

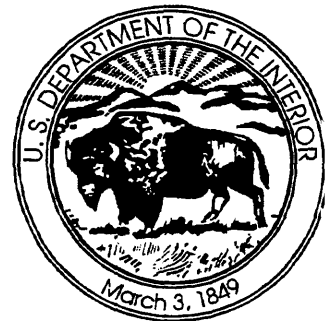
**REPORT ON THE U.S. GEOLOGICAL SURVEY'S EVALUATION PROGRAM  
FOR STANDARD REFERENCE SAMPLES DISTRIBUTED IN SEPTEMBER 1996:  
T-143 (TRACE CONSTITUENTS), T-145 (TRACE CONSTITUENTS),  
M-140 (MAJOR CONSTITUENTS), N-51 (NUTRIENT CONSTITUENTS),  
N-52 (NUTRIENT CONSTITUENTS), P-27 (LOW IONIC STRENGTH  
CONSTITUENTS), AND Hg-23 (MERCURY)**

**by Jerry W. Farrar and H. Keith Long**

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**U.S. GEOLOGICAL SURVEY**

**Open-File Report 97-20**



**Lakewood, Colorado  
1997**

**DEPARTMENT OF THE INTERIOR**

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**U.S. GEOLOGICAL SURVEY**

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STANDARD REFERENCE SAMPLES DISTRIBUTED IN SEPTEMBER 1996:  
T-143 (TRACE CONSTITUENTS), T-145 (TRACE CONSTITUENTS),  
M-140 (MAJOR CONSTITUENTS), N-51 (NUTRIENT CONSTITUENTS),  
N-52 (NUTRIENT CONSTITUENTS), P-27 (LOW IONIC STRENGTH  
CONSTITUENTS), AND Hg-23 (MERCURY)

By Jerry W. Farrar and H. Keith Long

ABSTRACT

This report presents the results of the U.S. Geological Survey's analytical evaluation program for 7 standard reference samples -- T-143 (trace constituents), T-145 (trace constituents), M-140 (major constituents), N-51 (nutrient constituents), N-52 (nutrient constituents), P-27 (low ionic strength constituents), and Hg-23 (mercury) -- that were distributed in September 1996 to 167 laboratories registered in the U.S. Geological Survey sponsored interlaboratory testing program. Analytical data that were received from 140 of the laboratories were evaluated with respect to: overall laboratory performance and relative laboratory performance for each analyte in the seven 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 seven 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 evaluation program semiannually. This program provides a variety of reference materials 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. Occasionally, sediment samples are provided.

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 1962 determinations of six analytes in the major standard reference sample (SRS). 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) ascertain the accuracy and precision of analytical methods.

Two hundred fifteen USGS and non-USGS laboratories are registered in the program, which can currently provide eight standard reference sample types:

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. Sediment (bed material) for major and trace constituents.

When sufficient data are available, a most probable value is statistically determined for each analyte in the SRS.

Though this is not a laboratory certification program, participation in this continuing quality assurance program is mandatory for all laboratories providing water-analyses data for USGS data storage or use (publications). Federal, State, municipal, and university laboratories can participate even though they do not provide data to the USGS. Analyses of these SRS provides the means to alert participating laboratories of possible deficiencies in their analytical operations, and also provides reference materials for in-house quality control programs. Participating laboratories are identified only by a confidential code number.

A library of SRS, from previous evaluations, are available. Participating laboratories can purchase previous SRS 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  
 Box 25046 MS 401  
 Denver, Colorado 80225-0046  
 (303) 236-1870

### Purpose and Scope

This report summarizes the analytical results submitted by 140 of the 167 laboratories that requested and were shipped SRS for the January 1997 evaluation (table 1). Not all SRS are requested, nor 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 September 9, 1996, are presented in this report:

|       |   |
|-------|---|
| T-143 | Trace constituents                              |
| T-145 | Trace constituents                              |
| M-140 | Major constituents                              |
| N-51  | Nutrient constituents                           |
| N-52  | Nutrient constituents                           |
| P-27  | Low ionic strength constituents (precipitation) |
| Hg-23 | Mercury   |

The USGS requested that analytical results be returned by November 15, 1996 for evaluation and preparation of this report. Each participating laboratory is requested to perform those determinations routinely made on the respective SRS for USGS investigations and to indicate the information was provided, it has been included in the respective data table. The analytical data are represented in ways

that allow participants to evaluate data distribution, scatters, outliers, central tendency, bias, skewness, and method relationships.

**Table 1.-Laboratory participants in the analyses of standard reference samples distributed in September 1996**

| State      | City             | Participating Laboratory                                |
|------------|------------------|---|
| Alabama    | Tuscaloosa       | Geological Survey of Alabama                            |
| Alaska     | Soldotna         | Alaska Department of Fish and Game                      |
| 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                             |
|            | Martinez         | Central Contra Costa Sanitary District                  |
|            | Oakland          | East Bay Municipal Utility District                     |
|            | Perris           | Eastern Municipal Water District                        |
|            | Sacramento       | Anlab   |
|            | Sacramento       | US Bureau of Reclamation                                |
|            | Sacramento       | USGS WRD  |
|            | Santa Fe Springs | West Coast Analytical Service, Inc.                     |
|            | Tahoe City       | Tahoe Research Group                                    |
|            | West Sacramento  | California Department of Water Resources                |
|            | West Sacramento  | Quanterra   |
| Colorado   | Alamosa          | Bureau of Reclamation                                   |
|            | Arvada           | Quanterra   |
|            | Arvada           | USGS-NWQL   |
|            | Aurora           | Core Laboratories, Inc.                                 |
|            | Colorado Springs | City of Colorado Springs                                |
|            | Denver           | US Bureau of Reclamation                                |
|            | Denver           | USGS Colorado District Toxic Project                    |
|            | Denver           | Denver Water Department                                 |
|            | Fort Collins     | City of Fort Collins - Water Quality                    |
|            | Fort Collins     | CSU - Soil Testing Laboratory                           |
|            | Fort Collins     | USDA Forest Service                                     |
|            | Golden           | Kaiser - Hill Rocky Flats                               |
|            | Loveland         | Northern Colorado Water Conservation                    |
|            | Northglenn       | Northglenn Water Treatment Plant                        |
|            | Westminster      | City of Westminster                                     |
| Florida    | Bradenton        | Manatee County Environmental Management                 |
|            | Brooksville      | SW Florida Water Management District                    |
|            | Ocala            | USGS WRD QWSU   |
|            | Orlando          | Post, Bucklye, 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 |
| Georgia    | West Palm Beach  | South Florida Water Management District                 |
|            | Athens           | University of Georgia                                   |
|            | Atlanta          | Georgia Department of Natural Resources                 |
|            | Atlanta          | USGS WRD  |
|            | Decatur          | Dekalb County Water Quality Laboratory                  |
| Hawaii     | Tifton           | USDA - ARS  |
|            | Honolulu         | University of Hawaii - SOEST Analytical Services        |

**Table 1.-Laboratory participants in the analyses of standard reference samples distributed in September 1996--Continued**

| State          | City             | Participating Laboratory                                      |
|----------------|------------------|---|
| Idaho          | Boise            | US Bureau of Reclamation                                      |
|                | Pocatello        | Idaho State University  |
| Illinois       | Champaign        | Hazardous Waste Research Center                               |
|                | Champaign        | Illinois Environmental Protection Agency                      |
| Indiana        | Indianapolis     | Indianapolis Department of Public Works                       |
| Iowa           | Des Moines       | University Hygienic Laboratory, Des Moines Branch             |
| Kansas         | Lawrence         | Kansas Geological Survey                                      |
|                | Topeka           | City of Topeka  |
|                | Topeka           | Kansas Department of Health and Environment                   |
|                | Wichita          | City of Wichita   |
| Kentucky       | Frankfort        | Division of Environmental Studies                             |
|                | Lexington        | Kentucky Geological Survey                                    |
|                | Louisville       | Metropolitan Sewer District                                   |
| Maryland       | Baltimore        | Maryland Department of Health and Mental Hygiene              |
| Michigan       | Ann Arbor        | University of 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                             |
|                | Missoula         | University of Montana   |
| Nevada         | Boulder City     | US 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       | Brewster         | NYC DEP Brewster Lab  |
|                | Brockport        | SUNY - Brockport  |
|                | Grahamsville     | New York City Department of Environmental Protection          |
|                | Hauppauge        | Suffolk County Water Authority                                |
|                | Hempstead        | Nassau County Department of Health                            |
|                | Ithaca           | Cornell Nutrient Analysis Lab                                 |
|                | Milbrook         | Institute of Ecosystem Studies                                |
|                | North Babylon    | Ecotest Laboratories  |
|                | Rochester        | Monroe County   |
|                | Shokan           | New York City Department of Environmental Protection          |
|                | Syracuse         | Onandaga County DDS   |
|                | Troy             | USGS-WRD  |
|                | Valhalla         | Department of Environmental Protection                        |
|                | Wantagh          | Cedar Creeks Projects laboratory                              |
| North Carolina | Yorcktown        | New York City Department of Environmental Protection          |
|                | Chapel Hill      | City of Durham Water Resources                                |
|                | Charlotte        | Mecklenburg County  |
| North Carolina | Greensboro       | City of Greensboro  |
| North Dakota   | Bismarck         | North Dakota State Health Department                          |
|                | Bismarck         | North Dakota State Water Commission                           |
|                | Bismarck         | US BOR  |
| Ohio           | Cincinnati       | US EPA  |
|                | Cuyahoga Heights | Northeast Ohio Regional Sewer District                        |
|                | Tiffin           | Heidelberg College  |
|                | Wooster          | The Ohio State University                                     |

**Table 1.-Laboratory participants in the analyses of standard reference samples distributed in September 1996--Continued**

| State        | City            | Participating Laboratory                           |
|--------------|-----------------|--|
| Oklahoma     | Norman          | Oklahoma Geological Survey                         |
|              | Oklahoma City   | Oklahoma Department of Environmental Quality       |
| Oregon       | Corvallis       | USDA - CCAL  |
|              | Tigard          | Unified Sewerage Agency                            |
| Pennsylvania | Harrisburg      | Pennsylvania Department of Environmental Resources |
|              | Somerset        | Geochemical Testing                                |
| Puerto Rico  | San Juan        | Department of Natural Resources                    |
| South Dakota | Brookings       | SDSU - Water Quality Laboratory                    |
| Tennessee    | Chattanooga     | TVA Environmental Chemistry                        |
| Texas        | Austin          | Lower Colorado River Authority                     |
|              | College Station | Texas A & M  |
|              | Seguin          | Guadalupe-Blanco River Authority                   |
| Vermont      | Waterbury       | Vermont Agency of Natural Resources                |
| Virginia     | Culpepper       | ESS Labs   |
|              | Manassas        | Occoquan Watershed Monitoring Laboratory           |
|              | Richmond        | Consolidated Laboratory Services                   |
| Washington   | Seattle         | Frontier Geoscience                                |
|              | Seattle         | Brooks-Rand, Ltd.                                  |
| Wisconsin    | Madison         | University of Wisconsin, Department of Hygiene     |
|              | Milwaukee       | Milwaukee Metro Sewerage District                  |

#### Middle East Laboratories

| <u>Location</u> | <u>Participating Laboratory</u>  |
|-----------------|--|
| Gaza            | Al-Azar University, Water Research Center Laboratory                         |
|                 | Islamic University, Environmental & Rural Research Center Laboratory         |
|                 | Ministry of Agriculture Laboratory   |
|                 | Ministry of Health, Public Health Laboratory                                 |
| Israel          | Geological Survey of Israel Laboratory                                       |
|                 | Israeli Hydrological Service Laboratory                                      |
|                 | Mekeroth Water Company, Central 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 & Technology, Water Research Center   |
|                 | Bethlehem University, Water and Soil Environmental Research Unit             |
|                 | Birzeit University, Center for Environmental & Occupational Health Services  |
|                 | Najah-WESC   |

#### Preparation of Standard Reference Samples

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

Trace constituent sample T-143 was prepared using water collected from the North Platte River near Windover, Wyoming. The water was pumped through 0.45, 0.2- and 0.1- $\mu$ m filters, in series, into a 3500-L polypropylene drum. The water was continuously circulated and passed through a 0.1- $\mu$ m 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. The trace constituent concentrations were adjusted by adding reagent grade chemicals. The sample was circulated an additional 24 hours prior to bottling.

polypropylene bottles used were acid leached, deionized-water rinsed, and autoclave sterilized.

Trace constituent sample T-145 was prepared using water collected from the Yampa River near Steamboat Springs, Colorado. The water was pumped through 0.45, 0.2- and 0.1- $\mu$ m filters, in series, into a 3500-L polypropylene drum. The water was continuously circulated and passed through a 0.1- $\mu$ m 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. 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- $\mu$ m filter. The 500-mL polypropylene bottles used were acid leached, deionized-water rinsed, and autoclave sterilized.

Major constituent sample M-140 was prepared using water collected from the Arkansas River near Avondale, Colorado. The water was pumped through 0.45, 0.2- and 0.1- $\mu$ m filters, in series, into a 1300-L polypropylene drum. The water was chlorinated to 5-ppm free chlorine with sodium hypochlorite, continuously circulated, and passed through a 0.1- $\mu$ m filter and ultraviolet sterilizer for 24 hours prior to bottling. During bottling the sample was pumped through an ultraviolet sterilizer and a 0.1- $\mu$ m filter. The 500-mL polypropylene bottles used were acid leached, deionized-water rinsed, and autoclave sterilized.

Nutrient sample N-51 was prepared using water collected from the West Chicago Creek 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- $\mu$ m filters, in series, into a 600-L polypropylene drum and continuously circulated and passed through a 0.1- $\mu$ m 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.

Nutrient sample N-52 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- $\mu$ m filters, in series, into a 600-L polypropylene drum and continuously circulated and passed through a 0.1- $\mu$ m 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.

Sample P-27 was prepared in a 400-L polypropylene drum using water collected from the West Chicago Creek near Idaho Springs, Colorado. The water was pumped into the drum through 0.45, 0.2- and 0.1- $\mu$ 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- $\mu$ m filter and an ultraviolet sterilizer. During bottling the sample was pumped through an ultraviolet sterilizer and a 0.1- $\mu$ m filter. The 500-mL polypropylene bottles used were acid leached, deionized-water rinsed, and autoclave sterilized.

Sample Hg-23 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- $\mu$ m filters in series. The water was continuously circulated and passed through a 0.1- $\mu$ m filter and ultraviolet sterilizer for 48 hours. Nitric acid (5-percent, v/v) and dichromate ion (0.05-percent, w/w) 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 analytes which are summarized in table 2. The number of analytes varied from 28 in T-143 & T-145 (trace constituents) to 1 in Hg-23 (mercury).

**Table 2.-Analytes determined in standard reference samples distributed in September 1996**

| [mg/L, milligrams per liter, µg/L, micrograms per liter, µS/cm, microsiemens per centimeter at 25 degrees Celsius] |                                 |       |             |       |           |            |
|--|---------------------------------|-------|-------------|-------|-----------|------------|
| Analyte or property  |                                 | Units | T-143,T-145 | M-140 | N-51,N 52 | P-27 Hg-23 |
| Acidity  | Acidity as CaCO <sub>3</sub>    | mg/L  |             |       |           | X          |
| Alk  | Alkalinity as CaCO <sub>3</sub> | mg/L  |             | X     |           |            |
| Ag   | Silver                          | µg/L  | X           |       |           |            |
| Al   | Aluminum                        | µg/L  | X           |       |           |            |
| As   | Arsenic                         | µg/L  | X           |       |           |            |
| B  | Boron                           | µg/L  | X           |       |           |            |
| Ba   | Barium                          | µg/L  | X           |       |           |            |
| Be   | Beryllium                       | µg/L  | X           |       |           |            |
| Ca   | Calcium                         | mg/L  | X           | X     |           | X          |
| Cd   | Cadmium                         | µg/L  | X           |       |           |            |
| Cl   | Chloride                        | mg/L  |             | X     |           |            |
| Co   | Cobalt                          | µg/L  | X           |       |           |            |
| Cr   | Chromium, total                 | µg/L  | X           |       |           |            |
| Cu   | Copper                          | µg/L  | X           |       |           |            |
| DSRD   | Dissolved solids                | mg/L  |             | X     |           |            |
| F  | Fluoride                        | mg/L  |             | X     |           | X          |
| Fe   | Iron                            | µg/L  | X           |       |           |            |
| Hg   | Mercury                         | µg/L  |             |       |           | X          |
| K  | Potassium                       | mg/L  | X           | X     |           | X          |
| Li   | Lithium                         | µg/L  | X           |       |           |            |
| Mg   | Magnesium                       | mg/L  | X           | X     |           | X          |
| Mn   | Manganese                       | µg/L  | X           |       |           |            |
| Mo   | Molybdenum                      | µg/L  | X           |       |           |            |
| Na   | Sodium                          | mg/L  | X           | X     |           | X          |
| NH <sub>3</sub> as N   | Ammonia                         | mg/L  |             |       | X         |            |
| NH <sub>3</sub> +Org N as N  | Ammonia + Organic N             | mg/L  |             |       | X         |            |
| Ni   | Nickel                          | µg/L  | X           |       |           |            |
| NO <sub>3</sub> +NO <sub>2</sub> as N  | Nitrate + Nitrite               | mg/L  |             |       | X         |            |
| Pb   | Lead                            | µg/L  | X           |       |           |            |
| pH   |                                 | unit  |             | X     |           | X          |
| PO <sub>4</sub> as P   | Orthophosphate                  | mg/L  |             |       | X         |            |
| total P as P   | Phosphorus                      | mg/L  |             | X     | X         | X          |
| Sb   | Antimony                        | µg/L  | X           |       |           |            |
| Se   | Selenium                        | µg/L  | X           |       |           |            |
| SiO <sub>2</sub>   | Silica                          | mg/L  | X           | X     |           |            |
| SO <sub>4</sub>  | Sulfate                         | mg/L  |             | X     |           | X          |
| Sp Cond  | Specific conductance            | µS/cm |             | X     |           | X          |
| Sr   | Strontium                       | µg/L  | X           | X     |           |            |
| Tl   | Thallium                        | µg/L  | X           |       |           |            |
| U  | Uranium                         | µg/L  | X           |       |           |            |
| V  | Vanadium                        | µg/L  | X           | X     |           |            |
| Zn   | Zinc                            | µg/L  | X           |       |           |            |

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

**Table 3. Analytical methods 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 use the references listed below 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, 981p.
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 interlaboratory performance comparisons, laboratory performance ratings, based on the analyses reported for each SRS, are included in tables 4 through 11 in this report. Averages of the analyte ratings and the number of analyte values reported for each SRS are given for each participating laboratory. 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.

## STATISTICAL PRESENTATION OF DATA

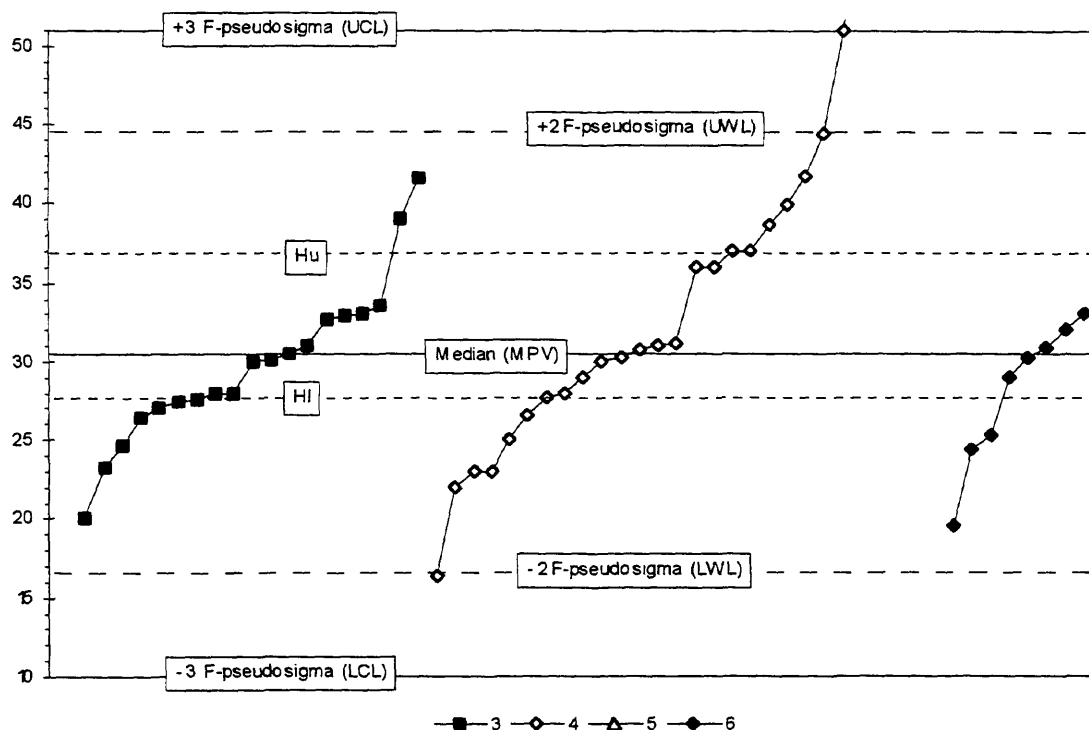
Data in this report have been evaluated using nonparametric statistics as described by Hoaglin and others (1983). This statistical approach is a resistant statistic because the median is not influenced by outliers as is the mean in traditional statistics.

Analytical data for each analyte are presented in tabular and graphical forms in tables 12 through 18. 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-pseudosigma. (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-pseudosigma is equivalent to the standard deviation ( $\sigma$ ) 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-pseudosigma for that analytical method is reported in the block of data listed for each analyte.

The median value is considered the MPV. Reported values of "less than" are used to establish the median, but are not considered in determining the data range. 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-pseudosigma, 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-pseudosigma 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  $1\sigma$ , resulting in a H-spr of  $2 \times 0.6745 = 1.349\sigma$ . This relation allows the calculation of the F-pseudosigma = (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.) The graphical plot is a box plot/control chart with 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. The analytical data are presented in ways that allow participants to evaluate data distribution, scatter, outliers, central tendency, bias, skewness, and method relationships.



NOTE: vertical scale is the concentration value of the individual analyte in appropriate units (see table 2.) Methods shown are defined in Tables 3 and 12 through 18.

Figure 1.-Statistical parameters shown on reported-data graphs

#### REFERENCE

Hoaglin, D.C., Mosteller, F., and Tukey, J.W., eds., 1983, Understanding Robust and Exploratory Data Analysis: John Wiley and Sons, Inc., 447p.

Table 4. Overall laboratory performance ratings for standard reference water samples distributed in September 1996

[Lab, laboratory number; OWR, overall weighted rating for all sample types; OLR, overall laboratory rating for reported values of a sample type; V/94, number of reported values of 94 total possible values from all sample types; V/28, V/28, V/16, V/5, V/5, V/11, V/1 are number of reported values possible for T-143, T-145, M-140, N-51, N-52, P-27 and Hg-23 respectively]

| Standard reference sample = |     |      | T-143 |      | T-145 |      | M-140 |      | N-51 |     | N-52 |     | P-27 |      | Hg-23 |     |
|-----------------------------|-----|------|-------|------|-------|------|-------|------|------|-----|------|-----|------|------|-------|-----|
| Lab                         | OWR | V/94 | OLR   | V/28 | OLR   | V/28 | OLR   | V/16 | OLR  | V/5 | OLR  | V/5 | OLR  | V/11 | OLR   | V/1 |
| 1                           | 3.5 | 90   | 3.6   | 28   | 3.4   | 28   | 3.5   | 16   | 3.0  | 3   | 3.4  | 5   | 3.8  | 9    | 3     | 1   |
| 2                           | 1.7 | 18   |       |      |       |      | 1.5   | 10   |      |     |      |     | 2.0  | 8    |       |     |
| 3                           | 1.8 | 86   | 1.7   | 26   | 1.5   | 25   | 1.9   | 16   | 2.5  | 4   | 3.0  | 5   | 2.0  | 9    | 0     | 1   |
| 4                           | 3.1 | 29   | 2.8   | 10   | 3.2   | 17   | 4.0   | 2    |      |     |      |     |      |      |       |     |
| 5                           | 3.0 | 49   |       |      | 3.4   | 23   | 3.4   | 13   | 0.5  | 2   | 2.0  | 3   | 2.3  | 8    |       |     |
| 7                           | 2.6 | 59   | 2.6   | 23   | 2.5   | 19   | 2.2   | 6    | 2.0  | 1   | 1.3  | 4   | 3.8  | 5    | 4     | 1   |
| 10                          | 3.3 | 37   | 2.8   | 6    | 2.8   | 8    | 3.5   | 13   | 3.8  | 4   | 3.6  | 5   |      |      | 4     | 1   |
| 11                          | 2.8 | 72   | 3.0   | 25   | 2.9   | 26   | 1.7   | 12   | 2.7  | 3   | 3.2  | 5   |      |      | 3     | 1   |
| 13                          | 2.8 | 61   | 2.6   | 23   | 2.8   | 22   | 2.7   | 12   |      |     | 3.8  | 4   |      |      |       |     |
| 15                          | 1.9 | 70   | 2.2   | 21   | 1.6   | 20   | 1.8   | 12   | 0.0  | 2   | 2.6  | 5   | 1.9  | 9    | 3     | 1   |
| 16                          | 2.8 | 80   | 3.2   | 27   | 2.7   | 27   | 2.6   | 15   | 2.2  | 5   | 1.6  | 5   |      |      | 4     | 1   |
| 18                          | 3.3 | 66   | 3.5   | 22   | 3.6   | 20   | 2.9   | 14   | 2.8  | 4   | 2.6  | 5   |      |      | 3     | 1   |
| 19                          | 3.2 | 33   | 3.2   | 13   | 3.3   | 6    | 3.0   | 10   |      |     | 3.5  | 4   |      |      |       |     |
| 21                          | 3.0 | 6    | 0.0   | 1    |       |      |       |      | 3.6  | 5   |      |     |      |      |       |     |
| 22                          | 3.3 | 3    |       |      |       |      | 4.0   | 1    | 2.0  | 1   | 4.0  | 1   |      |      |       |     |
| 23                          | 2.7 | 53   | 2.9   | 15   | 2.4   | 14   | 2.7   | 14   | 0.0  | 1   | 1.3  | 3   | 3.7  | 6    |       |     |
| 24                          | 2.9 | 47   | 2.6   | 20   | 2.8   | 14   | 3.7   | 13   |      |     |      |     |      |      |       |     |
| 25                          | 2.5 | 55   | 2.1   | 15   | 2.2   | 11   | 2.5   | 12   | 3.0  | 4   | 2.4  | 5   | 3.1  | 8    |       |     |
| 26                          | 3.4 | 73   | 3.3   | 24   | 3.5   | 24   | 3.4   | 13   |      |     | 2.0  | 2   | 3.4  | 9    | 4     | 1   |
| 28                          | 1.5 | 46   | 1.5   | 16   | 1.5   | 16   | 2.3   | 7    | 0.0  | 2   |      |     | 1.5  | 4    | 0     | 1   |
| 30                          | 3.1 | 49   | 3.2   | 21   | 2.9   | 21   | 3.2   | 5    |      |     | 4.0  | 2   |      |      |       |     |
| 32                          | 3.4 | 67   | 3.6   | 26   | 3.6   | 26   | 2.9   | 14   |      |     |      |     |      |      | 3     | 1   |
| 33                          | 3.0 | 42   | 2.7   | 10   | 2.4   | 10   | 3.4   | 11   | 3.0  | 1   | 2.5  | 2   | 3.6  | 8    | 4     | 1   |
| 34                          | 3.6 | 7    | 3.3   | 3    | 3.7   | 3    |       |      |      |     |      |     |      |      |       |     |
| 35                          | 3.5 | 2    | 4.0   | 1    | 3.0   | 1    |       |      |      |     |      |     |      |      |       |     |
| 36                          | 1.4 | 59   | 1.3   | 18   | 0.8   | 20   | 1.8   | 11   |      |     | 2.0  | 5   | 2.5  | 4    | 3     | 1   |
| 38                          | 3.4 | 27   |       |      |       |      | 3.3   | 10   | 3.0  | 5   | 3.6  | 5   | 3.6  | 7    |       |     |
| 39                          | 2.4 | 27   | 2.5   | 11   |       |      | 2.6   | 7    | 2.0  | 3   |      |     | 2.2  | 5    | 3     | 1   |
| 40                          | 2.4 | 48   | 2.2   | 19   | 2.1   | 16   | 2.9   | 13   |      |     |      |     |      |      |       |     |
| 42                          | 2.3 | 72   | 3.0   | 25   | 2.0   | 26   | 1.8   | 12   |      |     | 0.3  | 3   | 2.4  | 5    | 4     | 1   |
| 43                          | 3.6 | 25   | 3.4   | 7    | 3.4   | 7    | 3.7   | 11   |      |     |      |     |      |      |       |     |
| 46                          | 3.0 | 70   | 3.2   | 22   | 3.1   | 21   | 2.6   | 12   | 3.0  | 2   | 2.0  | 5   | 3.3  | 7    | 4     | 1   |
| 48                          | 2.4 | 74   | 2.2   | 22   | 2.8   | 21   | 2.2   | 12   | 3.5  | 4   | 2.0  | 5   | 1.9  | 9    | 4     | 1   |
| 50                          | 2.6 | 25   | 2.1   | 11   |       |      | 3.2   | 13   |      |     |      |     |      |      | 0     | 1   |
| 51                          | 2.7 | 15   | 2.7   | 3    | 2.7   | 3    | 2.8   | 8    |      |     |      |     |      |      | 3     | 1   |
| 53                          | 1.5 | 6    |       |      |       |      |       |      | 1.0  | 3   | 2.0  | 3   |      |      |       |     |
| 55                          | 2.8 | 32   | 2.7   | 10   |       |      | 2.6   | 12   | 2.8  | 4   | 3.6  | 5   |      |      | 3     | 1   |
| 56                          | 2.2 | 18   |       |      |       |      | 2.3   | 9    | 3.3  | 4   | 1.0  | 5   |      |      |       |     |
| 57                          | 2.0 | 18   |       |      |       |      | 2.2   | 13   |      |     | 1.4  | 5   |      |      |       |     |
| 58                          | 1.7 | 34   | 2.4   | 9    | 1.0   | 8    |       |      | 1.0  | 4   | 1.5  | 4   | 1.9  | 9    |       |     |
| 59                          | 3.2 | 46   |       |      | 3.5   | 21   | 2.3   | 12   | 3.3  | 3   | 4.0  | 5   | 3.5  | 4    | 4     | 1   |
| 64                          | 3.6 | 23   | 3.0   | 3    |       |      | 3.4   | 7    | 3.5  | 2   | 4.0  | 3   | 3.9  | 8    |       |     |
| 68                          | 2.2 | 71   | 2.2   | 25   | 1.9   | 24   | 2.5   | 13   | 2.3  | 4   | 2.8  | 4   |      |      | 2     | 1   |
| 69                          | 2.9 | 48   | 2.9   | 18   | 2.9   | 18   | 2.6   | 10   |      |     | 4.0  | 1   |      |      | 4     | 1   |
| 70                          | 3.4 | 55   | 3.3   | 19   | 3.3   | 16   | 3.5   | 13   | 4.0  | 1   | 3.4  | 5   |      |      | 3     | 1   |
| 73                          | 2.6 | 22   | 2.7   | 11   | 2.5   | 11   |       |      |      |     |      |     |      |      |       |     |
| 75                          | 3.5 | 51   | 3.3   | 21   | 3.6   | 19   | 3.7   | 10   |      |     | 2.0  | 1   |      |      |       |     |
| 76                          | 2.8 | 26   | 2.7   | 10   | 2.8   | 9    | 2.6   | 5    |      |     | 4.0  | 1   |      |      | 3     | 1   |
| 80                          | 2.3 | 30   | 2.8   | 8    | 2.6   | 7    | 1.8   | 12   |      |     | 2.0  | 3   |      |      |       |     |
| 81                          | 2.7 | 76   | 2.2   | 21   | 2.3   | 22   | 3.4   | 14   | 3.3  | 3   | 2.6  | 5   | 3.4  | 10   | 3     | 1   |
| 83                          | 3.4 | 51   | 3.6   | 15   | 3.6   | 16   | 3.0   | 9    | 3.0  | 1   | 2.8  | 4   | 3.2  | 6    |       |     |
| 85                          | 3.1 | 52   | 3.2   | 17   | 2.8   | 13   | 3.1   | 12   | 3.4  | 5   | 3.2  | 5   |      |      |       |     |
| 86                          | 3.3 | 55   | 3.4   | 21   | 3.2   | 21   | 3.3   | 9    |      |     | 3.0  | 3   |      |      | 3     | 1   |
| 87                          | 2.0 | 58   | 2.6   | 18   | 1.3   | 18   | 1.8   | 12   | 2.8  | 4   | 2.4  | 5   |      |      | 0     | 1   |
| 88                          | 1.2 | 6    |       |      |       |      |       |      | 1.3  | 3   | 1.0  | 3   |      |      |       |     |
| 89                          | 3.0 | 76   | 2.8   | 22   | 2.9   | 21   | 3.0   | 13   | 3.0  | 4   | 3.8  | 5   | 3.4  | 10   | 3     | 1   |
| 90                          | 1.8 | 6    |       |      |       |      | 1.0   | 4    | 4.0  | 1   | 3.0  | 1   |      |      |       |     |
| 91                          | 3.4 | 10   | 3.5   | 2    | 3.5   | 2    |       |      | 3.5  | 2   | 3.3  | 4   |      |      |       |     |
| 92                          | 3.6 | 14   |       |      |       |      | 3.8   | 6    | 3.7  | 3   | 3.7  | 3   | 3.0  | 2    |       |     |
| 96                          | 3.0 | 42   | 2.5   | 13   | 2.9   | 13   | 3.3   | 7    | 3.3  | 3   | 3.8  | 5   |      |      | 4     | 1   |
| 97                          | 2.9 | 72   | 2.7   | 25   | 3.1   | 24   | 2.7   | 14   | 2.8  | 4   | 3.2  | 5   |      |      |       |     |
| 102                         | 1.8 | 63   | 1.8   | 22   | 1.8   | 23   | 1.5   | 10   | 2.7  | 3   | 2.2  | 5   |      |      |       |     |
| 104                         | 3.7 | 12   | 4.0   | 1    | 3.0   | 1    |       |      | 3.4  | 5   | 4.0  | 5   |      |      |       |     |
| 105                         | 3.1 | 81   | 3.0   | 25   | 3.4   | 25   | 2.9   | 14   | 3.3  | 3   | 3.0  | 5   | 2.9  | 8    | 4     | 1   |
| 107                         | 3.1 | 44   | 2.6   | 11   | 3.1   | 11   | 3.5   | 11   |      |     | 3.0  | 4   | 3.6  | 7    |       |     |
| 108                         | 2.6 | 5    |       |      |       |      |       |      |      |     | 3.3  | 4   |      |      | 0     | 1   |
| 109                         | 2.5 | 43   | 2.1   | 11   | 2.5   | 11   | 2.8   | 11   |      |     |      |     | 2.6  | 10   |       |     |
| 110                         | 2.9 | 11   | 2.0   | 4    |       |      |       |      | 4.0  | 1   |      |     | 3.3  | 6    |       |     |
| 113                         | 3.1 | 71   | 3.2   | 21   | 3.2   | 21   | 2.9   | 14   | 4.0  | 1   | 2.6  | 5   | 3.0  | 8    | 3     | 1   |
| 114                         | 2.4 | 31   | 2.1   | 12   | 1.7   | 7    | 3.6   | 8    | 4.0  | 1   | 1.3  | 3   |      |      |       |     |

Table 4. Overall laboratory performance ratings for standard reference water samples distributed in September 1996—Continued

