 | | |
| 247 | NR | | | < 1 | | |
| 255 | NR | -0.17 | | 0.26 | | |
| 256 | NR | 2.32 | 13.00 | | | |
| 257 | NR | 0.15 | | 1.89 | | |
| 259 | NR | 0.23 | | | 2.30 | |
| 265 | NR | -0.21 | | | | 0.03 |
| 273 | NR | 6.92 | | | 36.50 | |
| 282 | NR | | | | | < 10 |
| 284 | NR | 0.37 | | 3.00 | | |
| 289 | NR | | | < 0.5 | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Al (Aluminum) μg/L



○ 2 ■ 3 ◇ 4 ◆ 6

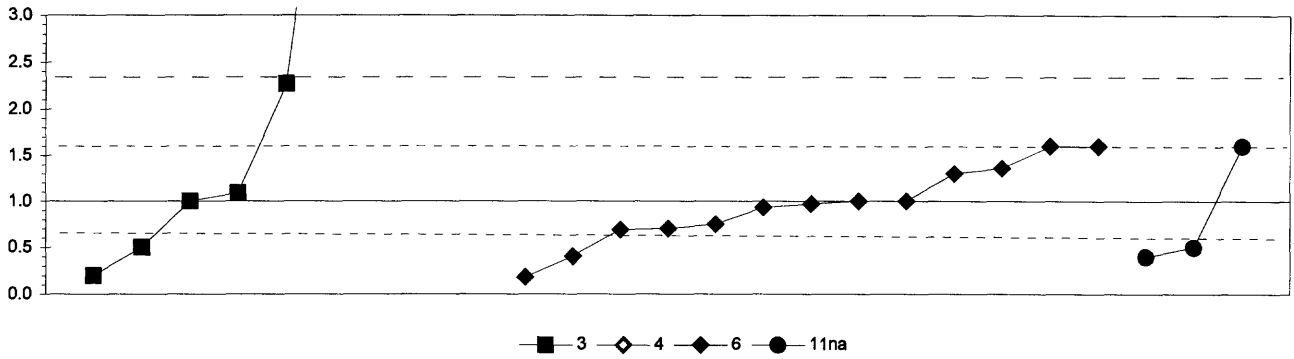
| | | | | | |
|-----------------------------|-----------------|-----|-----|-----|-----|
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | |
| 3. AA: graphite furnace | | | | | |
| 4. ICP | | | | | |
| | N = | 1 | 12 | 28 | 14 |
| | Minimum = | 595 | 234 | 117 | 447 |
| | Maximum = | | 691 | 847 | 643 |
| | Median = | | 533 | 539 | 547 |
| | F-pseudosigma = | | 105 | 69 | 39 |

MPV = 538
F-pseudosigma = 67
N = 55
Hu = 589
Hi = 499

| Lab | Rating | Z-value | 2 | 3 | 4 | 6 |
|-----|--------|---------|---|-----|-----|-----|
| 1 | 4 | -0.36 | | | | 514 |
| 3 | 4 | -0.42 | | | 510 | |
| 11 | 4 | -0.12 | | | 530 | |
| 13 | 4 | -0.37 | | 513 | | |
| 16 | 2 | -1.11 | | | | 464 |
| 18 | 3 | -0.61 | | | 497 | |
| 26 | 4 | 0.18 | | | 550 | |
| 30 | 2 | 1.23 | | | | 620 |
| 32 | 4 | 0.40 | | | | 565 |
| 34 | 3 | 0.60 | | 578 | | |
| 42 | 3 | 0.66 | | | 582 | |
| 46 | 4 | 0.00 | | | 538 | |
| 48 | 4 | -0.09 | | | | 532 |
| 59 | 3 | -0.57 | | | 500 | |
| 61 | 2 | 1.21 | | | 619 | |
| 69 | 4 | -0.45 | | 508 | | |
| 81 | 2 | 1.05 | | | 608 | |
| 83 | 3 | -0.88 | | | 479 | |
| 86 | 3 | 0.61 | | | 579 | |
| 89 | 2 | -1.38 | | 446 | | |
| 111 | 2 | 1.32 | | 626 | | |
| 113 | 4 | 0.09 | | | 544 | |
| 119 | 2 | -1.36 | | | | 447 |
| 127 | 4 | 0.01 | | | 539 | |
| 134 | 0 | 3.84 | | | 794 | |
| 138 | 4 | 0.13 | | | 547 | |
| 141 | 3 | -1.00 | | | 471 | |
| 142 | 4 | 0.06 | | | 542 | |
| 146 | 4 | -0.30 | | | 518 | |
| 147 | 3 | -0.87 | | | | 480 |
| 151 | 1 | 1.57 | | | | 643 |
| 154 | 0 | -6.31 | | | 117 | |
| 158 | 2 | 1.50 | | | 638 | |
| 180 | 4 | -0.27 | | | 520 | |
| 190 | 2 | 1.17 | | 616 | | |
| 191 | 4 | -0.04 | | | | 535 |
| 196 | 4 | 0.30 | | | | 558 |
| 203 | 0 | 2.29 | | 691 | | |
| 212 | 0 | -2.82 | | | 350 | |
| 215 | 0 | 4.63 | | | 847 | |
| 219 | 2 | 1.38 | | | 630 | |
| 221 | 2 | 1.44 | | 634 | | |
| 224 | 0 | -4.77 | | | 220 | |
| 235 | 4 | -0.25 | | | | 521 |
| 241 | 4 | -0.03 | | 536 | | |
| 247 | 4 | 0.39 | | | | 564 |
| 255 | 4 | 0.16 | | | 549 | |
| 257 | 0 | -4.56 | | 234 | | |
| 259 | 2 | -1.30 | | | 452 | |
| 265 | 3 | 0.93 | | | | 600 |

| Lab | Rating | Z-value | 2 | 3 | 4 | 6 |
|-----|--------|---------|-----|-----|-----|-----|
| 273 | 1 | -1.63 | | | 429 | |
| 282 | 4 | 0.42 | | | | 566 |
| 284 | 2 | -1.29 | | 452 | | |
| 287 | 3 | 0.85 | 595 | | | |
| 289 | 4 | -0.12 | | 530 | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
As (Arsenic) $\mu\text{g/L}$

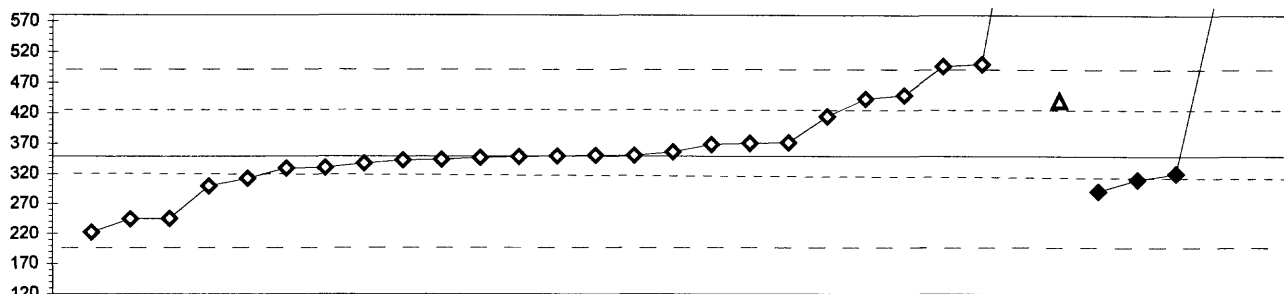


| 3. AA: graphite furnace | | 11na. AA: hydride NaBH ₄ | | | |
|-------------------------|-----------------|-------------------------------------|-------|-----|-----|
| 4. ICP | | | | | |
| 6. ICP/MS | | | | | |
| | N = | 7 | 2 | 13 | 3 |
| | Minimum = | 0.2 | 23.1 | 0.2 | 0.4 |
| | Maximum = | 8.0 | 310.0 | 1.6 | 1.6 |
| | Median = | 1.1 | | 1.0 | |
| | F-pseudosigma = | 2.6 | | 0.4 | |

MPV = 1.0
F-pseudosigma = 0.7
N = 25
Hu = 1.6
HI = 0.7

| Lab | Rating | Z-value | 3 | 4 | 6 | 11na |
|-----|--------|---------|-------|-------|-----|------|
| 1 | NR | | < 1 | | | |
| 3 | NR | | | < 5 | | |
| 13 | NR | | < 5 | | | |
| 16 | 3 | 0.89 | | | 1.6 | |
| 18 | NR | | < 1 | | | |
| 26 | 3 | -0.74 | | | | 0.5 |
| 30 | 4 | 0.00 | | | 1.0 | |
| 32 | 4 | -0.10 | | | 0.9 | |
| 34 | 2 | -1.19 | 0.2 | | | |
| 42 | 4 | 0.44 | | | 1.3 | |
| 48 | 4 | -0.44 | | | 0.7 | |
| 59 | NR | | | | < 2 | |
| 61 | NR | | | < 4.5 | | |
| 69 | NR | | < 5 | | | |
| 80 | 0 | 7.86 | 6.3 | | | |
| 81 | NR | | | < 2 | | |
| 86 | 3 | -0.89 | | | 0.4 | |
| 89 | NR | | | | < 2 | |
| 111 | NR | | < 2 | | | |
| 113 | NR | | < 1.5 | | | |
| 119 | 3 | 0.89 | | | 1.6 | |
| 127 | NR | | < 2 | | | |
| 134 | 4 | 0.13 | 1.1 | | | |
| 138 | NR | | | | < 1 | |
| 141 | NR | | < 5 | | | |
| 142 | 3 | -0.88 | | | 0.4 | |
| 146 | 0 | 32.76 | | 23.1 | | |
| 147 | 4 | -0.46 | | | 0.7 | |
| 149 | NR | | < 1 | | | |
| 151 | 4 | -0.37 | | | 0.8 | |
| 180 | 0 | 458.07 | | 310.0 | | |
| 191 | 3 | 0.53 | | | 1.4 | |
| 196 | 4 | -0.05 | | | 1.0 | |
| 212 | 2 | -1.21 | | | 0.2 | |
| 215 | NR | | < 5 | | | |
| 224 | NR | | | < 12 | | |
| 235 | 1 | 1.88 | 2.3 | | | |
| 241 | 3 | -0.74 | 0.5 | | | |
| 247 | NR | | < 5 | | | |
| 255 | NR | | < 5.6 | | | |
| 256 | 3 | 0.89 | | | 1.6 | |
| 257 | NR | | < 0.3 | | | |
| 265 | 4 | 0.00 | | | 1.0 | |
| 282 | NR | | | | < 5 | |
| 284 | 4 | 0.00 | 1.0 | | | |
| 289 | 0 | 10.38 | 8.0 | | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
 B (Boron) µg/L



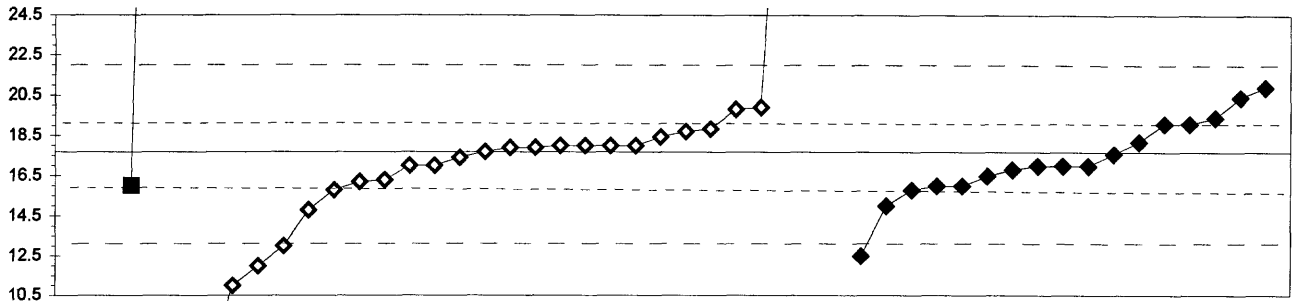
◇ 4 △ 5 ◆ 6 × 22az

| | | 22az. Color: azomethine | | | |
|-----------|------------------|-------------------------|-----|-----|-----|
| 4. ICP | | | | | |
| 5. DCP | | | | | |
| 6. ICP/MS | | | | | |
| | N = | 25 | 1 | 4 | 1 |
| | Minimum = | 222 | 440 | 290 | 770 |
| | Maximum = | 860 | | 604 | |
| | Median = | 349 | | | |
| | F-pseudostigma = | 30 | | | |

MPV = 349
 F-pseudostigma = 76
 N = 31
 Hu = 427
 HI = 325

| Lab | Rating | Z-value | 4 | 5 | 6 | 22az |
|-----|--------|---------|-----|-----|---|------|
| 1 | 2 | 1.20 | | 440 | | |
| 3 | 4 | -0.26 | 329 | | | |
| 11 | 4 | 0.29 | 371 | | | |
| 16 | 2 | 1.32 | 449 | | | |
| 18 | 4 | 0.00 | 349 | | | |
| 26 | 3 | -0.66 | 299 | | | |
| 32 | 3 | -0.51 | | 310 | | |
| 42 | 4 | -0.01 | 348 | | | |
| 46 | 4 | 0.09 | 356 | | | |
| 48 | 0 | 6.73 | 860 | | | |
| 61 | 1 | -1.67 | 222 | | | |
| 86 | 4 | -0.49 | 312 | | | |
| 127 | 4 | -0.08 | 343 | | | |
| 129 | 0 | 5.54 | | | | 770 |
| 134 | 4 | -0.03 | 346 | | | |
| 138 | 4 | 0.01 | 350 | | | |
| 141 | 1 | 1.95 | 497 | | | |
| 142 | 3 | 0.86 | 414 | | | |
| 147 | 4 | -0.38 | | 320 | | |
| 154 | 4 | -0.16 | 337 | | | |
| 158 | 4 | -0.09 | 342 | | | |
| 180 | 2 | -1.38 | 244 | | | |
| 212 | 2 | 1.24 | 443 | | | |
| 215 | 4 | 0.01 | 350 | | | |
| 247 | 3 | -0.78 | | 290 | | |
| 255 | 4 | 0.25 | 368 | | | |
| 259 | 4 | 0.28 | 370 | | | |
| 265 | 4 | -0.25 | 330 | | | |
| 273 | 2 | -1.37 | 245 | | | |
| 282 | 0 | 3.36 | | 604 | | |
| 289 | 1 | 1.99 | 500 | | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Ba (Barium) µg/L



Legend: 1 (square), 2 (circle), 3 (filled square), 4 (diamond), 6 (filled diamond), 12 (filled circle)

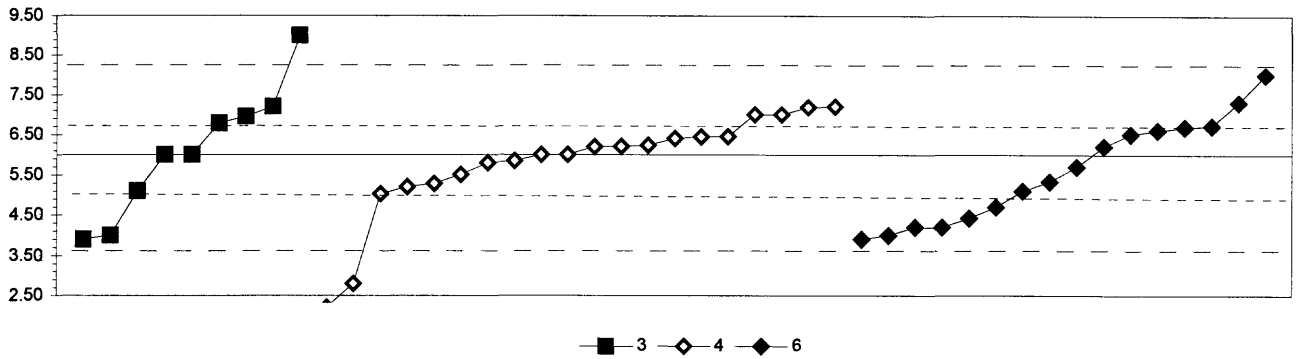
| | | | | | | |
|-----------------------------|--------------------|------|------|------|------|-------|
| 1. AA: direct air | 4. ICP | | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | | |
| 3. AA: graphite furnace | 12. Flame emission | | | | | |
| N = | 1 | 0 | 2 | 27 | 17 | 1 |
| Minimum = | 1516 | < 50 | 16.0 | 3.0 | 12.5 | 520.0 |
| Maximum = | | | 72.0 | 46.7 | 20.9 | |
| Median = | | | | 17.9 | 17.0 | |
| F-pseudostigma = | | | | 1.9 | 2.3 | |

MPV = 17.7
F-pseudostigma = 2.3
N = 48
Hu = 19.1
HI = 16.0

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 | 12 |
|-----|--------|---------|--------|---|------|------|------|-------|
| 1 | 4 | -0.28 | | | | | 17.0 | |
| 3 | 0 | -4.63 | | | | 7.0 | | |
| 11 | 4 | 0.15 | | | | 18.0 | | |
| 13 | 4 | 0.11 | | | | 17.9 | | |
| 16 | 3 | 0.63 | | | | | 19.1 | |
| 18 | 4 | 0.15 | | | | 18.0 | | |
| 26 | 4 | 0.46 | | | | 18.7 | | |
| 30 | 0 | -2.24 | | | | | 12.5 | |
| 32 | 4 | -0.02 | | | | | 17.6 | |
| 42 | 4 | 0.15 | | | | 18.0 | | |
| 46 | 0 | -6.39 | | | | 3.0 | | |
| 48 | 4 | -0.50 | | | | | 16.5 | |
| 59 | 4 | -0.28 | | | | | 17.0 | |
| 61 | 3 | 0.94 | | | | 19.8 | | |
| 69 | NR | | | | < 50 | | | |
| 81 | 1 | -2.02 | | | | 13.0 | | |
| 83 | 3 | -0.59 | | | | 16.3 | | |
| 86 | 4 | -0.11 | | | | 17.4 | | |
| 89 | NR | | | | < 50 | | | |
| 113 | 2 | -1.24 | | | | 14.8 | | |
| 127 | 3 | -0.81 | | | | 15.8 | | |
| 134 | 4 | 0.15 | | | | 18.0 | | |
| 138 | 3 | -0.81 | | | | | 15.8 | |
| 140 | 0 | 652.02 | 1516.0 | | | | | |
| 141 | 4 | -0.28 | | | | 17.0 | | |
| 142 | 3 | 0.63 | | | | | 19.1 | |
| 146 | 3 | -0.63 | | | | 16.2 | | |
| 147 | 2 | -1.15 | | | | | 15.0 | |
| 151 | 3 | 0.76 | | | | | 19.4 | |
| 154 | 0 | -2.89 | | | | 11.0 | | |
| 158 | 0 | 11.07 | | | | 43.1 | | |
| 180 | 4 | 0.02 | | | | 17.7 | | |
| 191 | 2 | 1.20 | | | | | 20.4 | |
| 196 | 4 | -0.37 | | | | | 16.8 | |
| 212 | 3 | -0.72 | | | | | 16.0 | |
| 215 | 0 | 9.73 | | | | 40.0 | | |
| 219 | 4 | -0.28 | | | | 17.0 | | |
| 220 | 3 | 0.51 | | | | 18.8 | | |
| 224 | 3 | 0.98 | | | | 19.9 | | |
| 235 | 2 | 1.41 | | | | | 20.9 | |
| 241 | 3 | -0.72 | | | 16.0 | | | |
| 247 | 4 | -0.28 | | | | | 17.0 | |
| 255 | 4 | 0.34 | | | | 18.4 | | |
| 256 | NR | | | | < 50 | | | |
| 259 | 4 | 0.11 | | | | 17.9 | | |
| 265 | 4 | 0.24 | | | | | 18.2 | |
| 270 | 0 | 218.60 | | | | | | 520.0 |
| 273 | 0 | 12.64 | | | | 46.7 | | |
| 282 | 3 | -0.72 | | | | | 16.0 | |
| 284 | 0 | 23.65 | | | 72.0 | | | |

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 | 12 |
|-----|--------|---------|---|---|---|------|---|----|
| 289 | 0 | -2.46 | | | | 12.0 | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
 Be (Beryllium) µg/L

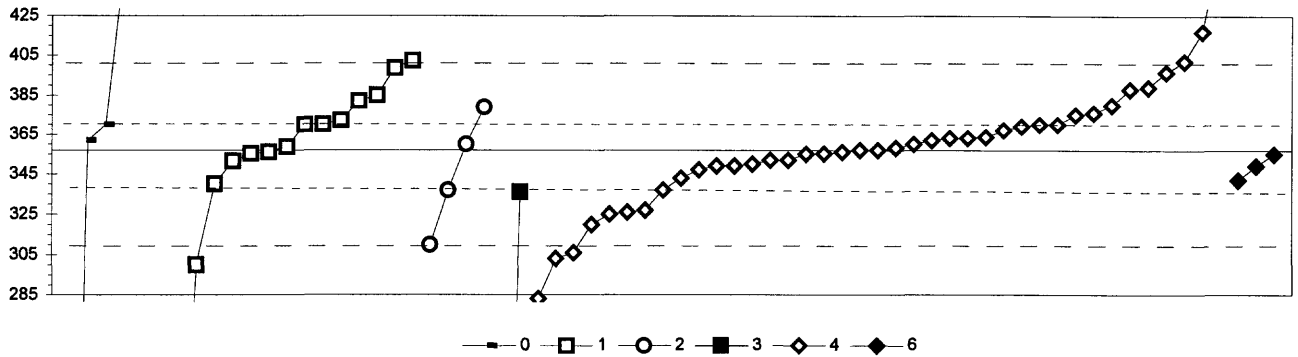


| | | | | |
|-------------------------|------------------|------|------|------|
| 3. AA: graphite furnace | | | | |
| 4. ICP | | | | |
| 6. ICP/MS | | | | |
| | N = | 9 | 20 | 16 |
| | Minimum = | 3.90 | 2.20 | 3.90 |
| | Maximum = | 9.00 | 7.20 | 8.00 |
| | Median = | 6.00 | 6.10 | 5.52 |
| | F-pseudostigma = | 1.37 | 0.78 | 1.73 |

MPV = 6.00
 F-pseudostigma = 1.17
 N = 45
 Hu = 6.68
 HI = 5.10

| Lab | Rating | Z-value | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|
| 1 | 3 | 0.61 | | | 6.72 |
| 3 | 4 | 0.00 | | 6.00 | |
| 13 | 0 | -3.24 | | 2.20 | |
| 16 | 4 | -0.26 | | | 5.70 |
| 18 | 4 | 0.17 | | 6.20 | |
| 26 | 3 | -0.61 | | 5.28 | |
| 30 | 1 | -1.54 | | | 4.20 |
| 32 | 3 | 0.51 | | | 6.60 |
| 36 | 1 | -1.79 | 3.90 | | |
| 42 | 2 | -1.11 | | | 4.70 |
| 46 | 4 | -0.42 | | 5.51 | |
| 48 | 1 | -1.79 | | | 3.90 |
| 59 | 1 | -1.71 | | | 4.00 |
| 61 | 4 | 0.34 | | 6.40 | |
| 69 | 3 | 0.81 | 6.95 | | |
| 81 | 1 | -1.71 | 4.00 | | |
| 83 | 3 | -0.68 | | 5.20 | |
| 86 | 2 | 1.02 | | 7.20 | |
| 89 | 3 | 0.67 | 6.78 | | |
| 113 | 4 | -0.13 | | 5.85 | |
| 119 | 3 | -0.57 | | | 5.33 |
| 127 | 3 | -0.83 | | 5.03 | |
| 134 | 4 | 0.38 | | 6.45 | |
| 138 | 4 | 0.38 | | 6.44 | |
| 141 | 3 | 0.85 | | 7.00 | |
| 142 | 3 | 0.58 | | | 6.68 |
| 146 | 2 | 1.01 | | 7.18 | |
| 147 | 1 | -1.54 | | | 4.20 |
| 149 | 4 | 0.00 | 6.00 | | |
| 151 | 1 | 1.71 | | | 8.00 |
| 154 | 2 | 1.02 | 7.20 | | |
| 180 | 4 | -0.17 | | 5.80 | |
| 196 | 4 | 0.44 | | | 6.51 |
| 212 | 2 | -1.35 | | | 4.42 |
| 215 | 4 | 0.00 | 6.00 | | |
| 219 | 4 | 0.00 | | 6.00 | |
| 220 | 4 | 0.20 | | 6.23 | |
| 224 | 0 | -2.73 | | 2.80 | |
| 241 | 3 | -0.77 | 5.10 | | |
| 247 | 3 | -0.77 | | | 5.10 |
| 255 | 4 | 0.16 | | 6.19 | |
| 265 | 2 | 1.11 | | | 7.30 |
| 282 | 4 | 0.17 | | | 6.20 |
| 284 | 0 | 2.56 | 9.00 | | |
| 289 | 3 | 0.85 | | 7.00 | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Ca (Calcium) mg/L



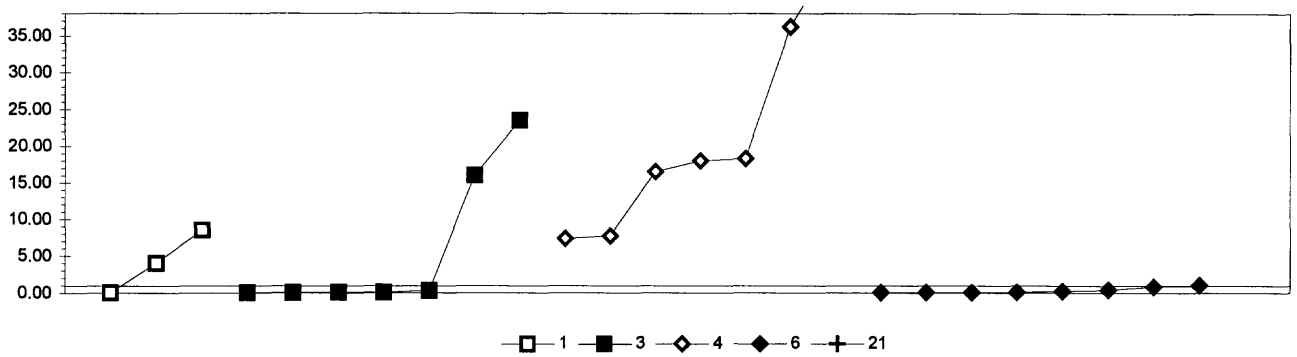
| | | | | | |
|-----------------------------|-------------------------|-----|-----|-----|-----|
| 0. Other | 3. AA: graphite furnace | | | | |
| 1. AA: direct air | 4. ICP | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | |
| N = 4 | 16 | 4 | 2 | 39 | 3 |
| Minimum = 0 | 42 | 310 | 29 | 283 | 342 |
| Maximum = 452 | 402 | 379 | 336 | 460 | 355 |
| Median = 357 | 357 | 357 | | | |
| F-pseudosigma = 42 | 42 | 16 | | | |

MPV = 357
F-pseudosigma = 23
N = 68
Hu = 370
HI = 339

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-----|---|-----|-----|-----|-----|
| 1 | 0 | -3.14 | | | | | 283 | |
| 3 | 2 | 1.34 | | | | | 388 | |
| 11 | 3 | 0.79 | | | | | 375 | |
| 12 | 0 | 4.42 | | | | | 460 | |
| 13 | 2 | 1.39 | | | | | 389 | |
| 16 | 4 | 0.06 | | | | | 358 | |
| 18 | 3 | -0.83 | | | | | 337 | |
| 26 | 4 | -0.19 | | | | | 352 | |
| 30 | 3 | -0.83 | | | 337 | | | |
| 32 | 4 | -0.06 | | | | | | 355 |
| 36 | 1 | -1.99 | | | 310 | | | |
| 42 | 1 | 1.71 | | | | | 397 | |
| 43 | 4 | 0.02 | | | | | 357 | |
| 46 | 4 | -0.32 | | | | | 349 | |
| 48 | 0 | 2.58 | | | | | 417 | |
| 59 | 3 | 0.58 | | | | | 370 | |
| 61 | 3 | -0.58 | | | | | 343 | |
| 68 | 3 | 1.00 | | | | | 380 | |
| 69 | 4 | -0.02 | 356 | | | | | |
| 81 | 3 | -0.88 | | | | 336 | | |
| 83 | 2 | -1.34 | | | | | 325 | |
| 86 | 3 | 0.83 | | | | | 376 | |
| 89 | 3 | -0.70 | 340 | | | | | |
| 92 | 0 | -2.41 | 300 | | | | | |
| 111 | 3 | 0.96 | | | 379 | | | |
| 113 | 1 | 1.94 | | | | | 402 | |
| 119 | 3 | 0.53 | | | | | 369 | |
| 127 | 0 | -2.16 | | | | | 306 | |
| 129 | 2 | 1.22 | 385 | | | | | |
| 134 | 4 | 0.28 | | | | | 363 | |
| 138 | 4 | 0.15 | | | | | 360 | |
| 140 | 3 | 0.66 | 372 | | | | | |
| 141 | 4 | -0.32 | | | | | 349 | |
| 142 | 2 | -1.26 | | | | | 327 | |
| 146 | 1 | -1.56 | | | | | 320 | |
| 147 | 4 | -0.06 | | | | | 355 | |
| 149 | 0 | -11.12 | 96 | | | | | |
| 151 | 0 | -13.41 | 42 | | | | | |
| 154 | 2 | -1.30 | | | | | 326 | |
| 158 | 4 | 0.23 | | | | | 362 | |
| 180 | 4 | 0.02 | | | | | 357 | |
| 185 | 4 | 0.09 | 359 | | | | | |
| 191 | 4 | -0.32 | | | | | | 349 |
| 196 | 3 | 0.58 | 370 | | | | | |
| 203 | 2 | 1.09 | 382 | | | | | |
| 212 | 4 | -0.19 | | | | | 352 | |
| 215 | 3 | 0.58 | | | | | 370 | |
| 219 | 4 | 0.45 | | | | | 367 | |
| 220 | 4 | -0.21 | 352 | | | | | |
| 221 | 0 | -8.94 | 147 | | | | | |

| Lab | Rating | Z-value | 0 | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-----|-----|-----|----|-----|-----|
| 224 | 4 | 0.30 | | | | | 364 | |
| 235 | 0 | -2.28 | | | | | 303 | |
| 241 | 3 | 0.58 | | 370 | | | | |
| 247 | 4 | 0.23 | 362 | | | | | |
| 255 | 4 | -0.40 | | | | | 347 | |
| 256 | 4 | 0.15 | | | 360 | | | |
| 262 | 3 | 0.57 | 370 | | | | | |
| 265 | 4 | 0.28 | | | | | 363 | |
| 268 | 1 | 1.80 | | 399 | | | | |
| 270 | 0 | 4.06 | 452 | | | | | |
| 272 | 0 | -15.22 | 0 | | | | | |
| 273 | 4 | -0.06 | | | | | 355 | |
| 274 | 0 | -13.97 | | | | 29 | | |
| 282 | 3 | -0.62 | | | | | | 342 |
| 284 | 1 | 1.96 | | 402 | | | | |
| 287 | 4 | -0.06 | | 355 | | | | |
| 289 | 4 | -0.28 | | | | | 350 | |
| 292 | 4 | -0.02 | | | | | 356 | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Cd (Cadmium) $\mu\text{g/L}$



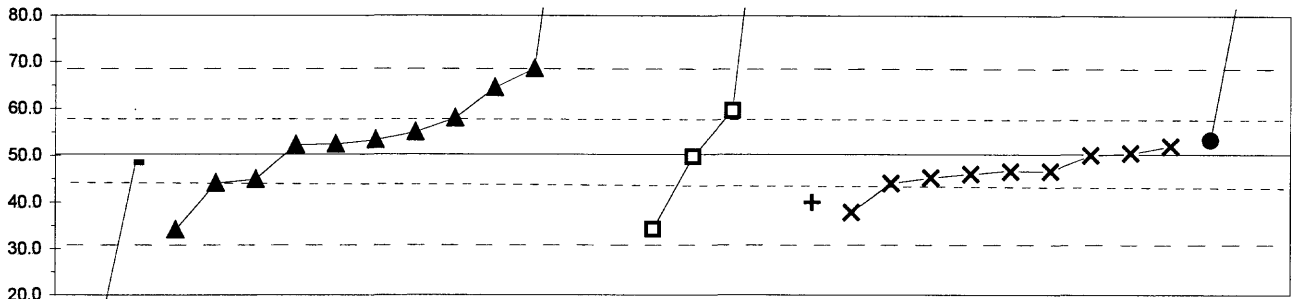
| | |
|-------------------------|---------------------------------------|
| 1. AA: direct air | 6. ICP/MS |
| 3. AA: graphite furnace | 21. Titrate: electrometric |
| 4. ICP | |
| N = | 3 7 7 8 1 |
| Minimum = | 0.03 0.06 7.33 0.04 56.80 |
| Maximum = | 8.50 23.49 46.40 1.06 |
| Median = | |
| F-pseudostigma = | |

MPV = insufficient data
F-pseudostigma =
N = 26
Hu =
Hi =

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 | 21 |
|-----|--------|---------|--------|--------|--------|-------|----|
| 1 | NR | | < 1 | | | | |
| 3 | NR | | | < 0.5 | | | |
| 12 | NR | | < 0.1 | | | | |
| 13 | NR | | | 18.00 | | | |
| 16 | NR | | | | 0.40 | | |
| 18 | NR | | | | < 3 | | |
| 26 | NR | | < 0.2 | | | | |
| 30 | NR | | | | | < 1 | |
| 32 | NR | | | | | < 0.1 | |
| 34 | NR | | 0.06 | | | | |
| 42 | NR | | | | | < 2 | |
| 48 | NR | | | | | 0.10 | |
| 59 | NR | | | | | < 2 | |
| 61 | NR | | | | < 0.5 | | |
| 69 | NR | | < 1 | | | | |
| 81 | NR | | < 2 | | | | |
| 83 | NR | | | < 5 | | | |
| 86 | NR | | | 36.20 | | | |
| 89 | NR | | < 1 | | | | |
| 92 | NR | 8.50 | | | | | |
| 111 | NR | | < 0.5 | | | | |
| 113 | NR | | | 46.40 | | | |
| 119 | NR | | | | 0.06 | | |
| 126 | NR | | < 1 | | | | |
| 127 | NR | | | < 3 | | | |
| 134 | NR | | < 1 | | | | |
| 138 | NR | | | | 0.04 | | |
| 140 | NR | 0.03 | | | | | |
| 141 | NR | | < 0.5 | | | | |
| 142 | NR | | | | < 2 | | |
| 146 | NR | | | 7.33 | | | |
| 147 | NR | | | | 0.04 | | |
| 151 | NR | | | | < 0.04 | | |
| 180 | NR | | | < 4.11 | | | |
| 190 | NR | | 16.00 | | | | |
| 191 | NR | | | | 1.06 | | |
| 196 | NR | | | | 0.22 | | |
| 203 | NR | | < 0.5 | | | | |
| 212 | NR | | | | < 0.1 | | |
| 215 | NR | | < 1 | | | | |
| 220 | NR | | | 16.50 | | | |
| 221 | NR | | 0.07 | | | | |
| 224 | NR | | | 7.70 | | | |
| 235 | NR | | 0.06 | | | | |
| 241 | NR | | 0.30 | | | | |
| 247 | NR | | < 1 | | | | |
| 255 | NR | | < 0.28 | | | | |
| 256 | NR | | < 1 | | | | |
| 257 | NR | 4.00 | | | | | |
| 259 | NR | | | 18.30 | | | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 | 21 |
|-----|--------|---------|---|-------|---|------|-------|
| 262 | NR | | | | | | 56.80 |
| 265 | NR | | | | | 0.85 | |
| 274 | NR | | | 23.49 | | | |
| 282 | NR | | | < 1 | | | |
| 284 | NR | | | < 1 | | | |
| 287 | NR | | | < 1 | | | |
| 289 | NR | | | 0.10 | | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
 Cl (Chloride) mg/L