[Lab, laboratory number; OWR, overall weighted rating for all sample types; OLR, overall laboratory rating for reported values of a sample type; V/94, number of reported values of 94 total possible values from all sample types; V/28, V/28, V/16, V/5, V/5, V/11, V/1 are number of reported values possible for T-143, T-145, M-140, N-51, N-52, P-27 and Hg-23 respectively]

| Standard reference sample = |     |      | T-143 |      | T-145 |      | M-140 |      | N-51 |     | N-52 |     | P-27 |      | Hg-23 |     |
|-----------------------------|-----|------|-------|------|-------|------|-------|------|------|-----|------|-----|------|------|-------|-----|
| Lab                         | OWR | V/94 | OLR   | V/28 | OLR   | V/28 | OLR   | V/16 | OLR  | V/5 | OLR  | V/5 | OLR  | V/11 | OLR   | V/1 |
| 118                         | 1.9 | 35   | 0.6   | 10   | 2.7   | 10   | 2.7   | 6    | 2.0  | 4   | 2.2  | 5   |      |      |       |     |
| 119                         | 3.0 | 85   | 3.0   | 26   | 2.8   | 26   | 3.2   | 14   | 3.0  | 4   | 2.6  | 5   | 3.1  | 9    | 3     | 1   |
| 121                         | 3.3 | 36   | 3.2   | 16   | 3.1   | 14   | 4.0   | 6    |      |     |      |     |      |      |       |     |
| 127                         | 3.1 | 46   | 3.0   | 24   |       |      | 3.4   | 14   | 3.5  | 2   | 2.4  | 5   |      |      | 4     | 1   |
| 128                         | 3.0 | 68   | 2.8   | 25   | 2.8   | 25   | 3.3   | 12   | 3.0  | 2   | 3.5  | 4   |      |      |       |     |
| 129                         | 2.3 | 41   | 2.0   | 9    | 1.7   | 9    | 2.6   | 14   | 3.8  | 4   | 1.8  | 5   |      |      |       |     |
| 132                         | 2.5 | 56   | 2.8   | 16   | 2.1   | 16   | 3.1   | 9    | 2.5  | 4   | 2.3  | 4   | 2.1  | 7    |       |     |
| 133                         | 2.8 | 45   | 3.1   | 14   | 2.5   | 14   | 2.8   | 6    | 3.0  | 5   | 2.4  | 5   |      |      | 4     | 1   |
| 134                         | 3.7 | 89   | 3.8   | 27   | 3.7   | 27   | 3.3   | 15   | 3.6  | 5   | 3.6  | 5   | 3.9  | 9    | 3     | 1   |
| 138                         | 3.4 | 86   | 3.3   | 26   | 3.3   | 26   | 3.8   | 15   | 3.0  | 4   | 3.2  | 5   | 3.9  | 9    | 4     | 1   |
| 140                         | 2.4 | 54   | 2.9   | 13   | 1.9   | 13   | 2.5   | 11   | 3.7  | 3   | 1.8  | 5   | 2.2  | 9    |       |     |
| 141                         | 2.9 | 72   | 3.0   | 22   | 2.4   | 19   | 3.3   | 12   | 1.0  | 3   | 3.4  | 5   | 3.5  | 10   | 2     | 1   |
| 142                         | 2.9 | 83   | 3.1   | 28   | 2.9   | 28   | 2.8   | 16   | 2.6  | 5   | 2.8  | 5   |      |      | 2     | 1   |
| 143                         | 3.6 | 18   |       |      |       |      | 3.6   | 5    | 3.6  | 5   | 3.4  | 5   | 3.7  | 3    |       |     |
| 144                         | 2.7 | 9    | 2.3   | 4    | 2.8   | 4    |       |      |      |     |      |     |      |      | 4     | 1   |
| 145                         | 1.8 | 78   | 1.0   | 23   | 1.2   | 23   | 2.9   | 15   | 3.5  | 2   | 3.2  | 5   | 2.8  | 9    | 2     | 1   |
| 146                         | 2.6 | 55   | 2.9   | 18   | 2.5   | 16   | 2.8   | 11   |      |     | 0.0  | 4   | 2.8  | 5    | 4     | 1   |
| 149                         | 3.0 | 22   |       |      | 3.0   | 11   | 3.2   | 6    | 2.5  | 4   |      |     |      |      | 4     | 1   |
| 151                         | 3.3 | 54   | 3.3   | 19   | 3.5   | 19   | 3.0   | 13   | 3.3  | 3   |      |     |      |      |       |     |
| 155                         | 2.9 | 23   | 4.0   | 1    | 1.0   | 1    | 3.3   | 8    | 3.2  | 5   | 2.6  | 5   | 2.0  | 3    |       |     |
| 158                         | 2.4 | 56   | 2.5   | 16   | 1.9   | 17   | 3.5   | 8    | 3.0  | 3   | 3.8  | 4   | 1.3  | 8    |       |     |
| 180                         | 3.4 | 64   | 3.4   | 20   | 3.6   | 18   | 2.8   | 12   | 3.5  | 2   | 3.4  | 5   | 3.9  | 7    |       |     |
| 183                         | 1.5 | 13   | 0.0   | 1    | 0.0   | 1    | 1.7   | 3    | 2.0  | 2   | 2.0  | 3   | 1.7  | 3    |       |     |
| 190                         | 2.4 | 70   | 2.4   | 18   | 2.6   | 18   | 2.4   | 14   | 1.8  | 5   | 1.6  | 5   | 3.1  | 10   |       |     |
| 191                         | 3.2 | 70   | 3.3   | 25   | 3.4   | 25   | 3.0   | 11   | 4.0  | 1   | 3.5  | 2   | 2.2  | 6    |       |     |
| 193                         | 2.3 | 35   | 2.3   | 15   | 1.9   | 12   | 3.0   | 3    | 3.0  | 1   | 2.5  | 2   | 3.0  | 1    | 2     | 1   |
| 196                         | 3.5 | 48   | 3.7   | 21   | 3.3   | 21   | 2.7   | 3    |      |     |      |     | 4.0  | 3    |       |     |
| 197                         | 3.5 | 6    |       |      |       |      |       |      | 3.0  | 2   | 4.0  | 2   | 3.5  | 2    |       |     |
| 203                         | 2.4 | 36   | 2.7   | 9    | 2.3   | 9    | 2.2   | 6    | 3.5  | 4   | 2.4  | 5   | 1.3  | 3    |       |     |
| 204                         | 2.5 | 48   | 2.3   | 14   | 2.2   | 13   | 3.0   | 8    | 3.0  | 3   | 2.8  | 4   | 2.7  | 6    |       |     |
| 212                         | 2.4 | 80   | 2.1   | 27   | 2.3   | 28   | 2.7   | 16   | 3.3  | 3   | 2.8  | 5   |      |      | 3     | 1   |
| 213                         | 2.3 | 34   | 1.8   | 12   | 2.9   | 12   | 3.0   | 4    | 4.0  | 1   | 1.5  | 4   |      |      | 0     | 1   |
| 215                         | 2.4 | 79   | 2.4   | 24   | 2.0   | 24   | 2.8   | 14   | 2.0  | 2   | 2.2  | 5   | 2.8  | 9    | 0     | 1   |
| 217                         | 2.6 | 69   | 3.0   | 28   | 2.7   | 27   | 1.6   | 14   |      |     |      |     |      |      |       |     |
| 218                         | 2.2 | 18   | 2.8   | 5    | 2.6   | 5    | 1.6   | 8    |      |     |      |     |      |      |       |     |
| 219                         | 2.7 | 50   | 2.7   | 21   | 2.8   | 19   | 2.7   | 9    |      |     |      |     |      |      | 3     | 1   |
| 220                         | 3.0 | 40   | 3.1   | 10   | 3.3   | 10   | 3.3   | 7    | 2.7  | 3   | 1.3  | 3   | 2.9  | 7    |       |     |
| 221                         | 3.0 | 62   | 3.2   | 18   | 3.3   | 18   | 3.1   | 8    | 2.8  | 5   | 2.4  | 5   | 2.4  | 7    | 3     | 1   |
| 224                         | 1.9 | 71   | 1.6   | 19   | 1.8   | 19   | 1.6   | 13   | 2.2  | 5   | 2.0  | 5   | 3.2  | 10   |       |     |
| 234                         | 3.2 | 78   | 3.1   | 27   | 3.1   | 27   | 3.5   | 16   | 3.3  | 3   | 3.3  | 4   |      |      | 4     | 1   |
| 235                         | 2.0 | 60   | 2.4   | 23   | 1.8   | 22   | 1.1   | 9    |      |     |      |     | 2.0  | 5    | 2     | 1   |
| 236                         | 2.2 | 65   | 1.8   | 25   | 2.2   | 25   | 2.9   | 15   |      |     |      |     |      |      |       |     |
| 240                         | 2.0 | 64   | 1.7   | 18   | 1.2   | 18   | 3.0   | 12   | 0.7  | 3   | 2.6  | 5   | 3.1  | 8    |       |     |
| 241                         | 2.1 | 80   | 1.7   | 23   | 1.6   | 23   | 2.3   | 14   | 3.6  | 5   | 3.4  | 5   | 2.2  | 9    | 3     | 1   |
| 243                         | 2.7 | 10   |       |      |       |      | 2.7   | 3    | 3.0  | 2   | 3.0  | 3   | 2.0  | 2    |       |     |
| 244                         | 2.9 | 7    | 0.0   | 1    | 0.0   | 1    | 4.0   | 3    |      |     |      |     | 4.0  | 2    |       |     |
| 245                         | 2.4 | 11   |       |      | 2.3   | 10   |       |      |      |     |      |     |      |      | 3     | 1   |
| 246                         | 0.0 | 5    | 0.0   | 5    |       |      |       |      |      |     |      |     |      |      |       |     |
| 247                         | 2.7 | 15   |       |      |       |      | 2.3   | 6    | 4.0  | 1   | 3.0  | 2   | 2.8  | 6    |       |     |
| 248                         | 2.0 | 4    |       |      |       |      |       |      |      |     | 2.0  | 4   |      |      |       |     |
| 249                         | 1.6 | 38   | 1.4   | 12   | 1.8   | 12   | 1.8   | 9    |      |     | 1.4  | 5   |      |      |       |     |
| 253                         | 1.4 | 19   | 0.5   | 4    | 0.8   | 4    | 2.0   | 5    | 4.0  | 1   | 1.4  | 5   |      |      |       |     |
| 255                         | 3.4 | 71   | 3.5   | 23   | 3.5   | 23   | 3.1   | 14   |      |     | 3.5  | 4   | 3.7  | 6    | 4     | 1   |
| 256                         | 1.6 | 29   | 1.8   | 13   |       |      | 1.6   | 9    |      |     |      |     | 1.3  | 7    |       |     |
| 257                         | 1.4 | 62   | 1.3   | 19   | 0.7   | 19   | 2.0   | 13   |      |     |      |     | 2.2  | 10   | 0     | 1   |
| 258                         | 1.0 | 20   |       |      |       |      | 1.4   | 11   |      |     |      |     | 0.4  | 9    |       |     |
| 259                         | 2.1 | 42   | 1.5   | 13   | 1.5   | 13   | 3.1   | 15   |      |     |      |     |      |      | 3     | 1   |
| 261                         | 1.1 | 24   | 2.0   | 4    | 0.8   | 4    | 1.0   | 9    |      |     |      |     | 0.9  | 7    |       |     |
| 262                         | 2.2 | 20   |       |      |       |      | 1.9   | 11   |      |     |      |     | 2.4  | 9    |       |     |
| 265                         | 3.2 | 77   | 3.3   | 28   | 3.5   | 28   | 3.3   | 13   |      |     |      |     | 2.4  | 7    | 1     | 1   |
| 268                         | 2.6 | 24   | 3.3   | 4    | 2.7   | 3    | 2.0   | 9    |      |     |      |     | 3.0  | 8    |       |     |
| 270                         | 0.3 | 12   | 0.0   | 3    | 0.7   | 3    | 0.0   | 3    |      |     |      |     | 0.3  | 3    |       |     |
| 271                         | 1.3 | 24   | 2.5   | 4    | 1.0   | 4    | 1.1   | 8    |      |     |      |     | 1.1  | 8    |       |     |
| 272                         | 0.6 | 26   | 0.0   | 4    | 0.8   | 4    | 0.4   | 9    |      |     |      |     | 1.0  | 9    |       |     |
| 273                         | 1.1 | 57   | 1.1   | 18   | 0.7   | 18   | 1.1   | 12   |      |     |      |     | 1.7  | 9    |       |     |
| 274                         | 0.3 | 34   | 0.5   | 11   | 0.1   | 11   | 0.4   | 12   |      |     |      |     |      |      |       |     |
| 276                         | 1.3 | 12   |       |      |       |      | 0.7   | 6    |      |     |      |     | 1.8  | 6    |       |     |

Table 5. Laboratory performance ratings for standard reference water sample T-143 (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 = 19.8            |     |      |       | µg/L           |        |        | 15.2         |        |       | 35.0      |       |        | 81.9        |        |      | 8.50           |    |        | 53.7         |  |  |
| F-pseudosigma = 1.4   |     |      |       | 8.3            |        |        | 1.2          |        |       | 5.2       |       |        | 4.5         |        |      | 0.66           |    |        | 2.2          |  |  |
| Lab                   | OLR | V/28 | RV    | Rating         | RV     | Rating | RV           | Rating | RV    | Rating    | RV    | Rating | RV          | Rating | RV   | Rating         | RV | Rating |              |  |  |
| 1                     | 3.6 | 28   | 19.6  | 4              | 19.1   | 4      | 16.2         | 3      | 34.9  | 4         | 82.2  | 4      | 8.13        | 3      | 52.5 | 4              |    |        |              |  |  |
| 3                     | 1.7 | 26   | 15.0  | 0              | 206.0  | 0      | 14.3         | 3      | 30.0  | 3         | 84.4  | 3      | 8.00        | 3      | 54.4 | 4              |    |        |              |  |  |
| 4                     | 2.8 | 10   |       |                | < 2000 | NR     |              |        |       |           | 87.0  | 2      | 9.00        | 3      | 53.4 | 4              |    |        |              |  |  |
| 7                     | 2.6 | 23   | 21.6  | 2              | 37.6   | 1      | < 120        | NR     |       |           | 83.6  | 4      | 8.10        | 3      | 55.8 | 3              |    |        |              |  |  |
| 10                    | 2.8 | 6    |       |                |        |        | 16.0         | 3      |       |           |       |        |             |        |      |                |    |        |              |  |  |
| 11                    | 3.0 | 25   | 21.0  | 3              |        |        | 15.0         | 4      | 37.0  | 4         | 81.0  | 4      | 8.40        | 4      | 56.3 | 2              |    |        |              |  |  |
| 13                    | 2.6 | 23   | 20.1  | 4              | 22.2   | 4      | 15.5         | 4      |       |           | 88.1  | 2      | 8.74        | 4      | 59.0 | 0              |    |        |              |  |  |
| 15                    | 2.2 | 21   | 17.6  | 1              | < 50   | NR     | < 100        | NR     | < 50  | NR        | 77.9  | 3      | 8.60        | 4      | 50.6 | 2              |    |        |              |  |  |
| 16                    | 3.2 | 27   | 19.9  | 4              | 18.5   | 4      | 15.4         | 4      | 57.1  | 0         | 82.2  | 4      | 7.70        | 2      | 54.0 | 4              |    |        |              |  |  |
| 18                    | 3.5 | 22   | 20.9  | 3              | < 100  | NR     | 14.6         | 4      | < 50  | NR        | 79.0  | 3      | 8.50        | 4      | 53.5 | 4              |    |        |              |  |  |
| 19                    | 3.2 | 13   |       |                |        |        |              |        |       |           | 82.2  | 4      |             |        | 53.6 | 4              |    |        |              |  |  |
| 21                    | 0.0 | 1    |       |                |        |        |              |        |       |           |       |        |             |        |      |                |    |        |              |  |  |
| 23                    | 2.9 | 15   | 22.2  | 1              | < 50   | NR     | 20.5         | 0      |       |           |       |        |             |        | 52.5 | 3              |    |        |              |  |  |
| 24                    | 2.6 | 20   |       |                |        |        |              |        | 30.7  | 3         | 78.8  | 3      |             |        | 53.4 | 4              |    |        |              |  |  |
| 25                    | 2.1 | 15   |       |                |        |        |              |        |       |           | 84.4  | 3      | 9.90        | 0      | 54.8 | 3              |    |        |              |  |  |
| 26                    | 3.3 | 24   | 15.6  | 0              | 18.2   | 4      | 14.9         | 4      | 26.1  | 1         | 80.9  | 4      | 8.66        | 4      | 53.8 | 4              |    |        |              |  |  |
| 28                    | 1.5 | 16   |       |                | 32.3   | 2      |              |        | 42.2  | 2         | 85.1  | 3      |             |        | 55.4 | 3              |    |        |              |  |  |
| 30                    | 3.2 | 21   | 19.0  | 3              |        |        | 14.0         | 3      |       |           | 80.0  | 4      | 7.30        | 1      | 54.0 | 4              |    |        |              |  |  |
| 32                    | 3.6 | 26   | 19.9  | 4              | 22.6   | 4      | 14.9         | 4      |       |           | 77.9  | 3      | 9.40        | 2      | 55.0 | 3              |    |        |              |  |  |
| 33                    | 2.7 | 10   |       |                | 100.0  | 0      |              |        |       |           | 102.0 | 0      |             |        | 54.2 | 4              |    |        |              |  |  |
| 34                    | 3.3 | 3    |       |                |        |        | 15.6         | 4      |       |           |       |        |             |        |      |                |    |        |              |  |  |
| 35                    | 4.0 | 1    |       |                |        |        |              |        |       |           |       |        |             |        |      |                |    |        |              |  |  |
| 36                    | 1.3 | 18   | 13.0  | 0              | < 200  | NR     | 11.0         | 0      |       |           | 90.0  | 1      | 10.00       | 0      | 52.0 | 3              |    |        |              |  |  |
| 39                    | 2.5 | 11   | 20.2  | 4              |        |        | 18.2         | 0      |       |           | 79.1  | 3      | 9.50        | 1      |      |                |    |        |              |  |  |
| 40                    | 2.2 | 19   | 19.3  | 4              |        |        |              |        |       |           | 78.1  | 3      | 7.90        | 3      |      |                |    |        |              |  |  |
| 42                    | 3.0 | 25   | 19.0  | 3              | 23.0   | 4      | 15.0         | 4      | 36.0  | 4         |       |        |             |        | 56.7 | 2              |    |        |              |  |  |
| 43                    | 3.4 | 7    |       |                |        |        |              |        |       |           |       |        |             |        | 54.0 | 4              |    |        |              |  |  |
| 46                    | 3.2 | 22   | 20.0  | 4              |        |        | 13.5         | 2      | 22.7  | 0         | 85.0  | 3      | 8.76        | 4      | 56.0 | 2              |    |        |              |  |  |
| 48                    | 2.2 | 22   | 20.0  | 4              | 18.5   | 4      | 14.2         | 3      | < 100 | NR        | 97.8  | 0      | 10.00       | 0      | 55.9 | 2              |    |        |              |  |  |
| 50                    | 2.1 | 11   |       |                |        |        | 14.0         | 3      |       |           | 90.0  | 1      |             |        |      |                |    |        |              |  |  |
| 51                    | 2.7 | 3    |       |                |        |        |              |        |       |           |       |        |             |        |      |                |    |        |              |  |  |
| 55                    | 2.7 | 10   |       |                |        |        |              |        |       |           | 78.2  | 3      |             |        | 54.9 | 3              |    |        |              |  |  |
| 58                    | 2.4 | 9    | 21.0  | 3              | 17.0   | 3      | 19.0         | 0      |       |           |       |        |             |        |      |                |    |        |              |  |  |
| 64                    | 3.0 | 3    |       |                |        |        |              |        |       |           |       |        |             |        |      |                |    |        |              |  |  |
| 68                    | 2.2 | 25   | 40.0  | 0              | 54.5   | 0      | 9.6          | 0      | 140.0 | 0         | 83.0  | 4      | 8.90        | 3      | 56.5 | 2              |    |        |              |  |  |
| 69                    | 2.9 | 18   | 19.8  | 4              | 16.5   | 3      | 16.2         | 3      |       |           |       |        | 7.32        | 1      | 52.4 | 3              |    |        |              |  |  |
| 70                    | 3.3 | 19   | 18.7  | 3              | < 100  | NR     | 15.3         | 4      | < 50  | NR        | 82.3  | 4      | 8.67        | 4      | 55.4 | 3              |    |        |              |  |  |
| 73                    | 2.7 | 11   | 17.0  | 1              |        |        | 22.0         | 0      |       |           |       |        |             |        |      |                |    |        |              |  |  |
| 75                    | 3.3 | 21   | 20.1  | 4              | < 30   | NR     | 14.6         | 4      |       |           | 81.2  | 4      | 8.50        | 4      | 53.3 | 4              |    |        |              |  |  |
| 76                    | 2.7 | 10   | 19.4  | 4              | 20.2   | 4      | 16.5         | 2      |       |           |       |        | 9.68        | 1      |      |                |    |        |              |  |  |
| 80                    | 2.8 | 8    |       |                |        |        | 16.3         | 3      |       |           |       |        |             |        |      |                |    |        |              |  |  |
| 81                    | 2.2 | 21   |       |                | < 6    | NR     | 16.0         | 3      |       |           | 78.0  | 3      | 7.00        | 0      | 53.0 | 4              |    |        |              |  |  |
| 83                    | 3.6 | 15   |       |                | < 25   | NR     |              |        |       |           | 77.8  | 3      | 8.20        | 4      | 53.1 | 4              |    |        |              |  |  |
| 85                    | 3.2 | 17   | 20.0  | 4              | < 100  | NR     |              |        | 35.6  | 4         | 83.2  | 4      | 9.17        | 2      | 55.4 | 3              |    |        |              |  |  |
| 86                    | 3.4 | 21   |       |                |        |        | 15.3         | 4      | 36.9  | 4         | 81.5  | 4      | 8.25        | 4      | 55.5 | 3              |    |        |              |  |  |
| 87                    | 2.6 | 18   | 26.0  | 0              |        |        | 14.9         | 4      |       |           | 90.7  | 1      |             |        | 51.3 | 2              |    |        |              |  |  |
| 89                    | 2.8 | 22   | 19.1  | 4              | 23.1   | 4      | 16.4         | 2      |       |           | 98.1  | 0      | 7.40        | 1      | 52.6 | 4              |    |        |              |  |  |
| 91                    | 3.5 | 2    |       |                |        |        |              |        |       |           |       |        |             |        |      |                |    |        |              |  |  |
| 96                    | 2.5 | 13   | 20.4  | 4              |        |        | 14.6         | 4      |       |           | < 100 | NR     | 10.00       | 0      |      |                |    |        |              |  |  |
| 97                    | 2.7 | 25   | 19.0  | 3              | 25.7   | 4      | 17.0         | 1      |       |           | 69.6  | 0      | 8.99        | 3      | 51.8 | 3              |    |        |              |  |  |
| 102                   | 1.8 | 22   | 143.0 | 0              | 20.0   | 4      | 15.8         | 3      |       |           | 94.0  | 0      | 8.00        | 3      | 58.0 | 1              |    |        |              |  |  |
| 104                   | 4.0 | 1    |       |                |        |        |              |        |       |           |       |        |             |        |      |                |    |        |              |  |  |
| 105                   | 3.0 | 25   | 17.9  | 2              | 21.1   | 4      | 15.3         | 4      |       |           | 76.2  | 2      | 7.30        | 1      | 52.8 | 4              |    |        |              |  |  |
| 107                   | 2.6 | 11   | 20.0  | 4              | 23.0   | 4      |              |        |       |           | 77.0  | 2      |             |        | 52.0 | 3              |    |        |              |  |  |
| 109                   | 2.1 | 11   |       |                |        |        | 13.1         | 1      |       |           |       |        |             |        | 52.6 | 4              |    |        |              |  |  |
| 110                   | 2.0 | 4    |       |                |        |        |              |        |       |           |       |        |             |        | 55.0 | 3              |    |        |              |  |  |
| 113                   | 3.2 | 21   | 18.1  | 2              | 20.2   | 4      | 17.5         | 1      |       |           | 80.2  | 4      | 8.78        | 4      | 57.9 | 1              |    |        |              |  |  |
| 114                   | 2.1 | 12   | 18.0  | 2              |        |        |              |        |       |           |       |        |             |        | 44.0 | 0              |    |        |              |  |  |
| 118                   | 0.6 | 10   | 6.7   | 0              | < 2000 | NR     | 17.9         | 0      |       |           |       |        |             |        |      |                |    |        |              |  |  |
| 119                   | 3.0 | 26   | 16.5  | 0              | 19.5   | 4      | 15.0         | 4      | 32.0  | 3         | 84.0  | 4      | 7.72        | 2      | 53.7 | 4              |    |        |              |  |  |
| 121                   | 3.2 | 16   |       |                |        |        |              |        |       |           | 81.0  | 4      | 8.00        | 3      | 52.2 | 3              |    |        |              |  |  |
| 127                   | 3.0 | 24   | 18.8  | 3              | < 30   | NR     | 14.4         | 3      | 35.7  | 4         | 75.8  | 2      | 6.53        | 0      |      |                |    |        |              |  |  |
| 128                   | 2.8 | 25   | 19.5  | 4              | 18.7   | 4      | 14.8         | 4      | 30.0  | 3         | 70.1  | 0      | 7.54        | 2      | 55.7 | 3              |    |        |              |  |  |
| 129                   | 2.0 | 9    |       |                |        |        |              |        | 95.0  | 0         |       |        |             |        | 58.0 | 1              |    |        |              |  |  |
| 132                   | 2.8 | 16   |       |                | 49.0   | 0      |              |        | 26.5  | 1         |       |        |             |        | 53.4 | 4              |    |        |              |  |  |

Table 5. Laboratory performance ratings for standard reference water sample T-143 (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 = Ag (Silver) |     |      | Al (Aluminium) |        |        | As (Arsenic) |        |        | B (Boron) |        |    | Ba (Barium) |    |        | Be (Beryllium) |        |    | Ca (Calcium) |    |        |
|-----------------------|-----|------|----------------|--------|--------|--------------|--------|--------|-----------|--------|----|-------------|----|--------|----------------|--------|----|--------------|----|--------|
| MPV = 19.8            |     |      | µg/L 22.1      |        |        | µg/L 15.2    |        |        | µg/L 35.0 |        |    | µg/L 81.9   |    |        | µg/L 8.50      |        |    | mg/L 53.7    |    |        |
| F-pseudosigma = 1.4   |     |      | 8.3            |        |        | 1.2          |        |        | 5.2       |        |    | 4.5         |    |        | 0.66           |        |    | 2.2          |    |        |
| Lab                   | OLR | V/28 | RV             | Rating | RV     | Rating       | RV     | Rating | RV        | Rating | RV | Rating      | RV | Rating | RV             | Rating | RV | Rating       | RV | Rating |
| 133                   | 3.1 | 14   | 19.6           | 4      |        |              | 16.5   | 2      |           |        |    | 77.7        | 3  |        | 8.70           | 4      |    | 53.0         | 4  |        |
| 134                   | 3.8 | 27   | 19.0           | 3      | 22.9   | 4            | 14.0   | 3      | 35.8      | 4      |    | 78.9        | 3  |        | 8.51           | 4      |    | 54.5         | 4  |        |
| 138                   | 3.3 | 26   | 20.6           | 3      | 20.0   | 4            | 14.0   | 3      | 28.8      | 2      |    | 80.5        | 4  |        | 8.65           | 4      |    | 54.9         | 3  |        |
| 140                   | 2.9 | 13   |                |        |        |              |        |        |           |        |    |             |    |        |                |        |    | 54.5         | 4  |        |
| 141                   | 3.0 | 22   | 29.0           | 0      | < 100  | NR           | 15.0   | 4      | 24.1      | 0      |    | 84.8        | 3  |        | 8.15           | 3      |    | 56.2         | 2  |        |
| 142                   | 3.1 | 28   | 19.3           | 4      | 27.3   | 3            | 15.2   | 4      | 35.7      | 4      |    | 81.8        | 4  |        | 8.87           | 3      |    | 53.3         | 4  |        |
| 144                   | 2.3 | 4    |                |        |        |              | 14.5   | 3      |           |        |    |             |    |        | < 0.01         | 0      |    |              |    |        |
| 145                   | 1.0 | 23   |                |        | 58.3   | 0            | 27.4   | 0      | 35.4      | 4      |    | 90.9        | 1  |        | 9.50           | 1      |    | 59.1         | 0  |        |
| 146                   | 2.9 | 18   | < 10           | 0      | < 200  | NR           | 15.1   | 4      |           |        |    | 82.2        | 4  |        | 7.23           | 1      |    | 50.0         | 1  |        |
| 151                   | 3.3 | 19   | 17.9           | 2      | 18.1   | 4            | 14.1   | 3      |           |        |    | 84.2        | 3  |        | 8.16           | 3      |    |              |    |        |
| 155                   | 4.0 | 1    |                |        |        |              |        |        |           |        |    |             |    |        |                |        |    |              |    |        |
| 158                   | 2.5 | 16   |                |        |        |              |        |        | 38.0      | 3      |    | 82.0        | 4  |        | 9.30           | 2      |    | 54.7         | 4  |        |
| 180                   | 3.4 | 20   | 19.9           | 4      | < 40.6 | NR           | < 37.1 | NR     | 32.4      | 4      |    | 79.0        | 3  |        | 8.60           | 4      |    | 54.4         | 4  |        |
| 183                   | 0.0 | 1    |                |        |        |              |        |        |           |        |    |             |    |        |                |        |    |              |    |        |
| 190                   | 2.4 | 18   | 22.4           | 1      | 16.7   | 3            | 15.4   | 4      |           |        |    |             |    |        |                |        |    | 53.3         | 4  |        |
| 191                   | 3.3 | 25   |                |        | 22.0   | 4            | 17.0   | 1      | 34.0      | 4      |    | 41.0        | 0  |        | 8.89           | 3      |    | 53.1         | 4  |        |
| 193                   | 2.3 | 15   | 19.0           | 3      |        |              | 13.0   | 1      |           |        |    |             |    |        | 8.00           | 3      |    | 51.8         | 3  |        |
| 196                   | 3.7 | 21   | 19.5           | 4      | 22.0   | 4            | 15.5   | 4      |           |        |    | 82.2        | 4  |        | 8.85           | 3      |    |              |    |        |
| 203                   | 2.7 | 9    |                |        | 18.6   | 4            |        |        |           |        |    |             |    |        |                |        |    | 47.8         | 0  |        |
| 204                   | 2.3 | 14   |                |        | 24.6   | 4            | 15.1   | 4      |           |        |    | 87.6        | 2  |        |                |        |    | 53.2         | 4  |        |
| 212                   | 2.1 | 27   | 14.0           | 0      | 21.0   | 4            | 16.0   | 3      | < 50      | NR     |    | 92.0        | 0  |        | 9.80           | 1      |    | 56.5         | 2  |        |
| 213                   | 1.8 | 12   | 19.2           | 4      |        |              | 13.9   | 2      |           |        |    |             |    |        | 8.87           | 3      |    |              |    |        |
| 215                   | 2.4 | 24   | 28.0           | 0      | 137.0  | 0            | 15.0   | 4      | 106.0     | 0      |    | 82.0        | 4  |        | 8.10           | 3      |    | 55.3         | 3  |        |
| 217                   | 3.0 | 28   | 20.7           | 3      | 53.1   | 0            | 15.7   | 4      | 40.2      | 2      |    | 82.4        | 4  |        | 8.40           | 4      |    | 50.2         | 1  |        |
| 218                   | 2.8 | 5    |                |        |        |              |        |        |           |        |    |             |    |        |                |        |    | 52.0         | 3  |        |
| 219                   | 2.7 | 21   |                |        | 29.0   | 3            |        |        | 35.0      | 4      |    | 80.0        | 4  |        |                |        |    | 50.0         | 1  |        |
| 220                   | 3.1 | 10   |                |        |        |              | 14.6   | 4      |           |        |    |             |    |        |                |        |    | 55.0         | 3  |        |
| 221                   | 3.2 | 18   | 22.1           | 1      | 27.8   | 3            | 14.7   | 4      |           |        |    |             |    |        |                |        |    | 55.1         | 3  |        |
| 224                   | 1.6 | 19   |                |        | 0.0    | 0            | 15.5   | 4      |           |        |    | 64.5        | 0  |        | 12.60          | 0      |    | 51.3         | 2  |        |
| 234                   | 3.1 | 27   | 20.6           | 3      | 17.9   | 3            | 17.2   | 1      | 33.2      | 4      |    | 84.0        | 4  |        | 8.38           | 4      |    | 55.5         | 3  |        |
| 235                   | 2.4 | 23   | 20.0           | 4      | 15.0   | 3            |        |        | 30.0      | 3      |    | 88.0        | 2  |        | 8.00           | 3      |    | 59.0         | 0  |        |
| 236                   | 1.8 | 25   | 14.5           | 0      | 29.7   | 3            | < 35   | NR     | 29.2      | 2      |    | 79.6        | 3  |        | 7.90           | 3      |    | 52.5         | 4  |        |
| 240                   | 1.7 | 18   |                |        | 181.0  | 0            |        |        | 28.0      | 2      |    | 72.0        | 0  |        |                |        |    | 47.6         | 0  |        |
| 241                   | 1.7 | 23   | 18.3           | 2      | 15.2   | 3            | 14.4   | 3      |           |        |    | 92.3        | 0  |        | 6.70           | 0      |    | 44.8         | 0  |        |
| 244                   | 0.0 | 1    |                |        |        |              |        |        |           |        |    |             |    |        |                |        |    |              |    |        |
| 246                   | 0.0 | 5    |                |        |        |              |        |        |           |        |    |             |    |        |                |        |    | 32.7         | 0  |        |
| 249                   | 1.4 | 12   | 16.0           | 0      | 45.5   | 0            | 19.1   | 0      |           |        |    |             |    |        |                |        |    |              |    |        |
| 253                   | 0.5 | 4    |                |        |        |              |        |        |           |        |    |             |    |        |                |        |    |              |    |        |
| 255                   | 3.5 | 23   | 19.9           | 4      | 15.0   | 3            | 14.6   | 4      | 36.0      | 4      |    | 80.5        | 4  |        | 8.27           | 4      |    | 52.8         | 4  |        |
| 256                   | 1.8 | 13   | 25.4           | 0      |        |              |        |        |           |        |    |             |    |        |                |        |    |              |    |        |
| 257                   | 1.3 | 19   | 17.0           | 1      | 110.0  | 0            |        |        |           |        |    |             |    |        |                |        |    | 51.0         | 2  |        |
| 259                   | 1.5 | 13   | 21.0           | 3      |        |              |        |        |           |        |    | 74.0        | 1  |        |                |        |    |              |    |        |
| 261                   | 2.0 | 4    |                |        |        |              |        |        |           |        |    |             |    |        |                |        |    | 57.1         | 1  |        |
| 265                   | 3.3 | 28   | 20.2           | 4      | 26.9   | 3            | 16.7   | 2      | 34.7      | 4      |    | 77.0        | 2  |        | 8.70           | 4      |    | 54.1         | 4  |        |
| 268                   | 3.3 | 4    |                |        |        |              |        |        |           |        |    |             |    |        |                |        |    | 53.3         | 4  |        |
| 270                   | 0.0 | 3    |                |        |        |              |        |        |           |        |    |             |    |        |                |        |    | 48.3         | 0  |        |
| 271                   | 2.5 | 4    |                |        |        |              |        |        |           |        |    |             |    |        |                |        |    | 53.9         | 4  |        |
| 272                   | 0.0 | 4    |                |        |        |              |        |        |           |        |    |             |    |        |                |        |    | 23.7         | 0  |        |
| 273                   | 1.1 | 18   | 33.0           | 0      | 6.0    | 1            |        |        | 58.0      | 0      |    |             |    |        |                |        |    | 56.9         | 2  |        |
| 274                   | 0.5 | 11   |                |        |        |              |        |        |           |        |    |             |    |        |                |        |    | 0.0          | 0  |        |

Table 5. Laboratory performance ratings for standard reference water sample T-143 (trace constituents)—Continued