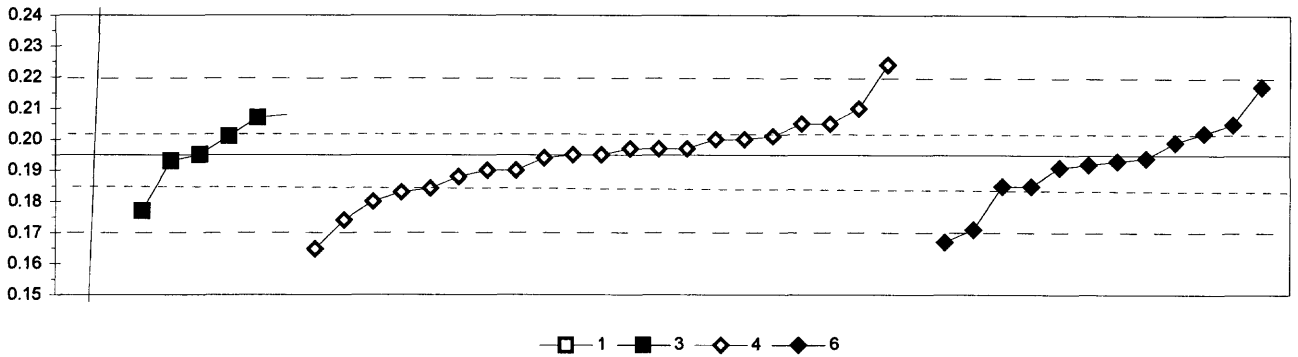
—■— 0 —▲— 7 —□— 20 —+— 21 —X— 22 —●— 40

| | | | | | | |
|---------------------------|-----------------------------|------|-------|-------|------|------|
| 0. Other | 21. Titrate: electrometric | | | | | |
| 7. Ion chromatography | 22. Colorimetric | | | | | |
| 20. Titrate: colorimetric | 40. Ion selective electrode | | | | | |
| | N = | 2 | 12 | 4 | 1 | 9 |
| | Minimum = | 7.0 | 34.0 | 34.2 | 40.0 | 37.8 |
| | Maximum = | 48.4 | 150.0 | 133.0 | | 52.0 |
| | Median = | | 54.2 | | | 46.6 |
| | F-pseudostigma = | | 13.3 | | | 3.6 |

| | | | |
|------------------|------|----|------|
| MPV = | 50.3 | 3 | 79.4 |
| F-pseudostigma = | 9.7 | 2 | 69.7 |
| N = | 30 | -2 | 30.8 |
| Hu = | 57.9 | -3 | 21.1 |
| HI = | 44.8 | | |

| Lab | Rating | Z-value | 0 | 7 | 20 | 21 | 22 | 40 |
|-----|--------|---------|------|-------|-------|------|------|------|
| 3 | 4 | 0.03 | | | | | | 50.5 |
| 11 | 2 | -1.28 | | | | | | 37.8 |
| 12 | 4 | -0.44 | | | | | | 46.0 |
| 26 | 3 | -0.56 | | 44.8 | | | | |
| 32 | 4 | 0.22 | | 52.4 | | | | |
| 36 | 4 | -0.06 | | | 49.7 | | | |
| 43 | 4 | 0.32 | | | | | | 53.4 |
| 48 | 3 | -0.64 | | | | | 44.0 | |
| 61 | 4 | -0.19 | 48.4 | | | | | |
| 81 | 0 | -4.46 | 7.0 | | | | | |
| 86 | 0 | 5.02 | | | | | | 99.0 |
| 89 | 0 | 10.27 | | 150.0 | | | | |
| 92 | 3 | 0.96 | | | 59.6 | | | |
| 119 | 3 | -0.64 | | 44.0 | | | | |
| 129 | 1 | -1.67 | | 34.0 | | | | |
| 140 | 4 | 0.18 | | | | | | 52.0 |
| 141 | 4 | -0.38 | | | | | | 46.6 |
| 158 | 4 | -0.03 | | | | | | 50.0 |
| 180 | 3 | 0.79 | | 57.9 | | | | |
| 215 | 0 | 8.52 | | | 133.0 | | | |
| 220 | 3 | -0.52 | | | | | | 45.2 |
| 241 | 1 | 1.88 | | 68.5 | | | | |
| 247 | 4 | 0.31 | | 53.3 | | | | |
| 257 | 2 | -1.06 | | | | 40.0 | | |
| 265 | 4 | 0.49 | | 55.0 | | | | |
| 268 | 0 | 8.39 | | 131.7 | | | | |
| 274 | 1 | -1.65 | | | 34.2 | | | |
| 282 | 2 | 1.46 | | 64.4 | | | | |
| 284 | 4 | -0.38 | | | | | | 46.6 |
| 292 | 4 | 0.21 | | 52.3 | | | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Co (Cobalt) μg/L

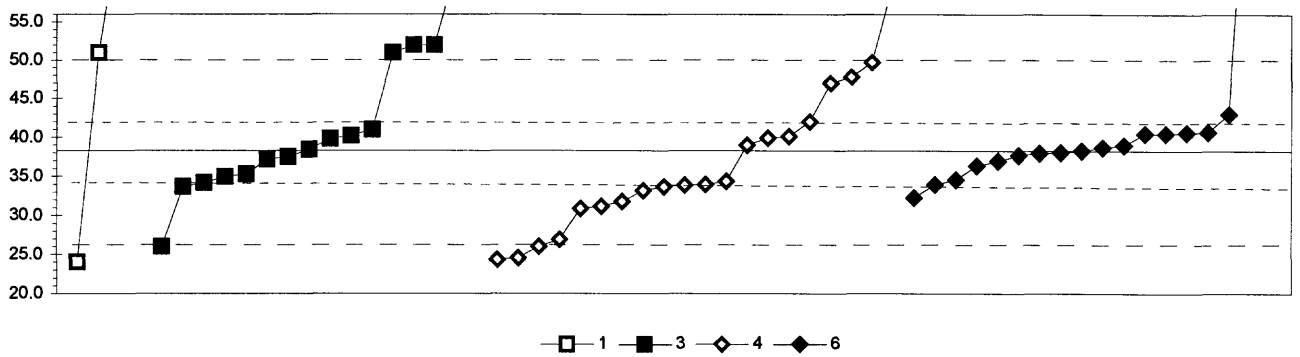


| | | | | | |
|-------------------------|------------------|------|-------|------|------|
| 1. AA: direct air | 6. ICP/MS | | | | |
| 3. AA: graphite furnace | | | | | |
| 4. ICP | N = | 2 | 6 | 22 | 12 |
| | Minimum = | 0.10 | 0.18 | 0.16 | 0.17 |
| | Maximum = | 0.36 | 31.90 | 2.11 | 0.22 |
| | Median = | | | 0.20 | 0.19 |
| | F-pseudostigma = | | | 0.01 | 0.01 |

MPV = 0.20
F-pseudostigma = 0.01
N = 42
Hu = 0.20
Hi = 0.19

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|-------|------|------|
| 1 | 4 | 0.00 | | 0.20 | | |
| 3 | 4 | 0.00 | | | 0.20 | |
| 13 | 3 | -0.95 | | | 0.18 | |
| 16 | 4 | -0.24 | | | | 0.19 |
| 18 | 3 | -0.56 | | | 0.19 | |
| 26 | 4 | -0.40 | | | 0.19 | |
| 30 | 4 | 0.32 | | | | 0.20 |
| 32 | 1 | -1.90 | | | | 0.17 |
| 46 | 1 | -1.67 | | | 0.17 | |
| 48 | 2 | -1.19 | | | 0.18 | |
| 61 | 4 | 0.40 | | | 0.20 | |
| 81 | 4 | 0.16 | | | 0.20 | |
| 86 | 0 | 2.30 | | | 0.22 | |
| 89 | 4 | -0.16 | | 0.19 | | |
| 92 | 0 | -7.22 | 0.10 | | | |
| 119 | 4 | -0.08 | | | | 0.19 |
| 127 | 4 | 0.48 | | 0.20 | | |
| 134 | 4 | 0.16 | | | 0.20 | |
| 138 | 4 | 0.48 | | | 0.20 | |
| 141 | 4 | 0.00 | | | 0.20 | |
| 142 | 1 | 1.75 | | | | 0.22 |
| 146 | 4 | -0.08 | | | 0.19 | |
| 147 | 0 | -2.22 | | | | 0.17 |
| 180 | 3 | 0.79 | | | 0.21 | |
| 191 | 3 | 0.79 | | | | 0.21 |
| 196 | 3 | 0.56 | | | | 0.20 |
| 212 | 4 | -0.16 | | | | 0.19 |
| 215 | 2 | 1.19 | | | 0.21 | |
| 219 | 4 | 0.40 | | | 0.20 | |
| 220 | 4 | -0.40 | | | 0.19 | |
| 224 | 0 | -2.40 | | | 0.16 | |
| 235 | 3 | -0.79 | | | | 0.19 |
| 247 | 3 | -0.79 | | | | 0.19 |
| 255 | 3 | -0.85 | | | 0.18 | |
| 256 | 0 | 13.09 | 0.36 | | | |
| 257 | 0 | 2516 | | 31.90 | | |
| 259 | 4 | 0.16 | | | 0.20 | |
| 265 | 3 | 0.79 | | | 0.21 | |
| 273 | 0 | 151.96 | | | 2.11 | |
| 282 | 4 | -0.32 | | | | 0.19 |
| 284 | 3 | 0.95 | | 0.21 | | |
| 289 | 2 | -1.43 | | 0.18 | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Cr (Chromium) $\mu\text{g/L}$



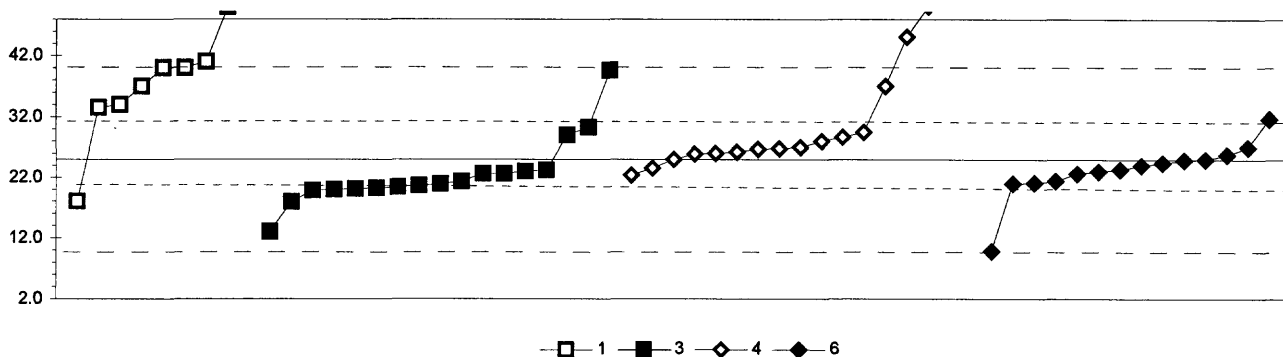
| 1. AA: direct air | | | 6. ICP/MS | | | | |
|-------------------------|--|--|-----------------|-------|------|------|------|
| 3. AA: graphite furnace | | | N = | 4 | 16 | 20 | 17 |
| 4. ICP | | | Minimum = | 24.0 | 26.0 | 24.3 | 32.3 |
| | | | Maximum = | 160.0 | 71.0 | 60.0 | 85.0 |
| | | | Median = | | 39.1 | 34.0 | 38.3 |
| | | | F-pseudosigma = | | 12.1 | 7.4 | 2.6 |

MPV = 38.3
F-pseudosigma = 5.9
N = 57
Hu = 42.0
Hi = 34.0

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|-------|------|------|------|
| 1 | 4 | -0.32 | | | | 36.4 |
| 3 | 2 | 1.47 | | | 47.0 | |
| 11 | 3 | 0.62 | | | 42.0 | |
| 12 | 0 | 3.66 | | | 60.0 | |
| 13 | 1 | -1.92 | | | 26.9 | |
| 16 | 4 | -0.22 | | | | 37.0 |
| 18 | 3 | -0.73 | | | 34.0 | |
| 26 | 3 | -0.78 | | | 33.7 | |
| 30 | 0 | 7.87 | | | | 85.0 |
| 32 | 4 | 0.12 | | | | 39.0 |
| 36 | 3 | -0.56 | | 35.0 | | |
| 42 | 2 | -1.01 | | | | 32.3 |
| 46 | 3 | -0.78 | | 33.7 | | |
| 48 | 4 | 0.40 | | | | 40.7 |
| 59 | 4 | -0.05 | | | | 38.0 |
| 61 | 2 | -1.10 | | | 31.8 | |
| 69 | 3 | -0.69 | | 34.2 | | |
| 81 | 0 | 2.31 | | 52.0 | | |
| 83 | 4 | 0.30 | | | 40.1 | |
| 86 | 3 | -0.86 | | | 33.2 | |
| 89 | 4 | 0.25 | | 39.8 | | |
| 92 | 0 | -2.41 | 24.0 | | | |
| 111 | 0 | 2.31 | | 52.0 | | |
| 113 | 4 | 0.27 | | | 39.9 | |
| 119 | 4 | 0.07 | | | | 38.7 |
| 126 | 0 | 2.14 | | 51.0 | | |
| 127 | 4 | -0.13 | | 37.5 | | |
| 134 | 4 | 0.12 | | | 39.0 | |
| 138 | 3 | -0.74 | | | 33.9 | |
| 140 | 0 | 20.52 | 160.0 | | | |
| 141 | 1 | 1.92 | | | 49.7 | |
| 142 | 4 | 0.37 | | | | 40.5 |
| 146 | 2 | -1.25 | | | 30.9 | |
| 147 | 3 | -0.73 | | | | 34.0 |
| 151 | 4 | -0.03 | | | | 38.1 |
| 154 | 4 | 0.32 | | 40.2 | | |
| 158 | 0 | -2.36 | | | 24.3 | |
| 180 | 0 | -2.33 | | | 24.5 | |
| 190 | 3 | -0.51 | | 35.3 | | |
| 191 | 4 | 0.37 | | | | 40.5 |
| 196 | 4 | 0.39 | | | | 40.6 |
| 212 | 4 | -0.10 | | | | 37.7 |
| 215 | 0 | -2.07 | | | 26.0 | |
| 221 | 4 | 0.46 | | 41.0 | | |
| 235 | 4 | 0.00 | | | | 38.3 |
| 241 | 4 | 0.02 | | 38.4 | | |
| 247 | 4 | -0.19 | | 37.2 | | |
| 255 | 2 | -1.20 | | | 31.2 | |
| 256 | 0 | 5.01 | 68.0 | | | |
| 257 | 0 | 3.96 | | 61.8 | | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|------|
| 259 | 1 | 1.60 | | | 47.8 | |
| 265 | 3 | 0.79 | | | | 43.0 |
| 273 | 3 | -0.66 | | | 34.4 | |
| 282 | 3 | -0.62 | | | | 34.6 |
| 284 | 0 | -2.07 | | | 26.0 | |
| 287 | 0 | 2.14 | 51.0 | | | |
| 289 | 0 | 5.51 | | 71.0 | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Cu (Copper) $\mu\text{g/L}$



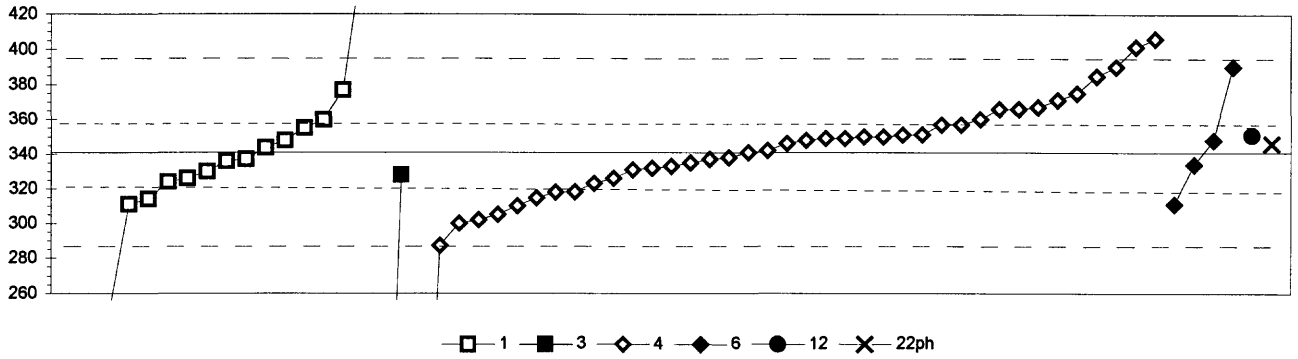
| 1. AA: direct air | | 6. ICP/MS | | | | |
|-------------------------|--|-----------------|------|------|------|------|
| 3. AA: graphite furnace | | N = | 9 | 17 | 17 | 14 |
| 4. ICP | | Minimum = | 18.0 | 13.0 | 22.4 | 9.8 |
| | | Maximum = | 57.0 | 39.6 | 59.0 | 31.7 |
| | | Median = | 40.0 | 20.9 | 27.0 | 23.7 |
| | | F-pseudosigma = | 5.2 | 2.1 | 8.2 | 2.7 |

MPV = 25.0
F-pseudosigma = 7.6
N = 57
Hu = 31.7
Hi = 21.4

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|---|-------|------|
| 1 | 4 | -0.48 | 21.3 | | | |
| 3 | 4 | 0.13 | | | 26.0 | |
| 11 | 4 | 0.39 | | | 28.0 | |
| 12 | 3 | -0.65 | 20.0 | | | |
| 13 | 3 | 0.59 | | | 29.5 | |
| 16 | 4 | -0.31 | | | | 22.6 |
| 18 | 4 | 0.00 | | | 25.0 | |
| 26 | 4 | -0.24 | 23.2 | | | |
| 30 | 4 | -0.13 | | | 24.0 | |
| 32 | 3 | 0.88 | | | 31.7 | |
| 36 | 3 | -0.64 | 20.1 | | | |
| 42 | 1 | -1.99 | | | 9.8 | |
| 46 | 3 | -0.60 | 20.4 | | | |
| 48 | 4 | 0.10 | | | 25.8 | |
| 59 | 4 | -0.26 | | | 23.0 | |
| 61 | 4 | 0.16 | | | 26.2 | |
| 69 | 3 | -0.63 | 20.2 | | | |
| 81 | 4 | -0.26 | 23.0 | | | |
| 83 | 0 | 2.89 | | | <3 | |
| 86 | 0 | 3.29 | | | 50.1 | |
| 89 | 1 | 1.91 | 39.6 | | | |
| 92 | 1 | 1.57 | 37.0 | | | |
| 111 | 3 | 0.69 | 30.3 | | | |
| 113 | 0 | -3.13 | | | < 1.2 | |
| 119 | 0 | 3.27 | 50.0 | | | |
| 126 | 0 | 4.19 | 57.0 | | | |
| 127 | 4 | -0.20 | | | 23.5 | |
| 134 | 4 | -0.31 | 22.6 | | | |
| 138 | 4 | -0.47 | | | 21.4 | |
| 140 | 1 | 1.96 | 40.0 | | | |
| 141 | 4 | 0.22 | | | 26.7 | |
| 142 | 4 | -0.08 | | | 24.4 | |
| 146 | 4 | 0.12 | | | 25.9 | |
| 147 | 4 | 0.00 | | | 25.0 | |
| 149 | 0 | 2.10 | 41.0 | | | |
| 151 | 4 | -0.22 | | | 23.3 | |
| 154 | 3 | -0.68 | 19.8 | | | |
| 158 | 0 | 2.63 | | | 45.1 | |
| 180 | 4 | 0.48 | | | 28.7 | |
| 190 | 3 | -0.58 | 20.6 | | | |
| 191 | 4 | -0.01 | | | 24.9 | |
| 196 | 4 | 0.26 | | | 27.0 | |
| 203 | 2 | 1.11 | 33.5 | | | |
| 212 | 4 | 0.24 | | | 26.8 | |
| 215 | 0 | 4.45 | | | 59.0 | |
| 220 | 1 | 1.57 | | | 37.0 | |
| 221 | 4 | -0.31 | 22.6 | | | |
| 224 | 0 | -2.50 | | | < 6 | |
| 235 | NR | | | | < 10 | |
| 241 | 3 | -0.93 | 17.9 | | | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|------|------|------|
| 247 | 3 | -0.51 | | | | 21.1 |
| 255 | 4 | -0.35 | | | 22.4 | |
| 256 | 2 | 1.18 | 34.0 | | | |
| 257 | 3 | -0.92 | 18.0 | | | |
| 259 | 4 | 0.26 | | | 27.0 | |
| 265 | 3 | -0.52 | | | | 21.0 |
| 273 | 0 | 4.22 | | | 57.2 | |
| 274 | 3 | 0.52 | | 29.0 | | |
| 282 | NR | | | | | < 10 |
| 284 | 1 | -1.57 | | 13.0 | | |
| 287 | 1 | 1.96 | 40.0 | | | |
| 289 | 3 | -0.54 | | 20.9 | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Fe (Iron) mg/L



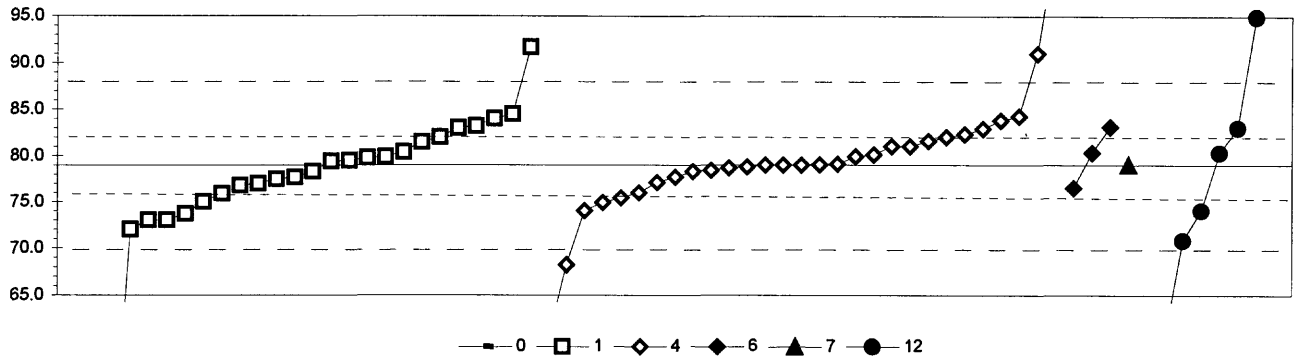
| | | | | | |
|-------------------------|---------------------------|-----|-----|-----|-----|
| 1. AA: direct air | 6. ICP/MS | | | | |
| 3. AA: graphite furnace | 12. Flame emission | | | | |
| 4. ICP | 22. Color: phenanthroline | | | | |
| N = 16 | 2 | 39 | 5 | 1 | 1 |
| Minimum = 151 | 1 | 34 | 311 | 351 | 346 |
| Maximum = 455 | 328 | 406 | 390 | | |
| Median = 333 | | 346 | | | |
| F-pseudsigma = 29 | | 25 | | | |

MPV = 341
F-pseudsigma = 26
N = 63
Hu = 356
HI = 321

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 | 12 | 22ph |
|-----|--------|---------|-----|-----|--------|-----|-----|------|
| 1 | 3 | -0.69 | | | 323 | | | |
| 3 | 3 | 0.95 | | | 366 | | | |
| 11 | 4 | -0.23 | | | 335 | | | |
| 12 | 4 | -0.38 | | | 331 | | | |
| 13 | 4 | 0.00 | | | 341 | | | |
| 16 | 3 | -1.00 | | | 315 | | | |
| 18 | 3 | -0.57 | | | 326 | | | |
| 26 | 4 | 0.38 | | | 351 | | | |
| 30 | 4 | -0.42 | 330 | | | | | |
| 32 | 1 | 1.87 | | | | 390 | | |
| 36 | 3 | 0.53 | 355 | | | | | |
| 42 | 1 | 1.66 | | | 385 | | | |
| 43 | 0 | -11.70 | | | 34 | | | |
| 46 | 4 | -0.34 | | | 332 | | | |
| 48 | 0 | -13.11 | | | < 0.03 | | | |
| 59 | 2 | -1.18 | | | 310 | | | |
| 61 | 0 | 2.48 | | | 406 | | | |
| 69 | 3 | -0.65 | 324 | | | | | |
| 81 | 3 | 0.61 | | | 357 | | | |
| 83 | 0 | -2.06 | | | 287 | | | |
| 86 | 4 | 0.30 | | | 349 | | | |
| 89 | 4 | -0.50 | | 328 | | | | |
| 92 | 0 | -7.24 | 151 | | | | | |
| 111 | 4 | -0.19 | 336 | | | | | |
| 113 | 2 | 1.14 | | | 371 | | | |
| 119 | 2 | 1.29 | | | 375 | | | |
| 126 | 0 | 4.34 | 455 | | | | | |
| 127 | 4 | 0.04 | | | 342 | | | |
| 129 | 4 | 0.18 | | | | | | 346 |
| 134 | 4 | 0.30 | | | 349 | | | |
| 138 | 4 | 0.27 | | | 348 | | | |
| 140 | 2 | -1.03 | 314 | | | | | |
| 141 | 4 | -0.11 | | | 338 | | | |
| 142 | 3 | 0.95 | | | 366 | | | |
| 146 | 3 | 0.99 | | | 367 | | | |
| 147 | 1 | 1.87 | | | 390 | | | |
| 149 | 3 | -0.57 | 326 | | | | | |
| 151 | 4 | -0.27 | | | | 334 | | |
| 154 | 2 | -1.37 | | | 305 | | | |
| 158 | 3 | -0.88 | | | 318 | | | |
| 180 | 4 | 0.19 | | | 346 | | | |
| 190 | 4 | 0.38 | | | | | 351 | |
| 191 | 4 | 0.27 | | | | 348 | | |
| 203 | 4 | 0.27 | 348 | | | | | |
| 212 | 4 | -0.30 | | | 333 | | | |
| 215 | 4 | 0.34 | | | 350 | | | |
| 219 | 4 | -0.15 | | | 337 | | | |
| 220 | 2 | -1.49 | | | 302 | | | |
| 221 | 2 | -1.14 | 311 | | | | | |
| 224 | 0 | 2.30 | | | 401 | | | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 | 12 | 22ph |
|-----|--------|---------|-----|---|-----|-----|----|------|
| 235 | 1 | -1.56 | | | 300 | | | |
| 241 | 4 | 0.10 | 344 | | | | | |
| 255 | 3 | -0.87 | | | 318 | | | |
| 256 | 0 | -3.54 | 248 | | | | | |
| 257 | 0 | -6.83 | 162 | | | | | |
| 259 | 4 | 0.39 | | | 351 | | | |
| 265 | 4 | 0.34 | | | 350 | | | |
| 273 | 3 | 0.61 | | | 357 | | | |
| 274 | 0 | -12.95 | | 1 | | | | |
| 282 | 2 | -1.14 | | | | 311 | | |
| 284 | 2 | 1.36 | 377 | | | | | |
| 287 | 3 | 0.71 | 360 | | | | | |
| 289 | 3 | 0.72 | | | 360 | | | |
| 292 | 4 | -0.15 | 337 | | | | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
K (Potassium) mg/L



| | |
|-------------------|---|
| 0. Other | 6. ICP/MS |
| 1. AA: direct air | 7. Ion chromatography |
| 4. ICP | 12. Flame emission |
| | N = 1 25 29 3 1 8 |
| | Minimum = 597.0 3.4 60.2 76.5 79.0 58.7 |
| | Maximum = 91.7 103.0 83.1 101.2 |
| | Median = 78.3 79.0 77.2 |
| | F-pseudosigma = 4.8 2.9 17.5 |

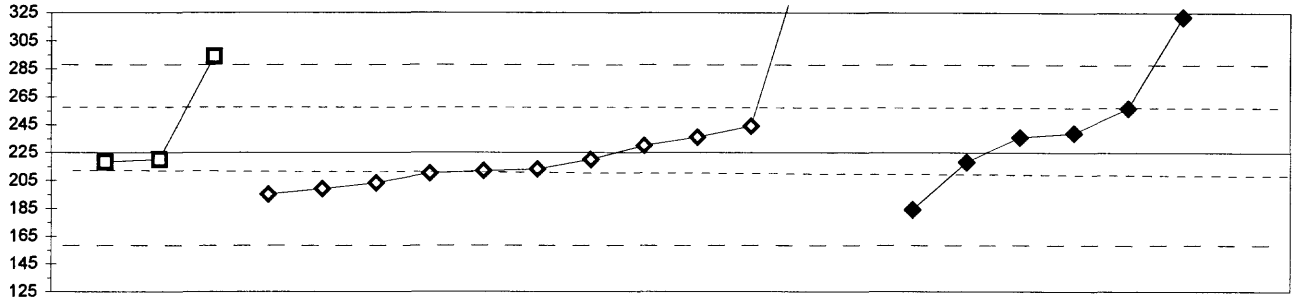
MPV = 79.0
F-pseudosigma = 4.5
N = 67
Hu = 82.0
Hi = 75.9

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|-------|------|-------|------|------|----|
| 1 | 4 | -0.16 | | 78.3 | | | | |
| 3 | 4 | 0.24 | | | 80.1 | | | |
| 11 | 4 | 0.00 | | | 79.0 | | | |
| 12 | 4 | 0.00 | | | 79.0 | | | |
| 13 | 4 | 0.20 | | | 79.9 | | | |
| 16 | 1 | -1.56 | | 72.0 | | | | |
| 18 | 4 | 0.00 | | | 79.0 | | | |
| 26 | 3 | 0.87 | | | 82.9 | | | |
| 30 | 2 | -1.11 | | | | | 74.0 | |
| 32 | 4 | 0.29 | | | | 80.3 | | |
| 36 | 2 | 1.11 | | 84.0 | | | | |
| 42 | 2 | 1.17 | | | 84.2 | | | |
| 43 | 3 | 0.58 | | | 81.6 | | | |
| 46 | 3 | -0.91 | | | 74.9 | | | |
| 48 | 3 | -0.80 | | | 75.4 | | | |
| 61 | 0 | 5.34 | | | 103.0 | | | |
| 64 | 3 | 0.93 | | 83.2 | | | | |
| 69 | 4 | 0.29 | | | | | 80.3 | |
| 81 | 2 | 1.07 | | | | 83.8 | | |
| 83 | 2 | 1.22 | | 84.5 | | | | |
| 86 | 4 | -0.04 | | | 78.8 | | | |
| 89 | 3 | -0.89 | | 75.0 | | | | |
| 92 | 2 | -1.34 | | 73.0 | | | | |
| 111 | 3 | 0.89 | | 83.0 | | | | |
| 113 | 0 | -2.40 | | | | 68.2 | | |
| 119 | 3 | 0.67 | | | | 82.0 | | |
| 127 | 3 | 0.67 | | 82.0 | | | | |
| 129 | 2 | -1.34 | | 73.0 | | | | |
| 134 | 4 | -0.49 | | 76.8 | | | | |
| 138 | 4 | -0.13 | | | 78.4 | | | |
| 140 | 4 | 0.11 | | 79.5 | | | | |
| 141 | 3 | 0.73 | | | 82.3 | | | |
| 142 | 4 | -0.42 | | | 77.1 | | | |
| 146 | 0 | 2.67 | | | 91.0 | | | |
| 149 | 4 | 0.09 | | 79.4 | | | | |
| 151 | 0 | -16.83 | | 3.4 | | | | |
| 154 | 0 | 115.31 | 597.0 | | | | | |
| 158 | 0 | -4.19 | | | 60.2 | | | |
| 180 | 4 | -0.07 | | | 78.7 | | | |
| 185 | 2 | -1.18 | | 73.7 | | | | |
| 191 | 3 | 0.91 | | | | 83.1 | | |
| 196 | 4 | 0.20 | | 79.9 | | | | |
| 203 | 3 | 0.56 | | 81.5 | | | | |
| 212 | 4 | -0.29 | | | 77.7 | | | |
| 215 | 4 | 0.45 | | | 81.0 | | | |
| 219 | 4 | 0.45 | | | 81.0 | | | |
| 220 | 3 | -0.69 | | 75.9 | | | | |
| 221 | 4 | -0.33 | | 77.5 | | | | |
| 224 | 3 | -0.67 | | | 76.0 | | | |
| 241 | 4 | -0.45 | | 77.0 | | | | |

| Lab | Rating | Z-value | 0 | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|---|------|------|------|------|-------|
| 247 | 4 | 0.00 | | | | | 79.0 | |
| 255 | 4 | 0.00 | | | 79.0 | | | |
| 256 | 0 | -4.53 | | | | | | 58.7 |
| 257 | 1 | -1.83 | | | | | | 70.8 |
| 259 | 4 | 0.31 | | 80.4 | | | | |
| 262 | 3 | 0.89 | | | | | | 83.0 |
| 265 | 4 | 0.02 | | | 79.1 | | | |
| 268 | 0 | 2.83 | | 91.7 | | | | |
| 270 | 0 | 3.55 | | | | | | 94.9 |
| 272 | 0 | -4.23 | | | | | | 60.0 |
| 273 | 4 | -0.16 | | | 78.3 | | | |
| 274 | 0 | 4.94 | | | | | | 101.2 |
| 282 | 3 | -0.56 | | | | 76.5 | | |
| 284 | 4 | 0.18 | | 79.8 | | | | |
| 287 | 0 | -7.89 | | 43.5 | | | | |
| 289 | 2 | -1.11 | | | 74.0 | | | |
| 292 | 4 | -0.29 | | 77.7 | | | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued

Li (Lithium) µg/L



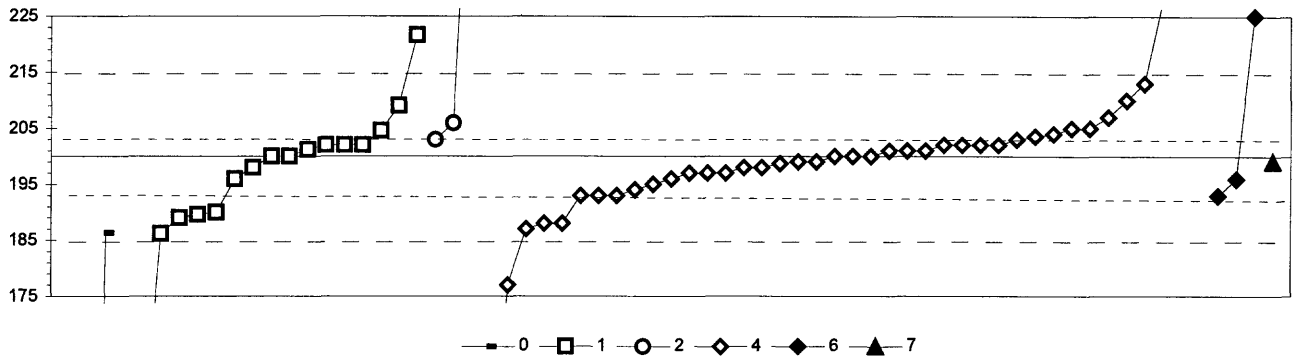
□ 1 ◇ 4 ● 6 ● 12

| | 12. Flame emission |
|-------------------|-------------------------------------|
| 1. AA: direct air | |
| 4. ICP | |
| 6. ICP/MS | |
| | N = 3 12 6 1 |
| | Minimum = 218 195 184 1460 |
| | Maximum = 294 400 322 |
| | Median = 217 |
| | F-pseudosigma = 25 |

MPV = 225
 F-pseudosigma = 33
 N = 22
 Hu = 257
 HI = 212

| Lab | Rating | Z-value | 1 | 4 | 6 | 12 |
|-----|--------|---------|-----|-----|-----|------|
| 1 | 0 | 2.07 | 294 | | | |
| 3 | 3 | 0.57 | | 244 | | |
| 11 | 4 | -0.45 | | 210 | | |
| 16 | 4 | -0.21 | | | 218 | |
| 26 | 4 | 0.33 | | 236 | | |
| 32 | 4 | 0.33 | | | 236 | |
| 69 | 4 | -0.21 | 218 | | | |
| 127 | 3 | -0.78 | | 199 | | |
| 134 | 3 | -0.90 | | 195 | | |
| 142 | 4 | -0.36 | | 213 | | |
| 147 | 4 | -0.15 | | 220 | | |
| 151 | 3 | 0.96 | | | 257 | |
| 196 | 4 | 0.42 | | | 239 | |
| 212 | 4 | -0.39 | | 212 | | |
| 219 | 4 | 0.15 | | 230 | | |
| 220 | 3 | -0.65 | | 203 | | |
| 247 | 2 | -1.23 | | | 184 | |
| 256 | 0 | 37.02 | | | | 1460 |
| 257 | 4 | -0.15 | 220 | | | |
| 265 | 0 | 2.91 | | | 322 | |
| 273 | 0 | 4.35 | | 370 | | |
| 289 | 0 | 5.25 | | 400 | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Mg (Magnesium) mg/L



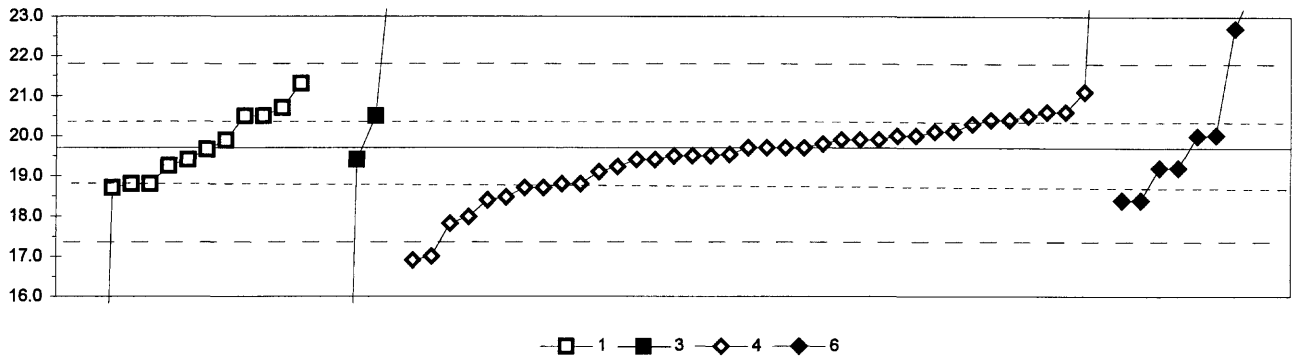
| | |
|-----------------------------|-----------------------|
| 0. Other | 4. ICP |
| 1. AA: direct air | 6. ICP/MS |
| 2. AA: direct nitrous oxide | 7. Ion chromatography |
| N = | 3 17 3 40 3 1 |
| Minimum = | 0 8 203 144 193 199 |
| Maximum = | 186 222 270 232 225 |
| Median = | 200 200 |
| F-pseudostigma = | 9 6 |