(MPV, most probable value; µg/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; CLR, 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 =                  | 19.1 µg/L | 17.0 µg/L   | 37.0 µg/L | 22.3 µg/L     | 222 µg/L | 2.50 mg/L   | 18.0 µg/L |           |     |               |      |              |        |
| F-pseudosigma =        | 1.5       | 1.2         | 2.6       | 1.9           | 14       | 0.21        | 2.1       |           |     |               |      |              |        |
| Lab                    | RV        | Rating      | RV        | Rating        | RV       | Rating      | RV        | Rating    | RV  | Rating        | RV   | Rating       | Rating |
| 1                      | 20.1      | 3           | 17.4      | 4             | 35.5     | 3           | 22.2      | 4         | 211 | 3             | 2.55 | 4            | 16.6 3 |
| 3                      | 19.5      | 4           | 15.0      | 1             | 39.0     | 3           | 24.0      | 3         | 261 | 0             | 5.40 | 0            | 26.0 0 |
| 4                      | < 100     | NR          | < 100     | NR            | < 100    | NR          | 23.0      | 4         | 235 | 3             |      | < 100        | NR     |
| 7                      | 21.0      | 2           | 19.9      | 0             | 38.1     | 4           | 23.4      | 3         | 225 | 4             | 2.84 | 1            | 19.4 3 |
| 10                     |           |             |           |               |          |             | 22.8      | 4         | 246 | 1             |      |              |        |
| 11                     | 19.0      | 4           | 18.0      | 3             | 36.0     | 4           | 24.0      | 3         | 202 | 2             | 2.50 | 4            |        |
| 13                     | 17.4      | 2           | 12.6      | 0             | 38.5     | 3           | 10.4      | 0         | 207 | 2             | 2.38 | 3            |        |
| 15                     | 15.0      | 0           | < 20      | NR            | 35.1     | 3           | 21.3      | 4         | 208 | 2             | 2.28 | 2            |        |
| 16                     | 19.7      | 4           | 16.9      | 4             | 34.2     | 2           | 21.8      | 4         | 200 | 1             | 2.10 | 1            | 14.5 1 |
| 18                     | 18.7      | 4           | 16.1      | 3             | 36.3     | 4           | 22.3      | 4         | 222 | 4             | 2.40 | 4            |        |
| 19                     | 19.8      | 4           |           |               | 37.8     | 4           | 16.0      | 0         | 227 | 4             | 2.50 | 4            |        |
| 21                     |           |             |           |               |          |             |           |           | 152 | 0             |      |              |        |
| 23                     | 18.8      | 4           |           |               | 35.0     | 3           | 23.9      | 3         | 218 | 4             | 2.44 | 4            |        |
| 24                     | 17.7      | 3           | 12.3      | 0             | 31.2     | 0           | 16.2      | 0         | 222 | 4             | 2.34 | 3            | 24.4 0 |
| 25                     | 21.0      | 2           |           |               | 37.0     | 4           | 21.0      | 3         | 202 | 2             | 2.64 | 3            | 18.0 4 |
| 26                     | 20.4      | 3           | 16.4      | 3             | 37.5     | 4           | 23.4      | 3         | 222 | 4             | 2.49 | 4            | 17.7 4 |
| 28                     | 13.6      | 0           |           |               |          |             | 7.8       | 0         |     |               | 2.32 | 3            |        |
| 30                     | 19.5      | 4           | 17.0      | 4             | 37.0     | 4           | 22.5      | 4         | 470 | 0             |      |              | 16.0 3 |
| 32                     | 18.6      | 4           | 17.2      | 4             | 37.3     | 4           | 23.2      | 4         | 365 | 0             | 2.50 | 4            | 17.2 4 |
| 33                     |           |             |           |               |          |             |           |           | 250 | 1             | 2.54 | 4            |        |
| 34                     |           |             |           |               |          |             |           |           |     |               |      |              |        |
| 35                     |           |             |           |               |          |             |           |           | 216 | 4             |      |              |        |
| 36                     | 19.0      | 4           |           |               | 37.0     | 4           | 10.0      | 0         | 250 | 1             | 1.80 | 0            |        |
| 39                     | 18.0      | 3           |           |               | 28.0     | 0           |           |           |     |               |      |              |        |
| 40                     | 18.6      | 4           | 15.2      | 1             | 32.5     | 1           | 21.3      | 4         | 21  | 0             | 2.32 | 3            | 16.7 3 |
| 42                     | 18.0      | 3           | 20.0      | 0             | 38.0     | 4           | 22.0      | 4         | 224 | 4             | 2.50 | 4            | < 6 0  |
| 43                     |           |             |           |               |          |             |           |           | 230 | 3             | 2.30 | 3            |        |
| 46                     | 18.6      | 4           | 17.4      | 4             | 35.8     | 4           | 22.4      | 4         | 222 | 4             | 2.62 | 3            |        |
| 48                     | 18.0      | 3           | < 50      | NR            | 41.8     | 1           | 19.7      | 2         | 160 | 0             | 2.51 | 4            |        |
| 50                     |           |             | 16.0      | 3             | 36.0     | 4           | 24.0      | 3         | 251 | 0             |      |              |        |
| 51                     |           |             |           |               |          |             |           |           |     |               | 2.48 | 4            |        |
| 55                     |           |             |           |               |          |             | 20.8      | 3         | 222 | 4             |      |              |        |
| 58                     | 20.0      | 3           |           |               | 37.0     | 4           | < 50      | NR        | 210 | 3             |      |              |        |
| 64                     |           |             |           |               |          |             |           |           |     |               | 2.57 | 4            | 22.2 1 |
| 68                     | 19.5      | 4           | 18.0      | 3             | 38.5     | 3           | 27.0      | 0         | 225 | 4             | 2.80 | 2            | 18.0 4 |
| 69                     | 20.0      | 3           |           |               | 36.0     | 4           | 21.4      | 4         | 226 | 4             | 2.72 | 2            | 19.2 3 |
| 70                     | 18.2      | 3           | < 50      | NR            | 37.1     | 4           | 22.8      | 4         | 214 | 3             | 2.43 | 4            |        |
| 73                     | 19.0      | 4           |           |               | 33.0     | 1           | 22.0      | 4         | 221 | 4             |      |              |        |
| 75                     | 19.2      | 4           | 18.9      | 1             | 37.1     | 4           | 22.2      | 4         | 214 | 3             |      |              | 19.7 3 |
| 76                     |           |             |           |               | 36.3     | 4           |           |           |     |               |      |              | 18.3 4 |
| 80                     | 13.9      | 0           |           |               |          |             | 22.0      | 4         | 223 | 4             |      |              |        |
| 81                     | 20.0      | 3           |           |               | 41.0     | 1           | 22.0      | 4         | 220 | 4             | 2.37 | 3            |        |
| 83                     | 18.5      | 4           |           |               | 37.2     | 4           | 23.0      | 4         | 219 | 4             | 2.50 | 4            |        |
| 85                     | 19.6      | 4           |           |               | 38.4     | 3           | 25.2      | 1         | 224 | 4             | 2.82 | 2            | 17.5 4 |
| 86                     | 17.7      | 3           | 16.8      | 4             | 29.2     | 0           | 23.1      | 4         | 213 | 3             | 2.58 | 4            |        |
| 87                     | 21.0      | 2           |           |               | 38.2     | 4           | 21.0      | 3         | 212 | 3             | 2.42 | 4            |        |
| 89                     | 20.3      | 3           | 17.8      | 3             | 36.0     | 4           | 21.4      | 4         | 244 | 1             | 2.35 | 3            |        |
| 91                     |           |             |           |               |          |             |           |           | 212 | 3             |      |              |        |
| 96                     | 17.5      | 2           |           |               | 38.9     | 3           | 23.4      | 3         | 248 | 1             |      |              |        |
| 97                     | 19.3      | 4           | 17.2      | 4             | 39.0     | 3           | 21.2      | 3         | 233 | 3             | 2.54 | 4            |        |
| 102                    | 21.0      | 2           | 20.0      | 0             | 41.0     | 1           | 22.0      | 4         | 244 | 1             | 2.50 | 4            |        |
| 104                    |           |             |           |               |          |             |           |           |     |               |      |              |        |
| 105                    | 19.7      | 4           | 15.5      | 2             | 32.9     | 1           | 22.4      | 4         | 213 | 3             | 2.47 | 4            | 15.7 2 |
| 107                    |           |             |           |               |          |             | 24.8      | 2         | 200 | 1             | 2.63 | 3            |        |
| 109                    |           |             |           |               |          |             |           |           | 256 | 0             | 2.51 | 4            | 19.4 3 |
| 110                    |           |             |           |               |          |             |           |           |     |               |      |              |        |
| 113                    | 19.1      | 4           |           |               | 38.1     | 4           | 23.5      | 3         | 223 | 4             | 2.40 | 4            |        |
| 114                    | 19.0      | 4           |           |               |          |             | 21.0      | 3         | 204 | 2             | 3.00 | 0            |        |
| 118                    | 6.4       | 0           |           |               | 44.8     | 0           | 7.9       | 0         |     |               |      |              |        |
| 119                    | 18.4      | 4           | 15.9      | 3             | 35.0     | 3           | 26.0      | 1         | 226 | 4             | 3.20 | 0            |        |
| 121                    | 18.0      | 3           | 16.0      | 3             |          |             | 18.0      | 0         | 210 | 3             | 2.55 | 4            |        |
| 127                    | 17.4      | 2           | 17.3      | 4             | 39.2     | 3           | 22.4      | 4         | 220 | 4             | 2.68 | 3            | 16.5 3 |
| 128                    | 19.5      | 4           | 17.0      | 4             | 32.4     | 1           | 19.2      | 1         | 205 | 2             | 2.11 | 1            |        |
| 129                    |           |             |           |               |          |             | 30.0      | 0         | 185 | 0             | 2.40 | 4            |        |
| 132                    | 18.5      | 4           | 17.0      | 4             | 40.5     | 2           | 42.0      | 0         | 228 | 4             | 2.64 | 3            |        |

Table 5. Laboratory performance ratings for standard reference water sample T-143 (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 =                  | 19.1 | µg/L   | 17.0  | µg/L   | 37.0   | µg/L          | 22.3  | µg/L   | 222  | µg/L   | 2.50                                 | mg/L      | 18.0          | µg/L   |               |  |  |              |  |  |
| F-pseudosigma =        | 1.5  |        | 1.2 <td></td> <th>2.6<td></td><th>1.9<td></td><th>14<td></td><th>0.21<td></td><th>2.1<td></td></th></th></th></th></th> |        | 2.6 <td></td> <th>1.9<td></td><th>14<td></td><th>0.21<td></td><th>2.1<td></td></th></th></th></th> |               | 1.9 <td></td> <th>14<td></td><th>0.21<td></td><th>2.1<td></td></th></th></th> |        | 14 <td></td> <th>0.21<td></td><th>2.1<td></td></th></th> |        | 0.21 <td></td> <th>2.1<td></td></th> |           | 2.1 <td></td> |        |               |  |  |              |  |  |
| Lab                    | RV   | Rating | RV  | Rating | RV   | Rating        | RV  | Rating | RV   | Rating | RV                                   | Rating    | RV            | Rating |               |  |  |              |  |  |
| 133                    | 19.9 | 3      |   |        | 34.3   | 2             | 19.5  | 2      | 223  | 4      |                                      |           |               |        |               |  |  |              |  |  |
| 134                    | 18.8 | 4      | 16.7  | 4      | 36.2   | 4             | 22.4  | 4      | 218  | 4      | 2.48                                 | 4         | 19.6          | 3      |               |  |  |              |  |  |
| 138                    | 19.0 | 4      | 15.1  | 1      | 38.7   | 3             | 20.1  | 2      | 224  | 4      | 2.48                                 | 4         |               |        |               |  |  |              |  |  |
| 140                    | 20.0 | 3      |   |        | 35.0   | 3             | 26.0  | 1      | 237  | 2      | 2.51                                 | 4         |               |        |               |  |  |              |  |  |
| 141                    | 19.8 | 4      | 16.2  | 3      | 36.7   | 4             | 23.3  | 3      | 200  | 1      | 2.55                                 | 4         |               |        |               |  |  |              |  |  |
| 142                    | 20.0 | 3      | 16.3  | 3      | 35.4   | 3             | 20.0  | 2      | 221  | 4      | 2.22                                 | 2         | 19.0          | 4      |               |  |  |              |  |  |
| 144                    |      |        |   |        |  |               | 20.2  | 2      |  |        |                                      |           |               |        |               |  |  |              |  |  |
| 145                    | 22.3 | 0      | 24.2  | 0      | 42.1   | 1             | 33.2  | 0      | 216  | 4      | 2.66                                 | 3         | 21.1          | 2      |               |  |  |              |  |  |
| 146                    | 18.6 | 4      | 16.2  | 3      | 36.4   | 4             | 25.2  | 1      | 220  | 4      | 2.93                                 | 1         |               |        |               |  |  |              |  |  |
| 151                    | 19.6 | 4      |   |        | 34.7   | 3             | 22.1  | 4      | 200  | 1      |                                      |           | 16.9          | 3      |               |  |  |              |  |  |
| 155                    |      |        |   |        |  |               |   |        | 228  | 4      |                                      |           |               |        |               |  |  |              |  |  |
| 158                    | 8.8  | 0      | 17.1  | 4      | 25.6   | 0             | 25.8  | 1      | 222  | 4      |                                      |           |               |        |               |  |  |              |  |  |
| 180                    | 19.6 | 4      | 17.3  | 4      | 36.8   | 4             | 23.3  | 3      | 222  | 4      | 2.32                                 | 3         |               |        |               |  |  |              |  |  |
| 183                    |      |        |   |        |  |               |   |        |  |        |                                      |           |               |        |               |  |  |              |  |  |
| 190                    | 20.7 | 2      |   |        | 39.4   | 3             | 22.2  | 4      | 192  | 0      | 2.50                                 | 4         |               |        |               |  |  |              |  |  |
| 191                    | 18.6 | 4      | 17.6  | 3      | 38.4   | 3             | 22.3  | 4      | 221  | 4      | 2.47                                 | 4         | 21.0          | 2      |               |  |  |              |  |  |
| 193                    | 20.0 | 3      |   |        | 36.0   | 4             | 26.0  | 1      |  |        | 2.32                                 | 3         |               |        |               |  |  |              |  |  |
| 196                    | 19.2 | 4      | 17.3  | 4      | 34.5   | 3             | 23.7  | 3      |  |        |                                      |           | 17.9          | 4      |               |  |  |              |  |  |
| 203                    |      |        |   |        |  |               | 18.7  | 1      | 220  | 4      | 2.88                                 | 1         |               |        |               |  |  |              |  |  |
| 204                    |      |        |   |        | 47.0   | 0             | 11.7  | 0      | 208  | 2      | 2.40                                 | 4         |               |        |               |  |  |              |  |  |
| 212                    | 23.0 | 0      | 17.0  | 4      | 33.0   | 1             | 26.0  | 1      | 260  | 0      | 2.40                                 | 4         | 19.0          | 4      |               |  |  |              |  |  |
| 213                    | 21.4 | 1      | 18.7  | 2      | 44.5   | 0             | 23.2  | 4      | 302  | 0      |                                      |           |               |        |               |  |  |              |  |  |
| 215                    | 19.0 | 4      | 19.0  | 1      | 35.0   | 3             | 30.4  | 0      | 224  | 4      | 3.10                                 | 0         |               |        |               |  |  |              |  |  |
| 217                    | 17.1 | 2      | 16.8  | 4      | 37.6   | 4             | 23.9  | 3      | 230  | 3      | 2.92                                 | 1         | 17.5          | 4      |               |  |  |              |  |  |
| 218                    |      |        |   |        |  |               |   |        |  |        | 2.35                                 | 3         |               |        |               |  |  |              |  |  |
| 219                    | 18.0 | 3      | 16.0  | 3      | 34.0   | 2             | 19.0  | 1      | 208  | 2      | 2.50                                 | 4         | 17.0          | 4      |               |  |  |              |  |  |
| 220                    |      |        |   |        |  |               |   |        | 222  | 4      | 2.60                                 | 4         |               |        |               |  |  |              |  |  |
| 221                    | 19.6 | 4      | 16.0  | 3      | 37.7   | 4             | 21.3  | 4      | 220  | 4      | 2.61                                 | 3         |               |        |               |  |  |              |  |  |
| 224                    | 13.9 | 0      | 15.9  | 3      |  |               | 21.5  | 4      | 201  | 1      | 2.31                                 | 3         |               |        |               |  |  |              |  |  |
| 234                    | 19.7 | 4      | 17.4  | 4      | 41.6   | 1             | 23.6  | 3      | 224  | 4      | 2.45                                 | 4         | 19.8          | 3      |               |  |  |              |  |  |
| 235                    | 20.0 | 3      | 19.0  | 1      | 40.0   | 2             | 20.0  | 2      | 235  | 3      | 3.60                                 | 0         |               |        |               |  |  |              |  |  |
| 236                    | 17.0 | 2      | 13.9  | 0      | 35.1   | 3             | 18.7  | 1      | 215  | 3      | 2.14                                 | 1         | 13.1          | 0      |               |  |  |              |  |  |
| 240                    |      |        | 15.0  | 1      |  |               | 21.0  | 3      | 184  | 0      |                                      |           |               |        |               |  |  |              |  |  |
| 241                    | 20.3 | 3      |   |        | 34.0   | 2             | 19.7  | 2      | 264  | 0      | 2.54                                 | 4         |               |        |               |  |  |              |  |  |
| 244                    |      |        |   |        |  |               |   |        |  |        |                                      |           |               |        |               |  |  |              |  |  |
| 246                    |      |        |   |        |  |               |   |        |  |        | < 0.2                                | 0         |               |        |               |  |  |              |  |  |
| 249                    | 16.0 | 0      |   |        | 42.4   | 1             | 21.7  | 4      | 188  | 0      | 2.68                                 | 3         |               |        |               |  |  |              |  |  |
| 253                    |      |        |   |        | 40.2   | 2             | 30.0  | 0      | 330  | 0      |                                      |           |               |        |               |  |  |              |  |  |
| 255                    | 19.6 | 4      | 17.2  | 4      | 36.0   | 4             | 21.7  | 4      | 217  | 4      | 2.38                                 | 3         |               |        |               |  |  |              |  |  |
| 256                    | 20.4 | 3      |   |        | 40.0   | 2             | 23.6  | 3      | 221  | 4      | 3.52                                 | 0         | < 0.1         | 0      |               |  |  |              |  |  |
| 257                    | 26.0 | 0      | 23.0  | 0      | 52.0   | 0             | 28.0  | 0      | 170  | 0      | 2.90                                 | 1         | 16.0          | 3      |               |  |  |              |  |  |
| 259                    | 14.0 | 0      | 10.0  | 0      | 34.0   | 2             | 25.0  | 2      |  |        | 2.70                                 | 3         | 14.0          | 1      |               |  |  |              |  |  |
| 261                    |      |        |   |        |  |               |   |        |  |        | 2.35                                 | 3         |               |        |               |  |  |              |  |  |
| 265                    | 20.0 | 3      | 17.8  | 3      | 37.0   | 4             | 23.0  | 4      | 230  | 3      | 2.46                                 | 4         | 18.4          | 4      |               |  |  |              |  |  |
| 268                    |      |        |   |        |  |               |   |        |  |        | 2.70                                 | 3         |               |        |               |  |  |              |  |  |
| 270                    |      |        |   |        |  |               |   |        |  |        | 3.05                                 | 0         |               |        |               |  |  |              |  |  |
| 271                    |      |        |   |        |  |               |   |        |  |        | 2.80                                 | 2         |               |        |               |  |  |              |  |  |
| 272                    |      |        |   |        |  |               |   |        |  |        | 3.00                                 | 0         |               |        |               |  |  |              |  |  |
| 273                    | 16.0 | 0      | 8.0   | 0      | 38.0   | 4             | 22.0  | 4      | 230  | 3      | 2.97                                 | 0         | 24.0          | 0      |               |  |  |              |  |  |
| 274                    | 7.4  | 0      |   |        |  |               | 4.2   | 0      | 232  | 3      | 2.78                                 | 2         |               |        |               |  |  |              |  |  |

Table 5. Laboratory performance ratings for standard reference water sample T-143 (trace constituents)—Continued

(MPV, most probable value;  $\mu\text{g/L}$ , micrograms per liter;  $\text{mg/L}$ , 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 =                    | 10.4 mg/L | 18.2 μg/L      | 36.1 μg/L | 34.0 mg/L       | 71.0 μg/L | 83.4 μg/L   | 16.6 μg/L |             |       |           |       |               |      |        |
| F-pseudosigma =          | 0.5       | 1.9            | 4.3       | 1.6             | 5.0       | 7.1         | 1.5       |             |       |           |       |               |      |        |
| Lab                      | RV        | Rating         | RV        | Rating          | RV        | Rating      | RV        | Rating      | RV    | Rating    | RV    | Rating        | RV   | Rating |
| 1                        | 10.1      | 3              | 17.8      | 4               | 34.4      | 4           | 33.6      | 4           | 71.1  | 4         | 83.6  | 4             | 15.9 | 4      |
| 3                        | 10.3      | 4              | 14.7      | 1               | 27.0      | 0           | 55.0      | 0           | 57.0  | 0         | 88.6  | 3             | 19.0 | 1      |
| 4                        | 10.9      | 3              | 19.0      | 4               | < 500     | NR          | 34.9      | 3           | < 200 | NR        | < 400 | NR            |      |        |
| 7                        | 10.8      | 3              | 18.6      | 4               | 29.4      | 1           | 35.6      | 2           | 79.5  | 1         | 86.5  | 4             | 31.3 | 0      |
| 10                       |           |                | 22.0      | 1               |           |             |           |             |       |           |       |               |      |        |
| 11                       | 11.1      | 2              | 18.0      | 4               | 37.0      | 4           | 33.8      | 4           | 73.0  | 4         | 86.4  | 4             | 16.8 | 4      |
| 13                       | 10.7      | 3              | 16.7      | 3               |           |             | 35.0      | 3           | 64.4  | 2         | 89.5  | 3             | 15.4 | 3      |
| 15                       | 9.8       | 2              | 28.3      | 0               | 38.3      | 3           | 31.8      | 2           | 75.3  | 3         | 95.6  | 1             | 17.2 | 4      |
| 16                       | 10.5      | 4              | 18.2      | 4               | 37.7      | 4           | 32.8      | 3           | 72.9  | 4         | 86.7  | 4             | 16.6 | 4      |
| 18                       | 10.2      | 4              | 16.5      | 3               | 37.0      | 4           | 33.2      | 4           | 71.1  | 4         | 83.5  | 4             | 14.6 | 2      |
| 19                       | 10.5      | 4              | 18.8      | 4               |           |             | 34.3      | 4           | 84.7  | 0         | 93.9  | 2             |      |        |
| 21                       |           |                |           |                 |           |             |           |             |       |           |       |               |      |        |
| 23                       | 10.2      | 4              | 17.8      | 4               | < 100     | NR          | 33.4      | 4           | 74.0  | 3         | 78.3  | 3             |      |        |
| 24                       | 10.3      | 4              | 17.4      | 4               | 34.0      | 4           | 33.3      | 4           | 68.0  | 3         | 59.8  | 0             |      |        |
| 25                       | 10.0      | 3              | 22.0      | 1               |           |             | 37.8      | 0           |       |           |       |               |      |        |
| 26                       | 10.9      | 3              | 14.7      | 1               | 37.0      | 4           | 34.6      | 4           | 74.6  | 3         | 80.7  | 4             | < 20 | NR     |
| 28                       | 10.8      | 3              | 25.1      | 0               | 26.8      | 0           | 37.3      | 0           | 31.8  | 0         | 17.9  | 0             |      |        |
| 30                       | 10.0      | 3              | 17.0      | 3               | 36.0      | 4           |           |             | 70.0  | 4         | 82.0  | 4             | 17.0 | 2      |
| 32                       | 10.8      | 3              | 17.7      | 4               | 36.4      | 4           | 33.1      | 3           | 71.0  | 4         | 81.3  | 4             | 16.0 | 4      |
| 33                       | 10.3      | 4              | 20.0      | 3               |           |             | 33.7      | 4           |       |           |       |               |      |        |
| 34                       |           |                |           |                 |           |             |           |             |       |           | 74.1  | 2             |      |        |
| 35                       |           |                |           |                 |           |             |           |             |       |           |       |               |      |        |
| 36                       | 8.7       | 0              | 19.0      | 4               |           |             | 38.0      | 0           | 62.0  | 1         | 78.0  | 3             | 10.0 | C      |
| 39                       |           |                |           |                 |           |             |           |             | 66.0  | 3         | 81.0  | 4             | 16.7 | 4      |
| 40                       | 10.3      | 4              | 14.4      | 1               | 37.9      | 4           | 32.9      | 3           | 51.3  | 0         |       |               | 5.7  | C      |
| 42                       | 11.1      | 2              | 21.0      | 2               | 36.0      | 4           | 33.9      | 4           | 70.0  | 4         | 83.0  | 4             | 16.0 | 4      |
| 43                       | 10.5      | 4              | 20.0      | 3               |           |             | 35.0      | 3           |       |           |       |               |      |        |
| 46                       | 10.5      | 4              | 16.2      | 2               | 36.0      | 4           | 35.6      | 2           | 74.2  | 3         | 77.0  | 3             | 17.2 | 4      |
| 48                       | 10.8      | 3              | 20.0      | 3               | 37.6      | 4           | 35.2      | 3           | 76.4  | 2         | 84.4  | 4             | 12.8 | C      |
| 50                       |           |                | 21.0      | 2               | 32.0      | 3           |           |             | 56.0  | 0         |       |               |      |        |
| 51                       | 8.8       | 0              |           |                 |           |             | 34.3      | 4           |       |           |       |               |      |        |
| 55                       | 11.3      | 1              | 13.0      | 0               | 30.0      | 2           |           |             |       |           |       |               |      |        |
| 58                       |           |                | < 50      | NR              |           |             |           |             | 110.0 | 0         | 92.0  | 2             |      |        |
| 64                       |           |                |           |                 |           |             | 33.8      | 4           |       |           |       |               |      |        |
| 68                       | 11.0      | 2              | 18.5      | 4               | 37.0      | 4           | 34.5      | 4           | 74.0  | 3         | 183.0 | 0             | 9.5  | C      |
| 69                       | 10.1      | 3              | < 20      | NR              |           |             | 32.6      | 3           | 58.5  | 0         | 80.4  | 4             | 15.0 | 2      |
| 70                       | 10.5      | 4              | < 20      | NR              | < 50      | NR          | 34.2      | 4           | 70.9  | 4         | 82.2  | 4             | 21.2 | C      |
| 73                       |           |                | 18.0      | 4               |           |             |           |             | 73.0  | 4         | 87.0  | 4             |      |        |
| 75                       | 10.6      | 4              | 18.1      | 4               | 31.7      | 2           | 34.5      | 4           | 71.1  | 4         | 97.6  | 1             | 22.9 | C      |
| 76                       |           |                |           |                 |           |             |           |             | 74.8  | 3         | 83.3  | 4             |      |        |
| 80                       |           |                | 15.3      | 2               |           |             |           |             |       |           | 83.5  | 4             |      |        |
| 81                       | 10.3      | 4              | 17.0      | 3               | 28.0      | 1           | 32.7      | 3           | 50.0  | 0         | 87.0  | 4             | < 6  | C      |
| 83                       | 10.1      | 3              | 17.4      | 4               |           |             | 32.9      | 3           | 70.6  | 4         | 83.6  | 4             |      |        |
| 85                       | 10.8      | 3              |           |                 |           |             | 34.5      | 4           | 74.4  | 3         | 76.5  | 3             |      |        |
| 86                       | 10.4      | 4              | 18.0      | 4               | 40.5      | 2           | 35.0      | 3           | 64.5  | 2         | 81.0  | 4             |      |        |
| 87                       | 10.2      | 4              | 20.5      | 2               | 35.1      | 4           | 32.8      | 3           | 78.0  | 2         | 78.0  | 3             |      |        |
| 89                       | 10.4      | 4              | 17.6      | 4               |           |             | 33.6      | 4           | 67.5  | 3         | 85.2  | 4             | 18.7 | 2      |
| 91                       |           |                | 17.6      | 4               |           |             |           |             |       |           |       |               |      |        |
| 96                       |           |                | 22.0      | 1               |           |             |           |             | 67.6  | 3         | 92.8  | 2             | 15.1 | 2      |
| 97                       | 10.4      | 4              | 22.0      | 1               | 35.4      | 4           | 34.5      | 4           | 69.0  | 4         | 81.9  | 4             | 16.6 | 4      |
| 102                      | 12.5      | 0              | 20.0      | 3               |           |             | 30.9      | 1           | 80.0  | 1         | 95.0  | 1             | 17.0 | 4      |
| 104                      |           |                |           |                 |           |             |           |             |       |           |       |               |      |        |
| 105                      | 10.3      | 4              | 17.5      | 4               | 40.2      | 3           | 30.8      | 1           | 66.7  | 3         | 87.9  | 3             | 17.0 | 4      |
| 107                      | 10.7      | 3              | 20.0      | 3               |           |             | 32.8      | 3           |       |           |       |               |      |        |
| 109                      | 10.4      | 4              | 19.3      | 3               | 12.5      | 0           | 34.1      | 4           |       |           | 32.0  | 0             |      |        |
| 110                      | 8.3       | 0              |           |                 |           |             | 33.0      | 3           |       |           |       |               |      |        |
| 113                      | 10.7      | 3              | 18.6      | 4               |           |             | 29.7      | 0           | 70.6  | 4         | 81.1  | 4             |      |        |
| 114                      | 10.0      | 3              | 20.0      | 3               |           |             | 28.0      | 0           | 70.0  | 4         | 72.0  | 1             |      |        |
| 118                      |           |                |           |                 |           |             |           |             | 30.0  | 0         | 27.9  | 0             |      |        |
| 119                      | 10.6      | 4              | 20.0      | 3               | 35.1      | 4           | 34.2      | 4           | 104.0 | 0         | 82.0  | 4             | 15.2 | 3      |
| 121                      | 10.0      | 3              | 18.0      | 4               |           |             | 32.0      | 2           | 70.0  | 4         |       |               |      |        |
| 127                      | 10.4      | 4              | 16.7      | 3               | 32.1      | 3           | 33.2      | 4           | 71.0  | 4         | 87.2  | 3             | 15.6 | 3      |
| 128                      | 10.0      | 3              | 15.7      | 2               | 31.3      | 2           | 32.9      | 3           | 64.6  | 2         | 82.8  | 4             | 16.3 | 4      |
| 129                      | 10.0      | 3              | 20.0      | 3               |           |             | 35.0      | 3           |       |           |       |               |      |        |
| 132                      | 10.5      | 4              | 17.0      | 3               | 26.0      | 0           | 34.4      | 4           | 75.0  | 3         | 80.5  | 4             |      |        |

Table 5. Laboratory performance ratings for standard reference water sample T-143 (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)

| 20, number of reported values of 20 possible values, RV, reported value, 1, 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 = 10.4 mg/L  |      |        | 18.2 µg/L        |        |      | 36.1 µg/L        |      |        | 34.0 mg/L         |        |       | 71.0 µg/L   |      |        | 83.4 µg/L |        |    | 16.6 µg/L     |  |  |
| F-pseudosigma = 0.5  |      |        | 1.9              |        |      | 4.3              |      |        | 1.6               |        |       | 5.0         |      |        | 7.1       |        |    | 1.5           |  |  |
| Lab  | RV   | Rating | RV               | Rating | RV   | Rating           | RV   | Rating | RV                | Rating | RV    | Rating      | RV   | Rating | RV        | Rating | RV | Rating        |  |  |
| 133  | 9.9  | 3      |                  |        |      |                  |      |        |                   |        | 74.3  | 3           | 92.0 | 2      |           |        |    |               |  |  |
| 134  | 10.2 | 4      | 18.1             | 4      | 37.0 | 4                | 33.7 | 4      | 69.4              | 4      | 83.4  | 4           | 16.4 | 4      |           |        |    |               |  |  |
| 138  | 10.7 | 3      | 18.0             | 4      | 35.9 | 4                | 34.1 | 4      | 70.0              | 4      | 77.1  | 3           | 16.8 | 4      |           |        |    |               |  |  |
| 140  | 11.0 | 2      | 17.0             | 3      |      |                  | 42.5 | 0      | 71.0              | 4      | 86.0  | 4           |      |        |           |        |    |               |  |  |
| 141  | 10.9 | 3      | 18.2             | 4      | 37.3 | 4                | 35.4 | 3      | 69.0              | 4      | 101.0 | 0           | 16.4 | 4      |           |        |    |               |  |  |
| 142  | 10.0 | 3      | 19.0             | 4      | 38.3 | 3                | 34.2 | 4      | 68.3              | 3      | 87.0  | 4           | 19.9 | 0      |           |        |    |               |  |  |
| 144  |      |        |                  |        |      |                  |      |        |                   |        |       |             |      |        |           |        |    |               |  |  |
| 145  | 11.4 | 1      | 20.7             | 2      | 30.6 | 2                | 37.1 | 1      | 86.3              | 0      | 498.9 | 0           |      |        |           |        |    |               |  |  |
| 146  | 10.1 | 3      | 17.8             | 4      | 36.2 | 4                | 35.5 | 3      | 72.4              | 4      | 84.2  | 4           | < 20 | NR     |           |        |    |               |  |  |
| 151  |      |        | 16.5             | 3      | 38.6 | 3                |      |        | 69.0              | 4      | 82.8  | 4           | 17.2 | 4      |           |        |    |               |  |  |
| 155  |      |        |                  |        |      |                  |      |        |                   |        |       |             |      |        |           |        |    |               |  |  |
| 158  | 11.1 | 2      | 19.5             | 3      |      |                  |      |        | 76.0              | 3      | 30.1  | 0           |      |        |           |        |    |               |  |  |
| 180  | 10.6 | 4      | 18.1             | 4      | 41.0 | 2                | 34.0 | 4      | 76.0              | 3      | 92.1  | 2           | 31.6 | 0      |           |        |    |               |  |  |
| 183  |      |        | 22.7             | 0      |      |                  |      |        |                   |        |       |             |      |        |           |        |    |               |  |  |
| 190  | 10.4 | 4      | 19.3             | 3      |      |                  | 34.0 | 4      | 59.4              | 0      | 60.8  | 0           |      |        |           |        |    |               |  |  |
| 191  | 10.7 | 3      | 19.0             | 4      | 39.7 | 3                | 33.2 | 4      | 72.2              | 4      | 82.0  | 4           |      |        |           |        |    |               |  |  |
| 193  | 9.8  | 2      |                  |        |      |                  | 31.6 | 2      | 66.0              | 3      | 88.0  | 3           | 15.0 | 2      |           |        |    |               |  |  |
| 196  |      |        | 19.0             | 4      | 36.4 | 4                |      |        | 70.5              | 4      | 85.4  | 4           | 15.8 | 3      |           |        |    |               |  |  |
| 203  | 10.6 | 4      | 20.0             | 3      |      |                  | 32.5 | 3      |                   |        |       |             |      |        |           |        |    |               |  |  |
| 204  | 7.6  | 0      | 14.0             | 0      |      |                  | 31.2 | 1      |                   |        | 82.2  | 4           |      |        |           |        |    |               |  |  |
| 212  | 11.2 | 1      | 19.0             | 4      | 38.0 | 4                | 36.7 | 1      | 72.0              | 4      | 120.0 | 0           | 16.0 | 4      |           |        |    |               |  |  |
| 213  |      |        |                  |        |      |                  |      |        | 91.2              | 0      | 90.0  | 3           |      |        |           |        |    |               |  |  |
| 215  | 10.6 | 4      | 18.1             | 4      | 37.0 | 4                | 34.5 | 4      | 71.0              | 4      | 82.0  | 4           | 8.0  | 0      |           |        |    |               |  |  |
| 217  | 10.0 | 3      | 18.2             | 4      | 37.8 | 4                | 33.9 | 4      | 74.1              | 3      | 90.1  | 3           | 17.9 | 3      |           |        |    |               |  |  |
| 218  | 10.4 | 4      |                  |        |      |                  | 31.0 | 1      |                   |        |       |             |      |        |           |        |    |               |  |  |
| 219  | 10.0 | 3      | 17.0             | 3      | 27.0 | 0                | 33.0 | 3      | 66.0              | 3      | 70.0  | 1           |      |        |           |        |    |               |  |  |
| 220  | 10.0 | 3      | 19.2             | 3      |      |                  | 31.0 | 1      |                   |        | 78.4  | 3           |      |        |           |        |    |               |  |  |
| 221  | 9.7  | 2      | 19.7             | 3      | 35.4 | 4                | 34.1 | 4      | 71.2              | 4      | 84.5  | 4           |      |        |           |        |    |               |  |  |
| 224  | 10.0 | 3      | 19.0             | 4      | 48.0 | 0                | 31.2 | 1      | 59.9              | 0      | 140.3 | 0           |      |        |           |        |    |               |  |  |
| 234  | 9.9  | 3      | 18.4             | 4      | 34.3 | 4                | 33.1 | 3      | 74.6              | 3      | 89.3  | 3           | 17.0 | 4      |           |        |    |               |  |  |
| 235  | 10.5 | 4      | 18.0             | 4      | 39.0 | 3                | 39.0 | 0      | 74.0              | 3      | 87.0  | 4           | < 50 | NR     |           |        |    |               |  |  |
| 236  | 10.7 | 4      | 16.4             | 3      | 19.7 | 0                | 32.8 | 3      | 65.5              | 2      | 62.4  | 0           | 49.7 | 0      |           |        |    |               |  |  |
| 240  | 10.2 | 4      | 18.0             | 4      | 11.0 | 0                |      |        | 75.0              | 3      | 131.0 | 0           | 18.0 | 3      |           |        |    |               |  |  |
| 241  | 9.4  | 1      | 17.0             | 3      | 52.0 | 0                | 31.0 | 1      | 67.6              | 3      | 99.2  | 0           | 15.0 | 2      |           |        |    |               |  |  |
| 244  |      |        | 31.5             | 0      |      |                  |      |        |                   |        |       |             |      |        |           |        |    |               |  |  |
| 246  | 8.7  | 0      |                  |        |      |                  | 41.0 | 0      |                   |        |       |             |      |        |           |        |    |               |  |  |
| 249  |      |        |                  |        |      |                  | 35.6 | 2      | 69.2              | 4      | 79.2  | 3           |      |        |           |        |    |               |  |  |
| 253  |      |        |                  |        |      |                  |      |        |                   |        |       |             |      |        |           |        |    |               |  |  |
| 255  | 10.3 | 4      | 18.0             | 4      | 36.3 | 4                | 32.8 | 3      | 70.9              | 4      | 83.4  | 4           | 20.4 | 0      |           |        |    |               |  |  |
| 256  |      |        | 19.0             | 4      |      |                  | 31.2 | 1      | 76.6              | 2      | 155.0 | 0           |      |        |           |        |    |               |  |  |
| 257  | 8.7  | 0      | 18.0             | 4      | 44.0 | 1                | 33.0 | 3      | 68.0              | 3      | 91.0  | 2           | 2.0  | 0      |           |        |    |               |  |  |
| 259  |      |        |                  |        |      |                  | 34.0 | 4      | 125.0             | 0      | 54.0  | 0           |      |        |           |        |    |               |  |  |
| 261  | 10.5 | 4      |                  |        |      |                  | 40.2 | 0      |                   |        |       |             |      |        |           |        |    |               |  |  |
| 265  | 10.1 | 3      | 19.0             | 4      | 35.0 | 4                | 33.0 | 3      | 73.0              | 4      | 79.6  | 3           | 16.8 | 4      |           |        |    |               |  |  |
| 268  | 10.2 | 4      |                  |        |      |                  | 35.8 | 2      |                   |        |       |             |      |        |           |        |    |               |  |  |
| 270  |      |        |                  |        |      |                  | 42.2 | 0      |                   |        |       |             |      |        |           |        |    |               |  |  |
| 271  | 25.4 | 0      |                  |        |      |                  | 34.0 | 4      |                   |        |       |             |      |        |           |        |    |               |  |  |
| 272  | 9.0  | 0      |                  |        |      |                  | 50.0 | 0      |                   |        |       |             |      |        |           |        |    |               |  |  |
| 273  | 11.2 | 1      | 21.0             | 2      |      |                  | 36.2 | 2      | 82.0              | 0      | 65.0  | 0           |      |        |           |        |    |               |  |  |
| 274  | 17.7 | 0      | 7.4              | 0      |      |                  | 18.4 | 0      |                   |        | 1.2   | 0           |      |        |           |        |    |               |  |  |