MPV = 200
F-pseudostigma = 10
N = 67
Hu = 203
HI = 193

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 | 7 |
|-----|--------|---------|---|-----|-----|-----|-----|---|
| 1 | 2 | -1.20 | | | | 188 | | |
| 3 | 4 | -0.10 | | | | 199 | | |
| 11 | 2 | 1.30 | | | | 213 | | |
| 12 | 0 | -5.60 | | | | 144 | | |
| 13 | 4 | 0.10 | | | | 201 | | |
| 16 | 4 | 0.00 | | | | 200 | | |
| 18 | 3 | -0.70 | | | | 193 | | |
| 26 | 4 | 0.10 | | | | 201 | | |
| 30 | 4 | 0.30 | | | 203 | | | |
| 32 | 0 | 2.50 | | | | | 225 | |
| 36 | 4 | 0.20 | | 202 | | | | |
| 42 | 0 | 2.97 | | | | 230 | | |
| 43 | 4 | -0.30 | | | | 197 | | |
| 46 | 3 | -0.60 | | | | 194 | | |
| 48 | 0 | 3.20 | | | | 232 | | |
| 59 | 4 | 0.50 | | | | 205 | | |
| 61 | 3 | 0.70 | | | | 207 | | |
| 68 | 3 | 1.00 | | | | 210 | | |
| 69 | 4 | -0.20 | | | 198 | | | |
| 76 | 4 | 0.46 | | 205 | | | | |
| 81 | 4 | -0.20 | | | | 198 | | |
| 83 | 0 | -2.30 | | | | 177 | | |
| 86 | 4 | 0.00 | | | | 200 | | |
| 89 | 0 | -5.30 | | 147 | | | | |
| 92 | 3 | -1.00 | | 190 | | | | |
| 111 | 3 | 0.60 | | | 206 | | | |
| 113 | 0 | 2.80 | | | | 228 | | |
| 119 | 4 | 0.30 | | | | 203 | | |
| 127 | 4 | 0.20 | | | | 202 | | |
| 129 | 4 | 0.00 | | 200 | | | | |
| 134 | 3 | -0.70 | | | | 193 | | |
| 138 | 4 | -0.10 | | | | 199 | | |
| 140 | 4 | -0.40 | | 196 | | | | |
| 141 | 4 | -0.30 | | | | 197 | | |
| 142 | 4 | -0.40 | | | | 196 | | |
| 146 | 4 | 0.10 | | | | 201 | | |
| 147 | 4 | -0.20 | | | | 198 | | |
| 149 | 2 | -1.10 | | 189 | | | | |
| 151 | 0 | -19.19 | | 8 | | | | |
| 154 | 2 | -1.20 | | | | 188 | | |
| 158 | 4 | 0.50 | | | | 205 | | |
| 180 | 4 | -0.30 | | | | 197 | | |
| 185 | 2 | -1.04 | | 190 | | | | |
| 191 | 4 | -0.40 | | | | | 196 | |
| 196 | 2 | -1.38 | | 186 | | | | |
| 203 | 3 | 0.90 | | 209 | | | | |
| 212 | 4 | 0.20 | | | | 202 | | |
| 215 | 4 | 0.40 | | | | 204 | | |
| 219 | 4 | 0.00 | | | | 200 | | |
| 220 | 4 | 0.20 | | 202 | | | | |

| Lab | Rating | Z-value | 0 | 1 | 2 | 4 | 6 | 7 |
|-----|--------|---------|-----|-----|-----|-----|-----|-----|
| 224 | 4 | 0.36 | | | | 204 | | |
| 235 | 2 | -1.30 | | | | 187 | | |
| 241 | 4 | 0.00 | | 200 | | | | |
| 247 | 4 | -0.10 | | | | | | 199 |
| 255 | 4 | -0.13 | | | | 199 | | |
| 256 | 0 | 7.00 | | | 270 | | | |
| 262 | 2 | -1.37 | 186 | | | | | |
| 265 | 4 | 0.20 | | | | 202 | | |
| 268 | 4 | 0.20 | | 202 | | | | |
| 272 | 0 | -20.00 | 0 | | | | | |
| 273 | 4 | 0.20 | | | | 202 | | |
| 274 | 0 | -18.05 | 19 | | | | | |
| 282 | 3 | -0.70 | | | | | 193 | |
| 284 | 0 | 2.16 | | 222 | | | | |
| 287 | 4 | 0.12 | | 201 | | | | |
| 289 | 4 | -0.50 | | | | | 195 | |
| 292 | 3 | -0.70 | | | | | 193 | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Mn (Manganese) mg/L



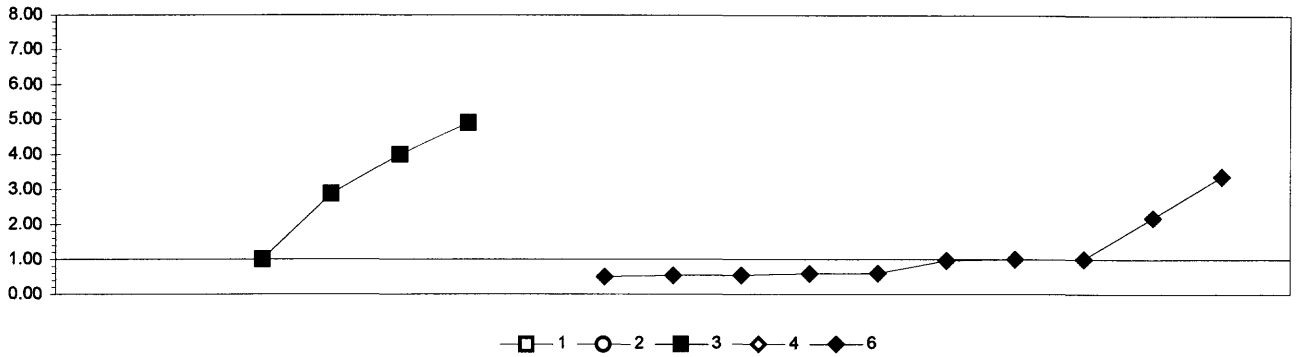
| 1. AA: direct air | | 6. ICP/MS | | | | |
|-------------------------|--|-----------------|------|------|-------|-------|
| 3. AA: graphite furnace | | N = | 13 | 5 | 38 | 9 |
| 4. ICP | | Minimum = | 0.0 | 0.0 | 16.9 | 18.4 |
| | | Maximum = | 21.3 | 25.3 | 171.0 | 260.0 |
| | | Median = | 19.4 | 19.7 | 20.0 | |
| | | F-pseudosigma = | 1.3 | 1.0 | 2.6 | |

MPV = 19.7
F-pseudosigma = 1.1
N = 65
Hu = 20.3
Hi = 18.8

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|------|-------|-------|
| 1 | 4 | -0.41 | | | | 19.2 |
| 3 | 3 | 0.67 | | | 20.4 | |
| 11 | 4 | 0.13 | | | 19.8 | |
| 12 | 3 | -0.86 | | | 18.7 | |
| 13 | 3 | 0.67 | | | 20.4 | |
| 16 | 2 | -1.07 | | | 18.5 | |
| 18 | 2 | -1.13 | | | 18.4 | |
| 26 | 4 | 0.04 | | | 19.7 | |
| 30 | 0 | 216.15 | | | | 260.0 |
| 32 | 0 | 2.73 | | | | 22.7 |
| 36 | 3 | 0.76 | | 20.5 | | |
| 42 | 4 | 0.40 | | | 20.1 | |
| 43 | 4 | 0.04 | | | 19.7 | |
| 46 | 4 | -0.12 | | | 19.5 | |
| 48 | 0 | 3.72 | | | | 23.8 |
| 59 | 4 | 0.31 | | | 20.0 | |
| 61 | 4 | -0.23 | | | 19.4 | |
| 69 | 3 | -0.77 | 18.8 | | | |
| 81 | 3 | -0.77 | | | 18.8 | |
| 83 | 2 | -1.50 | | | 18.0 | |
| 86 | 3 | -0.86 | | | 18.7 | |
| 89 | 4 | -0.23 | | 19.4 | | |
| 92 | 0 | -17.66 | 0.0 | | | |
| 111 | 3 | 0.94 | 20.7 | | | |
| 113 | 2 | 1.30 | | | 21.1 | |
| 119 | 3 | 0.85 | | | 20.6 | |
| 126 | 2 | 1.47 | 21.3 | | | |
| 127 | 0 | 136.11 | | | 171.0 | |
| 129 | 0 | -15.75 | 2.2 | | | |
| 134 | 3 | 0.58 | | | 20.3 | |
| 138 | 4 | -0.14 | | | 19.5 | |
| 140 | 3 | 0.76 | 20.5 | | | |
| 141 | 4 | -0.23 | | | 19.4 | |
| 142 | 3 | 0.76 | | | 20.5 | |
| 146 | 4 | 0.22 | | | 19.9 | |
| 147 | 0 | -2.39 | | | 17.0 | |
| 149 | 4 | -0.23 | 19.4 | | | |
| 151 | 2 | -1.13 | | | | 18.4 |
| 154 | 0 | -2.48 | | | 16.9 | |
| 158 | 4 | 0.31 | | | 20.0 | |
| 180 | 4 | 0.22 | | | 19.9 | |
| 190 | 0 | 5.07 | | 25.3 | | |
| 191 | 4 | 0.31 | | | 20.0 | |
| 196 | 4 | 0.32 | | | 20.0 | |
| 203 | 3 | 0.76 | 20.5 | | | |
| 212 | 3 | -0.77 | | | 18.8 | |
| 215 | 4 | -0.50 | | | 19.1 | |
| 219 | 4 | 0.04 | | | 19.7 | |
| 220 | 1 | -1.65 | | | 17.8 | |
| 221 | 3 | -0.86 | 18.7 | | | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|------|-----|------|------|
| 224 | 4 | -0.15 | | | 19.5 | |
| 235 | 4 | 0.04 | | | 19.7 | |
| 241 | 3 | -0.77 | 18.8 | | | |
| 255 | 4 | -0.39 | | | 19.2 | |
| 256 | 4 | -0.37 | 19.3 | | | |
| 257 | 0 | -17.64 | | 0.0 | | |
| 259 | 4 | -0.14 | | | 19.5 | |
| 265 | 4 | -0.41 | | | | 19.2 |
| 273 | 4 | 0.40 | | | 20.1 | |
| 274 | 0 | -17.52 | | 0.2 | | |
| 282 | 2 | -1.13 | | | | 18.4 |
| 284 | 4 | 0.21 | 19.9 | | | |
| 287 | 4 | 0.00 | 19.7 | | | |
| 289 | 4 | 0.22 | | | 19.9 | |
| 292 | 3 | 0.85 | | | 20.6 | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Mo (Molybdenum) $\mu\text{g/L}$

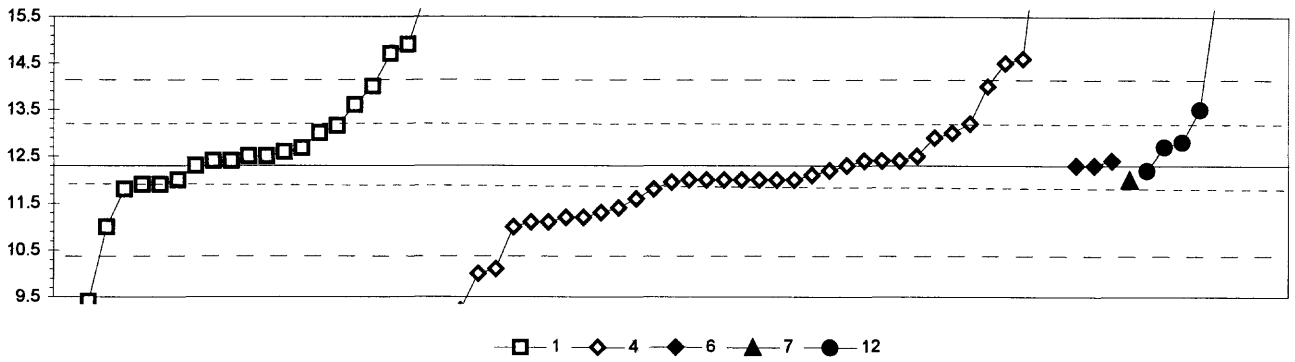


| | |
|-----------------------------|---|
| 1. AA: direct air | 4. ICP |
| 2. AA: direct nitrous oxide | 6. ICP/MS |
| 3. AA: graphite fumace | |
| N = | 1 0 4 1 10 |
| Minimum = | 26.00 < 20 1.00 124.00 0.50 |
| Maximum = | |
| Median = | |
| F-pseudosigma = | |

MPV = insufficient data
F-pseudosigma =
N = 16
Hu =
Hi =

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-------|------|------|--------|-------|
| 1 | NR | | | | < 1 | | |
| 3 | NR | | | | | < 5 | |
| 12 | NR | | | | | < 30 | |
| 16 | NR | 0.00 | | | | | 1.00 |
| 18 | NR | | | | | < 20 | |
| 26 | NR | | | | | < 4 | |
| 30 | NR | 0.52 | | | | | 2.20 |
| 32 | NR | -0.22 | | | | | 0.50 |
| 42 | NR | | | | | | < 10 |
| 48 | NR | -0.17 | | | | | 0.60 |
| 61 | NR | | | | | < 17.2 | |
| 81 | NR | | | | | < 5 | |
| 86 | NR | 53.64 | | | | 124.00 | |
| 127 | NR | | | | < 2 | | |
| 134 | NR | 0.82 | | | 2.88 | | |
| 138 | NR | | | | | | < 0.2 |
| 141 | NR | | | | | < 10 | |
| 142 | NR | -0.18 | | | | | 0.59 |
| 146 | NR | | | | | < 10 | |
| 147 | NR | -0.01 | | | | | 0.97 |
| 149 | NR | | | | < 2 | | |
| 151 | NR | -0.20 | | | | | 0.53 |
| 180 | NR | | | | | < 5.11 | |
| 196 | NR | -0.20 | | | | | 0.54 |
| 212 | NR | | | | | | < 0.1 |
| 215 | NR | 1.31 | | | 4.00 | | |
| 221 | NR | 0.00 | | | 1.00 | | |
| 224 | NR | | | | | < 5 | |
| 235 | NR | 1.04 | | | | | 3.38 |
| 241 | NR | | | | < 5 | | |
| 247 | NR | | | | | | < 1 |
| 255 | NR | | | | | < 5.1 | |
| 257 | NR | | | < 20 | | | |
| 265 | NR | 0.00 | | | | | 1.00 |
| 282 | NR | | | | | | < 50 |
| 284 | NR | 10.90 | 26.00 | | | | |
| 289 | NR | 1.70 | | | 4.90 | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Na (Sodium) mg/L



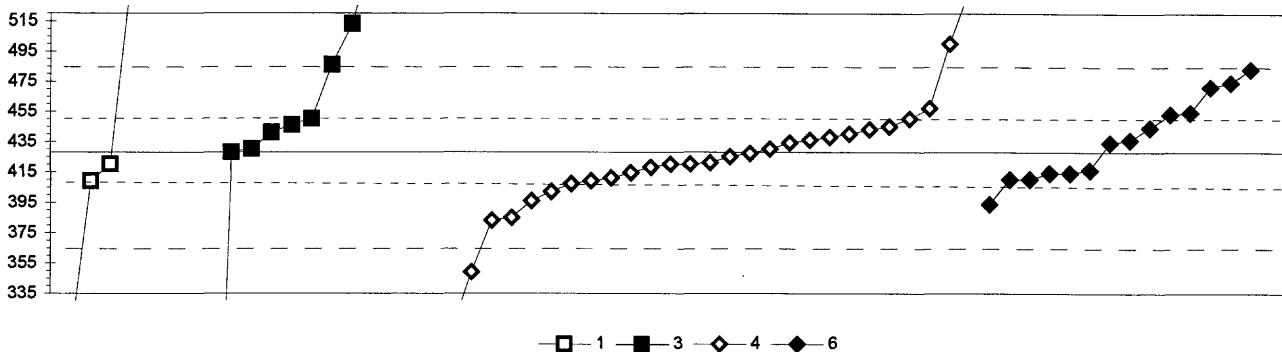
| | |
|-------------------|----------------------------------|
| 1. AA: direct air | 7. Ion chromatography |
| 4. ICP | 12. Flame emission |
| 6. ICP/MS | |
| | N = 22 35 3 1 8 |
| | Minimum = 9.0 9.2 12.3 12.0 12.2 |
| | Maximum = 52.6 18.3 12.4 50.0 |
| | Median = 12.5 12.0 14.9 |
| | F-pseudostigma = 1.3 0.8 7.0 |

MPV = 12.3
F-pseudostigma = 0.9
N = 69
Hu = 13.2
Hi = 11.9

| Lab | Rating | Z-value | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|------|------|------|------|----|
| 1 | 2 | -1.19 | | 11.2 | | | |
| 3 | 3 | 0.97 | | 13.2 | | | |
| 11 | 2 | -1.19 | | 11.2 | | | |
| 12 | 4 | -0.32 | | 12.0 | | | |
| 13 | 4 | 0.11 | | 12.4 | | | |
| 16 | 0 | -2.48 | | 10.0 | | | |
| 18 | 4 | -0.32 | | 12.0 | | | |
| 26 | 4 | -0.32 | | 12.0 | | | |
| 32 | 4 | 0.11 | | | 12.4 | | |
| 36 | 4 | 0.22 | 12.5 | | | | |
| 42 | 3 | 0.64 | | 12.9 | | | |
| 43 | 2 | -1.08 | | 11.3 | | | |
| 46 | 3 | -0.97 | | 11.4 | | | |
| 48 | 0 | 6.48 | | 18.3 | | | |
| 59 | 4 | -0.32 | | 12.0 | | | |
| 61 | 0 | 2.48 | | 14.6 | | | |
| 64 | 4 | -0.43 | 11.9 | | | | |
| 69 | 4 | 0.43 | | | | 12.7 | |
| 76 | 4 | 0.11 | 12.4 | | | | |
| 81 | 4 | 0.11 | | 12.4 | | | |
| 83 | 2 | -1.30 | | 11.1 | | | |
| 86 | 4 | -0.32 | | 12.0 | | | |
| 89 | 4 | 0.11 | 12.4 | | | | |
| 92 | 0 | -3.56 | 9.0 | | | | |
| 111 | 1 | 1.83 | 14.0 | | | | |
| 113 | 2 | -1.30 | | 11.1 | | | |
| 119 | 4 | -0.32 | | 12.0 | | | |
| 126 | 0 | -3.13 | 9.4 | | | | |
| 127 | 0 | -2.37 | | 10.1 | | | |
| 129 | 4 | 0.22 | 12.5 | | | | |
| 134 | 4 | 0.40 | 12.7 | | | | |
| 138 | 4 | -0.32 | | 12.0 | | | |
| 140 | 2 | 1.40 | 13.6 | | | | |
| 141 | 4 | -0.22 | | 12.1 | | | |
| 142 | 0 | -3.33 | | 9.2 | | | |
| 146 | 0 | 2.37 | | 14.5 | | | |
| 147 | 3 | 0.76 | | 13.0 | | | |
| 149 | 2 | -1.40 | 11.0 | | | | |
| 151 | 0 | 43.49 | 52.6 | | | | |
| 154 | 0 | 6.04 | | 17.9 | | | |
| 180 | 3 | -0.54 | | 11.8 | | | |
| 185 | 4 | -0.11 | | | | 12.2 | |
| 191 | 4 | 0.00 | | | 12.3 | | |
| 196 | 4 | 0.31 | 12.6 | | | | |
| 203 | 4 | -0.32 | 12.0 | | | | |
| 212 | 2 | -1.40 | | 11.0 | | | |
| 215 | 4 | -0.11 | | 12.2 | | | |
| 219 | 1 | 1.83 | | 14.0 | | | |
| 220 | 3 | 0.76 | 13.0 | | | | |
| 221 | 4 | 0.00 | 12.3 | | | | |

| Lab | Rating | Z-value | 1 | 4 | 6 | 7 | 12 |
|-----|--------|---------|------|------|------|------|------|
| 224 | 4 | 0.11 | | 12.4 | | | |
| 241 | 0 | 3.99 | 16.0 | | | | |
| 247 | 4 | -0.32 | | | | 12.0 | |
| 255 | 4 | -0.38 | | 12.0 | | | |
| 256 | 0 | 4.35 | | | | | 16.3 |
| 257 | 3 | 0.54 | | | | | 12.8 |
| 259 | 3 | -0.54 | 11.8 | | | | |
| 262 | 2 | 1.30 | | | | | 13.5 |
| 265 | 4 | 0.00 | | 12.3 | | | |
| 268 | 0 | 2.81 | 14.9 | | | | |
| 270 | 0 | 12.19 | | | | | 23.6 |
| 272 | 0 | 40.69 | | | | | 50.0 |
| 273 | 3 | -0.76 | | 11.6 | | | |
| 274 | 0 | 9.17 | | | | | 20.8 |
| 282 | 4 | 0.00 | | | 12.3 | | |
| 284 | 3 | 0.92 | 13.2 | | | | |
| 287 | 0 | 2.59 | 14.7 | | | | |
| 289 | 4 | 0.22 | | 12.5 | | | |
| 292 | 4 | -0.43 | 11.9 | | | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
 Ni (Nickel) μg/L



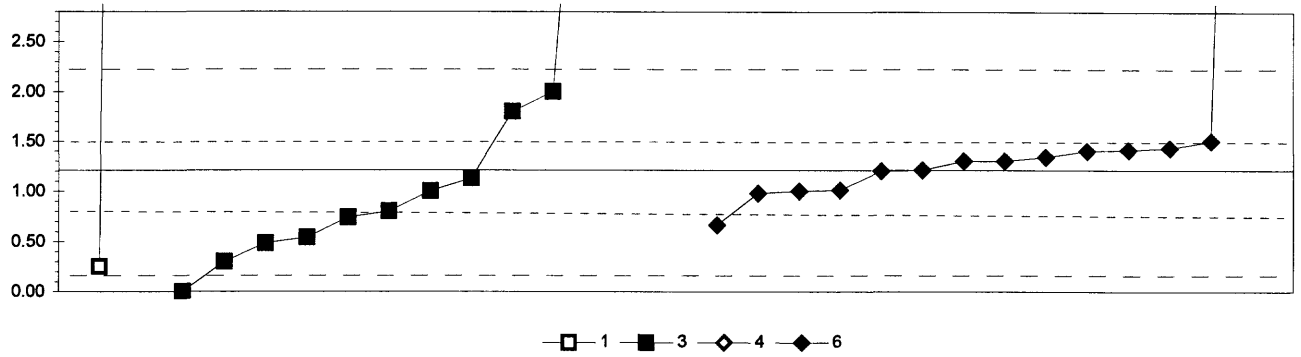
| | | | | | |
|-------------------------|------------------|-----|-----|-----|-----|
| 1. AA: direct air | 6. ICP/MS | | | | |
| 3. AA: graphite furnace | | | | | |
| 4. ICP | | | | | |
| | N = | 6 | 10 | 30 | 14 |
| | Minimum = | 300 | 13 | 0 | 394 |
| | Maximum = | 650 | 561 | 537 | 483 |
| | Median = | | 444 | 420 | 435 |
| | F-pseudostigma = | | 43 | 31 | 30 |

MPV = 428
 F-pseudostigma = 30
 N = 60
 Hu = 450
 HI = 409

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|-----|-----|----|-----|
| 1 | 4 | 0.21 | | | | 434 |
| 3 | 4 | -0.02 | | | | 427 |
| 11 | 0 | -12.65 | | | 43 | |
| 12 | 4 | -0.25 | | | | 420 |
| 13 | 3 | -0.84 | | | | 402 |
| 16 | 4 | -0.38 | | | | 416 |
| 18 | 3 | -0.54 | | | | 411 |
| 26 | 4 | -0.21 | | | | 421 |
| 30 | 1 | 1.83 | | | | 483 |
| 32 | 4 | 0.28 | | | | 436 |
| 36 | 3 | 0.74 | | 450 | | |
| 42 | 3 | -0.67 | | | | 407 |
| 46 | 2 | -1.40 | | | | 385 |
| 48 | 3 | 0.54 | | | | 444 |
| 59 | 0 | 2.39 | | | | 500 |
| 61 | 4 | 0.41 | | | | 440 |
| 69 | 0 | 3.90 | 546 | | | |
| 81 | 0 | 3.60 | | | | 537 |
| 83 | 2 | -1.04 | | | | 396 |
| 86 | 4 | 0.28 | | | | 436 |
| 89 | 4 | 0.44 | | 441 | | |
| 92 | 0 | -4.20 | 300 | | | |
| 111 | 0 | 2.81 | | 513 | | |
| 113 | 2 | -1.46 | | | | 383 |
| 119 | 1 | 1.53 | | | | 474 |
| 126 | 0 | 7.32 | 650 | | | |
| 127 | 3 | 0.61 | | 446 | | |
| 134 | 3 | 0.58 | | | | 445 |
| 138 | 4 | 0.35 | | | | 438 |
| 140 | 4 | -0.25 | 420 | | | |
| 141 | 3 | -0.61 | | | | 409 |
| 142 | 3 | 0.87 | | | | 454 |
| 146 | 4 | 0.08 | | | | 430 |
| 147 | 0 | -3.87 | | | | 310 |
| 151 | 4 | -0.44 | | | | 414 |
| 154 | 0 | -2.58 | | | | 349 |
| 158 | 3 | 0.51 | | | | 443 |
| 180 | 4 | -0.31 | | | | 418 |
| 190 | 0 | 4.39 | | 561 | | |
| 191 | 3 | 0.84 | | | | 453 |
| 196 | 2 | 1.43 | | | | 471 |
| 212 | 4 | -0.44 | | | | 414 |
| 215 | 4 | -0.08 | | | | 425 |
| 219 | 4 | -0.25 | | | | 420 |
| 220 | 3 | 0.97 | | | | 457 |
| 221 | 0 | -13.63 | | 13 | | |
| 224 | 0 | -14.07 | | | | 0 |
| 235 | 2 | -1.10 | | | | 394 |
| 241 | 4 | 0.02 | | 428 | | |
| 247 | 4 | 0.21 | | | | 434 |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|-----|-----|-----|-----|
| 255 | 4 | -0.43 | | | 414 | |
| 256 | 0 | -13.12 | | 29 | | |
| 257 | 3 | -0.61 | 409 | | | |
| 259 | 3 | 0.74 | | | 450 | |
| 265 | 3 | -0.58 | | | | 410 |
| 273 | 0 | -7.98 | | | 185 | |
| 282 | 3 | -0.58 | | | | 410 |
| 284 | 4 | 0.08 | | 430 | | |
| 287 | 0 | 3.94 | 547 | | | |
| 289 | 1 | 1.92 | | 486 | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Pb (Lead) $\mu\text{g/L}$



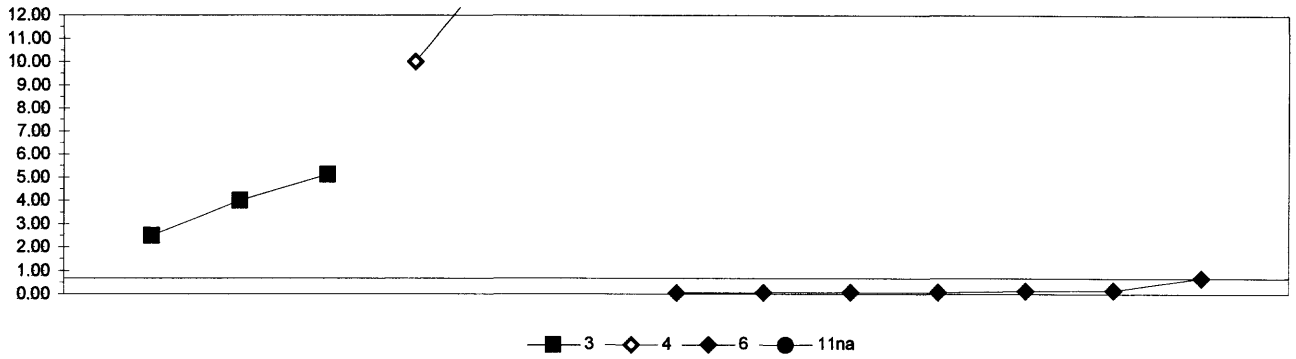
| 1. AA: direct air | | 6. ICP/MS | | | | |
|-------------------------|--------|------------------|-------|-------|-------|-------|
| 3. AA: graphite furnace | | N = | 2 | 12 | 1 | 14 |
| 4. ICP | | Minimum = | 0.25 | 0.00 | 98.80 | 0.66 |
| | | Maximum = | 40.00 | 27.40 | | 15.20 |
| | | Median = | | 0.90 | | 1.30 |
| | | F-pseudostigma = | | 1.03 | | 0.30 |
| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |

MPV = 1.21
F-pseudostigma = 0.52
N = 29
Hu = 1.50
HI = 0.80

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|-------|--------|-------|-------|
| 1 | NR | | < 1 | | | |
| 3 | NR | | | | < 3 | |
| 12 | NR | | < 10 | | | |
| 13 | NR | | < 5 | | | |
| 16 | 3 | 0.56 | | | | 1.50 |
| 18 | 2 | 1.14 | | 1.80 | | |
| 26 | NR | | | < 1 | | |
| 30 | 4 | -0.40 | | | | 1.00 |
| 32 | 4 | 0.17 | | | | 1.30 |
| 34 | NR | | | < 1 | | |
| 42 | NR | | | | | < 2 |
| 46 | 1 | 1.52 | | 2.00 | | |
| 48 | 4 | 0.37 | | | | 1.40 |
| 59 | NR | | | | | < 2 |
| 61 | NR | | | | < 1.6 | |
| 69 | NR | | | < 5 | | |
| 81 | NR | | | | < 2 | |
| 89 | NR | | | < 5 | | |
| 92 | 0 | 74.75 | 40.00 | | | |
| 111 | NR | | | < 2 | | |
| 113 | NR | | | < 0.8 | | |
| 119 | 0 | 26.96 | | | | 15.20 |
| 126 | 3 | -0.79 | | 0.80 | | |
| 127 | 4 | -0.15 | | 1.13 | | |
| 134 | NR | | | < 1 | | |
| 138 | 4 | 0.17 | | | | 1.30 |
| 140 | 1 | -1.85 | 0.25 | | | |
| 141 | NR | | | < 5 | | |
| 142 | 2 | -1.05 | | | | 0.66 |
| 146 | NR | | | | < 5 | |
| 147 | 4 | -0.44 | | | | 0.98 |
| 149 | NR | | | < 2 | | |
| 151 | 4 | 0.25 | | | | 1.34 |
| 180 | 0 | 188.07 | | | 98.80 | |
| 190 | NR | -2.33 | | 0.00 | | |
| 191 | 4 | 0.39 | | | | 1.41 |
| 196 | 4 | -0.39 | | | | 1.01 |
| 203 | NR | | | < 2 | | |
| 212 | 4 | 0.00 | | | | 1.21 |
| 215 | NR | | | < 3 | | |
| 221 | 2 | -1.40 | | 0.48 | | |
| 224 | 0 | 50.47 | | 27.40 | | |
| 235 | 4 | 0.42 | | | | 1.43 |
| 241 | 1 | -1.75 | | 0.30 | | |
| 247 | NR | | | < 5 | | |
| 255 | NR | | | < 2.35 | | |
| 256 | NR | | | < 5 | | |
| 257 | 3 | -0.91 | | 0.74 | | |
| 265 | 4 | -0.02 | | | | 1.20 |
| 274 | 0 | 11.54 | | 7.20 | | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 |
|-----|--------|---------|---|------|---|---|
| 282 | NR | | | < 5 | | |
| 284 | 4 | -0.40 | | 1.00 | | |
| 287 | NR | | | < 1 | | |
| 289 | 2 | -1.29 | | 0.54 | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Sb (Antimony) μg/L

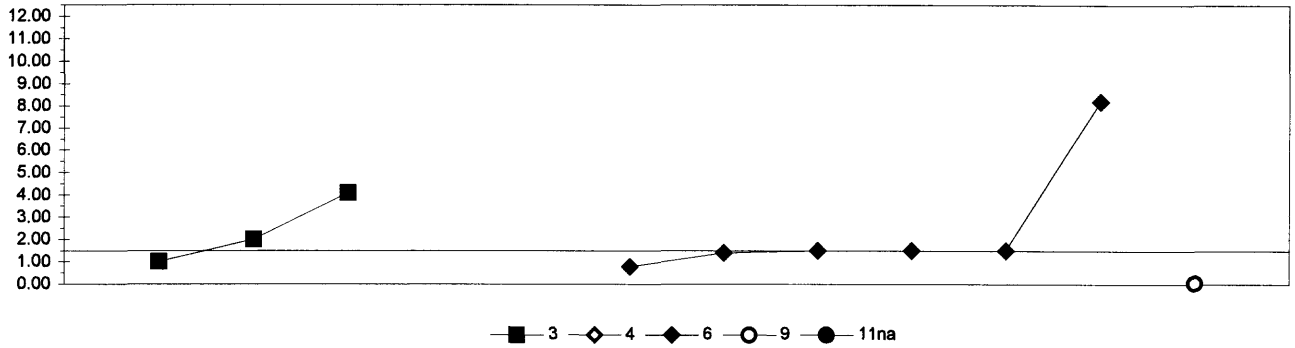


| | |
|-------------------------|--|
| 3. AA: graphite furnace | 11na. AA: hydride NaBH ₄ |
| 4. ICP | |
| 6. ICP/MS | |
| | N = 3 3 7 0 |
| | Minimum = 2.50 10.00 0.04 < 5 |
| | Maximum = 5.12 77.60 0.68 |
| | Median = 0.07 |
| | F-pseudostigma = 0.06 |

MPV = insufficient data
F-pseudostigma =
N = 13
Hu =
HI =

| Lab | Rating | Z-value | 3 | 4 | 6 | 11na |
|-----|--------|---------|-------|-------|-------|------|
| 1 | NR | | < 1 | | | |
| 3 | NR | 2.49 | | 10.00 | | |
| 13 | NR | | < 5 | | | |
| 16 | NR | | | | < 1 | |
| 18 | NR | | < 1 | | | |
| 30 | NR | | | | < 5 | |
| 32 | NR | | | | < 0.1 | |
| 42 | NR | | | | < 2 | |
| 48 | NR | | | | < 0.2 | |
| 59 | NR | | | | < 2 | |
| 61 | NR | 3.69 | | 14.50 | | |
| 69 | NR | | < 5 | | | |
| 81 | NR | | < 2 | | | |
| 89 | NR | | < 10 | | | |
| 113 | NR | | | < 2.2 | | |
| 119 | NR | -0.16 | | | 0.07 | |
| 127 | NR | | < 3 | | | |
| 134 | NR | | < 1 | | | |
| 138 | NR | | | | < 0.2 | |
| 141 | NR | 1.19 | 5.12 | | | |
| 142 | NR | 0.00 | | | 0.68 | |
| 146 | NR | | | < 50 | | |
| 147 | NR | -0.17 | | | 0.04 | |
| 149 | NR | | < 3 | | | |
| 151 | NR | -0.17 | | | 0.05 | |
| 180 | NR | 20.55 | | 77.60 | | |
| 196 | NR | -0.16 | | | 0.07 | |
| 212 | NR | | | | < 0.1 | |
| 215 | NR | | < 7 | | | |
| 235 | NR | -0.15 | | | 0.13 | |
| 241 | NR | 0.49 | 2.50 | | | |
| 247 | NR | | < 5 | | | |
| 255 | NR | | | < 24 | | |
| 257 | NR | | < 0.5 | | | |
| 265 | NR | -0.14 | | | 0.15 | |
| 282 | NR | | | | | < 5 |
| 284 | NR | 0.89 | 4.00 | | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Se (Selenium) $\mu\text{g/L}$

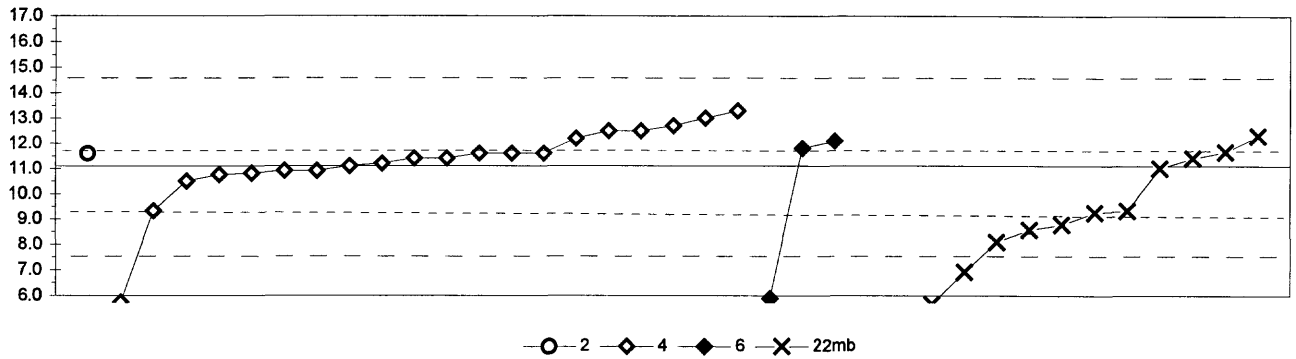


| | |
|-------------------------|--------------------------------------|
| 3. AA: graphite furnace | 8. AA: cold vapor |
| 4. ICP | 11na. AA: hydride NaBH_4 |
| 6. ICP/MS | |
| | N = 3 2 6 1 0 |
| | Minimum = 1.00 13.60 0.77 0.05 < 0.8 |
| | Maximum = 4.08 300.00 8.20 |
| | Median = |
| | F-pseudostigma = |

MPV = insufficient data
F-pseudostigma =
N = 12
Hu =
Hi =

| Lab | Rating | Z-value | 3 | 4 | 6 | 9 | 11na |
|-----|--------|---------|--------|--------|-------|------|-------|
| 1 | NR | | < 1 | | | | |
| 3 | NR | | | < 10 | | | |
| 13 | NR | | < 100 | | | | |
| 16 | NR | 1.83 | | | 8.20 | | |
| 18 | NR | | < 2 | | | | |
| 26 | NR | | | | | | < 0.8 |
| 30 | NR | | | | < 2 | | |
| 32 | NR | | | | < 6 | | |
| 34 | NR | | < 1 | | | | |
| 42 | NR | 0.00 | | | 1.50 | | |
| 48 | NR | 0.00 | | | 1.50 | | |
| 59 | NR | | | | < 2 | | |
| 61 | NR | | | < 2.5 | | | |
| 69 | NR | | < 5 | | | | |
| 80 | NR | | < 2 | | | | |
| 81 | NR | | | < 2 | | | |
| 89 | NR | | | | | | < 2 |
| 111 | NR | | < 0.5 | | | | |
| 113 | NR | | < 1 | | | | |
| 119 | NR | 0.00 | | | 1.50 | | |
| 127 | NR | | < 3 | | | | |
| 134 | NR | 0.70 | 4.08 | | | | |
| 138 | NR | | | | < 1 | | |
| 141 | NR | | < 2 | | | | |
| 142 | NR | -0.20 | | | 0.77 | | |
| 146 | NR | 3.30 | | 13.60 | | | |
| 147 | NR | | | | < 0.5 | | |
| 151 | NR | -0.03 | | | 1.40 | | |
| 180 | NR | | | < 53.2 | | | |
| 196 | NR | | | | < 0.2 | | |
| 212 | NR | | | | < 0.5 | | |
| 215 | NR | | < 5 | | | | |
| 221 | NR | -0.14 | 1.00 | | | | |
| 224 | NR | 81.51 | 300.00 | | | | |
| 235 | NR | -0.40 | | | | 0.05 | |
| 241 | NR | | < 5 | | | | |
| 247 | NR | | | | < 6 | | |
| 255 | NR | | | < 40 | | | |
| 256 | NR | | | | | | < 1 |
| 265 | NR | | | | < 1 | | |
| 282 | NR | | | | | | < 5 |
| 284 | NR | 0.14 | 2.00 | | | | |
| 289 | NR | | < 5 | | | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
SiO₂ (Silica) mg/L