Table 5. Laboratory performance ratings for standard reference water sample T-143 (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 =                   | 9.63 µg/L | 23.4 mg/L     | 306 µg/L | 10.0 µg/L      | 12.0 µg/L | 30.0 µg/L     | 20.0 µg/L |             |       |              |      |           |       |        |
| F-pseudosigma =         | 1.64      | 1.7           | 15       | 1.0            | 0.9       | 3.0           | 2.2       |             |       |              |      |           |       |        |
| Lab                     | RV        | Rating        | RV       | Rating         | RV        | Rating        | RV        | Rating      | RV    | Rating       | RV   | Rating    | RV    | Rating |
| 1                       | 8.80      | 4             | 22.1     | 3              | 301       | 4             | 10.4      | 4           | 10.8  | 2            | 31.1 | 4         | 18.7  | 3      |
| 3                       | < 5       | 0             | 24.4     | 3              | 309       | 4             | < 10      | NR          |       |              | 23.0 | 0         | 17.1  | 2      |
| 4                       |           |               | 27.0     | 0              | 323       | 2             |           |             |       |              | < 50 | NR        | < 200 | NR     |
| 7                       | < 50      | NR            | 23.8     | 4              | 303       | 4             |           |             | < 120 | NR           | 32.4 | 3         | 19.1  | 4      |
| 10                      | 9.40      | 4             |          |                |           |               |           |             |       |              |      |           | 21.0  | 4      |
| 11                      | 13.60     | 0             | 18.1     | 0              | 299       | 4             | 14.0      | 0           |       |              | 30.0 | 4         | 16.0  | 1      |
| 13                      | 7.20      | 2             | 22.9     | 4              |           |               | 9.8       | 4           |       |              | 39.7 | 0         | 20.1  | 4      |
| 15                      | 10.40     | 4             | 25.6     | 2              |           |               | 8.0       | 1           |       |              | 20.8 | 0         | 18.2  | 3      |
| 16                      | 11.20     | 3             |          |                | 282       | 1             | 10.2      | 4           | 12.0  | 4            | 30.3 | 4         | 19.5  | 4      |
| 18                      | 8.20      | 3             |          |                | 290       | 2             | 9.7       | 4           |       |              | 28.0 | 3         | < 100 | NR     |
| 19                      |           |               |          |                |           |               |           |             |       |              |      |           | 21.1  | 4      |
| 21                      |           |               |          |                |           |               |           |             |       |              |      |           |       |        |
| 23                      | 8.92      | 4             |          |                |           |               | < 5       | 0           |       |              |      |           | < 20  | NR     |
| 24                      |           |               | 24.1     | 4              | 306       | 4             |           |             |       |              | 24.0 | 1         | 17.9  | 3      |
| 25                      |           |               | 25.5     | 2              | 324       | 2             |           |             |       |              | 23.0 | 0         |       |        |
| 26                      | 8.57      | 3             | 23.3     | 4              |           |               |           |             |       |              | 30.0 | 4         | 20.1  | 4      |
| 28                      |           |               |          |                | 319       | 3             |           |             |       |              | 30.2 | 4         | 16.5  | 1      |
| 30                      | 12.00     | 2             |          |                |           |               |           |             | 11.0  | 2            | 30.0 | 4         | 20.0  | 4      |
| 32                      | 9.67      | 4             | 24.0     | 4              | 311       | 4             | 9.6       | 4           |       |              | 30.5 | 4         | 19.9  | 4      |
| 33                      |           |               | 22.2     | 3              | 308       | 4             |           |             |       |              |      |           |       |        |
| 34                      | 9.25      | 4             |          |                |           |               |           |             |       |              |      |           |       |        |
| 35                      |           |               |          |                |           |               |           |             |       |              |      |           |       |        |
| 36                      | 5.00      | 0             |          |                |           |               |           |             |       |              |      |           | 22.0  | 3      |
| 39                      | 10.60     | 3             |          |                |           |               | 10.8      | 3           |       |              |      |           |       |        |
| 40                      |           |               |          |                | 249       | 0             |           |             |       |              | 27.7 | 3         | 13.8  | 0      |
| 42                      | 12.00     | 2             | 24.8     | 3              | 299       | 4             | < 5       | 0           |       |              | 32.0 | 3         | 19.0  | 4      |
| 43                      |           |               | 23.0     | 4              |           |               |           |             |       |              |      |           |       |        |
| 46                      | 9.30      | 4             |          |                |           |               | 10.9      | 3           |       |              | 32.2 | 3         |       |        |
| 48                      | 7.80      | 2             |          |                |           |               | 7.9       | 1           |       |              | 27.7 | 3         | < 5   | 0      |
| 50                      | 9.10      | 4             |          |                |           |               |           |             |       |              | 22.0 | 0         |       |        |
| 51                      |           |               |          |                |           |               |           |             |       |              |      |           |       |        |
| 55                      |           |               | 23.5     | 4              | 306       | 4             |           |             |       |              | 28.3 | 3         |       |        |
| 58                      | 10.00     | 4             |          |                |           |               |           |             |       |              |      |           | < 50  | NR     |
| 64                      |           |               |          |                |           |               |           |             |       |              |      |           |       |        |
| 68                      | 6.25      | 0             |          |                | 310       | 4             |           |             |       |              | 26.0 | 2         | 21.5  | 3      |
| 69                      | 9.55      | 4             |          |                |           |               | 11.0      | 3           |       |              |      |           | < 50  | NR     |
| 70                      | < 10      | NR            | 22.4     | 3              | 309       | 4             | 7.8       | 0           |       |              | < 50 | NR        | 20.1  | 4      |
| 73                      | 26.00     | 0             |          |                |           |               |           |             |       |              |      |           | 20.0  | 4      |
| 75                      | 9.67      | 4             |          |                |           |               |           |             | < 100 | NR           | 29.6 | 4         | 19.2  | 4      |
| 76                      |           |               | 26.1     | 1              |           |               | 7.4       | 0           |       |              |      |           |       |        |
| 80                      | 9.30      | 4             |          |                |           |               |           |             |       |              |      |           | 15.5  | 1      |
| 81                      |           |               | 23.6     | 4              | 262       | 0             | 53.0      | 0           |       |              | 19.0 | 0         | 17.0  | 2      |
| 83                      |           |               | 21.3     | 2              |           |               |           |             |       |              |      |           | 18.3  | 3      |
| 85                      |           |               |          |                | 318       | 3             |           |             |       |              | 30.4 | 4         |       |        |
| 86                      | 10.90     | 3             |          |                | 301       | 4             |           |             |       |              | 31.3 | 4         | 20.5  | 4      |
| 87                      | 19.40     | 0             | 23.4     | 4              |           |               |           |             |       |              |      |           | 24.0  | 1      |
| 89                      | 8.00      | 3             | 21.2     | 2              |           |               | < 10      | NR          |       |              | 32.3 | 3         | 40.7  | 0      |
| 91                      |           |               |          |                |           |               |           |             |       |              |      |           |       |        |
| 96                      | 9.70      | 4             |          |                |           |               |           |             |       |              |      |           | 22.0  | 3      |
| 97                      | 5.75      | 0             | 23.0     | 4              | 255       | 0             | 10.9      | 3           |       |              | 34.9 | 1         | 14.6  | 0      |
| 102                     | 19.00     | 0             |          |                | 356       | 0             |           |             |       |              | 33.0 | 2         | 20.0  | 4      |
| 104                     |           |               | 22.7     | 4              |           |               |           |             |       |              |      |           |       |        |
| 105                     | 10.30     | 4             | 21.2     | 2              | 285       | 2             |           |             |       |              | 29.4 | 4         | 19.3  | 4      |
| 107                     |           |               | 26.3     | 1              |           |               |           |             |       |              |      |           |       |        |
| 109                     |           |               |          |                | 265       | 0             |           |             |       |              |      |           |       |        |
| 110                     |           |               | 25.4     | 2              |           |               |           |             |       |              |      |           |       |        |
| 113                     | 8.65      | 3             | 22.8     | 4              | 295       | 3             | 9.6       | 4           |       |              |      |           | 19.4  | 4      |
| 114                     |           |               |          |                |           |               |           |             |       |              |      |           | 18.0  | 3      |
| 118                     | 8.10      | 3             | 25.5     | 2              |           |               |           |             |       |              |      |           | 24.0  | 1      |
| 119                     | 10.40     | 4             | 23.0     | 4              |           |               | 10.1      | 4           | 12.0  | 4            | 28.0 | 3         | 44.0  | 0      |
| 121                     |           |               | 22.7     | 4              | 300       | 4             |           |             |       |              | 32.0 | 3         | 20.0  | 4      |
| 127                     | 10.30     | 4             | 21.4     | 2              | 285       | 2             |           |             |       |              | 31.1 | 4         | 16.3  | 1      |
| 128                     | 10.50     | 3             | 24.0     | 4              |           |               | 10.0      | 4           |       |              | 27.7 | 3         | 20.2  | 4      |
| 129                     |           |               | 23.7     | 4              |           |               |           |             |       |              |      |           |       |        |
| 132                     |           |               |          |                |           |               |           |             |       |              |      |           | 20.0  | 4      |

Table 5. Laboratory performance ratings for standard reference water sample T-143 (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 <sub>2</sub> (Silica) |        |     | Sr (Strontium) |      |        | Tl (Thallium) |        |    | U (Uranium) |      |        | V (Vanadium) |        |    | Zn (Zinc) |       |        |
|-------------------------|--------|--------|---------------------------|--------|-----|----------------|------|--------|---------------|--------|----|-------------|------|--------|--------------|--------|----|-----------|-------|--------|
| MPV = 9.63 µg/L         |        |        | 23.4 mg/L                 |        |     | 306 µg/L       |      |        | 10.0 µg/L     |        |    | 12.0 µg/L   |      |        | 30.0 µg/L    |        |    | 20.0 µg/L |       |        |
| F-pseudosigma = 1.64    |        |        | 1.7                       |        |     | 15             |      |        | 1.0           |        |    | 0.9         |      |        | 3.0          |        |    | 2.2       |       |        |
| Lab                     | RV     | Rating | RV                        | Rating | RV  | Rating         | RV   | Rating | RV            | Rating | RV | Rating      | RV   | Rating | RV           | Rating | RV | Rating    | RV    | Rating |
| 133                     | 8.20   | 3      |                           |        |     |                |      |        |               |        |    |             |      |        |              |        |    |           | 20.5  | 4      |
| 134                     | 10.65  | 3      | 22.9                      | 4      | 295 | 3              | 10.2 | 4      |               |        |    |             | 29.7 | 4      |              |        |    |           | 20.4  | 4      |
| 138                     | 9.58   | 4      | 21.5                      | 2      | 297 | 3              | 9.4  | 3      |               |        |    |             | 29.5 | 4      |              |        |    |           | 17.3  | 2      |
| 140                     |        |        | 22.8                      | 4      |     |                |      |        |               |        |    |             |      |        |              |        |    |           | 20.0  | 4      |
| 141                     | 10.30  | 4      |                           |        |     |                |      |        | < 50          | NR     |    |             | 30.8 | 4      |              |        |    |           | 19.7  | 4      |
| 142                     | 10.50  | 3      | 26.7                      | 1      | 315 | 3              | 10.4 | 4      | 12.2          | 4      |    |             | 29.6 | 4      |              |        |    |           | 15.7  | 1      |
| 144                     | 9.30   | 4      |                           |        |     |                |      |        |               |        |    |             |      |        |              |        |    |           |       |        |
| 145                     |        |        | 26.0                      | 1      | 333 | 1              |      |        |               |        |    |             | 37.3 | 0      |              |        |    |           | 25.1  | 0      |
| 146                     | < 10   | NR     |                           |        |     |                |      |        | < 10          | NR     |    |             | 30.0 | 4      |              |        |    |           | < 20  | NR     |
| 151                     | 10.80  | 3      |                           |        | 316 | 3              | 10.3 | 4      |               |        |    |             |      |        |              |        |    |           | 20.2  | 4      |
| 155                     |        |        |                           |        |     |                |      |        |               |        |    |             |      |        |              |        |    |           |       |        |
| 158                     |        |        | 24.6                      | 3      |     |                |      |        |               |        |    |             | 30.6 | 4      |              |        |    |           | 18.6  | 3      |
| 180                     | < 50.1 | NR     |                           |        |     |                |      |        | < 32.1        | NR     |    |             | 30.7 | 4      |              |        |    |           | 20.4  | 4      |
| 183                     |        |        |                           |        |     |                |      |        |               |        |    |             |      |        |              |        |    |           |       |        |
| 190                     | 31.50  | 0      | 23.5                      | 4      | 613 | 0              |      |        |               |        |    |             |      |        |              |        |    |           | 21.3  | 3      |
| 191                     | 11.40  | 2      | 23.3                      | 4      | 305 | 4              | 9.9  | 4      |               |        |    |             | 32.2 | 3      |              |        |    |           | 18.8  | 3      |
| 193                     | 7.00   | 1      |                           |        |     |                | 7.0  | 0      |               |        |    |             |      |        |              |        |    |           | < 50  | NR     |
| 196                     | 10.80  | 3      |                           |        | 312 | 4              | 10.1 | 4      | 11.5          | 3      |    |             | 29.9 | 4      |              |        |    |           | 19.8  | 4      |
| 203                     |        |        | 23.7                      | 4      |     |                |      |        |               |        |    |             |      |        |              |        |    |           |       |        |
| 204                     |        |        | 23.4                      | 4      |     |                |      |        |               |        |    |             |      |        |              |        |    |           | 18.0  | 3      |
| 212                     | 12.00  | 2      | 24.3                      | 3      | 330 | 1              | 10.0 | 4      | 14.0          | 0      |    |             | 32.0 | 3      |              |        |    |           | 22.0  | 3      |
| 213                     |        |        |                           |        |     |                | 9.0  | 3      |               |        |    |             |      |        |              |        |    |           | 29.3  | 0      |
| 215                     | 9.10   | 4      | 45.9                      | 0      |     |                | < 7  | 0      |               |        |    |             |      |        |              |        |    |           | 20.0  | 4      |
| 217                     | 9.77   | 4      | 20.7                      | 1      | 295 | 3              | 10.9 | 3      | 13.0          | 2      |    |             | 28.6 | 4      |              |        |    |           | 17.9  | 3      |
| 218                     |        |        |                           |        | 318 | 3              |      |        |               |        |    |             |      |        |              |        |    |           |       |        |
| 219                     |        |        | 23.0                      | 4      | 310 | 4              |      |        |               |        |    |             | 28.0 | 3      |              |        |    |           | 17.0  | 2      |
| 220                     | 7.80   | 2      |                           |        |     |                |      |        |               |        |    |             |      |        |              |        |    |           | 20.0  | 4      |
| 221                     | 9.16   | 4      |                           |        |     |                |      |        |               |        |    |             |      |        |              |        |    |           | 34.8  | 0      |
| 224                     | 6.10   | 0      |                           |        |     |                |      |        |               |        |    |             | 34.5 | 1      |              |        |    |           | 19.0  | 4      |
| 234                     | 9.56   | 4      | 22.5                      | 4      | 310 | 4              | 7.6  | 0      |               |        |    |             | 27.6 | 3      |              |        |    |           | 15.4  | 0      |
| 235                     |        |        | 25.9                      | 2      | 311 | 4              | 5.0  | 0      |               |        |    |             | 36.0 | 1      |              |        |    |           | 19.5  | 4      |
| 236                     | 174.10 | 0      | 14.3                      | 0      | 297 | 3              |      |        |               |        |    |             | 31.1 | 4      |              |        |    |           | 15.5  | 1      |
| 240                     | 15.00  | 0      | 21.0                      | 2      | 294 | 3              | 9.0  | 3      |               |        |    |             |      |        |              |        |    |           | 23.0  | 2      |
| 241                     | 6.44   | 1      | 24.7                      | 3      |     |                | 10.5 | 4      |               |        |    |             | 34.7 | 1      |              |        |    |           | 16.0  | 1      |
| 244                     |        |        |                           |        |     |                |      |        |               |        |    |             |      |        |              |        |    |           |       |        |
| 246                     |        |        | 5.8                       | 0      |     |                |      |        |               |        |    |             |      |        |              |        |    |           |       |        |
| 249                     |        |        |                           |        |     |                |      |        |               |        |    |             |      |        |              |        |    |           | 184.0 | 0      |
| 253                     |        |        |                           |        |     |                |      |        |               |        |    |             |      |        |              |        |    |           | 50.0  | 0      |
| 255                     | 5.33   | 0      |                           |        |     |                |      |        |               |        |    |             | 29.7 | 4      |              |        |    |           | 18.8  | 3      |
| 256                     |        |        | 20.6                      | 1      |     |                |      |        |               |        |    |             |      |        |              |        |    |           | 20.4  | 4      |
| 257                     |        |        |                           |        |     |                |      |        |               |        |    |             | 93.0 | 0      |              |        |    |           | 21.0  | 4      |
| 259                     | 8.60   | 3      |                           |        |     |                |      |        |               |        |    |             |      |        |              |        |    |           | 50.0  | 0      |
| 261                     |        |        |                           |        |     |                |      |        |               |        |    |             |      |        |              |        |    |           |       |        |
| 265                     | 11.85  | 2      | 21.2                      | 2      | 300 | 4              | 8.9  | 2      | 11.0          | 2      |    |             | 30.0 | 4      |              |        |    |           | 22.0  | 3      |
| 268                     |        |        |                           |        |     |                |      |        |               |        |    |             |      |        |              |        |    |           |       |        |
| 270                     |        |        |                           |        |     |                |      |        |               |        |    |             |      |        |              |        |    |           |       |        |
| 271                     |        |        |                           |        |     |                |      |        |               |        |    |             |      |        |              |        |    |           |       |        |
| 272                     |        |        |                           |        |     |                |      |        |               |        |    |             |      |        |              |        |    |           |       |        |
| 273                     |        |        |                           |        | 336 | 1              |      |        |               |        |    |             |      |        |              |        |    |           | 15.0  | 0      |
| 274                     |        |        | 31.3                      | 0      |     |                |      |        |               |        |    |             |      |        |              |        |    |           | 5.8   | 0      |

Table 6. Laboratory performance ratings for standard reference water sample T-145 (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; &lt;, 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 = 7.55            |     |      |       | µg/L 67.6      |        |        |       | µg/L 9.88    |       |        |        | µg/L 45.6 |       |        |      | µg/L 37.1   |    |        |    | µg/L 9.04      |    |        |    | mg/L 30.7    |    |        |  |
| F-pseudosigma = 0.92  |     |      |       | RV 11.0        |        |        |       | RV 1.04      |       |        |        | RV 5.8    |       |        |      | RV 1.9      |    |        |    | RV 0.70        |    |        |    | RV 1.3       |    |        |  |
| Lab                   | OLR | V/28 | RV    | Rating         | RV     | Rating | RV    | Rating       | RV    | Rating | RV     | Rating    | RV    | Rating | RV   | Rating      | RV | Rating | RV | Rating         | RV | Rating | RV | Rating       | RV | Rating |  |
| 1                     | 3.4 | 28   | 7.55  | 4              | 60.1   | 3      | 9.90  | 4            | 45.7  | 4      | 36.8   | 4         | 8.94  | 4      | 29.0 | 2           |    |        |    |                |    |        |    |              |    |        |  |
| 3                     | 1.5 | 25   | 6.00  | 1              | 98.0   | 0      | 10.00 | 4            | 40.0  | 3      | 36.5   | 4         | 9.20  | 4      | 31.1 | 4           |    |        |    |                |    |        |    |              |    |        |  |
| 4                     | 3.2 | 17   | 8.00  | 4              | 68.0   | 4      | 13.00 | 0            |       |        | 37.0   | 4         |       |        | 30.5 | 4           |    |        |    |                |    |        |    |              |    |        |  |
| 5                     | 3.4 | 23   | 6.55  | 2              | 74.2   | 3      | 9.86  | 4            | 49.2  | 3      | 36.0   | 3         | 8.84  | 4      | 28.2 | 1           |    |        |    |                |    |        |    |              |    |        |  |
| 7                     | 2.5 | 19   | 9.90  | 0              | 83.8   | 2      | < 120 | NR           |       |        | 38.5   | 3         | 8.70  | 4      | 31.8 | 3           |    |        |    |                |    |        |    |              |    |        |  |
| 10                    | 2.8 | 8    |       |                |        |        | 10.00 | 4            |       |        |        |           |       |        |      |             |    |        |    |                |    |        |    |              |    |        |  |
| 11                    | 2.9 | 26   | 8.00  | 4              | 60.0   | 3      | 10.00 | 4            | 50.0  | 3      | 36.0   | 3         | 9.00  | 4      | 31.7 | 3           |    |        |    |                |    |        |    |              |    |        |  |
| 13                    | 2.8 | 22   | 8.13  | 3              | 79.8   | 2      | 10.50 | 3            |       |        | 39.8   | 2         | 9.17  | 4      | 33.2 | 1           |    |        |    |                |    |        |    |              |    |        |  |
| 15                    | 1.6 | 20   | < 10  | NR             | 82.1   | 2      | < 100 | NR           | < 50  | NR     | 34.2   | 1         | 8.70  | 4      | 28.6 | 1           |    |        |    |                |    |        |    |              |    |        |  |
| 16                    | 2.7 | 27   | 7.60  | 4              | 59.1   | 3      | 10.40 | 4            | 77.0  | 0      | 38.0   | 4         | 8.40  | 3      | 30.1 | 4           |    |        |    |                |    |        |    |              |    |        |  |
| 18                    | 3.6 | 20   | 8.40  | 3              | < 100  | NR     | 9.20  | 3            | < 50  | NR     | 36.2   | 4         | 9.20  | 4      | 30.6 | 4           |    |        |    |                |    |        |    |              |    |        |  |
| 19                    | 3.3 | 6    |       |                |        |        |       |              |       |        |        |           |       |        | 31.0 | 4           |    |        |    |                |    |        |    |              |    |        |  |
| 23                    | 2.4 | 14   | 7.79  | 4              | < 50   | NR     | 12.80 | 0            |       |        |        |           |       |        | 12.4 | 0           |    |        |    |                |    |        |    |              |    |        |  |
| 24                    | 2.8 | 14   |       |                |        |        |       |              | 36.9  | 2      |        |           |       |        | 30.0 | 3           |    |        |    |                |    |        |    |              |    |        |  |
| 25                    | 2.2 | 11   |       |                |        |        |       |              |       |        | 38.3   | 3         | 8.10  | 2      | 31.1 | 4           |    |        |    |                |    |        |    |              |    |        |  |
| 26                    | 3.5 | 24   | 7.76  | 4              | 65.8   | 4      | 9.62  | 4            | 37.6  | 2      | 37.6   | 4         | 9.17  | 4      | 30.6 | 4           |    |        |    |                |    |        |    |              |    |        |  |
| 28                    | 1.5 | 16   |       |                | 37.5   | 0      |       |              | 45.5  | 4      | 38.6   | 3         |       |        | 31.5 | 3           |    |        |    |                |    |        |    |              |    |        |  |
| 30                    | 2.9 | 21   | 7.60  | 4              |        |        | 9.00  | 3            |       |        | 36.0   | 3         | 7.60  | 0      | 32.0 | 2           |    |        |    |                |    |        |    |              |    |        |  |
| 32                    | 3.6 | 26   | 7.40  | 4              | 69.1   | 4      | 9.77  | 4            |       |        | 35.4   | 3         | 9.65  | 3      | 31.5 | 3           |    |        |    |                |    |        |    |              |    |        |  |
| 33                    | 2.4 | 10   |       |                | 100.0  | 0      |       |              |       |        | 41.0   | 0         |       |        | 30.3 | 4           |    |        |    |                |    |        |    |              |    |        |  |
| 34                    | 3.7 | 3    |       |                |        |        | 9.60  | 4            |       |        |        |           |       |        |      |             |    |        |    |                |    |        |    |              |    |        |  |
| 35                    | 3.0 | 1    |       |                |        |        |       |              |       |        |        |           |       |        |      |             |    |        |    |                |    |        |    |              |    |        |  |
| 36                    | 0.8 | 20   | 15.00 | 0              | 300.0  | 0      | 8.00  | 1            |       |        | < 0.05 | 0         | 11.00 | 0      | 30.0 | 3           |    |        |    |                |    |        |    |              |    |        |  |
| 40                    | 2.1 | 16   |       |                | 58.8   | 3      |       |              |       |        | 35.3   | 3         | 2.30  | 0      |      |             |    |        |    |                |    |        |    |              |    |        |  |
| 42                    | 2.0 | 26   | 7.50  | 4              | 67.0   | 4      | 11.00 | 2            | 47.0  | 4      |        |           | 13.00 | 0      | 12.1 | 0           |    |        |    |                |    |        |    |              |    |        |  |
| 43                    | 3.4 | 7    |       |                |        |        |       |              |       |        |        |           |       |        | 31.0 | 4           |    |        |    |                |    |        |    |              |    |        |  |
| 46                    | 3.1 | 21   | 7.10  | 4              | 86.8   | 1      | 9.10  | 3            | 22.4  | 0      | 37.6   | 4         | 8.96  | 4      | 32.0 | 2           |    |        |    |                |    |        |    |              |    |        |  |
| 48                    | 2.8 | 21   | 7.60  | 4              | 49.2   | 1      | 9.80  | 4            | < 100 | NR     | 43.2   | 0         | 10.00 | 2      | 31.6 | 3           |    |        |    |                |    |        |    |              |    |        |  |
| 51                    | 2.7 | 3    |       |                |        |        |       |              |       |        |        |           |       |        |      |             |    |        |    |                |    |        |    |              |    |        |  |
| 58                    | 1.0 | 8    | 9.00  | 1              | 117.0  | 0      | 12.00 | 1            |       |        |        |           |       |        |      |             |    |        |    |                |    |        |    |              |    |        |  |
| 59                    | 3.5 | 21   | 7.60  | 4              | 74.4   | 3      | 10.00 | 4            |       |        | 37.0   | 4         | 9.80  | 2      | 30.0 | 3           |    |        |    |                |    |        |    |              |    |        |  |
| 68                    | 1.9 | 24   | 10.10 | 0              | 98.5   | 0      | 6.90  | 0            | 125.0 | 0      | 38.5   | 3         | 9.30  | 4      |      |             |    |        |    |                |    |        |    |              |    |        |  |
| 69                    | 2.9 | 18   | 6.97  | 3              | 50.0   | 1      | 10.20 | 4            |       |        |        |           | 7.94  | 1      | 30.2 | 4           |    |        |    |                |    |        |    |              |    |        |  |
| 70                    | 3.3 | 16   | < 10  | NR             | < 100  | NR     | < 10  | NR           | < 50  | NR     | < 50   | NR        | 9.17  | 4      | 31.6 | 3           |    |        |    |                |    |        |    |              |    |        |  |
| 73                    | 2.5 | 11   |       |                | 62.0   | 3      | 13.00 | 0            |       |        |        |           |       |        |      |             |    |        |    |                |    |        |    |              |    |        |  |
| 75                    | 3.6 | 19   | 6.12  | 1              | 67.2   | 4      | 9.44  | 4            |       |        | 37.2   | 4         | 9.10  | 4      | 30.0 | 3           |    |        |    |                |    |        |    |              |    |        |  |
| 76                    | 2.8 | 9    |       |                | 66.7   | 4      | 10.60 | 3            |       |        |        |           | 10.20 | 1      |      |             |    |        |    |                |    |        |    |              |    |        |  |
| 80                    | 2.6 | 7    |       |                |        |        | 10.60 | 3            |       |        |        |           |       |        |      |             |    |        |    |                |    |        |    |              |    |        |  |
| 81                    | 2.3 | 22   |       |                | 51.0   | 1      | 10.00 | 4            |       |        | 35.0   | 2         | 8.00  | 2      | 30.1 | 4           |    |        |    |                |    |        |    |              |    |        |  |
| 83                    | 3.6 | 16   |       |                | 57.0   | 3      |       |              |       |        | 35.5   | 3         | 8.80  | 4      | 30.0 | 3           |    |        |    |                |    |        |    |              |    |        |  |
| 85                    | 2.8 | 13   | 8.20  | 3              | < 100  | NR     |       |              | 42.4  | 3      | 37.7   | 4         | 9.64  | 3      | 31.0 | 4           |    |        |    |                |    |        |    |              |    |        |  |
| 86                    | 3.2 | 21   |       |                |        |        | 9.95  | 4            | 45.7  | 4      | 36.8   | 4         | 8.79  | 4      | 31.8 | 3           |    |        |    |                |    |        |    |              |    |        |  |
| 87                    | 1.3 | 18   | 13.00 | 0              |        |        | 9.40  | 4            |       |        | 40.0   | 1         |       |        | 29.2 | 2           |    |        |    |                |    |        |    |              |    |        |  |
| 89                    | 2.9 | 21   | 7.60  | 4              | 64.6   | 4      | 9.00  | 3            |       |        | < 50   | NR        | 8.20  | 2      | 29.5 | 3           |    |        |    |                |    |        |    |              |    |        |  |
| 91                    | 3.5 | 2    |       |                |        |        |       |              |       |        |        |           |       |        |      |             |    |        |    |                |    |        |    |              |    |        |  |
| 96                    | 2.9 | 13   | 8.20  | 3              |        |        | 9.70  | 4            |       |        | < 100  | NR        | 10.00 | 2      |      |             |    |        |    |                |    |        |    |              |    |        |  |
| 97                    | 3.1 | 24   | 6.64  | 3              | 72.7   | 4      | 10.40 | 4            |       |        | 29.2   | 0         | 9.43  | 3      | 29.1 | 2           |    |        |    |                |    |        |    |              |    |        |  |
| 102                   | 1.8 | 23   | 52.00 | 0              | 69.0   | 4      | 6.10  | 0            |       |        | 42.0   | 0         | 8.80  | 4      | 33.0 | 1           |    |        |    |                |    |        |    |              |    |        |  |
| 104                   | 3.0 | 1    |       |                |        |        |       |              |       |        |        |           |       |        |      |             |    |        |    |                |    |        |    |              |    |        |  |
| 105                   | 3.4 | 25   | 6.78  | 3              | 66.0   | 4      | 10.30 | 4            |       |        | 34.8   | 2         | 10.00 | 2      | 30.3 | 4           |    |        |    |                |    |        |    |              |    |        |  |
| 107                   | 3.1 | 11   | 7.40  | 4              | 65.0   | 4      |       |              |       |        | 39.0   | 2         |       |        | 30.9 | 4           |    |        |    |                |    |        |    |              |    |        |  |
| 109                   | 2.5 | 11   |       |                |        |        | 8.50  | 2            |       |        |        |           |       |        | 28.7 | 1           |    |        |    |                |    |        |    |              |    |        |  |
| 113                   | 3.2 | 21   | 6.80  | 3              | 68.1   | 4      | 11.50 | 1            |       |        | 37.0   | 4         | 10.10 | 1      | 33.2 | 1           |    |        |    |                |    |        |    |              |    |        |  |
| 114                   | 1.7 | 7    | < 10  | NR             |        |        |       |              |       |        |        |           | < 10  | NR     | 24.0 | 0           |    |        |    |                |    |        |    |              |    |        |  |
| 118                   | 2.7 | 10   | 6.90  | 3              | < 2000 | NR     | 10.60 | 3            |       |        |        |           |       |        |      |             |    |        |    |                |    |        |    |              |    |        |  |
| 119                   | 2.8 | 26   | 6.90  | 3              | 62.0   | 3      | 9.00  | 3            | 42.0  | 3      | 39.0   | 2         | 8.92  | 4      | 31.7 | 3           |    |        |    |                |    |        |    |              |    |        |  |
| 121                   | 3.1 | 14   |       |                |        |        |       |              |       |        | 36.0   | 3         | 10.00 | 2      | 30.0 | 3           |    |        |    |                |    |        |    |              |    |        |  |
| 128                   | 2.8 | 25   | 7.50  | 4              | 71.0   | 4      | 9.95  | 4            | 40.9  | 3      | 31.9   | 0         | 8.40  | 3      | 32.0 | 2           |    |        |    |                |    |        |    |              |    |        |  |
| 129                   | 1.7 | 9    |       |                |        |        |       |              | 125.0 | 0      |        |           |       |        | 34.0 | 0           |    |        |    |                |    |        |    |              |    |        |  |
| 132                   | 2.1 | 16   |       |                | 73.0   | 4      |       |              | 28.0  | 0      |        |           |       |        | 30.8 | 4           |    |        |    |                |    |        |    |              |    |        |  |

Table 6. Laboratory performance ratings for standard reference water sample T-145 (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 = Ag (Silver) |     |      | Al (Aluminium) |        |        | As (Arsenic) |       |        | B (Boron) |        |      | Ba (Barium) |        |        | Be (Beryllium) |        |      | Ca (Calcium) |    |        |
|-----------------------|-----|------|----------------|--------|--------|--------------|-------|--------|-----------|--------|------|-------------|--------|--------|----------------|--------|------|--------------|----|--------|
| MPV = 7.55            |     |      | µg/L           |        |        | µg/L         |       |        | µg/L      |        |      | µg/L        |        |        | µg/L           |        |      | mg/L         |    |        |
| F-pseudostigma = 0.92 |     |      | 11.0           |        |        | 1.04         |       |        | 5.8       |        |      | 1.9         |        |        | 0.70           |        |      | 1.3          |    |        |
| Lab                   | OLR | V/28 | RV             | Rating | RV     | Rating       | RV    | Rating | RV        | Rating | RV   | Rating      | RV     | Rating | RV             | Rating | RV   | Rating       | RV | Rating |
| 133                   | 2.5 | 14   | 6.10           | 1      |        |              | 7.30  | 0      |           |        |      | 36.4        | 4      | 9.40   | 3              |        | 30.4 | 4            |    |        |
| 134                   | 3.7 | 27   | 6.89           | 3      | 71.7   | 4            | 9.07  | 3      | 47.1      | 4      | 35.6 | 3           | 9.13   | 4      | 31.5           | 3      |      |              |    |        |
| 138                   | 3.3 | 26   | 7.07           | 3      | 64.6   | 4            | 9.51  | 4      | 41.8      | 3      | 36.4 | 4           | 9.22   | 4      | 31.5           | 3      |      |              |    |        |
| 140                   | 1.9 | 13   |                |        |        |              |       |        |           |        |      |             |        |        | 35.0           | 0      |      |              |    |        |
| 141                   | 2.4 | 19   | 12.30          | 0      | < 100  | NR           | 8.65  | 2      | 38.7      | 2      | 38.2 | 3           | 9.07   | 4      | 32.0           | 2      |      |              |    |        |
| 142                   | 2.9 | 28   | 6.60           | 2      | 66.3   | 4            | 9.61  | 4      | 46.6      | 4      | 37.2 | 4           | 9.35   | 4      | 30.1           | 4      |      |              |    |        |
| 144                   | 2.8 | 4    |                |        |        |              | 9.60  | 4      |           |        |      |             | < 0.01 | 0      |                |        |      |              |    |        |
| 145                   | 1.2 | 23   |                |        | 107.2  | 0            | 19.30 | 0      | 44.7      | 4      | 40.8 | 1           | 9.90   | 2      | 32.8           | 1      |      |              |    |        |
| 146                   | 2.5 | 16   | < 10           | NR     | < 200  | NR           | 13.50 | 0      |           |        | 38.5 | 3           | 8.19   | 2      | 29.6           | 3      |      |              |    |        |
| 149                   | 3.0 | 11   | 7.60           | 4      | 60.0   | 3            |       |        |           |        | 40.0 | 1           |        |        |                |        |      |              |    |        |
| 151                   | 3.5 | 19   | 7.64           | 4      | 64.1   | 4            | 9.29  | 3      |           |        | 37.8 | 4           | 8.97   | 4      |                |        |      |              |    |        |
| 155                   | 1.0 | 1    |                |        |        |              |       |        |           |        |      |             |        |        |                |        |      |              |    |        |
| 158                   | 1.9 | 17   |                |        | 71.5   | 4            |       |        | 47.8      | 4      | 38.3 | 3           | 9.90   | 2      | 32.6           | 1      |      |              |    |        |
| 180                   | 3.6 | 18   | 6.30           | 2      | < 40.6 | NR           |       |        | 48.8      | 3      | 36.2 | 4           | 8.70   | 4      | 31.0           | 4      |      |              |    |        |
| 183                   | 0.0 | 1    |                |        |        |              |       |        |           |        |      |             |        |        |                |        |      |              |    |        |
| 190                   | 2.6 | 18   | 8.78           | 2      | 61.7   | 3            | 11.20 | 2      |           |        |      |             |        |        | 30.3           | 4      |      |              |    |        |
| 191                   | 3.4 | 25   |                |        | 68.0   | 4            | 11.20 | 2      | 44.0      | 4      | 38.0 | 4           | 10.00  | 2      | 30.6           | 4      |      |              |    |        |
| 193                   | 1.9 | 12   | 6.00           | 1      |        |              | 8.00  | 1      |           |        |      |             | 9.00   | 4      | 29.4           | 2      |      |              |    |        |
| 196                   | 3.3 | 21   | 7.71           | 4      | 67.2   | 4            | 9.85  | 4      |           |        | 36.3 | 4           | 8.83   | 4      |                |        |      |              |    |        |
| 203                   | 2.3 | 9    |                |        | 60.9   | 3            |       |        |           |        |      |             |        |        | 29.1           | 2      |      |              |    |        |
| 204                   | 2.2 | 13   |                |        | 79.4   | 2            | 11.40 | 2      |           |        | 39.4 | 2           |        |        | 31.7           | 3      |      |              |    |        |
| 212                   | 2.3 | 28   | 6.80           | 3      | 74.0   | 3            | 9.60  | 4      | 52.0      | 2      | 42.0 | 0           | 11.00  | 0      | 31.9           | 3      |      |              |    |        |
| 213                   | 2.9 | 12   | 7.45           | 4      |        |              | 8.60  | 2      |           |        |      |             | 9.12   | 4      |                |        |      |              |    |        |
| 215                   | 2.0 | 24   | 10.00          | 0      | 127.0  | 0            | 11.00 | 2      | 121.0     | 0      | 39.0 | 2           | 8.70   | 4      | 31.7           | 3      |      |              |    |        |
| 217                   | 2.7 | 27   | 6.83           | 3      | 81.9   | 2            | 9.14  | 3      | 45.9      | 4      | 37.1 | 4           | 8.60   | 3      | 26.9           | 0      |      |              |    |        |
| 218                   | 2.6 | 5    |                |        |        |              |       |        |           |        |      |             |        |        | 31.0           | 4      |      |              |    |        |
| 219                   | 2.8 | 19   |                |        | 68.0   | 4            |       |        | 47.0      | 4      | 34.0 | 1           |        |        | 30.0           | 3      |      |              |    |        |
| 220                   | 3.3 | 10   |                |        |        |              | 9.50  | 4      |           |        |      |             |        |        | 31.0           | 4      |      |              |    |        |
| 221                   | 3.3 | 18   | 7.36           | 4      | 68.5   | 4            | 9.31  | 3      |           |        |      |             |        |        | 32.4           | 2      |      |              |    |        |
| 224                   | 1.8 | 19   |                |        | 54.9   | 2            | 8.10  | 1      |           |        | 33.2 | 0           | 13.20  | 0      | 28.5           | 1      |      |              |    |        |
| 234                   | 3.1 | 27   | 7.34           | 4      | 67.0   | 4            | 10.90 | 3      | 44.1      | 4      | 38.3 | 3           | 8.94   | 4      | 31.0           | 4      |      |              |    |        |
| 235                   | 1.8 | 22   | 7.00           | 3      | 52.0   | 2            |       |        | 40.0      | 3      | 40.0 | 1           | 9.00   | 4      | 33.5           | 0      |      |              |    |        |
| 236                   | 2.2 | 25   | 4.70           | 0      | 71.2   | 4            | 42.70 | 0      | 37.4      | 2      | 36.3 | 4           | 8.50   | 3      | 30.2           | 4      |      |              |    |        |
| 240                   | 1.2 | 18   |                |        | 115.0  | 0            |       |        | 34.0      | 1      | 31.0 | 0           |        |        | 28.4           | 1      |      |              |    |        |
| 241                   | 1.6 | 23   | 6.90           | 3      | 54.4   | 2            | 7.40  | 0      |           |        | 44.5 | 0           | 7.20   | 0      | 28.4           | 1      |      |              |    |        |
| 244                   | 0.0 | 1    |                |        |        |              |       |        |           |        |      |             |        |        |                |        |      |              |    |        |
| 245                   | 2.3 | 10   | 5.82           | 1      |        |              |       |        |           |        |      |             | 8.93   | 4      |                |        |      |              |    |        |
| 249                   | 1.8 | 12   | 5.26           | 0      | 77.8   | 3            | 11.00 | 2      |           |        |      |             |        |        |                |        |      |              |    |        |
| 253                   | 0.8 | 4    |                |        |        |              |       |        |           |        |      |             |        |        |                |        |      |              |    |        |
| 255                   | 3.5 | 23   | 7.93           | 4      | 58.1   | 3            | 10.00 | 4      | 46.8      | 4      | 36.8 | 4           | 8.83   | 4      | 30.2           | 4      |      |              |    |        |
| 257                   | 0.7 | 19   | 13.00          | 0      | 50.0   | 1            |       |        |           |        |      |             |        |        | 34.0           | 0      |      |              |    |        |
| 259                   | 1.5 | 13   | 10.50          | 0      |        |              |       |        |           |        | 35.0 | 2           |        |        |                |        |      |              |    |        |
| 261                   | 0.8 | 4    |                |        |        |              |       |        |           |        |      |             |        |        | 30.1           | 3      |      |              |    |        |
| 265                   | 3.5 | 28   | 7.65           | 4      | 66.9   | 4            | 11.00 | 2      | 44.0      | 4      | 38.0 | 4           | 9.15   | 4      | 30.7           | 4      |      |              |    |        |
| 268                   | 2.7 | 3    |                |        |        |              |       |        |           |        |      |             |        |        | 29.5           |        |      |              |    |        |
| 270                   | 0.7 | 3    |                |        |        |              |       |        |           |        |      |             |        |        | 32.5           | 2      |      |              |    |        |
| 271                   | 1.0 | 4    |                |        |        |              |       |        |           |        |      |             |        |        | 32.6           | 1      |      |              |    |        |
| 272                   | 0.8 | 4    |                |        |        |              |       |        |           |        |      |             |        |        | 14.0           | 0      |      |              |    |        |
| 273                   | 0.7 | 18   | 18.00          | 0      | 157.0  | 0            |       |        | 150.0     | 0      |      |             |        |        | 32.4           | 2      |      |              |    |        |
| 274                   | 0.1 | 11   |                |        |        |              |       |        |           |        |      |             |        |        | 0.0            | 0      |      |              |    |        |