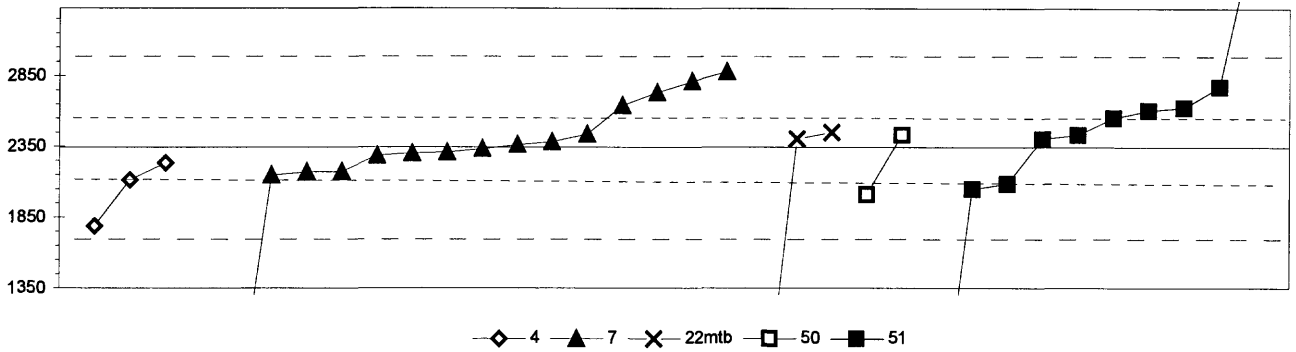


| | | | | | |
|-----------------------------|------------------|-----------------------------|------|------|------|
| 2. AA: direct nitrous oxide | | 22mb. Color: molybdate blue | | | |
| 4. ICP | | | | | |
| 6. ICP/MS | | | | | |
| | N = | 1 | 20 | 3 | 13 |
| | Minimum = | 11.6 | 5.7 | 5.9 | 1.2 |
| | Maximum = | | 13.3 | 12.1 | 12.3 |
| | Median = | | 11.4 | | 8.8 |
| | F-pseudostigma = | | 1.1 | | 3.0 |

MPV = 11.1
F-pseudostigma = 1.8
N = 37
Hu = 11.7
Hi = 9.3

| Lab | Rating | Z-value | 2 | 4 | 6 | 22mb |
|-----|--------|---------|------|------|------|------|
| 1 | 4 | 0.17 | | 11.4 | | |
| 3 | 3 | 0.62 | | 12.2 | | |
| 11 | 4 | 0.28 | | 11.6 | | |
| 13 | 3 | 0.79 | | 12.5 | | |
| 26 | 4 | -0.34 | | 10.5 | | |
| 32 | 4 | 0.39 | | | 11.8 | |
| 42 | 2 | 1.24 | | 13.3 | | |
| 43 | 4 | 0.06 | | 11.2 | | |
| 61 | 0 | -3.02 | | 5.7 | | |
| 64 | 4 | -0.17 | | 10.8 | | |
| 81 | 3 | -0.99 | | | | 9.3 |
| 83 | 4 | -0.20 | | 10.8 | | |
| 89 | 4 | -0.06 | | | | 11.0 |
| 111 | 2 | -1.04 | | | | 9.3 |
| 113 | 2 | -1.31 | | | | 8.8 |
| 119 | 2 | 1.07 | | 13.0 | | |
| 127 | 4 | 0.17 | | 11.4 | | |
| 129 | 3 | 0.67 | | | | 12.3 |
| 134 | 4 | 0.28 | | 11.6 | | |
| 138 | 2 | -1.42 | | | | 8.6 |
| 140 | 4 | 0.31 | | | | 11.7 |
| 142 | 3 | 0.90 | | 12.7 | | |
| 147 | 4 | 0.00 | | 11.1 | | |
| 151 | 4 | 0.17 | | | | 11.4 |
| 185 | 0 | -5.59 | | | | 1.2 |
| 190 | 0 | -4.95 | | | | 2.3 |
| 191 | 3 | 0.56 | | | 12.1 | |
| 204 | 0 | -3.06 | | | | 5.7 |
| 212 | 4 | 0.28 | | 11.6 | | |
| 215 | 3 | -1.00 | | 9.3 | | |
| 241 | 4 | 0.28 | 11.6 | | | |
| 259 | 4 | -0.11 | | 10.9 | | |
| 265 | 3 | 0.79 | | 12.5 | | |
| 274 | 1 | -1.69 | | | | 8.1 |
| 282 | 0 | -2.93 | | | 5.9 | |
| 284 | 0 | -2.36 | | | | 6.9 |
| 289 | 4 | -0.11 | | 10.9 | | |

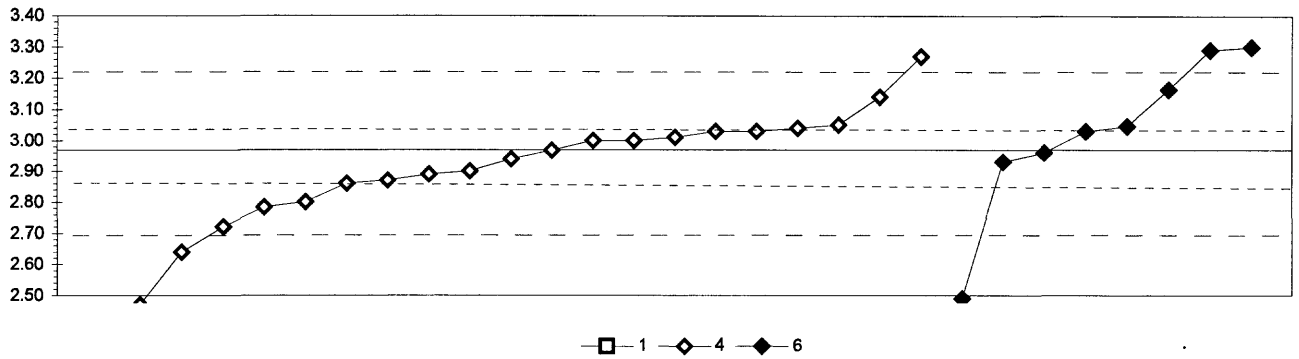
Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
 SO₄ (Sulfate) mg/L



| 4. ICP | | | 50. Gravimetric | | | | |
|----------------------------------|--------|---------|-------------------|------|-------|------|------|
| 7. Ion chromatography | | | 51. Turbidimetric | | | | |
| 22mtb. Color: methyl thymol blue | | | | | | | |
| Lab | Rating | Z-value | 4 | 7 | 22mtb | 50 | 51 |
| 3 | 4 | 0.26 | | | | 2430 | |
| 12 | 4 | 0.17 | | | | 2400 | |
| 26 | 0 | -6.86 | | 106 | | | |
| 32 | 4 | -0.05 | | 2330 | | | |
| 36 | 3 | 0.63 | | | | | 2550 |
| 48 | 2 | 1.31 | | | | | 2771 |
| 61 | 0 | -6.92 | | | | | 89 |
| 81 | 0 | -6.56 | | | 206 | | |
| 63 | 3 | -0.72 | 2110 | | | | |
| 89 | 4 | -0.14 | | 2300 | | | |
| 92 | 3 | -0.80 | | | | | 2084 |
| 111 | 2 | 1.43 | | 2810 | | | |
| 119 | 0 | -5.98 | | 393 | | | |
| 129 | 4 | 0.28 | | 2436 | | | |
| 138 | 3 | -0.54 | | 2170 | | | |
| 140 | 4 | 0.17 | | | | | 2400 |
| 141 | 3 | 0.86 | | | | | 2624 |
| 158 | 1 | -1.72 | 1785 | | | | |
| 180 | 4 | 0.05 | | 2360 | | | |
| 196 | 3 | -0.55 | | 2166 | | | |
| 215 | 0 | 4.72 | | | | | 3884 |
| 220 | 4 | 0.32 | | | 2449 | | |
| 221 | 2 | -1.03 | | | | 2009 | |
| 235 | 4 | -0.35 | 2230 | | | | |
| 241 | 4 | -0.12 | | 2306 | | | |
| 247 | 3 | -0.61 | | 2145 | | | |
| 262 | 3 | -0.91 | | | | | 2047 |
| 265 | 4 | 0.11 | | 2380 | | | |
| 268 | 4 | -0.19 | | 2284 | | | |
| 274 | 3 | 0.79 | | | | | 2602 |
| 282 | 2 | 1.18 | | 2730 | | | |
| 284 | 4 | 0.26 | | | | | 2430 |
| 290 | 1 | 1.63 | | 2877 | | | |
| 292 | 3 | 0.90 | | 2640 | | | |

MPV = 2345
 F-pseudosigma = 326
 N = 34
 Hu = 2550
 HI = 2110

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
Sr (Strontium) mg/L

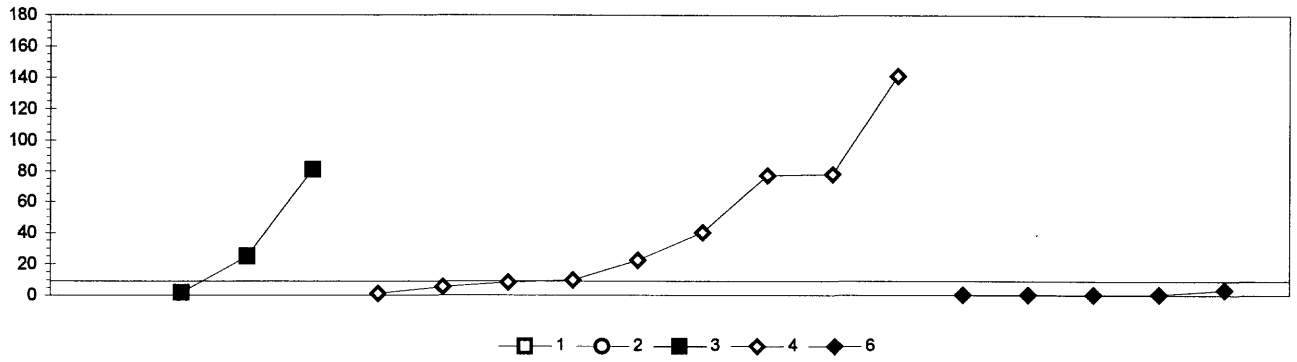


| | | | |
|-------------------|------------------|------|------|
| 1. AA: direct air | | | |
| 4. ICP | | | |
| 6. ICP/MS | | | |
| | N = | 1 | 20 |
| | Minimum = | 2.43 | 2.47 |
| | Maximum = | | 3.27 |
| | Median = | | 2.95 |
| | F-pseudostigma = | | 0.15 |
| | | | 0.21 |

MPV = 2.97
 F-pseudostigma = 0.13
 N = 29
 Hu = 3.04
 HI = 2.86

| Lab | Rating | Z-value | 1 | 4 | 6 |
|-----|--------|---------|------|------|------|
| 1 | 4 | -0.06 | | | 2.96 |
| 3 | 0 | 2.26 | | 3.27 | |
| 11 | 4 | -0.21 | | 2.94 | |
| 16 | 2 | -1.39 | | 2.78 | |
| 18 | 3 | -0.51 | | 2.90 | |
| 32 | 0 | 2.49 | | | 3.30 |
| 42 | 4 | 0.00 | | 2.97 | |
| 81 | 3 | -0.58 | | 2.89 | |
| 86 | 3 | -0.73 | | 2.87 | |
| 113 | 2 | 1.29 | | 3.14 | |
| 119 | 0 | 2.41 | | | 3.29 |
| 127 | 4 | 0.46 | | 3.03 | |
| 134 | 3 | 0.61 | | 3.05 | |
| 138 | 4 | 0.31 | | 3.01 | |
| 142 | 3 | 0.54 | | 3.04 | |
| 147 | 3 | -0.81 | | 2.86 | |
| 151 | 0 | -3.58 | | | 2.49 |
| 154 | 1 | -1.86 | | 2.72 | |
| 191 | 4 | 0.46 | | | 3.03 |
| 196 | 2 | 1.47 | | | 3.16 |
| 212 | 2 | -1.26 | | 2.80 | |
| 219 | 4 | 0.46 | | 3.03 | |
| 235 | 0 | -3.73 | | 2.47 | |
| 247 | 3 | 0.58 | | | 3.05 |
| 259 | 4 | 0.24 | | 3.00 | |
| 265 | 4 | -0.28 | | | 2.93 |
| 273 | 4 | 0.24 | | 3.00 | |
| 284 | 0 | -4.03 | 2.43 | | |
| 289 | 0 | -2.46 | | 2.64 | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
 V (Vanadium) µg/L

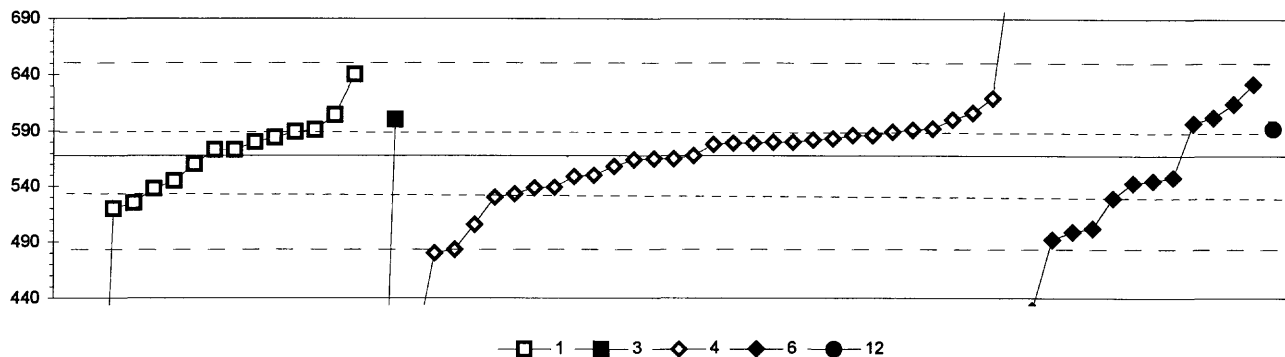


| | | | | | |
|-----------------------------|-----------|-------|------|-------|-----|
| 1. AA: direct air | 4. ICP | | | | |
| 2. AA: direct nitrous oxide | 6. ICP/MS | | | | |
| 3. AA: graphite furnace | | | | | |
| N = | 1 | 0 | 3 | 9 | 5 |
| Minimum = | 421.0 | < 100 | 1.7 | 1.1 | 0.2 |
| Maximum = | | | 80.9 | 141.0 | 3.3 |
| Median = | | | | | |
| F-pseudostigma = | | | | | |

MPV = insufficient data
 F-pseudostigma =
 N = 18
 Hu =
 Hi =

| Lab | Rating | Z-value | 1 | 2 | 3 | 4 | 6 |
|-----|--------|---------|-------|-------|------|--------|-------|
| 1 | NR | | | | | < 30 | |
| 3 | NR | | | | | < 5 | |
| 13 | NR | | | | | < 50 | |
| 16 | NR | -0.10 | | | | | 3.3 |
| 18 | NR | | | | | < 5 | |
| 26 | NR | 1.21 | | | | 77.0 | |
| 30 | NR | | | | | | < 10 |
| 32 | NR | | | | | | < 0.5 |
| 42 | NR | | | | | | < 5 |
| 46 | NR | -0.01 | | | | 8.4 | |
| 48 | NR | | | | | | < 4 |
| 61 | NR | 0.01 | | | | 9.7 | |
| 81 | NR | | | | | < 3 | |
| 86 | NR | 1.22 | | | | 77.8 | |
| 89 | NR | 0.28 | | | 24.8 | | |
| 111 | NR | | | | < 5 | | |
| 119 | NR | -0.15 | | | | | 0.4 |
| 127 | NR | | | | | < 3 | |
| 134 | NR | | | | < 1 | | |
| 138 | NR | -0.14 | | | | 1.1 | |
| 141 | NR | | | | | < 10 | |
| 142 | NR | | | | | | < 2 |
| 146 | NR | | | | | < 10 | |
| 147 | NR | -0.16 | | | | | 0.2 |
| 154 | NR | 2.35 | | | | 141.0 | |
| 180 | NR | | | | | < 4.67 | |
| 196 | NR | -0.15 | | | | | 0.3 |
| 212 | NR | | | | | | < 1 |
| 219 | NR | -0.07 | | | | 5.3 | |
| 220 | NR | 0.55 | | | | 40.0 | |
| 224 | NR | 0.24 | | | | 22.4 | |
| 235 | NR | | | | | < 10 | |
| 241 | NR | -0.13 | | | 1.7 | | |
| 247 | NR | | | | | | < 1 |
| 255 | NR | | | | | < 3 | |
| 257 | NR | | | < 100 | | | |
| 265 | NR | -0.16 | | | | | 0.3 |
| 282 | NR | | | | | | < 20 |
| 284 | NR | 7.33 | 421.0 | | | | |
| 289 | NR | 1.28 | | | 80.9 | | |

Table 19. Statistical summary of reported data for standard reference water sample GW-1 (ground-water constituents)--Continued
 Zn (Zinc) µg/L



| 1. AA: direct air | | | 6. ICP/MS | | | | | |
|-------------------------|--|--|--------------------|-----|-----|-----|-----|---|
| 3. AA: graphite furnace | | | 12. Flame emission | | | | | |
| 4. ICP | | | N = | 15 | 2 | 31 | 12 | 1 |
| Minimum = | | | 54 | 14 | 388 | 429 | 592 | |
| Maximum = | | | 640 | 600 | 749 | 632 | | |
| Median = | | | 573 | | 578 | 544 | | |
| F-pseudostigma = | | | 41 | | 31 | 73 | | |