Table 6. Laboratory performance ratings for standard reference water sample T-145 (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)

| RV20: Number of reported values of 20 possible values; RV: reported value; 1: less than 1 |       |        |                  |        |                  |        |                   |        |           |        |               |        |              |        |
|---|-------|--------|------------------|--------|------------------|--------|-------------------|--------|-----------|--------|---------------|--------|--------------|--------|
| 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 = 9.33 µg/L   |       |        | 10.0 µg/L        |        | 15.3 µg/L        |        | 11.0 µg/L         |        | 101 µg/L  |        | 2.13 mg/L     |        | 27.3 µg/L    |        |
| F-pseudosigma = 0.82  |       |        | 0.9              |        | 1.4              |        | 1.4               |        | 8         |        | 0.16          |        | 2.5          |        |
| Lab   | RV    | Rating | RV               | Rating | RV               | Rating | RV                | Rating | RV        | Rating | RV            | Rating | RV           | Rating |
| 1   | 9.79  | 3      | 10.0             | 4      | 15.5             | 4      | 11.1              | 4      | 96        | 3      | 2.17          | 4      | 25.5         | 3      |
| 3   | 10.10 | 3      | 6.0              | 0      | 17.0             | 2      | 8.0               | 0      | 120       | 0      | 4.50          | 0      | 33.0         | 0      |
| 4   | 9.50  | 4      | 10.6             | 3      | 15.0             | 4      |                   |        | 102       | 4      |               |        | 36.0         | 0      |
| 5   | 8.90  | 3      | 10.1             | 4      | 15.5             | 4      | 11.8              | 3      | 100       | 4      | 2.12          | 4      | 26.2         | 4      |
| 7   | 13.00 | 0      | 11.4             | 1      | 18.0             | 1      | 13.9              | 1      | 104       | 4      | 2.46          | 1      | 27.5         | 4      |
| 10  |       |        |                  |        | 16.0             | 4      | 10.8              | 4      | 105       | 3      |               |        |              |        |
| 11  | 9.00  | 4      | 11.0             | 2      | 15.0             | 4      | 12.0              | 3      | 90        | 2      | 2.12          | 4      | 44.3         | 0      |
| 13  | 9.44  | 4      | 7.6              | 0      | 16.1             | 3      | 11.3              | 4      | 117       | 1      | 2.08          | 4      |              |        |
| 15  | 17.20 | 0      | < 20             | NR     | 16.1             | 3      | 11.1              | 4      | 92        | 2      | 38.30         | 0      |              |        |
| 16  | 9.10  | 4      | 10.4             | 4      | 13.8             | 2      | 11.4              | 4      | 77        | 0      | 1.60          | 0      | 22.8         | 1      |
| 18  | 9.20  | 4      | 9.9              | 4      | 14.3             | 3      | 12.3              | 3      | 100       | 4      | 2.10          | 4      |              |        |
| 19  |       |        |                  |        |                  |        | 8.0               | 0      |           |        | 2.10          | 4      |              |        |
| 23  | 9.16  | 4      |                  |        | 12.3             | 0      | 11.5              | 4      | < 500     | NR     | 2.09          | 4      |              |        |
| 24  | 7.60  | 0      | 4.8              | 0      |                  |        |                   |        | 98        | 4      | 1.94          | 2      | 27.6         | 4      |
| 25  |       |        |                  |        |                  |        |                   |        | 83        | 0      | 2.31          | 2      | 29.0         | 3      |
| 26  | 10.40 | 2      | 10.4             | 4      | 15.4             | 4      | 11.7              | 4      | 102       | 4      | 2.13          | 4      | 25.5         | 3      |
| 28  | 8.10  | 1      |                  |        |                  |        | 4.6               | 0      |           |        | 2.32          | 2      |              |        |
| 30  | 9.60  | 4      | 10.2             | 4      | 14.3             | 3      | 11.0              | 4      | 230       | 0      |               |        | 24.0         | 2      |
| 32  | 9.18  | 4      | 10.2             | 4      | 14.5             | 3      | 11.3              | 4      | 183       | 0      | 2.10          | 4      | 27.3         | 4      |
| 33  |       |        |                  |        |                  |        |                   |        | 120       | 0      | 2.18          | 4      |              |        |
| 34  |       |        |                  |        |                  |        |                   |        |           |        |               |        |              |        |
| 35  |       |        |                  |        |                  |        |                   |        | 97        | 3      |               |        |              |        |
| 36  | 8.60  | 3      |                  |        | 10.0             | 0      | 19.0              | 0      | 140       | 0      | 1.60          | 0      |              |        |
| 40  | 8.50  | 2      | 7.1              | 0      | 9.5              | 0      | 10.0              | 3      | 95        | 3      | 1.99          | 3      | 25.3         | 3      |
| 42  | 9.00  | 4      | 14.0             | 0      | 18.0             | 1      | 13.0              | 2      | 107       | 3      | 2.30          | 2      | 6.0          | 0      |
| 43  |       |        |                  |        |                  |        |                   |        | 110       | 2      | 2.20          | 4      |              |        |
| 46  | 8.84  | 3      | 10.7             | 3      | 16.4             | 3      | 11.3              | 4      | 101       | 4      | 2.26          | 3      |              |        |
| 48  | 9.20  | 4      | < 50             | NR     | 17.4             | 2      | 11.3              | 4      | 30        | 0      | 2.13          | 4      |              |        |
| 51  |       |        |                  |        |                  |        |                   |        |           |        | 2.16          | 4      |              |        |
| 58  | 37.00 | 0      |                  |        | 17.0             | 2      | < 50              | NR     | 100       | 4      |               |        |              |        |
| 59  | 9.00  | 4      |                  |        | 16.0             | 4      | 10.8              | 4      | 100       | 4      | 1.70          | 0      |              |        |
| 68  | 10.00 | 3      | 11.5             | 1      | 16.5             | 3      | 15.0              | 0      | 105       | 3      | 2.10          | 4      | 2.8          | 0      |
| 69  | 10.40 | 2      |                  |        | 14.2             | 3      | 10.2              | 3      | 108       | 3      | 2.34          | 2      | 28.7         | 3      |
| 70  | 8.60  | 3      | < 50             | NR     | 15.2             | 4      | 11.8              | 3      | 102       | 4      | 1.96          | 2      |              |        |
| 73  | 9.00  | 4      |                  |        | 16.0             | 4      | 11.0              | 4      | 101       | 4      |               |        |              |        |
| 75  | 8.99  | 4      | 10.8             | 3      | 16.1             | 3      | 10.2              | 3      | 98        | 4      |               |        | 27.3         | 4      |
| 76  |       |        |                  |        | 14.8             | 4      |                   |        |           |        |               |        | 27.6         | 4      |
| 80  | < 10  | NR     |                  |        |                  |        | 10.7              | 4      | 99        | 4      |               |        |              |        |
| 81  | 10.00 | 3      | 8.0              | 0      | 16.0             | 4      | 11.0              | 4      | 85        | 1      | 2.03          | 3      |              |        |
| 83  | 8.80  | 3      |                  |        | 15.2             | 4      | 11.8              | 3      | 100       | 4      | 2.20          | 4      |              |        |
| 85  | 7.60  | 0      |                  |        | < 10             | NR     | 12.6              | 2      | 103       | 4      | 2.50          | 0      | 26.2         | 4      |
| 86  | 9.20  | 4      | 10.5             | 3      | 14.7             | 4      | 10.9              | 4      | 103       | 4      | 2.21          | 4      |              |        |
| 87  | 12.00 | 0      |                  |        | 14.4             | 3      | 8.3               | 1      | 128       | 0      | 5.15          | 0      |              |        |
| 89  | 9.46  | 4      | 10.0             | 4      | 17.5             | 1      | 10.2              | 3      | 126       | 0      | 2.01          | 3      |              |        |
| 91  |       |        |                  |        |                  |        |                   |        | 96        | 3      |               |        |              |        |
| 96  | 8.90  | 3      |                  |        | 16.2             | 3      | 12.9              | 2      | 112       | 2      |               |        |              |        |
| 97  | 9.20  | 4      | 9.7              | 4      | 16.2             | 3      | 10.2              | 3      | 102       | 4      | 2.14          | 4      |              |        |
| 102   | 9.90  | 3      | 11.0             | 2      | 16.0             | 4      | 11.0              | 4      | 111       | 2      | 2.00          | 3      |              |        |
| 104   |       |        |                  |        |                  |        |                   |        |           |        |               |        |              |        |
| 105   | 9.86  | 3      | 9.6              | 4      | 15.4             | 4      | 11.4              | 4      | 103       | 4      | 2.08          | 4      | 23.2         | 1      |
| 107   |       |        |                  |        |                  |        | 10.2              | 3      | 90        | 2      | 2.28          | 3      |              |        |
| 109   |       |        |                  |        |                  |        |                   |        | 97        | 4      | 2.20          | 4      | 26.6         | 4      |
| 113   | 9.71  | 4      |                  |        | 15.6             | 4      | 12.2              | 3      | 102       | 4      | 2.12          | 4      |              |        |
| 114   | < 10  | NR     |                  |        | 20.0             | 0      | < 10              | NR     | 100       | 4      | 2.00          | 3      |              |        |
| 118   | 10.60 | 1      |                  |        | 16.5             | 3      | 10.9              | 4      |           |        |               |        |              |        |
| 119   | 9.20  | 4      | 9.4              | 3      | 13.0             | 1      | 10.0              | 3      | 104       | 4      | 1.60          | 0      |              |        |
| 121   | 8.00  | 1      | 10.0             | 4      |                  |        | 11.0              | 4      | 101       | 4      | 2.15          | 4      |              |        |
| 128   | 10.10 | 3      | 11.0             | 2      | 13.0             | 1      | 9.3               | 2      | 91        | 2      | 1.99          | 3      |              |        |
| 129   |       |        |                  |        |                  |        | 30.0              | 0      | 78        | 0      | 2.10          | 4      |              |        |
| 132   | 8.50  | 2      | 9.5              | 3      | 15.5             | 4      | 29.0              | 0      | 129       | 0      | 2.29          | 3      |              |        |

Table 6. Laboratory performance ratings for standard reference water sample T-145 (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 =           | 9.33         | µg/L   | 10.0        | µg/L   | 15.3          | µg/L   | 11.0        | µg/L   | 101       | µg/L   | 2.13          | mg/L   | 27.3         | µg/L   |
| F-pseudosigma = | 0.82         |        | 0.9         |        | 1.4           |        | 1.4         |        | 8         |        | 0.16          |        | 2.5          |        |
| Lab             | RV           | Rating | RV          | Rating | RV            | Rating | RV          | Rating | RV        | Rating | RV            | Rating | RV           | Rating |
| 133             | 10.60        | 1      |             |        | 15.3          | 4      | 8.9         | 1      | 104       | 4      |               |        |              |        |
| 134             | 9.26         | 4      | 10.2        | 4      | 14.6          | 4      | 11.0        | 4      | 100       | 4      | 2.13          | 4      | 27.7         | 4      |
| 138             | 9.08         | 4      | 8.6         | 1      | 10.9          | 0      | 9.8         | 3      | 104       | 4      | 2.10          | 4      |              |        |
| 140             | 9.00         | 4      |             |        | 16.0          | 4      | 14.0        | 0      | 107       | 3      | 2.25          | 3      |              |        |
| 141             | 8.98         | 4      | < 10        | NR     | 12.0          | 0      | 12.7        | 2      | 85        | 1      | 2.17          | 4      |              |        |
| 142             | 9.82         | 3      | 9.7         | 4      | 13.9          | 3      | 10.1        | 3      | 106       | 3      | 1.86          | 1      | 28.0         | 4      |
| 144             |              |        |             |        |               |        | 10.3        | 3      |           |        |               |        |              |        |
| 145             | 11.00        | 1      | 14.6        | 0      | 19.3          | 0      | 19.3        | 0      | 102       | 4      | 2.22          | 3      | 31.3         | 1      |
| 146             | 9.03         | 4      | 9.2         | 3      | 14.5          | 3      | 13.7        | 1      | 99        | 4      | 2.61          | 0      |              |        |
| 149             | 10.00        | 3      |             |        | 17.0          | 2      |             |        | 100       | 4      |               |        |              |        |
| 151             | 9.39         | 4      |             |        | 14.5          | 3      | 11.8        | 3      | 90        | 2      |               |        | 25.5         | 3      |
| 155             |              |        |             |        |               |        |             |        | 113       | 1      |               |        |              |        |
| 158             | 4.60         | 0      | 10.6        | 3      | 13.1          | 1      | 13.8        | 1      | 109       | 2      |               |        |              |        |
| 180             | 10.00        | 3      | 9.7         | 4      | 14.3          | 3      | 10.6        | 4      | 99        | 4      | 2.00          | 3      |              |        |
| 183             |              |        |             |        |               |        |             |        |           |        |               |        |              |        |
| 190             | 10.30        | 2      |             |        | 19.1          | 0      | 11.0        | 4      | 88        | 1      | 2.13          | 4      |              |        |
| 191             | 9.31         | 4      | 10.8        | 3      | 15.4          | 4      | 11.0        | 4      | 98        | 4      | 2.11          | 4      | 31.1         | 1      |
| 193             | 11.00        | 1      |             |        | 15.0          | 4      | < 25        | NR     |           |        | 2.04          | 3      |              |        |
| 196             | 9.39         | 4      | 9.4         | 3      | 13.6          | 2      | 11.2        | 4      |           |        |               |        | 26.6         | 4      |
| 203             |              |        |             |        |               |        | 7.7         | 0      | 96        | 3      | 2.53          | 0      |              |        |
| 204             |              |        |             |        | 19.8          | 0      | 5.4         | 0      | 93        | 2      | 2.12          | 4      |              |        |
| 212             | 11.00        | 1      | 10.0        | 4      | 12.0          | 0      | 14.0        | 0      | 110       | 2      | 2.00          | 3      | 29.0         | 3      |
| 213             | 8.19         | 2      | 10.6        | 3      | 15.4          | 4      | 11.2        | 4      | 105       | 3      |               |        |              |        |
| 215             | 10.00        | 3      | 9.0         | 2      | 14.0          | 3      | 15.0        | 0      | 106       | 3      | 2.20          | 4      |              |        |
| 217             | 7.10         | 0      | 9.5         | 3      | 12.7          | 1      | 11.0        | 4      | 106       | 3      | 1.84          | 1      | 26.3         | 4      |
| 218             |              |        |             |        |               |        |             |        |           |        | 2.07          | 4      |              |        |
| 219             | 8.80         | 3      | 9.3         | 3      | 13.0          | 1      | 9.4         | 2      | 92        | 2      | 2.20          | 4      | 25.0         | 3      |
| 220             |              |        |             |        |               |        |             |        | 98        | 4      | 2.20          | 4      |              |        |
| 221             | 9.63         | 4      | 10.0        | 4      | 15.0          | 4      | 10.6        | 4      | 117       | 1      | 2.22          | 3      |              |        |
| 224             | 5.90         | 0      | 10.1        | 4      |               |        | 13.2        | 1      | 95        | 3      | 1.95          | 2      |              |        |
| 234             | 9.60         | 4      | 10.6        | 3      | 16.9          | 2      | 12.4        | 3      | 102       | 4      | 2.12          | 4      | 30.4         | 2      |
| 235             | 9.80         | 3      | 13.0        | 0      | 15.0          | 4      | 8.5         | 1      | 110       | 2      | 3.50          | 0      |              |        |
| 236             | 7.40         | 0      | 5.6         | 0      | 14.7          | 4      | 8.8         | 1      | 98        | 4      | 2.13          | 4      | 20.6         | 0      |
| 240             | 12.00        | 0      | 5.8         | 0      |               |        | 12.0        | 3      | 83        | 0      |               |        |              |        |
| 241             | 9.80         | 3      |             |        | 14.4          | 3      | 14.9        | 0      | 121       | 0      | 2.06          | 4      |              |        |
| 244             |              |        |             |        |               |        |             |        |           |        |               |        |              |        |
| 245             | 9.35         | 4      |             |        | 13.0          | 1      | 11.2        | 4      |           |        |               |        |              |        |
| 249             | 8.00         | 1      |             |        | 17.6          | 1      | 10.4        | 4      | 41        | 0      | 2.36          | 2      |              |        |
| 253             |              |        |             |        | 20.1          | 0      | 10.0        | 3      | 180       | 0      |               |        |              |        |
| 255             | 9.87         | 3      | 10.5        | 3      | 14.6          | 3      | 10.3        | 4      | 99        | 4      | 2.08          | 4      |              |        |
| 257             | 16.00        | 0      | 19.0        | 0      | 30.0          | 0      | 13.0        | 2      | 81        | 0      | 2.60          | 0      | 28.0         | 4      |
| 259             | 6.00         | 0      | 9.0         | 2      | 14.0          | 3      | 11.0        | 4      |           |        | 2.30          | 2      | 21.0         | 0      |
| 261             |              |        |             |        |               |        |             |        |           |        | 1.76          | 0      |              |        |
| 265             | 10.00        | 3      | 9.5         | 3      | 16.0          | 4      | 11.8        | 3      | 97        | 3      | 2.09          | 4      | 27.4         | 4      |
| 268             |              |        |             |        |               |        |             |        |           |        | 2.55          | 0      |              |        |
| 270             |              |        |             |        |               |        |             |        |           |        | 2.66          | 0      |              |        |
| 271             |              |        |             |        |               |        |             |        |           |        | 2.80          | 0      |              |        |
| 272             |              |        |             |        |               |        |             |        |           |        | 2.00          | 3      |              |        |
| 273             | 17.20        | 0      | 11.0        | 2      | 17.0          | 2      | 5.0         | 0      | 96        | 3      | 2.98          | 0      | 46.0         | 0      |
| 274             | 6.90         | 0      |             |        |               |        | 2.6         | 0      | 147       | 0      | 2.68          | 0      |              |        |

Table 6. Laboratory performance ratings for standard reference water sample T-145 (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 =                    | 8.68  | mg/L           | 20.9 | µg/L            | 9.23  | µg/L        | 41.2 | mg/L        | 11.0 | µg/L      | 12.7 | µg/L          | 8.80  | µg/L   |
| ±pseudosigma =           | 0.45  |                | 1.5  |                 | 1.29  |             | 1.9  |             | 1.3  |           | 1.2  |               | 0.96  |        |
| Lab                      | RV    | Rating         | RV   | Rating          | RV    | Rating      | RV   | Rating      | RV   | Rating    | RV   | Rating        | RV    | Rating |
| 1                        | 8.17  | 2              | 20.3 | 4               | 8.67  | 4           | 40.2 | 3           | 10.9 | 4         | 12.6 | 4             | 8.65  | 4      |
| 3                        | 8.52  | 4              | 17.0 | 0               | 6.00  | 0           | 43.6 | 2           | 7.8  | 0         | 6.0  | 0             | 12.00 | 0      |
| 4                        | 8.70  | 4              | 21.0 | 4               |       |             |      |             | 10.0 | 3         | 13.0 | 4             |       |        |
| 5                        | 8.10  | 2              | 21.0 | 4               | < 10  | NR          | 41.4 | 4           | < 10 | NR        | 13.5 | 3             | < 20  | NR     |
| 7                        | 9.06  | 3              | 21.4 | 4               | < 15  | NR          | 43.3 | 2           | < 20 | NR        | < 55 | NR            | < 30  | NR     |
| 10                       |       |                | 25.0 | 0               |       |             |      |             |      |           | 12.7 | 4             |       |        |
| 11                       | 9.20  | 2              | 21.0 | 4               | 10.00 | 3           | 40.7 | 4           | 10.0 | 3         | 13.0 | 4             | 9.70  | 3      |
| 13                       | 9.07  | 3              | 19.5 | 3               |       |             | 43.7 | 2           | 10.5 | 4         | 13.5 | 3             | 7.80  | 2      |
| 15                       | 8.10  | 2              | 24.0 | 0               | 20.10 | 0           | 38.3 | 1           | 13.0 | 2         | 15.2 | 1             | 9.25  | 4      |
| 16                       | 8.60  | 4              | 21.5 | 4               | 8.90  | 4           | 40.2 | 3           | 13.4 | 1         | 13.4 | 3             | 8.80  | 4      |
| 18                       | 8.60  | 4              | 20.3 | 4               | < 20  | NR          | 40.0 | 3           | < 25 | NR        | 12.7 | 4             | 7.20  | 1      |
| 19                       | 8.80  | 4              |      |                 |       |             | 41.9 | 4           |      |           | 13.2 | 4             |       |        |
| 23                       | 8.72  | 4              | 21.8 | 3               | < 100 | NR          | 38.6 | 2           | 11.8 | 3         | 11.1 | 2             |       |        |
| 24                       | 8.44  | 3              | 19.8 | 3               |       |             | 40.5 | 4           |      |           |      |               |       |        |
| 25                       | 8.40  | 3              | 21.0 | 4               |       |             | 46.0 | 0           |      |           |      |               |       |        |
| 26                       | 9.10  | 3              | 21.5 | 4               | 9.90  | 3           | 42.8 | 3           | 10.8 | 4         | 10.8 | 1             | < 20  | NR     |
| 28                       | 8.90  | 4              | 23.3 | 1               | 6.40  | 0           | 53.1 | 0           | 17.3 | 0         | 9.5  | 0             |       |        |
| 30                       | 9.00  | 3              | 21.0 | 4               | 9.40  | 4           |      |             | 11.5 | 4         | 11.5 | 2             | 9.20  | 4      |
| 32                       | 9.11  | 3              | 20.9 | 4               | 8.18  | 3           | 40.5 | 4           | 11.0 | 4         | 12.6 | 4             | 8.43  | 4      |
| 33                       | 8.95  | 3              | 20.0 | 3               |       |             | 42.2 | 3           |      |           |      |               |       |        |
| 34                       |       |                |      |                 |       |             |      |             |      |           | 13.4 | 3             |       |        |
| 35                       |       |                |      |                 |       |             |      |             |      |           |      |               |       |        |
| 36                       | 7.60  | 0              | 22.0 | 3               |       |             | 38.0 | 1           | 9.0  | 2         | 15.0 | 1             | 6.00  | 0      |
| 40                       | 8.48  | 4              | 18.1 | 1               | 9.90  | 3           | 40.0 | 3           |      |           |      |               |       |        |
| 42                       | 9.30  | 2              | 23.0 | 2               | 10.00 | 3           | 41.0 | 4           | 13.0 | 2         | 6.0  | 0             | 10.00 | 2      |
| 43                       | 8.80  | 4              | 20.0 | 3               |       |             | 43.0 | 3           |      |           |      |               |       |        |
| 46                       | 8.67  | 4              | 20.4 | 4               |       |             | 42.6 | 3           |      |           | 13.7 | 3             | 9.30  | 3      |
| 48                       | 8.89  | 4              | 20.0 | 3               | 9.30  | 4           | 42.7 | 3           | 11.4 | 4         | 13.0 | 4             | 7.60  | 2      |
| 51                       | 16.47 | 0              |      |                 |       |             | 41.0 | 4           |      |           |      |               |       |        |
| 58                       |       |                | < 50 | NR              |       |             |      |             | 70.0 | 0         | 42.0 | 0             |       |        |
| 59                       | 8.50  | 4              | 21.0 | 4               |       |             | 40.0 | 3           | 11.4 | 4         | 12.4 | 4             | 9.30  | 3      |
| 68                       | 9.05  | 3              | 21.5 | 4               | 7.30  | 2           | 43.0 | 3           | 8.5  | 1         | 16.6 | 0             | 7.85  | 3      |
| 69                       | 8.37  | 3              | < 20 | NR              |       |             | 41.2 | 4           | 9.6  | 2         | 12.0 | 3             | 8.15  | 3      |
| 70                       | 8.73  | 4              | 20.6 | 4               | < 50  | NR          | 41.8 | 4           | < 50 | NR        | 12.8 | 4             | 11.40 | 0      |
| 73                       |       |                | 21.0 | 4               |       |             |      |             | 10.0 | 3         | 16.0 | 0             |       |        |
| 75                       | 8.90  | 4              | 20.8 | 4               | < 10  | NR          | 42.5 | 3           | < 20 | NR        | 12.5 | 4             | < 50  | NR     |
| 76                       |       |                |      |                 |       |             |      |             | 11.7 | 3         | 12.1 | 3             |       |        |
| 80                       |       |                | 18.5 | 1               |       |             |      |             |      |           | 11.7 | 3             |       |        |
| 81                       | 8.58  | 4              | 20.0 | 3               |       |             | 40.0 | 3           | 7.0  | 0         | 13.0 | 4             | < 6   | 0      |
| 83                       | 8.45  | 4              | 20.3 | 4               |       |             | 40.4 | 4           | 10.5 | 4         | 12.4 | 4             |       |        |
| 85                       | 8.92  | 3              |      |                 |       |             | 42.1 | 4           | < 10 | NR        | < 50 | NR            |       |        |
| 86                       | 8.67  | 4              | 20.3 | 4               | 17.70 | 0           | 42.8 | 3           | 9.0  | 1         | 13.4 | 3             |       |        |
| 87                       | 8.36  | 3              | 27.0 | 0               | 11.00 | 2           | 39.6 | 3           | 15.3 | 0         | 11.2 | 2             |       |        |
| 89                       | 8.29  | 3              | 20.4 | 4               |       |             | 40.1 | 3           | 11.3 | 4         | 12.1 | 3             | 8.30  | 3      |
| 91                       |       |                | 20.3 | 4               |       |             |      |             |      |           |      |               |       |        |
| 96                       |       |                | 27.0 | 0               |       |             |      |             | 10.5 | 4         | 13.1 | 4             | 8.20  | 3      |
| 97                       | 8.55  | 4              | 24.2 | 0               | 9.58  | 4           | 41.8 | 4           | 10.5 | 4         | 12.7 | 4             | 9.06  | 4      |
| 102                      | 10.30 | 0              | 23.0 | 2               |       |             | 37.0 | 0           | 11.0 | 4         | 15.0 | 1             | < 1   | 0      |
| 104                      |       |                |      |                 |       |             |      |             |      |           |      |               |       |        |
| 105                      | 8.68  | 4              | 19.6 | 3               | 9.38  | 4           | 42.2 | 3           | 10.8 | 4         | 13.8 | 3             | 9.03  | 4      |
| 107                      | 8.91  | 3              | 20.0 | 3               |       |             | 40.2 | 3           |      |           |      |               |       |        |
| 109                      | 8.50  | 4              | 19.3 | 2               | 8.20  | 3           | 41.2 | 4           |      |           | 10.0 | 0             |       |        |
| 113                      | 8.84  | 4              | 21.5 | 4               |       |             | 35.5 | 0           | 11.5 | 4         | 12.2 | 4             |       |        |
| 114                      | 8.00  | 1              | 21.0 | 4               |       |             | 34.0 | 0           | < 10 | NR        | < 10 | NR            |       |        |
| 118                      |       |                |      |                 |       |             |      |             | 13.4 | 1         | 12.5 | 4             |       |        |
| 119                      | 9.10  | 3              | 21.0 | 4               | 8.33  | 3           | 43.1 | 2           | 14.3 | 0         | 11.5 | 2             | 8.10  | 3      |
| 121                      | 8.30  | 3              | 22.0 | 3               |       |             | 39.0 | 2           |      |           |      |               |       |        |
| 128                      | 8.28  | 3              | 18.7 | 2               | 5.50  | 0           | 40.4 | 4           | 11.0 | 4         | 12.9 | 4             | 9.15  | 4      |
| 129                      | 9.00  | 3              | 10.0 | 0               |       |             | 42.0 | 4           |      |           |      |               |       |        |
| 132                      | 8.79  | 4              | 19.0 | 2               | 12.00 | 0           | 42.4 | 3           | 14.0 | 0         | 22.5 | 0             |       |        |

Table 6. Laboratory performance ratings for standard reference water sample T-145 (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 =                    | 8.68 mg/L | 20.9 µg/L      | 9.23 µg/L | 41.2 mg/L       | 11.0 µg/L | 12.7 µg/L   | 8.80 µg/L |             |      |           |        |               |        |        |
| F-pseudosigma =          | 0.45      | 1.5            | 1.29      | 1.9             | 1.3       | 1.2         | 0.96      |             |      |           |        |               |        |        |
| Lab                      | RV        | Rating         | RV        | Rating          | RV        | Rating      | RV        | Rating      | RV   | Rating    | RV     | Rating        | RV     | Rating |
| 133                      | 8.39      | 3              |           |                 |           |             |           |             | 9.9  | 3         | 21.7   | 0             |        |        |
| 134                      | 8.57      | 4              | 21.1      | 4               | 8.68      | 4           | 41.2      | 4           | 10.5 | 4         | 12.6   | 4             | 8.58   | 4      |
| 138                      | 8.88      | 4              | 20.5      | 4               | 8.39      | 3           | 41.6      | 4           | 9.4  | 2         | 12.0   | 3             | 8.80   | 4      |
| 140                      | 9.50      | 1              | 19.0      | 2               |           |             | 48.5      | 0           | 10.0 | 3         | 10.0   | 0             |        |        |
| 141                      | 9.13      | 2              | 20.9      | 4               | < 10      | NR          | 43.0      | 3           | < 20 | NR        | 13.6   | 3             | 5.13   | 0      |
| 142                      | 8.18      | 2              | 22.0      | 3               | 9.31      | 4           | 41.8      | 4           | 11.0 | 4         | 12.7   | 4             | 11.30  | 0      |
| 144                      |           |                |           |                 |           |             |           |             |      |           |        |               |        |        |
| 145                      | 9.28      | 2              | 23.3      | 1               | 7.60      | 2           | 44.2      | 1           | 16.4 | 0         | 115.0  | 0             |        |        |
| 146                      | 8.20      | 2              | 20.6      | 4               | < 10      | NR          | 42.4      | 3           | < 40 | NR        | 15.4   | 0             | < 20   | NR     |
| 149                      |           |                | 22.0      | 3               | 10.00     | 3           |           |             | 10.0 | 3         | 12.0   | 3             |        |        |
| 151                      |           |                | 19.5      | 3               | 9.10      | 4           |           |             | 11.6 | 4         | 12.8   | 4             | 9.04   | 4      |
| 155                      |           |                |           |                 |           |             |           |             |      |           |        |               |        |        |
| 158                      | 9.50      | 1              | 22.7      | 2               |           |             |           |             | 12.5 | 2         | 6.6    | 0             |        |        |
| 180                      | 8.85      | 4              | 20.5      | 4               | 10.50     | 3           | 41.7      | 4           | 11.1 | 4         | < 27.2 | NR            | < 31.4 | NR     |
| 183                      |           |                | 25.2      | 0               |           |             |           |             |      |           |        |               |        |        |
| 190                      | 8.63      | 4              | 22.4      | 2               |           |             | 41.4      | 4           | 11.2 | 4         | 11.1   | 2             |        |        |
| 191                      | 8.99      | 3              | 22.0      | 3               | 9.30      | 4           | 40.1      | 3           | 11.9 | 3         | 12.8   | 4             |        |        |
| 193                      | 8.20      | 2              |           |                 |           |             | 39.2      | 2           | < 50 | NR        | 14.0   | 2             | < 10   | NR     |
| 196                      |           |                | 19.1      | 2               | 8.54      | 3           |           |             | 10.6 | 4         | 12.6   | 4             | 8.21   | 3      |
| 203                      | 8.54      | 4              | 20.0      | 3               |           |             | 39.4      | 3           |      |           |        |               |        |        |
| 204                      |           |                | 16.0      | 0               |           |             | 39.4      | 3           |      |           | 12.3   | 4             |        |        |
| 212                      | 9.40      | 1              | 22.0      | 3               | 8.40      | 3           | 44.4      | 1           | 14.0 | 0         | 18.0   | 0             | 8.60   | 4      |
| 213                      |           |                |           |                 |           |             |           |             | 10.3 | 3         | 13.6   | 3             |        |        |
| 215                      | 8.90      | 4              | 19.7      | 3               | 8.40      | 3           | 42.4      | 3           | 12.0 | 3         | 13.5   | 3             | 14.00  | 0      |
| 217                      | 8.09      | 2              | 19.8      | 3               | 7.20      | 1           | 40.9      | 4           |      |           | 12.5   | 4             | 8.69   | 4      |
| 218                      | 8.45      | 4              |           |                 |           |             | 38.0      | 1           |      |           |        |               |        |        |
| 219                      | 8.60      | 4              |           |                 | 5.00      | 0           | 40.0      | 3           | 9.7  | 3         |        |               |        |        |
| 220                      | 9.00      | 3              | 20.4      | 4               |           |             | 38.0      | 1           |      |           | 12.1   | 3             |        |        |
| 221                      | 8.35      | 3              | 22.4      | 2               | 8.19      | 3           | 41.2      | 4           | 10.2 | 3         | 12.8   | 4             |        |        |
| 224                      | 8.26      | 3              | 22.0      | 3               | 13.00     | 0           | 36.1      | 0           | 10.9 | 4         | 11.0   | 2             |        |        |
| 234                      | 8.51      | 4              | 20.9      | 4               | 10.70     | 2           | 39.2      | 2           | 13.3 | 1         | 14.4   | 2             | 10.50  | 1      |
| 235                      | 9.60      | 0              | 20.0      | 3               | 8.00      | 3           | 48.0      | 0           | 12.0 | 3         |        |               |        |        |
| 236                      | 9.00      | 3              | 20.5      | 4               | < 11      | NR          | 40.3      | 4           | 10.2 | 3         | 5.6    | 0             | 26.10  | 0      |
| 240                      | 8.50      | 4              | 19.0      | 2               |           |             |           |             | 23.0 | 0         | 27.0   | 0             | 14.00  | 0      |
| 241                      | 7.40      | 0              | 23.0      | 2               | 11.40     | 1           | 37.0      | 0           | 10.5 | 4         | 16.4   | 0             | 8.30   | 3      |
| 244                      |           |                | 30.7      | 0               |           |             |           |             |      |           |        |               |        |        |
| 245                      |           |                | 25.0      | 0               | 12.20     | 0           |           |             | 10.7 | 4         | 14.6   | 1             |        |        |
| 249                      |           |                |           |                 |           |             | 42.1      | 4           | 8.7  | 1         | 13.7   | 3             |        |        |
| 253                      |           |                |           |                 |           |             |           |             |      |           |        |               |        |        |
| 255                      | 8.62      | 4              | 20.8      | 4               | 9.23      | 4           | 40.2      | 3           | 11.7 | 3         | 13.1   | 4             | 11.93  | 0      |
| 257                      | 7.40      | 0              | 17.0      | 0               | 72.00     | 0           | 40.0      | 3           | 14.0 | 0         | 49.0   | 0             | 2.00   | 0      |
| 259                      |           |                |           |                 |           |             | 42.0      | 4           | 16.0 | 0         | 10.0   | 0             |        |        |
| 261                      | 10.80     | 0              |           |                 |           |             | 45.9      | 0           |      |           |        |               |        |        |
| 265                      | 8.70      | 4              | 22.6      | 2               | 9.00      | 4           | 40.6      | 4           | 10.0 | 3         | 12.4   | 4             | 9.00   | 4      |
| 268                      | 8.65      | 4              |           |                 |           |             | 41.0      | 4           |      |           |        |               |        |        |
| 270                      |           |                |           |                 |           |             | 49.4      | 0           |      |           |        |               |        |        |
| 271                      | 25.15     | 0              |           |                 |           |             | 40.0      | 3           |      |           |        |               |        |        |
| 272                      | 6.06      | 0              |           |                 |           |             | 50.0      | 0           |      |           |        |               |        |        |
| 273                      | 9.60      | 0              | 25.1      | 0               |           |             | 44.9      | 1           | 12.0 | 3         | 7.0    | 0             |        |        |
| 274                      | 0.00      | 0              | 8.0       | 0               |           |             | 22.4      | 0           |      |           | 1.3    | 0             |        |        |

Table 6. Laboratory performance ratings for standard reference water sample T-145 (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)   |     |                   |      |             |       |              |      |           |       |        |
| V2O5, number of reported values of 20 possible values, RV, reported value, 4, less than) |      |                  |      |                  |     |                   |      |             |       |              |      |           |       |        |
| Analyte = Se (Selenium)  |      | SiO2 (Silica)    |      | Sr (Strontium)   |     | Tl (Thallium)     |      | U (Uranium) |       | V (Vanadium) |      | Zn (Zinc) |       |        |
| MPV = 10.1 µg/L  |      | 11.3 mg/L        |      | 203 µg/L         |     | 15.3 µg/L         |      | 1.10 µg/L   |       | 11.7 µg/L    |      | 10.0 µg/L |       |        |
| F-pseudosigma = 1.3  |      | 0.7              |      | 9                |     | 2.7               |      | 0.04        |       | 1.7          |      | 2.4       |       |        |
| Lab  | RV   | Rating           | RV   | Rating           | RV  | Rating            | RV   | Rating      | RV    | Rating       | RV   | Rating    | RV    | Rating |
| 1  | 10.0 | 4                | 10.6 | 2                | 198 | 3                 | 16.7 | 3           | 1.06  | 2            | 12.0 | 4         | 11.4  | 3      |
| 3  | < 10 | NR               | 5.7  | 0                | 207 | 4                 | < 10 | NR          |       |              | 6.0  | 0         | 7.0   | 2      |
| 4  |      |                  | 11.4 | 4                | 205 | 4                 |      |             |       |              |      |           | 14.0  | 1      |
| 5  | 10.0 | 4                | 11.1 | 4                | 205 | 4                 |      |             |       |              | 12.4 | 4         | 9.7   | 4      |
| 7  | < 50 | NR               | 11.6 | 4                | 203 | 4                 |      |             | < 120 | NR           | 12.6 | 3         | 11.0  | 4      |
| 10   | 9.0  | 3                |      |                  |     |                   |      |             |       |              |      |           | 16.0  | 0      |
| 11   | 12.6 | 1                | 8.9  | 0                | 202 | 4                 | 20.0 | 1           |       |              | 11.0 | 4         |       |        |
| 13   | 8.2  | 2                | 11.2 | 4                |     |                   | 15.8 | 4           |       |              | < 50 | NR        | 9.9   | 4      |
| 15   | 12.1 | 1                | 12.3 | 2                |     |                   | 11.6 | 2           |       |              | < 10 | NR        | < 5   | 0      |
| 16   | 10.0 | 4                |      |                  | 184 | 0                 | 16.0 | 4           | 1.20  | 0            | 15.0 | 1         | 9.4   | 4      |
| 18   | 10.1 | 4                |      |                  | 200 | 4                 | 13.8 | 3           |       |              | 11.2 | 4         | < 100 | NR     |
| 19   |      |                  |      |                  |     |                   |      |             |       |              |      |           |       |        |
| 23   | 9.3  | 3                |      |                  |     |                   | < 5  | 0           |       |              |      |           | < 20  | NR     |
| 24   |      |                  | 11.6 | 4                | 204 | 4                 |      |             |       |              |      |           | 10.2  | 4      |
| 25   |      |                  | 12.7 | 1                | 215 | 2                 |      |             |       |              |      |           |       |        |
| 26   | 8.8  | 3                | 11.5 | 4                |     |                   |      |             |       |              | 12.5 | 4         | 9.2   | 4      |
| 28   |      |                  |      |                  | 207 | 4                 |      |             |       |              | 14.6 | 1         | 6.0   | 1      |
| 30   | 11.0 | 3                |      |                  |     |                   |      |             | 1.20  | 0            | 11.4 | 4         | 9.6   | 4      |
| 32   | 10.3 | 4                | 11.4 | 4                | 203 | 4                 | 15.6 | 4           |       |              | 11.8 | 4         | 10.0  | 4      |
| 33   |      |                  | 10.9 | 3                | 200 | 4                 |      |             |       |              |      |           |       |        |
| 34   | 10.2 | 4                |      |                  |     |                   |      |             |       |              |      |           |       |        |
| 35   |      |                  |      |                  |     |                   |      |             |       |              |      |           |       |        |
| 36   | 8.0  | 1                |      |                  |     |                   | 8.0  | 0           |       |              |      |           | 16.0  | 0      |
| 40   |      |                  |      |                  | 169 | 0                 |      |             |       |              | 10.4 | 3         |       |        |
| 42   | 13.0 | 0                | 12.1 | 2                | 201 | 4                 | 9.0  | 0           |       |              | 15.0 | 1         | 10.0  | 4      |
| 43   |      |                  | 11.0 | 4                |     |                   |      |             |       |              |      |           |       |        |
| 46   | 9.5  | 4                |      |                  |     |                   | 16.2 | 4           |       |              | 10.4 | 3         |       |        |
| 48   | 8.6  | 2                |      |                  |     |                   | 12.1 | 2           |       |              | 9.5  | 2         | < 5   | NR     |
| 51   |      |                  |      |                  |     |                   |      |             |       |              |      |           |       |        |
| 58   | < 10 | NR               |      |                  |     |                   |      |             |       |              |      |           | < 50  | NR     |
| 59   | 11.0 | 3                |      |                  | 200 | 4                 | 15.5 | 4           |       |              |      |           | 10.0  | 4      |
| 68   | 6.9  | 0                |      |                  | 210 | 3                 |      |             |       |              | 9.9  | 2         | 10.5  | 4      |
| 69   | 10.2 | 4                |      |                  |     |                   | 16.4 | 4           |       |              |      |           | < 50  | NR     |
| 70   | 11.0 | 3                | 10.9 | 3                | 206 | 4                 | 13.3 | 3           |       |              | < 50 | NR        | < 20  | NR     |
| 73   | 33.0 | 0                |      |                  |     |                   |      |             |       |              |      |           | 13.0  | 2      |
| 75   | 10.1 | 4                |      |                  |     |                   |      |             | < 100 | NR           | 11.5 | 4         | 11.0  | 4      |
| 76   |      |                  | 12.2 | 2                |     |                   | 11.2 | 1           |       |              |      |           | 4.8   | 0      |
| 80   | 9.3  | 3                |      |                  |     |                   |      |             |       |              |      |           | 8.0   | 3      |
| 81   |      |                  | 11.5 | 4                | 175 | 0                 | 84.0 | 0           |       |              | 9.0  | 1         | 9.8   | 4      |
| 83   |      |                  | 10.4 | 2                |     |                   |      |             |       |              |      |           |       |        |
| 85   |      |                  |      |                  | 214 | 2                 |      |             |       |              | < 20 | NR        |       |        |
| 86   | 11.6 | 2                |      |                  | 196 | 3                 |      |             |       |              | 13.1 | 3         | 11.8  | 3      |
| 87   | 19.2 | 0                | 11.8 | 3                |     |                   |      |             |       |              |      |           | 16.3  | 0      |
| 89   | 9.3  | 3                | 10.7 | 3                |     |                   | < 10 | NR          |       |              | 14.2 | 2         | 13.8  | 1      |
| 91   |      |                  |      |                  |     |                   |      |             |       |              |      |           |       |        |
| 96   | 10.0 | 4                |      |                  |     |                   |      |             |       |              |      |           | 11.0  | 4      |
| 97   | 8.8  | 3                | 11.3 | 4                | 169 | 0                 | 16.7 | 3           |       |              | 14.0 | 2         | < 4.6 | NR     |
| 102  | 13.0 | 0                |      |                  | 239 | 0                 | 19.0 | 2           |       |              | 10.0 | 3         | 8.8   | 3      |
| 104  |      |                  | 10.7 | 3                |     |                   |      |             |       |              |      |           |       |        |
| 105  | 11.3 | 3                | 10.9 | 3                | 194 | 2                 |      |             |       |              | 11.1 | 4         | 9.0   | 4      |
| 107  |      |                  | 11.9 | 3                |     |                   |      |             |       |              |      |           |       |        |
| 109  |      |                  |      |                  | 183 | 0                 |      |             |       |              |      |           |       |        |
| 113  | 9.5  | 4                | 11.0 | 4                | 203 | 4                 | 13.1 | 3           |       |              |      |           | 8.5   | 3      |
| 114  |      |                  |      |                  |     |                   |      |             |       |              |      |           | < 10  | NR     |
| 118  | 9.6  | 4                | 11.4 | 4                |     |                   |      |             |       |              |      |           | 15.0  | 0      |
| 119  | 10.0 | 4                | 12.0 | 2                |     |                   | 15.9 | 4           | 1.07  | 3            | 10.3 | 3         | 10.0  | 4      |
| 121  |      |                  | 11.3 | 4                | 195 | 3                 |      |             |       |              |      |           | 12.0  | 3      |
| 128  | 11.2 | 3                | 11.8 | 3                |     |                   | 15.3 | 4           |       |              | 10.2 | 3         | 10.1  | 4      |
| 129  |      |                  | 11.5 | 4                |     |                   |      |             |       |              |      |           |       |        |
| 132  |      |                  |      |                  |     |                   |      |             |       |              |      |           | 9.0   | 4      |

Table 6. Laboratory performance ratings for standard reference water sample T-145 (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 =                   | 10.1   | µg/L   | 11.3          | mg/L   | 203            | µg/L   | 15.3          | µg/L   | 1.10        | µg/L   | 11.7         | µg/L   | 10.0      | µg/L   |
| F-pseudosigma =         | 1.3    |        | 0.7           |        | 9              |        | 2.7           |        | 0.04        |        | 1.7          |        | 2.4       |        |
| Lab                     | RV     | Rating | RV            | Rating | RV             | Rating | RV            | Rating | RV          | Rating | RV           | Rating | RV        | Rating |
| 133                     | 10.8   | 3      |               |        |                |        |               |        |             |        |              |        | 10.1      | 4      |
| 134                     | 10.7   | 4      | 11.2          | 4      | 196            | 3      | 16.9          | 3      |             |        | 10.7         | 3      | 11.7      | 3      |
| 138                     | 9.6    | 4      | 10.8          | 3      | 198            | 3      | 15.0          | 4      |             |        | 11.0         | 4      | 8.0       | 3      |
| 140                     |        |        | 11.2          | 4      |                |        |               |        |             |        |              |        | 14.0      | 1      |
| 141                     | 9.3    | 3      |               |        |                |        | < 50          | NR     |             |        | 12.7         | 3      | 9.9       | 4      |
| 142                     | 10.8   | 3      | 12.8          | 0      | 212            | 2      | 16.7          | 3      | 0.86        | 0      | 10.7         | 3      | 8.4       | 3      |
| 144                     | 10.0   | 4      |               |        |                |        |               |        |             |        |              |        |           |        |
| 145                     |        |        | 12.5          | 1      | 216            | 1      |               |        |             |        | 17.0         | 0      | 13.0      | 2      |
| 146                     | < 10   | NR     |               |        |                |        | 14.0          | 4      |             |        | 11.5         | 4      | < 20      | NF     |
| 149                     | 10.0   | 4      |               |        |                |        |               |        |             |        |              |        |           |        |
| 151                     | 11.2   | 3      |               |        | 208            | 3      | 16.0          | 4      |             |        |              |        | 8.9       | 4      |
| 155                     |        |        |               |        |                |        |               |        |             |        |              |        |           |        |
| 158                     |        |        | 12.4          | 1      |                |        |               |        |             |        | 12.5         | 4      | 7.2       | 2      |
| 180                     | < 50.1 | NR     |               |        |                |        | < 32.1        | NR     |             |        | 12.0         | 4      | 9.5       | 4      |
| 183                     |        |        |               |        |                |        |               |        |             |        |              |        |           |        |
| 190                     | 11.0   | 3      | 11.9          | 3      | 390            | 0      |               |        |             |        |              |        | 13.3      | 2      |
| 191                     | 12.0   | 2      | 11.1          | 4      | 203            | 4      | 15.8          | 4      |             |        | 12.0         | 4      | 8.5       | 3      |
| 193                     | 8.0    | 1      |               |        |                |        | 9.0           | 0      |             |        |              |        | < 50      | NF     |
| 196                     | 11.1   | 3      |               |        | 194            | 2      | 15.3          | 4      | 1.12        | 3      | 10.2         | 3      | 14.5      | 1      |
| 203                     |        |        | 10.8          | 3      |                |        |               |        |             |        |              |        |           |        |
| 204                     |        |        | 11.4          | 4      |                |        |               |        |             |        |              |        | 7.2       | 2      |
| 212                     | 11.0   | 3      | 11.8          | 3      | 210            | 3      | 16.0          | 4      | 1.10        | 4      | 12.0         | 4      | 12.0      | 3      |
| 213                     |        |        |               |        |                |        | 12.4          | 2      |             |        |              |        | 14.0      | 1      |
| 215                     | 5.0    | 0      | 11.3          | 4      |                |        | < 7           | 0      |             |        |              |        | 0.0       | 0      |
| 217                     | 10.2   | 4      | 9.9           | 1      | 193            | 2      | 15.2          | 4      | 1.10        | 4      | 8.9          | 1      | 7.9       | 3      |
| 218                     |        |        |               |        | 229            | 0      |               |        |             |        |              |        |           |        |
| 219                     |        |        | 10.8          | 3      | 210            | 3      |               |        |             |        | 10.0         | 3      | 11.0      | 4      |
| 220                     | 8.6    | 2      |               |        |                |        |               |        |             |        |              |        | 10.0      | 4      |
| 221                     | 9.7    | 4      |               |        |                |        |               |        |             |        |              |        | 11.3      | 3      |
| 224                     | 10.5   | 4      |               |        |                |        |               |        |             |        | 18.8         | 0      | 10.2      | 4      |
| 234                     | 9.6    | 4      | 11.0          | 4      | 206            | 4      | 10.9          | 1      |             |        | 11.0         | 4      | 6.7       | 2      |
| 235                     |        |        | 12.6          | 1      | 208            | 3      | 7.9           | 0      |             |        | 15.0         | 1      | 8.3       | 3      |
| 236                     | 128.3  | 0      | 7.0           | 0      | 199            | 4      |               |        |             |        | 12.1         | 4      | 8.6       | 3      |
| 240                     | 18.0   | 0      | 10.5          | 2      | 197            | 3      | 10.0          | 1      |             |        |              |        | 11.0      | 4      |
| 241                     | 7.0    | 0      | 11.8          | 3      |                |        | 15.9          | 4      |             |        | 13.0         | 3      | 5.0       | 0      |
| 244                     |        |        |               |        |                |        |               |        |             |        |              |        |           |        |
| 245                     |        |        |               |        |                |        |               |        |             |        |              |        | 9.3       | 4      |
| 249                     |        |        |               |        |                |        |               |        |             |        |              |        | 0.6       | 0      |
| 253                     |        |        |               |        |                |        |               |        |             |        |              |        | 20.0      | 0      |
| 255                     | 8.1    | 2      |               |        |                |        |               |        |             |        | 11.6         | 4      | 9.7       | 4      |
| 257                     |        |        |               |        |                |        |               |        |             |        | 39.0         | 0      | 9.0       | 4      |
| 259                     | 8.7    | 2      |               |        |                |        |               |        |             |        |              |        | 66.0      | 0      |
| 261                     |        |        |               |        |                |        |               |        |             |        |              |        |           |        |
| 265                     | 12.4   | 1      | 10.1          | 1      | 200            | 4      | 15.0          | 4      | 1.10        | 4      | 12.0         | 4      | 10.5      | 4      |
| 268                     |        |        |               |        |                |        |               |        |             |        |              |        |           |        |
| 270                     |        |        |               |        |                |        |               |        |             |        |              |        |           |        |
| 271                     |        |        |               |        |                |        |               |        |             |        |              |        |           |        |
| 272                     |        |        |               |        |                |        |               |        |             |        |              |        |           |        |
| 273                     |        |        | 227.0         | 0      |                |        |               |        |             |        |              |        | 20.0      | 0      |
| 274                     |        |        | 19.2          | 0      |                |        |               |        |             |        |              |        | 5.8       | 1      |

Table 7. Laboratory performance ratings for standard reference water sample M-140 (major constituents)

(MPV, most probable value; mg/L, micrograms per liter; mg/L, milligrams per liter;  $\mu$ S/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     |        |
|----------------------|-----|------|-----|--------|-----------|--------|--------------|--------|---------------|--------|----------|--------|
| MPV = 114 mg/L       |     |      |     |        | 41.6 µg/L |        | 60.7 mg/L    |        | 25.8 mg/L     |        | 382 mg/L |        |
| F-pseudosigma = 3    |     |      |     |        | 5.2       |        | 3.1          |        | 1.4           |        | 16       |        |
| Lab                  | OLR | V/16 | RV  | Rating | RV        | Rating | RV           | Rating | RV            | Rating | RV       | Rating |
| 1                    | 3.5 | 16   | 115 | 4      | 43.6      | 4      | 56.3         | 2      | 24.7          | 3      | 370      | 3      |
| 2                    | 1.5 | 10   | 106 | 0      |           |        |              |        | 27.7          | 2      |          |        |
| 3                    | 1.9 | 16   | 116 | 3      | 43.0      | 4      | 67.5         | 0      | 26.7          | 3      | 370      | 3      |
| 4                    | 4.0 | 2    |     |        |           |        |              |        | 26.0          | 4      |          |        |
| 5                    | 3.4 | 13   | 113 | 4      | 44.5      | 3      | 59.8         | 4      | 24.8          | 3      | 386      | 4      |
| 7                    | 2.2 | 6    | 117 | 3      |           |        |              |        | 24.1          | 2      |          |        |
| 10                   | 3.5 | 13   | 116 | 3      | 60.0      | 0      | 59.2         | 4      | 26.3          | 4      | 386      | 4      |
| 11                   | 1.7 | 12   | 116 | 3      |           |        | 2.9          | 0      | 26.7          | 3      | 358      | 1      |
| 13                   | 2.7 | 12   | 108 | 0      |           |        | 65.4         | 1      | 24.8          | 3      | 388      | 4      |
| 15                   | 1.8 | 12   | 96  | 0      | < 50      | NR     | 53.2         | 0      | 26.4          | 4      | 367      | 3      |
| 16                   | 2.5 | 15   | 113 | 3      | 61.6      | 0      | 58.6         | 3      | 28.9          | 0      | 372      | 3      |
| 18                   | 2.9 | 14   | 108 | 0      | < 50      | NR     | 60.1         | 4      | 27.0          | 3      | 397      | 3      |
| 19                   | 3.0 | 10   | 115 | 4      |           |        | 60.3         | 4      | 25.0          | 3      | 374      | 4      |
| 22                   | 4.0 | 1    |     |        |           |        |              |        |               |        |          |        |
| 23                   | 2.7 | 14   | 111 | 2      |           |        | 65.3         | 2      | 26.2          | 4      | 371      | 3      |
| 24                   | 3.7 | 13   | 115 | 4      | 38.2      | 3      | 59.8         | 4      | 25.6          | 4      |          |        |
| 25                   | 2.5 | 12   | 116 | 3      |           |        | 64.4         | 2      | 24.6          | 3      | 368      | 3      |
| 26                   | 3.4 | 13   | 114 | 4      | 35.3      | 2      | 61.1         | 4      | 26.2          | 4      | 378      | 4      |
| 28                   | 2.3 | 7    |     |        | 35.0      | 2      | 61.5         | 4      |               |        |          |        |
| 30                   | 3.2 | 5    |     |        |           |        | 63.0         | 3      | 25.2          | 4      |          |        |
| 32                   | 2.9 | 14   | 116 | 3      |           |        | 61.3         | 4      | 26.9          | 3      | 372      | 3      |
| 33                   | 3.4 | 11   | 113 | 3      |           |        | 59.2         | 4      | 24.3          | 2      |          |        |
| 36                   | 1.8 | 11   | 115 | 4      |           |        | 56.0         | 2      | 26.0          | 4      | 410      | 1      |
| 38                   | 3.3 | 10   | 116 | 4      |           |        | 58.1         | 3      |               |        | 378      | 4      |
| 39                   | 2.6 | 7    | 100 | 0      |           |        |              |        | 30.0          | 0      |          |        |
| 40                   | 2.9 | 13   | 113 | 4      |           |        | 53.6         | 0      | 26.9          | 3      | 378      | 4      |
| 42                   | 1.8 | 12   | 140 | 0      | 21.0      | 0      | 63.3         | 3      | 35.8          | 0      |          |        |
| 43                   | 3.7 | 11   | 115 | 4      |           |        | 61.0         | 4      | 26.0          | 4      | 386      | 4      |
| 46                   | 2.6 | 12   | 113 | 4      | 21.5      | 0      | 58.8         | 3      | 26.6          | 3      |          |        |
| 48                   | 2.2 | 12   | 112 | 3      | 20.0      | 0      | 62.2         | 4      | 24.0          | 2      |          |        |
| 50                   | 3.2 | 13   | 118 | 2      | 51.0      | 1      | 63.0         | 3      | 25.0          | 3      | 382      | 4      |
| 51                   | 2.8 | 8    | 116 | 3      |           |        |              |        | 27.8          | 2      |          |        |
| 55                   | 2.6 | 12   | 108 | 0      |           |        | 59.2         | 4      | 25.8          | 4      | 380      | 4      |
| 56                   | 2.3 | 9    | 119 | 2      |           |        | 61.8         | 4      | 23.5          | 1      |          |        |
| 57                   | 2.2 | 13   | 120 | 1      | < 100     | NR     | 63.0         | 3      | 25.0          | 3      | 390      | 4      |
| 59                   | 2.3 | 12   | 117 | 3      |           |        | 68.0         | 0      | 24.0          | 2      | 371      | 3      |
| 64                   | 3.4 | 7    |     |        |           |        |              |        | 26.3          | 4      |          |        |
| 68                   | 2.5 | 13   | 116 | 3      | 145.0     | 0      | 63.0         | 3      | 26.5          | 4      |          |        |
| 69                   | 2.6 | 10   | 118 | 2      |           |        | 58.8         | 3      | 26.2          | 4      | 401      | 2      |
| 70                   | 3.5 | 13   | 115 | 4      | < 50      | NR     | 61.4         | 4      | 25.8          | 4      | 385      | 4      |
| 75                   | 3.7 | 10   | 114 | 4      | 40.9      | 4      | 58.2         | 3      | 26.1          | 4      | 398      | 3      |
| 76                   | 2.6 | 5    | 108 | 0      |           |        |              |        | 27.9          | 2      | 398      | 3      |
| 80                   | 1.8 | 12   | 112 | 3      |           |        | 66.0         | 1      | 25.0          | 3      | 411      | 1      |
| 81                   | 3.4 | 14   | 115 | 4      |           |        | 59.9         | 4      | 23.9          | 2      | 424      | 0      |
| 83                   | 3.0 | 9    | 113 | 3      |           |        | 58.4         | 3      | 25.2          | 4      |          |        |
| 85                   | 3.1 | 12   | 111 | 2      | 40.6      | 4      | 62.1         | 4      | 25.0          | 3      | 378      | 4      |
| 86                   | 3.3 | 9    |     |        | 44.1      | 4      | 62.6         | 3      |               |        |          |        |
| 87                   | 1.8 | 12   | 120 | 1      |           |        | 56.0         | 2      | 29.0          | 0      | 348      | 0      |
| 89                   | 3.0 | 13   | 114 | 4      |           |        | 58.3         | 3      | 25.0          | 3      | 394      | 3      |
| 90                   | 1.0 | 4    | 103 | 0      |           |        | 58.4         | 3      |               |        | 410      | 1      |
| 92                   | 3.8 | 6    | 113 | 4      |           |        |              |        |               |        | 374      | 4      |
| 96                   | 3.3 | 7    | 115 | 4      |           |        |              |        | 24.9          | 3      | 402      | 2      |
| 97                   | 2.7 | 14   | 117 | 3      |           |        | 57.9         | 3      | 25.7          | 4      | 406      | 1      |
| 102                  | 1.5 | 10   |     |        |           |        | 60.4         | 4      | 25.5          | 4      |          |        |
| 105                  | 2.9 | 14   | 111 | 2      |           |        | 61.0         | 4      | 25.2          | 4      | 365      | 2      |
| 107                  | 3.5 | 11   | 114 | 4      |           |        | 58.0         | 3      | 27.2          | 3      |          |        |
| 109                  | 2.8 | 11   | 122 | 0      |           |        | 58.7         | 3      | 23.3          | 1      | 387      | 4      |
| 113                  | 2.9 | 14   | 115 | 4      |           |        | 66.0         | 1      | 24.9          | 3      | 396      | 3      |
| 114                  | 3.6 | 8    | 115 | 4      |           |        |              |        | 25.0          | 3      | 375      | 4      |
| 118                  | 2.7 | 6    | 115 | 4      |           |        |              |        |               |        | 398      | 3      |
| 119                  | 3.2 | 14   | 110 | 2      | 43.0      | 4      | 61.1         | 4      | 24.7          | 3      | 370      | 3      |
| 121                  | 4.0 | 6    |     |        |           |        | 60.0         | 4      |               |        |          |        |
| 127                  | 3.4 | 14   | 116 | 3      | 39.4      | 4      |              |        | 26.4          | 4      | 387      | 4      |
| 128                  | 3.3 | 12   | 116 | 3      | 33.1      | 1      | 62.0         | 4      | 25.4          | 4      |          |        |
| 129                  | 2.6 | 14   | 118 | 2      | 55.0      | 0      | 62.0         | 4      | 25.0          | 3      | 379      | 4      |

Table 7. Laboratory performance ratings for standard reference water sample M-140 (major constituents)—Continued

(MPV, most probable value; mg/L, micrograms per liter; mg/L, milligrams per liter;  $\mu$ S/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     |        |
|----------------------|-----|------|-----|--------|----------------|--------|--------------|--------|---------------|--------|----------|--------|
| MPV = 114 mg/L       |     |      |     |        | 41.6 $\mu$ g/L |        | 60.7 mg/L    |        | 25.8 mg/L     |        | 382 mg/L |        |
| F-pseudosigma = 3    |     |      |     |        | 5.2            |        | 3.1          |        | 1.4           |        | 16       |        |
| Lab                  | OLR | V/16 | RV  | Rating | RV             | Rating | RV           | Rating | RV            | Rating | RV       | Rating |
| 132                  | 3.1 | 9    | 114 | 4      | 42.5           | 4      | 58.8         | 3      |               |        |          |        |
| 133                  | 2.8 | 6    | 115 | 4      |                |        | 59.7         | 4      | 19.6          | 0      |          |        |
| 134                  | 3.3 | 15   | 136 | 0      | 42.3           | 4      | 61.1         | 4      | 26.8          | 3      | 397      | 3      |
| 138                  | 3.8 | 15   | 114 | 4      | 37.6           | 3      | 62.0         | 4      | 25.9          | 4      | 368      | 3      |
| 140                  | 2.5 | 11   |     |        |                |        | 62.5         | 3      | 26.8          | 3      | 377      | 4      |
| 141                  | 3.3 | 12   | 116 | 3      | 37.5           | 3      | 63.3         | 3      | 25.6          | 4      | 376      | 4      |
| 142                  | 2.8 | 16   | 116 | 3      | 41.0           | 4      | 59.0         | 3      | 25.2          | 4      | 393      | 3      |
| 143                  | 3.6 | 5    | 113 | 4      |                |        |              |        | 26.4          | 4      | 398      | 3      |
| 145                  | 2.9 | 15   | 99  | 0      | 48.3           | 2      | 62.8         | 3      | 24.9          | 3      |          |        |
| 146                  | 2.8 | 11   | 114 | 4      |                |        | 56.9         | 2      | 27.0          | 3      | 374      | 4      |
| 149                  | 3.2 | 6    | 114 | 4      |                |        |              |        | 27.0          | 3      |          |        |
| 151                  | 3.0 | 13   | 114 | 4      |                |        | 61.2         | 4      | 25.0          | 3      | 378      | 4      |
| 155                  | 3.3 | 8    | 117 | 3      |                |        | 60.7         | 4      |               |        | 397      | 3      |
| 158                  | 3.5 | 8    | 111 | 2      |                |        |              |        | 24.9          | 3      | 388      | 4      |
| 180                  | 2.8 | 12   | 111 | 2      | 44.5           | 3      | 60.4         | 4      | 24.6          | 3      |          |        |
| 183                  | 1.7 | 3    |     |        |                |        |              |        | 28.2          | 1      |          |        |
| 190                  | 2.4 | 14   | 115 | 4      |                |        | 58.6         | 3      | 28.7          | 0      | 0        | 0      |
| 191                  | 3.0 | 11   | 118 | 2      |                |        | 59.1         | 4      | 26.1          | 4      |          |        |
| 193                  | 3.0 | 3    | 114 | 4      |                |        |              |        |               |        |          |        |
| 196                  | 2.7 | 3    |     |        |                |        |              |        | 23.2          | 1      |          |        |
| 203                  | 2.2 | 6    | 105 | 0      |                |        |              |        | 24.1          | 2      |          |        |
| 204                  | 3.0 | 8    | 111 | 2      |                |        | 59.8         | 4      | 25.3          | 4      |          |        |
| 212                  | 2.7 | 16   | 112 | 3      | 45.0           | 3      | 62.9         | 3      | 26.2          | 4      | 354      | 1      |
| 213                  | 3.0 | 4    | 112 | 3      |                |        |              |        | 26.9          | 3      |          |        |
| 215                  | 2.8 | 14   | 112 | 3      | 40.0           | 4      | 62.0         | 4      | 24.0          | 2      | 375      | 4      |
| 217                  | 1.6 | 14   | 117 | 3      | 40.6           | 4      | 50.6         | 0      | 25.9          | 4      | 381      | 4      |
| 218                  | 1.6 | 8    | 106 | 0      |                |        | 55.7         | 1      |               |        |          |        |
| 219                  | 2.7 | 9    |     |        | 44.0           | 4      | 58.0         | 3      |               |        |          |        |
| 220                  | 3.3 | 7    | 112 | 3      |                |        | 60.0         | 4      | 26.8          | 3      |          |        |
| 221                  | 3.1 | 8    |     |        |                |        | 66.4         | 1      | 25.4          | 4      | 396      | 3      |
| 224                  | 1.6 | 13   | 104 | 0      |                |        | 65.9         | 1      | 27.6          | 2      | 380      | 4      |
| 234                  | 3.5 | 16   | 112 | 3      | 39.0           | 3      | 60.6         | 4      | 24.0          | 2      | 382      | 4      |
| 235                  | 1.1 | 9    |     |        | 38.0           | 3      | 66.5         | 1      |               |        |          |        |
| 236                  | 2.9 | 15   | 114 | 4      | 40.4           | 4      | 59.6         | 4      | 29.0          | 0      | 385      | 4      |
| 240                  | 3.0 | 12   | 112 | 3      | 58.7           | 0      | 59.4         | 4      | 23.9          | 2      | 380      | 4      |
| 241                  | 2.3 | 14   | 116 | 4      |                |        | 63.0         | 3      | 22.0          | 0      | 284      | 0      |
| 243                  | 2.7 | 3    |     |        |                |        |              |        |               |        |          |        |
| 244                  | 4.0 | 3    | 115 | 4      |                |        |              |        |               |        |          |        |
| 247                  | 2.3 | 6    | 4   | 0      |                |        |              |        | 25.7          | 4      |          |        |
| 249                  | 1.8 | 9    | 107 | 0      |                |        | 65.2         | 2      | 30.6          | 0      |          |        |
| 253                  | 2.0 | 5    |     |        |                |        |              |        | 24.2          | 2      | 404      | 2      |
| 255                  | 3.1 | 14   | 113 | 4      | 22.4           | 0      | 60.6         | 4      | 26.3          | 4      | 384      | 4      |
| 256                  | 1.6 | 9    | 107 | 0      | < 20           | NR     | 63.2         | 3      | 28.2          | 1      |          |        |
| 257                  | 2.0 | 13   | 115 | 4      |                |        | 68.0         | 0      | 26.0          | 4      | 395      | 3      |
| 258                  | 1.4 | 11   | 124 | 0      |                |        | 67.0         | 1      | 32.2          | 0      |          |        |
| 259                  | 3.1 | 15   | 114 | 4      | 85.0           | 0      | 59.6         | 4      | 25.0          | 3      | 384      | 4      |
| 261                  | 1.0 | 9    | 120 | 1      |                |        | 64.6         | 2      | 23.5          | 1      |          |        |
| 262                  | 1.9 | 11   | 108 | 0      |                |        | 63.0         | 3      | 25.7          | 4      |          |        |
| 265                  | 3.3 | 13   | 136 | 0      | 43.0           | 4      | 61.0         | 4      | 25.5          | 4      |          |        |
| 268                  | 2.0 | 9    | 118 | 2      |                |        | 53.9         | 0      | 25.6          | 4      |          |        |
| 270                  | 0.0 | 3    |     |        |                |        | 53.1         | 0      |               |        |          |        |
| 271                  | 1.1 | 8    |     |        |                |        | 63.1         | 3      | 27.0          | 3      |          |        |
| 272                  | 0.4 | 9    | 310 | 0      |                |        | 27.3         | 0      | 42.5          | 0      |          |        |
| 273                  | 1.1 | 12   | 124 | 0      | 70.0           | 0      | 63.0         | 3      | 27.0          | 3      |          |        |
| 274                  | 0.4 | 12   | 229 | 0      |                |        | 40.4         | 0      | 41.3          | 0      |          |        |
| 276                  | 0.7 | 6    | 117 | 2      |                |        | 63.9         | 2      | 35.5          | 0      |          |        |

Table 7. Laboratory performance ratings for standard reference water sample M-140 (major constituents)—Continued