MPV = 568
 F-pseudostigma = 42
 N = 61
 Hu = 589
 HI = 533

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 | 12 |
|-----|--------|---------|-----|---|-----|-----|----|
| 1 | 1 | -1.66 | | | | 499 | |
| 3 | 3 | 0.51 | | | 589 | | |
| 11 | 3 | -0.70 | | | 539 | | |
| 12 | 4 | 0.29 | | | 580 | | |
| 13 | 4 | 0.43 | | | 586 | | |
| 16 | 1 | -1.83 | | | | 492 | |
| 18 | 3 | -0.92 | | | 530 | | |
| 26 | 4 | -0.07 | | | 565 | | |
| 30 | 1 | 1.54 | | | | 632 | |
| 32 | 3 | -0.60 | | | | 543 | |
| 36 | 0 | -12.31 | 57 | | | | |
| 42 | 3 | 0.92 | | | 606 | | |
| 46 | 2 | -1.50 | | | 506 | | |
| 48 | 3 | -0.55 | | | | 545 | |
| 61 | 4 | 0.43 | | | 586 | | |
| 69 | 3 | 0.55 | 591 | | | | |
| 81 | 4 | 0.00 | | | 568 | | |
| 83 | 4 | -0.24 | | | 558 | | |
| 86 | 4 | 0.26 | | | 579 | | |
| 89 | 4 | 0.12 | 573 | | | | |
| 92 | 0 | -12.37 | 54 | | | | |
| 119 | 4 | 0.29 | | | 580 | | |
| 126 | 1 | 1.73 | 640 | | | | |
| 127 | 4 | 0.36 | | | 583 | | |
| 134 | 2 | 1.23 | | | 619 | | |
| 138 | 4 | -0.07 | | | 565 | | |
| 140 | 4 | -0.19 | 560 | | | | |
| 141 | 4 | 0.34 | | | 582 | | |
| 142 | 2 | 1.11 | | | | 614 | |
| 146 | 4 | -0.46 | | | 549 | | |
| 147 | 0 | -2.12 | | | 480 | | |
| 149 | 3 | 0.51 | 589 | | | | |
| 151 | 3 | -0.94 | | | | 529 | |
| 154 | 1 | -2.05 | | | 483 | | |
| 158 | 4 | 0.26 | | | 579 | | |
| 180 | 3 | 0.55 | | | 591 | | |
| 190 | 3 | 0.58 | | | | 592 | |
| 191 | 3 | 0.70 | | | | 597 | |
| 196 | 3 | 0.82 | | | | 602 | |
| 203 | 3 | -0.55 | 545 | | | | |
| 212 | 3 | -0.84 | | | 533 | | |
| 215 | 3 | 0.58 | | | 592 | | |
| 219 | 4 | -0.43 | | | 550 | | |
| 220 | 4 | 0.24 | | | 578 | | |
| 221 | 3 | -0.72 | 538 | | | | |
| 224 | 0 | -4.34 | | | 388 | | |
| 235 | 0 | -3.35 | | | | 429 | |
| 241 | 4 | 0.12 | 573 | | | | |
| 247 | 1 | -1.59 | | | | 502 | |
| 255 | 3 | -0.71 | | | 539 | | |

| Lab | Rating | Z-value | 1 | 3 | 4 | 6 | 12 |
|-----|--------|---------|-----|-----|-----|-----|----|
| 256 | 3 | 0.87 | 604 | | | | |
| 257 | 2 | -1.16 | 520 | | | | |
| 259 | 4 | -0.10 | | | 564 | | |
| 265 | 3 | 0.77 | | | 600 | | |
| 273 | 0 | 4.36 | | | 749 | | |
| 274 | 0 | -13.35 | | 14 | | | |
| 282 | 4 | -0.48 | | | | 548 | |
| 284 | 2 | -1.04 | 525 | | | | |
| 287 | 4 | 0.39 | 584 | | | | |
| 289 | 3 | 0.77 | | 600 | | | |
| 292 | 4 | 0.29 | 580 | | | | |

Table 20. *Statistical summary of reported data for standard reference water sample Hg-24 (mercury)*

Definition of analytical methods, abbreviations, and symbols

Analytical methods

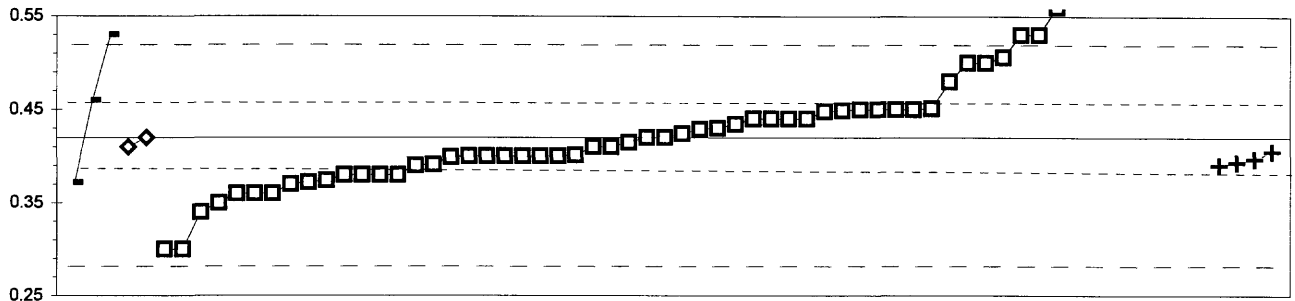
- 0 Other/Not reported
 - 6 ICP/MS = inductively coupled plasma/mass spectrometry
 - 8 AA: cold vapor = atomic absorption: cold vapor
 - 9 Atomic fluorescence
-

Abbreviations and symbols

- N = number of samples
 - MPV = most probable value
 - F-pseudostigma = nonparametric statistic deviation
 - Hu = upper hinge value
 - Hi = lower hinge value
 - µg/L = micrograms per liter
 - Lab = laboratory code number
 - NR = not rated, less than value reported
 - < = less than
-

| <u>Constituent</u> | <u>page</u> |
|--------------------|-------------|
| Hg Mercury | 183 |

Table 20. Statistical summary of reported data for standard reference water sample Hg-24 (mercury)--Continued
Hg (Mercury) $\mu\text{g/L}$



■ 0 ◇ 6 □ 8 + 9

| 0. Other | | 9. Atomic fluorescence | | | | |
|-------------------|--|------------------------|------|------|-------|------|
| 6. ICP/MS | | | | | | |
| 8. AA: cold vapor | | N = | 3 | 2 | 59 | 4 |
| | | Minimum = | 0.37 | 0.41 | 0.30 | 0.39 |
| | | Maximum = | 0.53 | 0.42 | 44.20 | 0.41 |
| | | Median = | | | 0.42 | |
| | | F-pseudosigma = | | | 0.06 | |

MPV = 0.42
F-pseudosigma = 0.05
N = 68
Hu = 0.46
HI = 0.39

| Lab | Rating | Z-value | 0 | 6 | 8 | 9 |
|------|--------|---------|------|------|-------|------|
| 1 | 3 | -0.83 | | | 0.38 | |
| 3 | 0 | -2.49 | | | 0.30 | |
| 10 | 4 | 0.42 | | | 0.44 | |
| 11 | 2 | -1.25 | | | 0.36 | |
| 12 | 0 | -4.57 | | | < 0.2 | |
| 13 | 0 | 2.91 | | | 0.56 | |
| 18 | 3 | -0.83 | | | 0.38 | |
| 26 | 4 | 0.42 | | | 0.44 | |
| 30 | 0 | 3.74 | | | 0.60 | |
| 32 | 0 | 2.28 | 0.53 | | | |
| 34.1 | 4 | -0.31 | | | | 0.41 |
| 34.2 | 1 | -1.66 | | | 0.34 | |
| 36 | 0 | 2.28 | | | 0.53 | |
| 39 | 3 | 0.62 | | | 0.45 | |
| 42 | 3 | 0.64 | | | 0.45 | |
| 46 | 4 | -0.44 | | | 0.40 | |
| 48 | 4 | 0.42 | | | 0.44 | |
| 50 | 2 | -1.25 | | | 0.36 | |
| 51 | 4 | 0.21 | | | 0.43 | |
| 55 | 4 | 0.29 | | | 0.43 | |
| 59 | 2 | -1.45 | | | 0.35 | |
| 61 | 0 | -2.49 | | | 0.30 | |
| 68 | 2 | -1.25 | | | 0.36 | |
| 69 | 3 | -0.62 | | | 0.39 | |
| 70 | 4 | -0.39 | | | 0.40 | |
| 76 | 4 | -0.21 | | 0.41 | | |
| 81 | 4 | -0.42 | | | 0.40 | |
| 86 | 3 | -0.56 | | | | 0.39 |
| 87 | 0 | 3.74 | | | 0.60 | |
| 89 | 4 | -0.42 | | | 0.40 | |
| 96 | 1 | 1.78 | | | 0.51 | |
| 97 | 1 | 1.66 | | | 0.50 | |
| 105 | 3 | 0.60 | | | 0.45 | |
| 108 | 0 | 5.81 | | | 0.70 | |
| 109 | 3 | -0.83 | | | 0.38 | |
| 111 | 0 | 908.60 | | | 44.20 | |
| 113 | 4 | 0.00 | | | 0.42 | |
| 119 | 4 | -0.21 | | | 0.41 | |
| 127 | 3 | -1.00 | | | 0.37 | |
| 133 | 3 | 0.83 | 0.46 | | | |
| 134 | 4 | 0.08 | | | 0.42 | |
| 138 | 2 | -1.04 | | | 0.37 | |
| 141 | 3 | 0.62 | | | 0.45 | |
| 142 | 3 | 0.58 | | | 0.45 | |
| 145 | 0 | 3.94 | | | 0.61 | |
| 146 | 3 | -0.60 | | | 0.39 | |
| 147 | 3 | -0.62 | | | | 0.39 |
| 149 | 4 | -0.42 | | | 0.40 | |
| 193 | 3 | -0.83 | | | 0.38 | |
| 198 | 4 | -0.10 | | | 0.42 | |

| Lab | Rating | Z-value | 0 | 6 | 8 | 9 |
|-----|--------|---------|------|------|-------|------|
| 212 | 3 | 0.62 | | | 0.45 | |
| 213 | 4 | -0.42 | | | 0.40 | |
| 215 | 2 | 1.25 | | | 0.48 | |
| 219 | 4 | -0.42 | | | 0.40 | |
| 220 | 4 | -0.21 | | | 0.41 | |
| 221 | 3 | 0.62 | | | 0.45 | |
| 234 | 0 | 79.49 | | | 4.25 | |
| 235 | 4 | 0.42 | | | 0.44 | |
| 241 | 4 | 0.00 | | | 0.42 | |
| 245 | 4 | -0.48 | | | | 0.40 |
| 247 | 4 | 0.19 | | | 0.43 | |
| 252 | 0 | 2.28 | | | 0.53 | |
| 255 | 3 | -0.95 | | | 0.37 | |
| 256 | 0 | 13.28 | | | 1.06 | |
| 257 | 0 | 95.05 | | | 5.00 | |
| 259 | 4 | -0.42 | | | 0.40 | |
| 265 | 4 | 0.00 | | 0.42 | | |
| 282 | NR | | | | < 1 | |
| 284 | 1 | 1.66 | | | 0.50 | |
| 289 | 3 | -1.00 | 0.37 | | | |
| 292 | NR | | | | < 0.6 | |

Table 21. *Most probable values for constituents and properties in standard reference samples distributed in April 1997*

[MPV, most probable value; N, number of samples; ug/L, microgram per liter, mg/L, milligram per liter, uS/cm, microsiemen per centimeter at 25 degrees Celsius]

T-147 (trace constituents)

| Analyte | MPV | F-pseudosigma | N | Analyte | MPV | F-pseudosigma | N |
|----------------------|-----------|---------------|----|------------------|-----------|---------------|-----|
| Ag | 7.60 µg/L | 0.75 | 65 | Mg | 8.20 mg/L | 0.30 | 100 |
| Al | 14.0 µg/L | 7.5 | 48 | Mn | 17.2 µg/L | 1.4 | 91 |
| As | 2.39 µg/L | 0.67 | 58 | Mo | 11.8 µg/L | 1.3 | 49 |
| B | 50.0 µg/L | 5.8 | 41 | Na | 52.6 mg/L | 2.2 | 95 |
| Ba | 73.0 µg/L | 3.2 | 75 | Ni | 13.6 µg/L | 1.5 | 70 |
| Be | 16.0 µg/L | 1.1 | 71 | Pb | 13.8 µg/L | 1.1 | 83 |
| Ca | 41.1 mg/L | 1.7 | 99 | Sb | 10.5 µg/L | 0.9 | 49 |
| Cd | 15.9 µg/L | 1.2 | 94 | Se | 10.1 µg/L | 1.8 | 66 |
| Co insufficient data | | | 16 | SiO ₂ | 24.0 mg/L | 1.4 | 54 |
| Cr | 12.8 µg/L | 1.2 | 83 | Sr | 313 µg/L | 13 | 49 |
| Cu | 11.4 µg/L | 1.3 | 89 | Tl | 20.0 µg/L | 2.1 | 49 |
| Fe | 8.4 µg/L | 6.4 | 49 | U | 3.21 µg/L | 0.59 | 9 |
| K | 3.52 mg/L | 0.19 | 88 | V | 15.2 µg/L | 1.4 | 53 |
| Li | 18.0 µg/L | 1.3 | 35 | Zn | 14.0 µg/L | 2.2 | 72 |

T-149 (trace constituents)

| Analyte | MPV | F-pseudosigma | N | Analyte | MPV | F-pseudosigma | N |
|----------------------|-----------|---------------|----|------------------|-----------|---------------|----|
| Ag insufficient data | | | 21 | Mg | 13.1 mg/L | 0.7 | 98 |
| Al | 35.5 µg/L | 9.0 | 54 | Mn | 11.8 µg/L | 1.0 | 83 |
| As | 1.0 µg/L | 0.6 | 33 | Mo | 1.25 µg/L | 0.41 | 25 |
| B | 128 µg/L | 10 | 39 | Na | 42.8 mg/L | 2.7 | 95 |
| Ba | 42.5 µg/L | 2.5 | 66 | Ni | 31.2 µg/L | 2.2 | 80 |
| Be insufficient data | | | 10 | Pb | 8.84 µg/L | 1.17 | 81 |
| Ca | 42.3 mg/L | 1.9 | 97 | Sb | 21.1 µg/L | 2.4 | 51 |
| Cd | 2.18 µg/L | 0.30 | 77 | Se | 2.10 µg/L | 0.80 | 41 |
| Co insufficient data | | | 17 | SiO ₂ | 11.8 mg/L | 0.7 | 54 |
| Cr | 48.8 µg/L | 2.9 | 85 | Sr | 331 µg/L | 17 | 44 |
| Cu | 8.00 µg/L | 1.21 | 79 | Tl | 31.4 µg/L | 4.0 | 45 |
| Fe | 70.0 µg/L | 11.5 | 89 | U | 2.71 µg/L | 0.43 | 8 |
| K | 2.00 mg/L | 0.14 | 87 | V | 31.0 µg/L | 2.8 | 54 |
| Li | 44.2 µg/L | 3.2 | 32 | Zn | 5.80 µg/L | 2.15 | 56 |

M-142 (major constituents)

| Analyte | MPV | F-pseudosigma | N | Analyte | MPV | F-pseudosigma | N |
|------------|------------|---------------|-----|------------------|------------|---------------|-----|
| Alkalinity | 180 mg/L | 9 | 103 | Na | 153 mg/L | 7 | 106 |
| B | 121 µg/L | 10 | 45 | total P | 0.02 mg/L | 0.01 | 56 |
| Ca | 67.6 mg/L | 3.4 | 112 | pH | 8.54 units | 0.43 | 113 |
| Cl | 132 mg/L | 7 | 110 | SiO ₂ | 7.67 mg/L | 0.50 | 70 |
| DSRD | 746 mg/L | 37 | 70 | SO ₄ | 231 mg/L | 12 | 101 |
| F | 0.460 mg/L | 0.054 | 78 | Sp Cond | 1200 µS/cm | 60 | 109 |
| K | 5.72 mg/L | 0.39 | 99 | Sr | 646 µg/L | 32 | 42 |
| Mg | 25.3 mg/L | 1.3 | 111 | V | 22.7 µg/L | 3.7 | 45 |

N-53 (nutrient constituents)

| Analyte | MPV | F-pseudosigma | N |
|---------------------------------------|-----------|---------------|----|
| NH ₃ as N | 3.50 mg/L | 0.17 | 79 |
| NH ₃ +OrgN as N | 3.95 mg/L | 0.28 | 58 |
| NO ₃ +NO ₂ as N | 2.57 mg/L | 0.13 | 88 |
| Total P as P | 2.32 mg/L | 0.11 | 76 |
| PO ₄ as P | 2.12 mg/L | 0.11 | 75 |

N-54 (nutrient constituents)

| Analyte | MPV | F-pseudosigma | N |
|---------------------------------------|-----------|---------------|----|
| NH ₃ as N | 1.00 mg/L | 0.08 | 79 |
| NH ₃ +OrgN as N | 1.26 mg/L | 0.13 | 61 |
| NO ₃ +NO ₂ as N | 1.17 mg/L | 0.09 | 90 |
| total P as P | 1.78 mg/L | 0.09 | 74 |
| PO ₄ as P | 1.72 mg/L | 0.09 | 78 |

P-28 (low ionic strength constituents)

| Analyte | MPV | F-pseudosigma | N | Analyte | MPV | F-pseudosigma | N |
|---------------------|-----------|---------------|----|--|------------|---------------|----|
| Acidity | 2.5 mg/L | 1.1 | 20 | Mg | 0.883 mg/L | 0.044 | 57 |
| Ca | 1.64 mg/L | 0.10 | 57 | Na | 3.25 mg/L | 0.16 | 57 |
| Cl | 3.30 mg/L | 0.26 | 60 | pH | 6.75 units | 0.21 | 60 |
| F | 0.06 mg/L | 0.03 | 28 | PO ₄ as P insufficient data | | | 13 |
| I insufficient data | | | 3 | SO ₄ | 6.14 mg/L | 0.25 | 61 |
| K | 0.14 mg/L | 0.04 | 43 | Sp Cond | 36.6 µS/cm | 1.8 | 55 |

GW-1 (ground-water constituents)

| Analyte | MPV | F-pseudosigma | N | Analyte | MPV | F-pseudosigma | N |
|----------------------|-----------|---------------|----|----------------------|-----------|---------------|----|
| Ag insufficient data | | | 18 | Li | 225 µg/L | 33 | 22 |
| Al | 538 µg/L | 67 | 55 | Mg | 200 mg/L | 10 | 67 |
| As | 1.0 µg/L | 0.7 | 25 | Mn | 19.7 mg/L | 1.1 | 65 |
| B | 349 µg/L | 76 | 31 | Mo insufficient data | | | 16 |
| Ba | 17.7 µg/L | 2.3 | 48 | Na | 12.3 mg/L | 0.9 | 69 |
| Be | 6.00 µg/L | 1.17 | 45 | Ni | 428 µg/L | 30 | 60 |
| Ca | 357 mg/L | 23 | 68 | Pb | 1.21 µg/L | 0.52 | 29 |
| Cd insufficient data | | | 26 | Sb insufficient data | | | 13 |
| Cl | 50.3 mg/L | 9.7 | 30 | Se insufficient data | | | 12 |
| Co | 0.20 µg/L | 0.01 | 42 | SiO ₂ | 11.1 mg/L | 1.8 | 37 |
| Cr | 38.3 µg/L | 5.9 | 57 | SO ₄ | 2345 mg/L | 326 | 34 |
| Cu | 25.0 µg/L | 7.6 | 57 | Sr | 2.97 mg/L | 0.13 | 29 |
| Fe | 341 mg/L | 26 | 63 | V insufficient data | | | 18 |
| K | 79.0 mg/L | 4.5 | 67 | Zn | 568 µg/L | 42 | 61 |

Hg-24 (mercury)

| Analyte | MPV | F-pseudosigma | N |
|---------|-----------|---------------|----|
| Hg | 0.42 µg/L | 0.05 | 68 |