(MPV, most probable value; mg/L, micrograms per liter; mg/L, milligrams per liter;  $\mu$ S/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 = 0.530 mg/L       |       |        | 2.58 mg/L     |        |      | 18.0 mg/L      |      |        | 39.0 mg/L   |        |    | 0.032 mg/L              |    |        |
| F-pseudosigma = 0.037  |       |        | 0.14          |        |      | 1.0            |      |        | 1.9         |        |    | 0.011                   |    |        |
| Lab                    | RV    | Rating | RV            | Rating | RV   | Rating         | RV   | Rating | RV          | Rating | RV | Rating                  | RV | Rating |
| 1                      | 0.560 | 3      | 2.57          | 4      | 17.4 | 3              | 38.2 | 4      | 0.030       | 4      |    |                         |    |        |
| 2                      | 0.590 | 1      | 2.10          | 0      | 17.0 | 2              | 35.0 | 0      | 0.052       | 1      |    |                         |    |        |
| 3                      | 0.599 | 1      | 2.43          | 2      | 20.6 | 0              | 34.5 | 0      | 0.030       | 4      |    |                         |    |        |
| 4                      |       |        |               |        |      |                |      |        |             |        |    |                         |    |        |
| 5                      |       |        | 2.37          | 2      | 17.1 | 3              | 39.6 | 4      |             |        |    |                         |    |        |
| 7                      | 0.680 | 0      |               |        |      |                |      |        |             |        |    |                         |    |        |
| 10                     | 0.520 | 4      | 2.58          | 4      | 18.4 | 4              | 38.8 | 4      |             |        |    |                         |    |        |
| 11                     | 0.500 | 3      |               |        | 0.5  | 0              | 1.5  | 0      | 0.045       | 2      |    |                         |    |        |
| 13                     | 0.510 | 3      | 2.30          | 1      | 19.0 | 2              | 41.2 | 2      |             |        |    |                         |    |        |
| 15                     | 0.521 | 4      | 2.36          | 1      | 16.0 | 0              | 34.5 | 0      | < 0.05      | NR     |    |                         |    |        |
| 16                     | 0.544 | 4      | 2.50          | 3      | 17.8 | 4              | 38.5 | 4      | 0.051       | 1      |    |                         |    |        |
| 18                     | 0.510 | 3      | 2.20          | 0      | 18.0 | 4              | 39.0 | 4      | 0.027       | 4      |    |                         |    |        |
| 19                     |       |        | 2.60          | 4      | 18.4 | 4              | 41.2 | 2      |             |        |    |                         |    |        |
| 22                     |       |        |               |        |      |                |      |        | 0.032       | 4      |    |                         |    |        |
| 23                     | 0.556 | 3      | 2.68          | 3      | 18.0 | 4              | 34.8 | 0      | 0.034       | 4      |    |                         |    |        |
| 24                     | 0.560 | 3      | 2.45          | 3      | 18.1 | 4              | 38.8 | 4      |             |        |    |                         |    |        |
| 25                     | 0.510 | 3      |               |        | 19.2 | 2              | 42.7 | 1      |             |        |    |                         |    |        |
| 26                     | 0.570 | 2      | 2.68          | 3      | 19.2 | 2              | 40.9 | 3      |             |        |    |                         |    |        |
| 28                     |       |        | 2.32          | 1      | 18.2 | 4              | 42.7 | 1      |             |        |    |                         |    |        |
| 30                     |       |        |               |        | 17.0 | 2              |      |        |             |        |    |                         |    |        |
| 32                     | 0.431 | 0      | 2.53          | 4      | 20.0 | 0              | 39.5 | 4      | 0.050       | 1      |    |                         |    |        |
| 33                     |       |        | 2.62          | 4      | 17.8 | 4              | 38.2 | 4      |             |        |    |                         |    |        |
| 36                     | 0.467 | 1      | 2.10          | 0      | 17.0 | 2              | 35.0 | 0      |             |        |    |                         |    |        |
| 38                     |       |        | 2.62          | 4      | 18.1 | 4              | 34.4 | 0      | 0.032       | 4      |    |                         |    |        |
| 39                     | 0.540 | 4      |               |        |      |                |      |        | 0.034       | 4      |    |                         |    |        |
| 40                     | 0.506 | 3      | 2.64          | 4      | 16.8 | 2              | 37.1 | 3      |             |        |    |                         |    |        |
| 42                     |       |        | 2.70          | 3      | 19.3 | 2              | 39.2 | 4      |             |        |    |                         |    |        |
| 43                     |       |        | 2.60          | 4      | 19.0 | 2              | 40.0 | 3      |             |        |    |                         |    |        |
| 46                     | 0.523 | 4      | 2.25          | 0      | 17.2 | 3              | 39.6 | 4      |             |        |    |                         |    |        |
| 48                     | 0.690 | 0      | 2.58          | 4      | 18.3 | 4              | 39.8 | 4      | 0.070       | 0      |    |                         |    |        |
| 50                     | 0.530 | 4      | 2.50          | 3      | 18.0 | 4              | 40.0 | 3      |             |        |    |                         |    |        |
| 51                     |       |        | 2.56          | 4      | 11.0 | 0              | 38.8 | 4      |             |        |    |                         |    |        |
| 55                     | 0.520 | 4      |               |        | 19.4 | 2              |      |        | 0.024       | 3      |    |                         |    |        |
| 56                     |       |        | 3.02          | 0      | 19.3 | 2              | 50.8 | 0      |             |        |    |                         |    |        |
| 57                     | 0.520 | 4      | 3.20          | 0      | 20.0 | 0              | 36.0 | 1      | 0.040       | 3      |    |                         |    |        |
| 59                     | 0.550 | 3      | < 5           | NR     | 20.5 | 0              | 44.5 | 0      | 0.040       | 3      |    |                         |    |        |
| 64                     |       |        | 2.68          | 3      |      |                | 37.9 | 3      | 0.030       | 4      |    |                         |    |        |
| 68                     |       |        | 2.90          | 0      | 18.0 | 4              | 40.5 | 3      | 0.052       | 1      |    |                         |    |        |
| 69                     | 0.580 | 2      | 2.82          | 1      | 17.5 | 3              | 38.6 | 4      |             |        |    |                         |    |        |
| 70                     | 0.580 | 2      | 2.48          | 3      | 18.1 | 4              | 39.4 | 4      | < 0.1       | NR     |    |                         |    |        |
| 75                     |       |        |               |        | 18.4 | 4              | 38.4 | 4      |             |        |    |                         |    |        |
| 76                     | 0.542 | 4      |               |        |      |                |      |        |             |        |    |                         |    |        |
| 80                     | 0.510 | 3      | 2.00          | 0      | 17.0 | 2              | 37.0 | 2      |             |        |    |                         |    |        |
| 81                     | 0.538 | 4      | 2.53          | 4      | 18.2 | 4              | 39.1 | 4      | 0.028       | 4      |    |                         |    |        |
| 83                     | 0.650 | 0      | 2.60          | 4      | 17.2 | 3              | 38.1 | 4      | < 100       | NR     |    |                         |    |        |
| 85                     |       |        | 2.95          | 0      | 18.3 | 4              | 39.8 | 4      |             |        |    |                         |    |        |
| 86                     |       |        | 2.64          | 4      | 18.1 | 4              | 41.2 | 2      |             |        |    |                         |    |        |
| 87                     |       |        | 2.47          | 3      | 17.2 | 3              | 37.3 | 3      | 0.028       | 4      |    |                         |    |        |
| 89                     | 0.084 | 0      | 2.38          | 2      | 18.2 | 4              | 38.2 | 4      | 0.029       | 4      |    |                         |    |        |
| 90                     |       |        |               |        |      |                |      |        |             |        |    |                         |    |        |
| 92                     |       |        |               |        |      |                |      |        | 0.027       | 4      |    |                         |    |        |
| 96                     | 0.525 | 4      |               |        |      |                |      |        |             |        |    |                         |    |        |
| 97                     | 0.495 | 3      | 2.60          | 4      | 18.0 | 4              | 40.1 | 3      | < 0.002     | 0      |    |                         |    |        |
| 102                    |       |        | 2.30          | 1      | 19.9 | 1              | 33.2 | 0      | 0.007       | 0      |    |                         |    |        |
| 105                    | 0.550 | 3      | 2.61          | 4      | 18.8 | 3              | 40.8 | 3      | 0.019       | 2      |    |                         |    |        |
| 107                    | 0.527 | 4      | 2.75          | 2      | 17.7 | 4              | 39.6 | 4      | 0.028       | 4      |    |                         |    |        |
| 109                    | 0.590 | 1      | 2.56          | 4      | 17.6 | 4              | 38.6 | 4      |             |        |    |                         |    |        |
| 113                    | 0.525 | 4      | 2.77          | 2      | 19.9 | 1              | 35.9 | 1      | 0.028       | 4      |    |                         |    |        |
| 114                    | 0.530 | 4      |               |        |      |                |      |        | 0.031       | 4      |    |                         |    |        |
| 118                    |       |        |               |        |      |                |      |        | 0.020       | 2      |    |                         |    |        |
| 119                    | 0.530 | 4      | 2.50          | 3      | 18.6 | 3              | 39.9 | 4      | 0.030       | 4      |    |                         |    |        |
| 121                    |       |        | 2.56          | 4      | 17.7 | 4              | 38.9 | 4      |             |        |    |                         |    |        |
| 127                    | 0.476 | 2      | 2.53          | 4      | 18.6 | 3              | 39.0 | 4      | < 0.01      | NR     |    |                         |    |        |
| 128                    | 0.520 | 4      | 2.58          | 4      | 17.2 | 3              | 38.1 | 4      |             |        |    |                         |    |        |
| 129                    | 0.645 | 0      | 2.50          | 3      | 18.0 | 4              | 37.0 | 2      | 0.027       | 4      |    |                         |    |        |

Table 7. Laboratory performance ratings for standard reference water sample M-140 (major constituents)—Continued

(MPV, most probable value; mg/L, micrograms per liter; mg/L, milligrams per liter;  $\mu$ S/cm, microsiemens per centimeter; Lab, laboratory number; OLR, over:ll 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 = 0.530 mg/L       |       |        | 2.58 mg/L     |        | 18.0 mg/L      |        | 39.0 mg/L   |        | 0.032 mg/L              |        |
| F-pseudosigma = 0.037  |       |        | 0.14          |        | 1.0            |        | 1.9         |        | 0.011                   |        |
| Lab                    | RV    | Rating | RV            | Rating | RV             | Rating | RV          | Rating | RV                      | Rating |
| 132                    |       |        | 2.66          | 3      | 17.8           | 4      | 39.3        | 4      | 0.030                   | 4      |
| 133                    |       |        |               |        | 16.9           | 2      |             |        | 0.028                   | 4      |
| 134                    | 0.590 | 1      | 2.54          | 4      | 17.9           | 4      | 39.3        | 4      | 0.030                   | 4      |
| 138                    | 0.531 | 4      | 2.59          | 4      | 18.5           | 3      | 39.7        | 4      | 0.032                   | 4      |
| 140                    | 0.441 | 0      | 2.58          | 4      | 18.5           | 3      | 49.0        | 0      | < 0.02                  | NR     |
| 141                    | 0.570 | 2      | 2.57          | 4      | 18.8           | 3      | 40.6        | 3      | < 0.05                  | NR     |
| 142                    | 0.603 | 1      | 2.30          | 1      | 17.8           | 4      | 39.6        | 4      | 0.020                   | 2      |
| 143                    |       |        |               |        |                |        |             |        | 0.033                   | 4      |
| 145                    | 0.460 | 1      | 2.54          | 4      | 17.8           | 4      | 41.1        | 2      | 0.035                   | 4      |
| 146                    | 0.557 | 3      | 3.22          | 0      | 17.6           | 4      | 42.2        | 1      | < 0.1                   | NR     |
| 149                    | 0.530 | 4      |               |        |                |        |             |        |                         |        |
| 151                    | 0.510 | 3      | 2.68          | 3      | 18.1           | 4      | 42.6        | 1      |                         |        |
| 155                    |       |        |               |        | 18.3           | 4      |             |        | 0.029                   | 4      |
| 158                    | 0.540 | 4      |               |        |                |        |             |        | 0.041                   | 3      |
| 180                    |       |        | 2.42          | 2      | 18.4           | 4      | 39.9        | 4      | 0.052                   | 1      |
| 183                    |       |        |               |        |                |        |             |        |                         |        |
| 190                    | 0.521 | 4      | 2.58          | 4      | 17.8           | 4      | 39.3        | 4      | 0.050                   | 1      |
| 191                    |       |        | 2.56          | 4      | 18.4           | 4      | 38.5        | 4      | 0.034                   | 4      |
| 193                    |       |        |               |        |                |        |             |        |                         |        |
| 196                    | 0.525 | 4      |               |        |                |        |             |        |                         |        |
| 203                    |       |        |               |        |                |        |             |        |                         |        |
| 204                    |       |        |               |        | 1.1            | 0      |             |        |                         |        |
| 212                    | 0.510 | 3      | 2.50          | 3      | 19.7           | 1      | 42.4        | 1      | 0.043                   | 3      |
| 213                    |       |        |               |        |                |        |             |        | 0.020                   | 2      |
| 215                    | 0.500 | 3      | 2.80          | 1      | 18.6           | 3      | 41.5        | 2      | 0.040                   | 3      |
| 217                    | 0.420 | 0      | 4.20          | 0      | 15.6           | 0      | 34.8        | 0      |                         |        |
| 218                    |       |        | 2.41          | 2      | 17.7           | 4      | 36.0        | 1      |                         |        |
| 219                    |       |        | 2.80          | 1      | 19.0           | 2      | 39.0        | 4      |                         |        |
| 220                    |       |        | 2.60          | 4      | 18.0           | 4      | 36.0        | 1      |                         |        |
| 221                    |       |        | 2.61          | 4      | 18.1           | 4      | 39.8        | 4      |                         |        |
| 224                    | 0.920 | 0      | 3.10          | 0      | 22.8           | 0      | 41.1        | 2      | 0.030                   | 4      |
| 234                    | 0.485 | 2      | 2.64          | 4      | 17.6           | 4      | 39.2        | 4      | 0.030                   | 4      |
| 235                    |       |        | 4.15          | 0      | 19.4           | 2      | 48.3        | 0      | 0.050                   | 1      |
| 236                    |       |        | 2.31          | 1      | 19.2           | 2      | 38.2        | 4      | 0.040                   | 3      |
| 240                    | 0.535 | 4      |               |        | 17.6           | 4      |             |        | 0.022                   | 3      |
| 241                    | 0.590 | 1      | 2.56          | 4      | 14.0           | 0      | 37.0        | 2      | 0.032                   | 4      |
| 243                    |       |        |               |        |                |        |             |        | 0.030                   | 4      |
| 244                    |       |        |               |        |                |        |             |        |                         |        |
| 247                    | 0.510 | 3      |               |        |                |        |             |        |                         |        |
| 249                    |       |        | 2.68          | 3      |                |        | 39.1        | 4      | 0.050                   | 1      |
| 253                    |       |        |               |        |                |        |             |        |                         |        |
| 255                    | 0.556 | 3      | 2.62          | 4      | 18.2           | 4      | 38.7        | 4      |                         |        |
| 256                    |       |        | 3.91          | 0      | 16.6           | 2      | 37.0        | 2      |                         |        |
| 257                    | 0.560 | 3      | 3.30          | 0      | 9.8            | 0      | 39.0        | 4      | 0.100                   | 0      |
| 258                    | 0.510 | 3      | 2.75          | 2      | 16.6           | 2      | 37.5        | 3      | 0.143                   | 0      |
| 259                    | 0.500 | 3      | 2.50          | 3      | 17.0           | 2      | 39.0        | 4      | 0.040                   | 3      |
| 261                    |       |        | 2.35          | 1      | 17.4           | 3      | 45.9        | 0      |                         |        |
| 262                    | 0.502 | 3      | 2.83          | 1      | 21.4           | 0      | 37.5        | 3      |                         |        |
| 265                    | 0.520 | 4      | 2.52          | 4      | 17.8           | 4      | 38.1        | 4      |                         |        |
| 268                    |       |        | 2.85          | 1      | 17.5           | 3      | 40.8        | 3      |                         |        |
| 270                    |       |        | 3.21          | 0      |                |        | 46.9        | 0      |                         |        |
| 271                    |       |        | 2.50          | 3      | 10.4           | 0      | 34.0        | 0      |                         |        |
| 272                    | 2.000 | 0      | 3.00          | 0      | 13.3           | 0      | 50.0        | 0      |                         |        |
| 273                    | 0.430 | 0      | 2.80          | 1      | 20.7           | 0      | 44.2        | 0      | 0.710                   | 0      |
| 274                    | 0.760 | 0      | 3.08          | 0      | 30.8           | 0      | 20.6        | 0      | 0.141                   | 0      |
| 276                    |       |        |               |        | 16.0           | 0      |             |        |                         |        |

Table 7. Laboratory performance ratings for standard reference water sample M-140 (major constituents)—Continued

(MPV, most probable value; mg/L, micrograms per liter; mg/L, milligrams per liter;  $\mu$ S/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 <sub>2</sub> (Silica) |        | SO <sub>4</sub> (Sulfate) |        | Sp Cond   |        | Sr (Strontium) |        | V (Vanadium) |        |
|-----------------------|------|--------|---------------------------|--------|---------------------------|--------|-----------|--------|----------------|--------|--------------|--------|
| MPV = 8.28            |      |        | 7.35 mg/L                 |        | 150 mg/L                  |        | 600 μS/cm |        | 671 μg/L       |        | 3.42 μg/L    |        |
| F-pseudostigma = 0.17 |      |        | 0.46                      |        | 7                         |        | 19        |        | 31             |        | 3.01         |        |
| Lab                   | RV   | Rating | RV                        | Rating | RV                        | Rating | RV        | Rating | RV             | Rating | RV           | Rating |
| 1                     | 8.21 | 4      | 6.89                      | 3      | 150                       | 4      | 600       | 4      | 666            | 4      | 1.40         | 3      |
| 2                     | 8.04 | 2      |                           |        | 152                       | 4      | 586       | 3      |                |        |              |        |
| 3                     | 7.83 | 0      | 8.43                      | 0      | 142                       | 2      | 608       | 4      | 784            | 0      | 3.00         | 4      |
| 4                     |      |        |                           |        | 152                       | 4      |           |        |                |        |              |        |
| 5                     | 8.17 | 3      | 7.08                      | 3      | 151                       | 4      | 612       | 3      | 670            | 4      | < 4          | NR     |
| 7                     | 8.20 | 4      |                           |        | 155                       | 3      | 571       | 1      |                |        |              |        |
| 10                    | 8.42 | 3      | 7.30                      | 4      | 151                       | 4      | 606       | 4      |                |        |              |        |
| 11                    | 8.26 | 4      |                           |        | 5                         | 0      | 597       | 4      | 17             | 0      |              |        |
| 13                    | 8.36 | 4      | 7.37                      | 4      | 150                       | 4      | 608       | 4      |                |        | < 50         | NR     |
| 15                    | 8.11 | 2      | 7.97                      | 2      | 140                       | 2      | 599       | 4      |                |        | < 10         | NR     |
| 16                    | 8.10 | 2      |                           |        | 143                       | 2      | 598       | 4      | 628            | 2      | 5.19         | 3      |
| 18                    | 8.25 | 4      | 7.44                      | 4      | 148                       | 4      | 563       | 1      | 650            | 3      | < 5          | NR     |
| 19                    | 8.55 | 1      |                           |        | 149                       | 4      | 666       | 0      |                |        |              |        |
| 22                    |      |        |                           |        |                           |        |           |        |                |        |              |        |
| 23                    | 8.28 | 4      | 7.75                      | 3      | 158                       | 2      | 568       | 1      | 693            | 3      | < 5          | NR     |
| 24                    | 8.20 | 4      | 7.76                      | 3      | 150                       | 4      | 600       | 4      | 676            | 4      |              |        |
| 25                    | 8.36 | 4      | 11.04                     | 0      | 148                       | 4      | 607       | 4      | 730            | 1      |              |        |
| 26                    | 8.33 | 4      | 7.53                      | 4      | 150                       | 4      | 606       | 4      |                |        | < 4          | NR     |
| 28                    |      |        |                           |        |                           |        |           |        | 671            | 4      | 10.20        | 0      |
| 30                    | 8.40 | 3      |                           |        | 150                       | 4      |           |        |                |        |              |        |
| 32                    | 8.40 | 3      | 7.50                      | 4      | 146                       | 3      | 601       | 4      | 679            | 4      |              |        |
| 33                    | 8.28 | 4      | 7.10                      | 3      | 147                       | 4      | 571       | 1      | 685            | 4      |              |        |
| 36                    | 8.33 | 4      |                           |        | 160                       | 2      | 70        | 0      |                |        |              |        |
| 38                    | 8.40 | 3      | 7.29                      | 4      |                           |        | 612       | 3      |                |        |              |        |
| 39                    | 8.40 | 3      |                           |        | 150                       | 4      | 584       | 3      |                |        |              |        |
| 40                    | 8.35 | 4      | 7.18                      | 4      | 119                       | 0      | 608       | 4      | 650            | 3      |              |        |
| 42                    | 7.90 | 0      | 8.00                      | 2      | 197                       | 0      | 604       | 4      | 656            | 4      | < 5          | NR     |
| 43                    | 8.21 | 4      | 7.50                      | 4      | 150                       | 4      | 600       | 4      |                |        |              |        |
| 46                    | 8.38 | 3      | 7.04                      | 3      | 185                       | 0      | 599       | 4      |                |        |              |        |
| 48                    | 8.00 | 1      |                           |        | 104                       | 0      | 608       | 4      |                |        | < 200        | NR     |
| 50                    | 8.31 | 4      | 7.30                      | 4      | 149                       | 4      | 622       | 2      |                |        |              |        |
| 51                    | 8.29 | 4      |                           |        | 156                       | 3      | 580       | 2      |                |        |              |        |
| 55                    | 8.00 | 1      | 7.36                      | 4      | 133                       | 0      | 625       | 2      | 644            | 3      |              |        |
| 56                    | 8.35 | 4      |                           |        | 149                       | 4      | 597       | 4      |                |        |              |        |
| 57                    | 8.20 | 4      | 7.40                      | 4      | 140                       | 2      | 660       | 0      |                |        | < 100        | NR     |
| 59                    | 8.40 | 3      | 7.70                      | 3      | 148                       | 4      | 588       | 3      |                |        |              |        |
| 64                    | 8.38 | 3      |                           |        | 151                       | 4      | 613       | 3      |                |        |              |        |
| 68                    | 8.38 | 3      | 7.05                      | 3      |                           |        | 608       | 4      | 675            | 4      | 50.00        | 0      |
| 69                    | 8.40 | 3      |                           |        | 158                       | 2      |           |        |                |        |              |        |
| 70                    | 8.28 | 4      | 7.10                      | 3      | 146                       | 3      | 587       | 3      | 673            | 4      | < 50         | NR     |
| 75                    | 8.27 | 4      |                           |        | 153                       | 4      | 610       | 3      |                |        |              |        |
| 76                    | 8.26 | 4      |                           |        |                           |        |           |        |                |        |              |        |
| 80                    | 8.17 | 3      | 5.50                      | 0      | 130                       | 0      | 600       | 4      |                |        |              |        |
| 81                    | 8.37 | 3      | 7.24                      | 4      | 145                       | 3      | 600       | 4      | 662            | 4      | < 3          | NR     |
| 83                    |      |        | 6.76                      | 2      | 151                       | 4      |           |        |                |        |              |        |
| 85                    | 8.37 | 3      | 7.32                      | 4      | 148                       | 4      |           |        | 718            | 1      | < 20         | NR     |
| 86                    | 8.35 | 4      |                           |        |                           |        | 624       | 2      | 666            | 4      | 5.73         | 3      |
| 87                    | 7.95 | 1      | 7.18                      | 4      | 127                       | 0      | 320       | 0      |                |        |              |        |
| 89                    | 8.39 | 3      | 6.80                      | 2      | 148                       | 4      | 589       | 3      |                |        | < 10         | NR     |
| 90                    |      |        |                           |        |                           |        | 552       | 0      |                |        |              |        |
| 92                    | 8.14 | 3      |                           |        | 147                       | 4      | 597       | 4      |                |        |              |        |
| 96                    | 8.34 | 4      |                           |        | 145                       | 3      | 618       | 3      |                |        |              |        |
| 97                    | 8.37 | 3      | 7.37                      | 4      | 153                       | 4      | 625       | 2      | 578            | 0      | < 0          | NR     |
| 102                   |      |        | 6.66                      | 2      | 143                       | 2      | 719       | 0      | 732            | 1      |              |        |
| 105                   | 8.34 | 4      | 7.45                      | 4      | 140                       | 2      | 615       | 3      | 554            | 0      | < 13         | NR     |
| 107                   | 8.49 | 2      | 7.21                      | 4      |                           |        | 591       | 4      |                |        |              |        |
| 109                   | 8.42 | 3      |                           |        | 155                       | 3      | 591       | 4      |                |        |              |        |
| 113                   | 8.32 | 4      | 7.34                      | 4      | 154                       | 3      | 590       | 3      | 680            | 4      |              |        |
| 114                   | 8.07 | 2      |                           |        | 152                       | 4      | 608       | 4      |                |        |              |        |
| 118                   | 7.90 | 0      | 7.47                      | 4      |                           |        | 590       | 3      |                |        |              |        |
| 119                   | 8.50 | 2      | 7.00                      | 3      | 143                       | 2      | 597       | 4      |                |        |              |        |
| 121                   |      |        | 7.12                      | 4      |                           |        |           |        | 678            | 4      |              |        |
| 127                   | 8.31 | 4      | 7.21                      | 4      | 159                       | 2      | 595       | 4      | 631            | 2      | 1.40         | 3      |
| 128                   | 8.43 | 3      | 7.79                      | 3      | 155                       | 3      | 615       | 3      |                |        |              |        |
| 129                   | 7.99 | 1      | 7.95                      | 2      | 150                       | 4      | 582       | 3      |                |        |              |        |

Table 7. Laboratory performance ratings for standard reference water sample M-140 (major constituents)—Continued

(MPV, most probable value; mg/L, micrograms per liter; mg/L, milligrams per liter;  $\mu\text{S}/\text{cm}$ , 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 <sub>2</sub> (Silica) |        | SO <sub>4</sub> (Sulfate) |        | Sp Cond   |        | Sr (Strontium) |        | V (Vanadium) |        |
|----------------------|------|--------|---------------------------|--------|---------------------------|--------|-----------|--------|----------------|--------|--------------|--------|
| MPV = 8.28           |      |        | 7.35 mg/L                 |        | 150 mg/L                  |        | 600 μS/cm |        | 671 μg/L       |        | 3.42 μg/L    |        |
| F-pseudosigma = 0.17 |      |        | 0.46                      |        | 7                         |        | 19        |        | 31             |        | 3.01         |        |
| Lab                  | RV   | Rating | RV                        | Rating | RV                        | Rating | RV        | Rating | RV             | Rating | RV           | Rating |
| 132                  | 8.05 | 2      |                           |        |                           |        | 457       | 0      |                |        |              |        |
| 133                  | 8.15 | 3      |                           |        |                           |        |           |        |                |        |              |        |
| 134                  | 8.44 | 3      | 7.47                      | 4      | 152                       | 4      | 606       | 4      | 654            | 3      | < 1          | NR     |
| 138                  | 8.29 | 4      | 7.14                      | 4      | 149                       | 4      | 597       | 4      | 658            | 4      | < 2          | NR     |
| 140                  | 8.33 | 4      | 7.40                      | 4      | 155                       | 3      | 708       | 0      |                |        |              |        |
| 141                  | 8.35 | 4      |                           |        | 156                       | 3      | 607       | 4      |                |        | < 10         | NR     |
| 142                  | 8.26 | 4      | 8.41                      | 0      | 163                       | 1      | 604       | 4      | 694            | 3      | 3.42         | 4      |
| 143                  | 8.38 | 3      |                           |        |                           |        |           |        |                |        |              |        |
| 145                  | 8.30 | 4      | 7.95                      | 2      | 149                       | 4      | 615       | 3      | 699            | 3      | 4.70         | 4      |
| 146                  | 8.15 | 3      |                           |        | 155                       | 3      | 595       | 4      |                |        | < 10         | NR     |
| 149                  | 8.40 | 3      |                           |        | 160                       | 2      | 612       | 3      |                |        |              |        |
| 151                  | 8.39 | 3      | 5.88                      | 0      | 151                       | 4      | 602       | 4      | 710            | 2      |              |        |
| 155                  | 8.24 | 4      | 7.08                      | 3      |                           |        | 631       | 1      |                |        |              |        |
| 158                  | 8.26 | 4      |                           |        | 152                       | 4      | 609       | 4      |                |        |              |        |
| 180                  | 8.40 | 3      |                           |        | 140                       | 2      | 620       | 2      |                |        | 4.95         | 3      |
| 183                  | 8.33 | 4      |                           |        |                           |        | 535       | 0      |                |        |              |        |
| 190                  | 8.10 | 2      | 7.70                      | 3      | 177                       | 0      | 604       | 4      | 958            | 0      |              |        |
| 191                  | 8.39 | 3      | 8.71                      | 0      | 149                       | 4      |           |        | 1              | 0      |              |        |
| 193                  |      |        |                           |        | 149                       | 4      | 568       | 1      |                |        |              |        |
| 196                  |      |        |                           |        | 145                       | 3      |           |        |                |        |              |        |
| 203                  | 8.31 | 4      | 6.90                      | 3      | 168                       | 0      | 598       | 4      |                |        |              |        |
| 204                  | 8.16 | 3      | 7.42                      | 4      | 155                       | 3      | 594       | 4      |                |        |              |        |
| 212                  | 8.30 | 4      | 7.90                      | 2      | 156                       | 3      | 637       | 1      | 660            | 4      | 2.10         | 4      |
| 213                  | 8.35 | 4      |                           |        |                           |        |           |        |                |        |              |        |
| 215                  | 8.25 | 4      | 8.08                      | 1      | 155                       | 3      | 574       | 2      |                |        |              |        |
| 217                  | 8.40 | 3      | 6.08                      | 0      | 158                       | 2      | 625       | 2      | 578            | 0      |              |        |
| 218                  | 8.02 | 1      |                           |        |                           |        | 556       | 0      | 673            | 4      |              |        |
| 219                  |      |        | 7.50                      | 4      | 40                        | 0      |           |        | 700            | 3      | 1.00         | 3      |
| 220                  |      |        |                           |        | 148                       | 4      |           |        |                |        |              |        |
| 221                  | 8.08 | 2      |                           |        | 146                       | 3      |           |        |                |        |              |        |
| 224                  | 8.17 | 3      |                           |        | 152                       | 4      | 560       | 0      |                |        | 8.30         | 1      |
| 234                  | 8.13 | 3      | 7.20                      | 4      | 153                       | 4      | 611       | 3      | 668            | 4      | 2.02         | 4      |
| 235                  |      |        | 8.26                      | 1      | 174                       | 0      |           |        | 709            | 2      | < 5          | NR     |
| 236                  | 8.24 | 4      | 4.66                      | 0      | 152                       | 4      | 589       | 3      | 649            | 3      | 3.80         | 4      |
| 240                  | 8.24 | 4      | 6.88                      | 2      | 147                       | 4      | 576       | 2      |                |        |              |        |
| 241                  | 8.30 | 4      | 7.68                      | 3      | 152                       | 4      | 414       | 0      |                |        | 1.00         | 3      |
| 243                  | 7.91 | 0      |                           |        |                           |        | 595       | 4      |                |        |              |        |
| 244                  | 8.34 | 4      |                           |        |                           |        | 600       | 4      |                |        |              |        |
| 247                  | 8.56 | 1      |                           |        | 143                       | 2      | 595       | 4      |                |        |              |        |
| 249                  | 7.98 | 1      |                           |        | 141                       | 2      | 617       | 3      |                |        |              |        |
| 253                  | 8.20 | 4      |                           |        | 117                       | 0      | 625       | 2      |                |        |              |        |
| 255                  | 8.49 | 2      | 7.38                      | 4      | 120                       | 0      | 595       | 4      |                |        | 1.40         | 3      |
| 256                  | 8.05 | 2      | 6.65                      | 1      | 154                       | 3      |           |        |                |        |              |        |
| 257                  | 8.21 | 4      |                           |        | 195                       | 0      | 600       | 4      |                |        | 39.00        | 0      |
| 258                  | 8.20 | 4      |                           |        | 200                       | 0      | 539       | 0      |                |        |              |        |
| 259                  | 8.50 | 2      | 7.00                      | 3      | 148                       | 4      | 609       | 4      | 680            | 4      |              |        |
| 261                  | 7.95 | 1      |                           |        | 16                        | 0      | 522       | 0      |                |        |              |        |
| 262                  | 7.42 | 0      |                           |        | 150                       | 4      | 582       | 3      |                |        |              |        |
| 265                  | 8.12 | 3      | 6.85                      | 2      | 155                       | 3      |           |        | 658            | 4      | 1.20         | 3      |
| 268                  | 8.10 | 2      |                           |        | 154                       | 3      | 560       | 0      |                |        |              |        |
| 270                  |      |        |                           |        |                           |        |           |        |                |        |              |        |
| 271                  | 7.83 | 0      |                           |        | 17                        | 0      | 545       | 0      |                |        |              |        |
| 272                  | 8.28 | 4      |                           |        |                           |        | 645       | 0      |                |        |              |        |
| 273                  | 8.20 | 4      |                           |        |                           |        | 620       | 2      | 770            | 0      |              |        |
| 274                  | 7.90 | 0      | 14.93                     | 0      | 149                       | 4      | 634       | 1      |                |        |              |        |
| 276                  | 7.70 | 0      |                           |        |                           |        | 550       | 0      |                |        |              |        |

Table 8. Laboratory performance ratings for standard reference water sample N-51 (nutrient constituents)

(MPV, most probable value; ug/L, micrograms per liter; 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 <sub>3</sub> as N<br>(Ammonia) |     |     |        |        | NH <sub>3</sub> + Org N as N<br>(Ammonia+Organic N) |        |         | NO <sub>3</sub> + NO <sub>2</sub> as N<br>(Nitrate + Nitrite) |         |        | total P as P<br>(total Phosphorus) |        |         | PO <sub>4</sub> as P<br>(Orthophosphate as P) |         |        |
|---|-----|-----|--------|--------|---|--------|---------|---|---------|--------|------------------------------------|--------|---------|---|---------|--------|
| MPV = 0.07 mg/L                             |     |     |        |        | 0.29 mg/L   |        |         | 0.01 mg/L   |         |        | 0.04 mg/L                          |        |         | 0.02 mg/L                                     |         |        |
| F-pseudosigma = 0.05                        |     |     |        |        | 0.10  |        |         | 0.04  |         |        | 0.01                               |        |         | 0.01  |         |        |
| Lab   | OLR | V/5 | RV     | Rating | RV  | Rating | RV      | Rating  | RV      | Rating | RV                                 | Rating | RV      | Rating  | RV      | Rating |
| 1   | 3.0 | 3   | 0.03   | 3      | 0.22  | 3      | < 0.005 | NR  | 0.03    | 3      | < 0.001                            | NR     | 0.00    | NR  | 0.00    | NR     |
| 2   | 2.5 | 4   | 0.05   | 4      | 0.50  | 0      | < 0.02  | NR  | 0.05    | 4      | 0.00                               | 4      | 0.00    | 2   | 0.00    | 2      |
| 5   | 0.5 | 2   | 0.15   | 1      |   |        | < 0.03  | NR  |         |        | 0.04                               |        | 0.04    | 0   | 0.04    | 0      |
| 7   | 2.0 | 1   | 0.13   | 2      |   |        | < 0.05  | NR  |         |        |                                    |        |         |   |         |        |
| 10  | 3.8 | 4   | 0.09   | 4      | 0.26  | 4      | < 0.01  | NR  | 0.05    | 3      | 0.02                               | 3      | 0.02    | 4   | 0.02    | 4      |
| 11  | 2.7 | 3   | 0.17   | 1      | 0.36  | 3      |         |   | 0.04    | 4      |                                    |        |         |   |         |        |
| 13  | NR  | 0   | < 0.02 | NR     |   |        | < 0.06  | NR  | < 0.05  | NR     | < 0.05                             | NR     | < 0.05  | NR  | < 0.05  | NR     |
| 15  | 0.0 | 2   | < 0.05 | NR     | 0.53  | 0      | < 0.02  | NR  | 0.12    | 0      | < 0.02                             | 0      | < 0.02  | NR  | < 0.02  | NR     |
| 16  | 2.2 | 5   | 0.08   | 4      | 0.11  | 1      | 0.07    | 1   | 0.07    | 1      | 0.07                               | 1      | 0.02    | 4   | 0.02    | 4      |
| 18  | 2.8 | 4   | 0.14   | 2      | 0.17  | 2      | < 0.01  | NR  | 0.03    | 3      | 0.02                               | 3      | 0.02    | 4   | 0.02    | 4      |
| 21  | 3.6 | 5   | 0.01   | 2      | 0.29  | 4      | 0.01    | 4   | 0.04    | 4      | 0.02                               | 4      | 0.02    | 4   | 0.02    | 4      |
| 22  | 2.0 | 1   |        |        |   |        |         |   | 0.06    | 2      |                                    |        |         |   |         |        |
| 23  | 0.0 | 1   | < 0.1  | NR     | 0.50  | 0      | < 0.05  | NR  | < 0.1   | NR     | < 0.1                              | NR     | < 0.1   | NR  | < 0.1   | NR     |
| 25  | 3.0 | 4   | 0.08   | 4      | 0.08  | 0      | 0.01    | 4   |         |        | 0.02                               |        | 0.02    | 4   | 0.02    | 4      |
| 28  | 0.0 | 2   | 0.34   | 0      |   |        |         |   | 0.04    |        | 0.04                               |        | 0.04    | 0   | 0.04    | 0      |
| 33  | 3.0 | 1   | 0.04   | 3      |   |        |         |   |         |        | < 0.01                             |        | < 0.01  | NR  | < 0.01  | NR     |
| 36  | NR  | 0   |        |        |   |        | < 0.05  | NR  | < 0.05  | NR     | < 0.05                             | NR     | < 0.05  | NR  | < 0.05  | NR     |
| 38  | 3.0 | 5   | 0.01   | 2      | 0.25  | 4      | 0.00    | 4   | 0.06    | 2      | 0.01                               | 2      | 0.01    | 3   | 0.01    | 3      |
| 39  | 2.0 | 3   | 0.10   | 3      |   |        |         |   | 0.00    | 0      | 0.01                               | 0      | 0.01    | 3   | 0.01    | 3      |
| 46  | 3.0 | 2   |        |        |   |        |         |   | 0.03    | 3      | 0.01                               | 3      | 0.01    | 3   | 0.01    | 3      |
| 48  | 3.5 | 4   | 0.11   | 3      | 0.39  | 3      | < 0.08  | NR  | 0.04    | 4      | 0.02                               | 4      | 0.02    | 4   | 0.02    | 4      |
| 53  | 1.0 | 3   | 0.11   | 3      |   |        | 0.40    | 0   |         |        | 0.12                               |        | 0.12    | 0   | 0.12    | 0      |
| 55  | 2.8 | 4   | 0.12   | 3      | 0.30  | 4      |         |   | 0.04    | 4      | 0.08                               | 4      | 0.08    | 0   | 0.08    | 0      |
| 56  | 3.3 | 4   | 0.04   | 3      | 0.23  | 3      | < 0.02  | NR  | 0.03    | 3      | 0.02                               | 3      | 0.02    | 4   | 0.02    | 4      |
| 58  | 1.0 | 4   | 0.03   | 3      | 0.48  | 1      |         |   | 0.13    | 0      | 0.10                               | 0      | 0.10    | 0   | 0.10    | 0      |
| 59  | 3.3 | 3   | 0.05   | 4      | 0.20  | 3      | < 0.04  | NR  | 0.03    | 3      | < 0.01                             | NR     | < 0.01  | NR  | < 0.01  | NR     |
| 64  | 3.5 | 2   | 0.06   | 4      |   |        | < 0.02  | NR  |         |        | 0.01                               |        | 0.01    | 3   | 0.01    | 3      |
| 68  | 2.3 | 4   | 0.15   | 1      | 0.33  | 4      | 0.01    | 4   | 0.08    | 0      |                                    |        |         |   |         |        |
| 69  | NR  | 0   |        |        |   |        | < 0.05  | NR  |         |        |                                    |        |         |   |         |        |
| 70  | 4.0 | 1   | < 0.1  | NR     | 0.29  | 4      | < 0.1   | NR  | < 0.1   | NR     | < 0.1                              | NR     | < 0.1   | NR  | < 0.1   | NR     |
| 75  | NR  | 0   |        |        |   |        | < 0.1   | NR  |         |        |                                    |        |         |   |         |        |
| 80  | NR  | 0   | < 0.02 | NR     |   |        | < 0.01  | NR  |         |        | < 0.05                             |        | < 0.05  | NR  | < 0.05  | NR     |
| 81  | 3.3 | 3   | < 0.05 | NR     | 0.40  | 2      | 0.01    | 4   | 0.03    | 4      | < 0.005                            | NR     | < 0.005 | NR  | < 0.005 | NR     |
| 83  | 3.0 | 1   | < 0.01 | NR     |   |        | < 0.02  | NR  | < 0.075 | NR     | 0.01                               | NR     | 0.01    | 3   | 0.01    | 3      |
| 85  | 3.4 | 5   | 0.03   | 3      | 0.20  | 3      | 0.04    | 3   | 0.04    | 4      | 0.02                               | 4      | 0.02    | 4   | 0.02    | 4      |
| 87  | 2.8 | 4   | 0.07   | 4      | 0.12  | 1      | < 0.01  | NR  | 0.05    | 3      | 0.01                               | 3      | 0.01    | 3   | 0.01    | 3      |
| 88  | 1.3 | 3   | 0.04   | 4      |   |        | 1.16    | 0   |         |        | 0.05                               |        | 0.05    | 0   | 0.05    | 0      |
| 89  | 3.0 | 4   | 0.02   | 3      | 0.15  | 2      | < 0.05  | NR  | 0.04    | 4      | 0.01                               | 4      | 0.01    | 3   | 0.01    | 3      |
| 90  | 4.0 | 1   | 0.08   | 4      |   |        |         |   |         |        |                                    |        |         |   |         |        |
| 91  | 3.5 | 2   | < 0.03 | NR     | 0.32  | 4      | < 0.02  | NR  | 0.05    | 3      |                                    |        |         |   |         |        |
| 92  | 3.7 | 3   |        |        |   |        | 0.01    | 4   | 0.03    | 4      | 0.02                               | 4      | 0.02    | 3   | 0.02    | 3      |
| 96  | 3.3 | 3   | 0.09   | 4      | 0.23  | 3      | < 0.05  | NR  | 0.03    | 3      | < 0.01                             | NR     | < 0.01  | NR  | < 0.01  | NR     |
| 97  | 2.8 | 4   | 0.10   | 3      | 0.33  | 4      | < 0.003 | NR  | 0.01    | 0      | 0.01                               | 0      | 0.01    | 4   | 0.01    | 4      |
| 102   | 2.7 | 3   |        |        | 0.30  | 4      |         |   | 0.03    | 2      | 0.00                               | 2      | 0.00    | 2   | 0.00    | 2      |
| 104   | 3.4 | 5   | 0.01   | 2      | 0.27  | 4      | 0.00    | 4   | 0.05    | 4      | 0.01                               | 4      | 0.01    | 3   | 0.01    | 3      |
| 105   | 3.3 | 3   | 0.08   | 4      | < 0.2   | NR     | < 0.04  | NR  | 0.02    | 2      | 0.02                               | 2      | 0.02    | 4   | 0.02    | 4      |
| 110   | 4.0 | 1   | 0.10   | 4      |   |        |         |   |         |        |                                    |        |         |   |         |        |
| 113   | 4.0 | 1   |        |        |   |        | < 0.015 | NR  | 0.03    | 4      | < 0.004                            | NR     | < 0.004 | NR  | < 0.004 | NR     |
| 114   | 4.0 | 1   | < 0.1  | NR     |   |        | < 0.04  | NR  | 0.04    | 4      |                                    |        |         |   |         |        |
| 118   | 2.0 | 4   | 0.04   | 3      | 0.24  | 4      | 0.08    | 1   | 0.01    | 0      | < 0.01                             | NR     | < 0.01  | NR  | < 0.01  | NR     |
| 119   | 3.0 | 4   | 0.03   | 3      | 0.36  | 3      | 0.01    | 4   | 0.06    | 2      | 0.00                               | 2      | 0.00    | NR  | 0.00    | NR     |
| 127   | 3.5 | 2   | 0.02   | 3      | 0.31  | 4      | < 0.01  | NR  | < 0.01  | NR     | < 0.05                             | NR     | < 0.05  | NR  | < 0.05  | NR     |
| 128   | 3.0 | 2   | 0.11   | 3      | 0.20  | 3      | < 0.01  | NR  |         |        | < 0.01                             |        | < 0.01  | NR  | < 0.01  | NR     |
| 129   | 3.8 | 4   | 0.00   | NR     | 0.30  | 4      | 0.00    | 4   | 0.04    | 4      | 0.03                               | 4      | 0.03    | 3   | 0.03    | 3      |
| 132   | 2.5 | 4   | 0.08   | 4      |   |        | 0.11    | 0   | 0.03    | 3      | 0.01                               | 3      | 0.01    | 3   | 0.01    | 3      |
| 133   | 3.0 | 5   | 0.08   | 4      | 0.24  | 4      | 0.18    | 0   | 0.04    | 4      | 0.01                               | 4      | 0.01    | 3   | 0.01    | 3      |
| 134   | 3.6 | 5   | 0.04   | 4      | 0.30  | 4      | 0.00    | 4   | 0.04    | 4      | 0.00                               | 4      | 0.00    | 2   | 0.00    | 2      |
| 138   | 3.0 | 4   | 0.03   | 3      | 0.28  | 4      | < 0.005 | NR  | 0.05    | 3      | 0.00                               | 3      | 0.00    | 2   | 0.00    | 2      |
| 140   | 3.7 | 3   | 0.07   | 4      | 0.21  | 3      | 0.00    | 4   | < 0.02  | NR     | < 0.01                             | NR     | < 0.01  | NR  | < 0.01  | NR     |
| 141   | 1.0 | 3   | 0.17   | 1      | < 1   | NR     | < 0.05  | NR  | 0.06    | 2      | 0.05                               | 2      | 0.05    | 0   | 0.05    | 0      |



Table 9. Laboratory performance ratings for standard reference water sample N-52 (nutrient constituents)

(MPV, most probable value; ug/L, micrograms per liter; 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 <sub>3</sub> as N |     | 1.33      |      | NH <sub>3</sub> + Org N as N |      | NO <sub>3</sub> + NO <sub>2</sub> as N |       | total P as P       |      | PO <sub>4</sub> as P  |      |        |
|--------------------------------|-----|-----------|------|------------------------------|------|--|-------|--------------------|------|-----------------------|------|--------|
| Ammonia)                       |     | 0.09      |      | (Ammonia+Organic N)          |      | (Nitrate + Nitrite)                    |       | (total Phosphorus) |      | (Orthophosphate as P) |      |        |
| MPV =                          |     | 1.33 mg/L |      | 2.37 mg/L                    |      | 1.72 mg/L                              |       | 1.60 mg/L          |      | 1.16 mg/L             |      |        |
| F-pseudosigma =                |     | 0.09      |      | 0.22                         |      | 0.10                                   |       | 0.06               |      | 0.06                  |      |        |
| Lab                            | OLR | V/5       | RV   | Rating                       | RV   | Rating                                 | RV    | Rating             | RV   | Rating                | RV   | Rating |
| 1                              | 3.4 | 5         | 1.36 | 4                            | 2.16 | 3                                      | 1.70  | 4                  | 1.55 | 3                     | 1.20 | 3      |
| 3                              | 3.0 | 5         | 1.27 | 3                            | 2.20 | 3                                      | 1.80  | 3                  | 1.55 | 3                     | 1.12 | 3      |
| 5                              | 2.0 | 3         | 1.38 | 3                            |      |  | 1.30  | 0                  |      |                       | 1.12 | 3      |
| 7                              | 1.3 | 4         | 1.10 | 0                            |      |  | 1.54  | 1                  | 1.64 | 3                     | 1.05 | 1      |
| 10                             | 3.6 | 5         | 1.32 | 4                            | 2.48 | 3                                      | 1.74  | 4                  | 1.62 | 4                     | 1.20 | 3      |
| 11                             | 3.2 | 5         | 1.42 | 2                            | 2.58 | 3                                      | 1.71  | 4                  | 1.58 | 4                     | 1.13 | 3      |
| 13                             | 3.8 | 4         | 1.30 | 4                            |      |  | 1.72  | 4                  | 1.61 | 4                     | 1.20 | 3      |
| 15                             | 2.6 | 5         | 1.11 | 0                            | 2.58 | 3                                      | 1.72  | 4                  | 1.68 | 2                     | 1.15 | 4      |
| 16                             | 1.6 | 5         | 1.25 | 3                            | 1.94 | 1                                      | 1.73  | 4                  | 1.97 | 0                     | 1.45 | 0      |
| 18                             | 2.6 | 5         | 1.37 | 4                            | 1.89 | 0                                      | 1.83  | 2                  | 1.59 | 4                     | 1.19 | 3      |
| 19                             | 3.5 | 4         | 1.34 | 4                            |      |  | 1.78  | 3                  | 1.64 | 3                     | 1.14 | 4      |
| 22                             | 4.0 | 1         |      |                              |      |  |       |                    | 1.59 | 4                     |      |        |
| 23                             | 1.3 | 3         | 0.93 | 0                            |      |  |       |                    | 1.43 | 0                     | 1.14 | 4      |
| 25                             | 2.4 | 5         | 1.14 | 0                            | 2.64 | 2                                      | 1.77  | 4                  | 1.68 | 2                     | 1.17 | 4      |
| 26                             | 2.0 | 2         | 1.42 | 2                            |      |  |       |                    |      |                       | 1.24 | 2      |
| 30                             | 4.0 | 2         |      |                              |      |  | 1.74  | 4                  |      |                       | 1.16 | 4      |
| 33                             | 2.5 | 2         | 1.22 | 2                            |      |  |       |                    |      |                       | 1.12 | 3      |
| 36                             | 2.0 | 5         | 1.44 | 2                            | 2.15 | 3                                      | 1.90  | 1                  | 1.40 | 0                     | 1.15 | 4      |
| 38                             | 3.6 | 5         | 1.33 | 4                            | 2.23 | 3                                      | 1.70  | 4                  | 1.57 | 4                     | 1.13 | 3      |
| 42                             | 0.3 | 3         |      |                              |      |  | 28.10 | 0                  | 1.50 | 1                     | 0.58 | 0      |
| 46                             | 2.0 | 5         | 1.32 | 4                            | 2.24 | 3                                      | 1.48  | 0                  | 1.55 | 3                     | 0.12 | 0      |
| 48                             | 2.0 | 5         | 1.20 | 2                            | 2.30 | 4                                      | 1.61  | 2                  | 1.50 | 1                     | 1.05 | 1      |
| 53                             | 2.0 | 3         | 1.30 | 4                            |      |  | 1.84  | 2                  |      |                       | 3.49 | 0      |
| 55                             | 3.6 | 5         | 1.37 | 4                            | 2.40 | 4                                      | 1.73  | 4                  | 1.56 | 3                     | 1.21 | 3      |
| 56                             | 1.0 | 5         | 1.50 | 1                            | 2.74 | 1                                      | 1.79  | 3                  | 1.10 | 0                     | 0.66 | 0      |
| 57                             | 1.4 | 5         | 1.22 | 2                            | 3.60 | 0                                      | 1.90  | 1                  | 1.60 | 4                     | 1.30 | 0      |
| 58                             | 1.5 | 4         | 1.18 | 1                            | 2.49 | 3                                      |       |                    | 1.54 | 2                     | 0.92 | 0      |
| 59                             | 4.0 | 5         | 1.35 | 4                            | 2.30 | 4                                      | 1.74  | 4                  | 1.60 | 4                     | 1.16 | 4      |
| 64                             | 4.0 | 3         | 1.34 | 4                            |      |  | 1.72  | 4                  |      |                       | 1.17 | 4      |
| 68                             | 2.8 | 4         | 1.59 | 0                            | 2.42 | 4                                      | 1.68  | 4                  | 1.64 | 3                     |      |        |
| 69                             | 4.0 | 1         |      |                              |      |  | 1.76  | 4                  |      |                       |      |        |
| 70                             | 3.4 | 5         | 1.24 | 3                            | 2.34 | 4                                      | 1.58  | 2                  | 1.62 | 4                     | 1.16 | 4      |
| 75                             | 2.0 | 1         |      |                              |      |  | 1.61  | 2                  |      |                       |      |        |
| 76                             | 4.0 | 1         | 1.29 | 4                            |      |  |       |                    |      |                       |      |        |
| 80                             | 2.0 | 3         | 1.30 | 4                            |      |  | 0.86  | 0                  |      |                       | 1.24 | 2      |
| 81                             | 2.6 | 5         | 1.50 | 1                            | 2.15 | 3                                      | 1.72  | 4                  | 1.59 | 4                     | 1.06 | 1      |
| 83                             | 2.8 | 4         | 1.20 | 2                            |      |  | 1.59  | 2                  | 1.60 | 4                     | 1.20 | 3      |
| 85                             | 3.2 | 5         | 1.25 | 3                            | 2.43 | 4                                      | 1.55  | 1                  | 1.61 | 4                     | 1.15 | 4      |
| 86                             | 3.0 | 3         | 1.37 | 4                            |      |  | 1.72  | 4                  | 1.69 | 1                     |      |        |
| 87                             | 2.4 | 5         | 1.00 | 0                            | 2.10 | 2                                      | 1.74  | 4                  | 1.63 | 3                     | 1.19 | 3      |
| 88                             | 1.0 | 3         | 1.09 | 0                            |      |  | 2.49  | 0                  |      |                       | 1.11 | 3      |
| 89                             | 3.8 | 5         | 1.32 | 4                            | 2.22 | 3                                      | 1.72  | 4                  | 1.62 | 4                     | 1.16 | 4      |
| 90                             | 3.0 | 1         | 1.38 | 3                            |      |  |       |                    |      |                       |      |        |
| 91                             | 3.3 | 4         | 1.34 | 4                            | 2.43 | 4                                      | 1.62  | 2                  | 1.63 | 3                     |      |        |
| 92                             | 3.7 | 3         |      |                              |      |  | 1.79  | 3                  | 1.60 | 4                     | 1.18 | 4      |
| 96                             | 3.8 | 5         | 1.37 | 4                            | 2.39 | 4                                      | 1.64  | 3                  | 1.58 | 4                     | 1.14 | 4      |
| 97                             | 3.2 | 5         | 1.34 | 4                            | 2.23 | 3                                      | 1.65  | 3                  | 1.52 | 2                     | 1.16 | 4      |
| 102                            | 2.2 | 5         | 1.00 | 0                            | 2.23 | 3                                      | 1.83  | 2                  | 1.57 | 3                     | 1.11 | 3      |
| 104                            | 4.0 | 5         | 1.33 | 4                            | 2.43 | 4                                      | 1.69  | 4                  | 1.61 | 4                     | 1.17 | 4      |
| 105                            | 3.0 | 5         | 1.36 | 4                            | 1.50 | 0                                      | 1.76  | 4                  | 1.65 | 3                     | 1.17 | 4      |
| 107                            | 3.0 | 4         | 1.39 | 3                            |      |  | 1.74  | 4                  | 1.66 | 2                     | 1.12 | 3      |
| 108                            | 3.3 | 4         | 1.29 | 4                            | 2.34 | 4                                      | 1.75  | 4                  |      |                       | 1.28 | 1      |
| 113                            | 2.6 | 5         | 1.38 | 3                            | 2.14 | 2                                      | 1.50  | 0                  | 1.60 | 4                     | 1.15 | 4      |
| 114                            | 1.3 | 3         | 1.10 | 0                            |      |  | 2.29  | 0                  | 1.60 | 4                     |      |        |
| 118                            | 2.2 | 5         | 1.26 | 3                            | 2.47 | 4                                      | 1.94  | 0                  | 1.90 | 0                     | 1.18 | 4      |
| 119                            | 2.6 | 5         | 1.42 | 2                            | 1.87 | 0                                      | 1.64  | 3                  | 1.62 | 4                     | 1.18 | 4      |
| 127                            | 2.4 | 5         | 1.68 | 0                            | 2.66 | 2                                      | 1.71  | 4                  | 1.54 | 2                     | 1.16 | 4      |
| 128                            | 3.5 | 4         | 1.30 | 4                            | 2.50 | 3                                      | 1.72  | 4                  |      |                       | 1.19 | 3      |
| 129                            | 1.8 | 5         | 1.18 | 1                            | 2.18 | 3                                      | 1.75  | 4                  | 1.50 | 1                     | 1.04 | 0      |
| 132                            | 2.3 | 4         | 1.32 | 4                            |      |  | 1.53  | 1                  | 1.63 | 3                     | 1.25 | 1      |

Table 9. Laboratory performance ratings for standard reference water sample N-52 (nutrient constituents)—Continued

(MPV, most probable value; ug/L, micrograms per liter; 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 <sub>3</sub> as N |     | 1.33      | NH <sub>3</sub> + Org N as N |        | 0.09      | NO <sub>3</sub> + NO <sub>2</sub> as N |       | 1.72      | total P as P       |        | 1.60      | PO <sub>4</sub> as P  |    | 1.18      |
|--------------------------------|-----|-----------|------------------------------|--------|-----------|--|-------|-----------|--------------------|--------|-----------|-----------------------|----|-----------|
| Ammonia                        |     | 0.09      | (Ammonia+Organic N)          |        | 0.22      | (Nitrate + Nitrite)                    |       | 0.10      | (total Phosphorus) |        | 0.06      | (Orthophosphate as P) |    | 0.06      |
| MPV =                          |     | 1.33 mg/L |                              |        | 2.37 mg/L |  |       | 1.72 mg/L |                    |        | 1.60 mg/L |                       |    | 1.18 mg/L |
| F-pseudosigma =                |     | 0.09      |                              |        | 0.22      |  |       | 0.10      |                    |        | 0.06      |                       |    | 0.06      |
| Lab                            | OLR | V/5       | RV                           | Rating | RV        | Rating                                 | RV    | Rating    | RV                 | Rating | RV        | Rating                | RV | Rating    |
| 133                            | 2.4 | 5         | 1.35                         | 4      | 2.05      | 2                                      | 2.16  | 0         | 1.63               | 3      | 1.12      | 3                     |    |           |
| 134                            | 3.6 | 5         | 1.37                         | 4      | 2.30      | 4                                      | 1.73  | 4         | 1.65               | 3      | 1.19      | 3                     |    |           |
| 138                            | 3.2 | 5         | 1.28                         | 3      | 2.38      | 4                                      | 1.66  | 3         | 1.52               | 2      | 1.15      | 4                     |    |           |
| 140                            | 1.8 | 5         | 1.52                         | 0      | 2.35      | 4                                      | 1.66  | 3         | 1.66               | 2      | 1.01      | 0                     |    |           |
| 141                            | 3.4 | 5         | 1.26                         | 3      | 2.56      | 3                                      | 1.72  | 4         | 1.59               | 4      | 1.21      | 3                     |    |           |
| 142                            | 2.8 | 5         | 1.26                         | 3      | 2.33      | 4                                      | 1.98  | 0         | 1.65               | 3      | 1.15      | 4                     |    |           |
| 143                            | 3.4 | 5         | 1.34                         | 4      | 2.53      | 3                                      | 1.85  | 2         | 1.60               | 4      | 1.15      | 4                     |    |           |
| 145                            | 3.2 | 5         | 1.45                         | 2      | 2.34      | 4                                      | 1.68  | 4         | 1.66               | 2      | 1.17      | 4                     |    |           |
| 146                            | 0.0 | 4         | 3.57                         | 0      |           |  | 4.54  | 0         | 4.03               | 0      | 3.48      | 0                     |    |           |
| 155                            | 2.6 | 5         | 1.29                         | 4      | 2.12      | 2                                      | 1.66  | 3         | 1.52               | 2      | 1.08      | 2                     |    |           |
| 158                            | 3.8 | 4         | 1.36                         | 4      |           |  | 1.76  | 4         | 1.60               | 4      | 1.10      | 3                     |    |           |
| 180                            | 3.4 | 5         | 1.32                         | 4      | 2.47      | 4                                      | 1.74  | 4         | 1.68               | 2      | 1.19      | 3                     |    |           |
| 183                            | 2.0 | 3         |                              |        |           |  | 0.15  | 0         | 1.58               | 4      | 1.10      | 2                     |    |           |
| 190                            | 1.6 | 5         | 1.55                         | 0      | 2.70      | 1                                      | 1.82  | 3         | 1.22               | 0      | 1.14      | 4                     |    |           |
| 191                            | 3.5 | 2         |                              |        |           |  | 1.73  | 4         |                    |        | 1.21      | 3                     |    |           |
| 193                            | 2.5 | 2         |                              |        |           |  | 1.63  | 3         | 1.67               | 2      |           |                       |    |           |
| 197                            | 4.0 | 2         | 1.34                         | 4      |           |  | 1.74  | 4         |                    |        |           |                       |    |           |
| 203                            | 2.4 | 5         | 1.41                         | 3      | 1.44      | 0                                      | 1.83  | 3         | 1.63               | 4      | 1.22      | 2                     |    |           |
| 204                            | 2.8 | 4         | 1.35                         | 4      | 2.48      | 3                                      | 1.35  | 0         | 1.59               | 4      |           |                       |    |           |
| 212                            | 2.8 | 5         | 1.30                         | 4      | 2.50      | 3                                      | 16.40 | 0         | 1.60               | 4      | 1.20      | 3                     |    |           |
| 213                            | 1.5 | 4         | 1.50                         | 1      | 4.00      | 0                                      |       |           | 1.58               | 4      | 1.06      | 1                     |    |           |
| 215                            | 2.2 | 5         | 1.35                         | 4      | 2.51      | 3                                      | 1.72  | 4         | 0.82               | 0      | 0.54      | 0                     |    |           |
| 220                            | 1.3 | 3         | 1.36                         | 4      |           |  | 2.04  | 0         |                    |        | 1.32      | 0                     |    |           |
| 221                            | 2.4 | 5         | 1.31                         | 4      | 2.30      | 4                                      | 1.87  | 2         | 1.76               | 0      | 1.09      | 2                     |    |           |
| 224                            | 2.0 | 5         | 1.40                         | 3      | 3.70      | 0                                      | 1.70  | 4         | 1.55               | 3      | 1.31      | 0                     |    |           |
| 234                            | 3.3 | 4         | 1.40                         | 3      |           |  | 1.65  | 3         | 1.62               | 4      | 1.11      | 3                     |    |           |
| 240                            | 2.6 | 5         | 1.32                         | 4      | 2.42      | 4                                      | 1.60  | 2         | 2.03               | 0      | 1.21      | 3                     |    |           |
| 241                            | 3.4 | 5         | 1.35                         | 4      | 2.15      | 3                                      | 1.81  | 3         | 1.56               | 3      | 1.16      | 4                     |    |           |
| 243                            | 3.0 | 3         | 1.24                         | 3      |           |  | 1.76  | 4         | 1.67               | 2      |           |                       |    |           |
| 247                            | 3.0 | 2         |                              |        |           |  | 1.78  | 3         |                    |        | 1.19      | 3                     |    |           |
| 248                            | 2.0 | 4         | 1.40                         | 3      |           |  | 0.76  | 0         | 1.56               | 3      | 1.23      | 2                     |    |           |
| 249                            | 1.4 | 5         | 0.74                         | 0      | 2.57      | 3                                      | 6.71  | 0         | 1.75               | 0      | 1.18      | 4                     |    |           |
| 253                            | 1.4 | 5         | 1.29                         | 4      | 3.62      | 0                                      | 0.92  | 0         | 1.43               | 0      | 1.20      | 3                     |    |           |
| 255                            | 3.5 | 4         | 1.25                         | 3      | < 5       | NR                                     | 1.72  | 4         | 1.58               | 4      | 1.13      | 3                     |    |           |

Table 10. Laboratory performance ratings for standard reference water sample P-27 (low ionic strength)

(MPV, most probable value; ug/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/11, number of reported values of 11 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 <sub>3</sub> |     |      |       |        |      |        |       |        |       |        |        |        |       |        |
|--|-----|------|-------|--------|------|--------|-------|--------|-------|--------|--------|--------|-------|--------|
| MPV = 4.74 mg/L                        |     |      |       |        |      |        |       |        |       |        |        |        |       |        |
| F-pseudosigma = 3.19                   |     |      |       |        |      |        |       |        |       |        |        |        |       |        |
| Lab                                    | OLR | V/11 | RV    | Rating | RV   | Rating | RV    | Rating | RV    | Rating | RV     | Rating | RV    | Rating |
| 1                                      | 3.8 | 9    | 2.50  | 3      | 2.50 | 4      | 1.20  | 4      | < 0.1 | NR     | 0.330  | 4      | 0.450 | 4      |
| 2                                      | 2.0 | 8    |       |        | 2.80 | 2      | 1.13  | 4      |       |        | 0.330  | 4      | 0.545 | 1      |
| 3                                      | 2.0 | 9    | < 10  | NR     | 2.40 | 3      | 1.78  | 2      | 0.063 | 2      | 0.330  | 4      | 0.420 | 3      |
| 5                                      | 2.3 | 8    | 7.42  | 3      | 2.41 | 4      | 2.39  | 0      |       |        | < 1    | NR     | 0.434 | 3      |
| 7                                      | 3.8 | 5    | 5.20  | 4      |      |        | 1.13  | 4      | < 0.5 | NR     |        |        |       |        |
| 15                                     | 1.9 | 9    | < 2   | NR     | 2.82 | 2      | 1.63  | 3      | 0.108 | 4      | 0.511  | 0      | 0.639 | 0      |
| 23                                     | 3.7 | 6    |       |        | 2.60 | 4      | 1.27  | 4      | < 0.1 | NR     | 0.350  | 4      | < 0.5 | NR     |
| 25                                     | 3.1 | 8    | 27.00 | 0      | 2.50 | 4      | 1.20  | 4      | 0.100 | 4      |        |        | 0.420 | 3      |
| 26                                     | 3.4 | 9    |       |        | 2.96 | 1      | 1.13  | 4      | 0.120 | 3      | 0.350  | 4      | 0.470 | 4      |
| 28                                     | 1.5 | 4    |       |        | 2.85 | 2      |       |        |       |        | 0.190  | 0      | 0.450 | 4      |
| 33                                     | 3.8 | 8    |       |        | 2.37 | 3      | 1.24  | 4      |       |        | 0.300  | 3      | 0.440 | 4      |
| 36                                     | 2.5 | 4    |       |        | 2.40 | 3      | < 5   | NR     | < 0.1 | NR     | < 0.5  | NR     | < 0.5 | NR     |
| 38                                     | 3.6 | 7    | 6.85  | 3      | 2.47 | 4      |       |        |       |        | 0.320  | 4      | 0.437 | 4      |
| 39                                     | 2.2 | 5    |       |        |      |        | 2.00  | 1      | 0.006 | 0      |        |        |       |        |
| 42                                     | 2.4 | 5    |       |        | 3.30 | 0      | 1.10  | 4      |       |        | 0.400  | 1      | 0.500 | 3      |
| 46                                     | 3.3 | 7    |       |        | 2.44 | 4      | 1.65  | 3      |       |        | 0.330  | 4      | 0.442 | 4      |
| 48                                     | 1.9 | 9    |       |        | 2.53 | 4      | 2.00  | 1      | 0.240 | 0      | 0.380  | 2      | 0.500 | 3      |
| 58                                     | 1.9 | 9    |       |        | 1.70 | 0      | 1.49  | 3      | 0.092 | 4      | 0.350  | 4      | 0.320 | 0      |
| 59                                     | 3.5 | 4    |       |        | < 5  | NR     | 1.10  | 4      | < 0.2 | NR     | < 5    | NR     | < 5   | NR     |
| 64                                     | 3.9 | 8    |       |        | 2.50 | 4      | 1.20  | 4      |       |        | 0.320  | 4      | 0.450 | 4      |
| 81                                     | 3.4 | 10   | 0.50  | 2      | 2.42 | 4      | 1.15  | 4      | 0.069 | 3      | 0.336  | 4      | 0.433 | 3      |
| 83                                     | 3.2 | 6    | 5.10  | 4      | 2.50 | 4      | < 5   | NR     | 0.170 | 0      | < 2    | NR     | 0.434 | 3      |
| 89                                     | 3.4 | 10   | 2.26  | 3      | 2.29 | 3      | 1.29  | 4      | 0.537 | 0      | 0.333  | 4      | 0.453 | 4      |
| 92                                     | 3.0 | 2    |       |        |      |        |       |        |       |        |        |        |       |        |
| 105                                    | 2.9 | 8    | 0.42  | 2      | 2.58 | 4      | 1.14  | 4      | < 0.2 | NR     | < 0.5  | NR     | 0.387 | 2      |
| 107                                    | 3.6 | 7    |       |        | 2.39 | 3      | < 0.6 | NR     | 0.077 | 3      | 0.340  | 4      | 0.450 | 4      |
| 109                                    | 2.6 | 10   | 6.57  | 3      | 2.58 | 4      | 1.01  | 4      | 0.090 | 4      | 0.270  | 1      | 0.490 | 3      |
| 110                                    | 3.3 | 6    |       |        | 1.45 | 0      | 1.13  | 4      |       |        |        |        | 0.450 | 4      |
| 113                                    | 3.0 | 8    |       |        | 2.86 | 2      | 1.98  | 1      | 0.090 | 4      | 0.288  | 2      | 0.504 | 3      |
| 119                                    | 3.1 | 9    |       |        | 2.57 | 4      | 1.18  | 4      | 0.100 | 4      | 0.000  | 0      | 0.410 | 2      |
| 132                                    | 2.1 | 7    | 5.08  | 4      | 2.71 | 3      |       |        |       |        | 0.550  | 0      | 0.450 | 4      |
| 134                                    | 3.9 | 9    |       |        | 2.60 | 4      | 1.17  | 4      | 0.120 | 3      | 0.343  | 4      | 0.447 | 4      |
| 138                                    | 3.9 | 9    |       |        | 2.60 | 4      | 1.07  | 4      | 0.101 | 4      | 0.330  | 4      | 0.460 | 4      |
| 140                                    | 2.2 | 9    |       |        | 2.39 | 3      | 0.87  | 3      | 0.053 | 2      | 0.289  | 2      | 0.467 | 4      |
| 141                                    | 3.5 | 10   | 2.40  | 3      | 2.74 | 3      | 1.40  | 4      | 0.130 | 3      | 0.351  | 4      | 0.486 | 3      |
| 143                                    | 3.7 | 3    |       |        |      |        | 1.20  | 4      |       |        |        |        |       |        |
| 145                                    | 2.8 | 9    |       |        | 2.67 | 3      | 1.04  | 4      | 0.080 | 3      | 0.290  | 2      | 0.490 | 3      |
| 146                                    | 2.8 | 5    | < 10  | NR     | 2.43 | 4      | 1.53  | 3      | < 0.2 | NR     | < 1    | NR     | < 0.5 | NR     |
| 155                                    | 2.0 | 3    |       |        | 2.72 | 3      |       |        |       |        |        |        |       |        |
| 158                                    | 1.3 | 8    |       |        | 3.16 | 0      | 0.27  | 1      |       |        | 0.350  | 4      | 0.550 | 1      |
| 180                                    | 3.9 | 7    |       |        | 2.62 | 4      | 1.00  | 4      |       |        | < 1.26 | NR     | 0.469 | 4      |
| 183                                    | 1.7 | 3    |       |        |      |        | 1.01  | 4      |       |        |        |        |       |        |
| 190                                    | 3.1 | 10   | 6.00  | 4      | 2.19 | 2      | 1.09  | 4      | 0.073 | 3      | 0.319  | 4      | 0.427 | 3      |
| 191                                    | 2.2 | 6    |       |        | 2.32 | 3      | 1.83  | 2      |       |        | 1.110  | 0      | 0.470 | 4      |
| 193                                    | 3.0 | 1    |       |        |      |        |       |        |       |        |        |        |       |        |
| 196                                    | 4.0 | 3    |       |        |      |        | 1.19  | 4      | 0.106 | 4      |        |        |       |        |
| 197                                    | 3.5 | 2    |       |        |      |        | 0.94  | 3      |       |        |        |        |       |        |
| 203                                    | 1.3 | 3    |       |        |      |        | < 2   | NR     |       |        |        |        |       |        |
| 204                                    | 2.7 | 6    |       |        | 2.75 | 3      | 1.40  | 4      |       |        |        |        | 3.580 | 0      |
| 215                                    | 2.8 | 9    | 3.60  | 4      | 2.60 | 4      | 2.00  | 1      | 0.100 | 4      | < 1    | NR     | 0.460 | 4      |
| 220                                    | 2.9 | 7    | 7.21  | 3      | 2.50 | 4      | 1.18  | 4      |       |        | 0.300  | 3      | 0.400 | 2      |
| 221                                    | 2.4 | 7    |       |        | 2.52 | 4      | 1.47  | 3      |       |        | 0.329  | 4      | 0.461 | 4      |
| 224                                    | 3.2 | 10   | 4.01  | 4      | 2.59 | 4      | 1.36  | 4      | 0.450 | 0      | 0.332  | 4      | 0.519 | 2      |
| 235                                    | 2.0 | 5    |       |        | 2.75 | 3      |       |        |       |        | 0.460  | 0      | 0.490 | 3      |
| 240                                    | 3.1 | 8    | 1.88  | 3      | 2.65 | 4      | 1.13  | 4      | 0.076 | 3      |        |        | 0.430 | 3      |
| 241                                    | 2.2 | 9    |       |        | 2.30 | 3      | 3.50  | 0      | 0.116 | 4      | 0.370  | 3      | 0.300 | 0      |
| 243                                    | 2.0 | 2    |       |        |      |        |       |        |       |        |        |        |       |        |
| 244                                    | 4.0 | 2    |       |        |      |        |       |        |       |        |        |        |       |        |
| 247                                    | 2.8 | 6    | 0.20  | 2      |      |        | 1.80  | 2      | 0.100 | 4      |        |        |       |        |
| 255                                    | 3.7 | 6    |       |        | 2.57 | 4      | < 5   | NR     | < 0.2 | NR     | 0.367  | 3      | 0.470 | 4      |

Table 10. Laboratory performance ratings for standard reference water sample P-27 (low ionic strength)—Continued

(MPV, most probable value; ug/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/11, number of reported values of 11 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 <sub>3</sub> |     |      |       |        | Ca (Calcium) |        | Cl (Chloride) |        | F (Fluoride) |        | K (Potassium) |        | Mg (Magnesium) |        |
|--|-----|------|-------|--------|--------------|--------|---------------|--------|--------------|--------|---------------|--------|----------------|--------|
| MPV = 4.74 mg/L                        |     |      |       |        | 2.53 mg/L    |        | 1.20 mg/L     |        | 0.100 mg/L   |        | 0.336 mg/L    |        | 0.461 mg/L     |        |
| F-pseudostigma = 3.19                  |     |      |       |        | 0.24         |        | 0.49          |        | 0.033        |        | 0.038         |        | 0.050          |        |
| Lab                                    | OLR | V/11 | RV    | Rating | RV           | Rating | RV            | Rating | RV           | Rating | RV            | Rating | RV             | Rating |
| 256                                    | 1.3 | 7    |       |        | 2.50         | 4      | 1.95          | 1      |              |        | 0.000         | 0      | 1.500          | 0      |
| 257                                    | 2.2 | 10   | 1.25  | 2      | 2.80         | 2      | 1.63          | 3      | 0.085        | 4      | 0.200         | 0      | 0.630          | 0      |
| 258                                    | 0.4 | 9    |       |        | 1.60         | 0      | 8.40          | 0      | 0.170        | 0      | 0.500         | 0      | 1.940          | 0      |
| 261                                    | 0.9 | 7    |       |        | 3.26         | 0      | 0.00          | 0      |              |        | < 0.39        | NR     | 1.950          | 0      |
| 262                                    | 2.4 | 9    |       |        | 2.50         | 4      | 1.30          | 4      | 0.082        | 3      | 0.350         | 4      | 0.440          | 4      |
| 265                                    | 2.4 | 7    |       |        | 2.90         | 1      | 0.95          | 3      | < 0.1        | NR     | 0.370         | 3      | 0.720          | 0      |
| 268                                    | 3.0 | 8    |       |        | 1.42         | 0      | 1.11          | 4      |              |        | 0.365         | 3      | 0.480          | 4      |
| 270                                    | 0.3 | 3    |       |        | 1.06         | 0      |               |        |              |        | 0.410         | 1      |                |        |
| 271                                    | 1.1 | 8    |       |        | 4.28         | 0      | 2.00          | 1      |              |        | 0.900         | 0      | 10.370         | 0      |
| 272                                    | 1.0 | 9    | 15.00 | 0      | 2.41         | 3      | 7.09          | 0      | 0.405        | 0      | 0.000         | 0      | 0.000          | 0      |
| 273                                    | 1.7 | 9    | 5.20  | 4      | 2.80         | 2      | 13.00         | 0      | 0.400        | 0      | 0.412         | 1      | 0.521          | 2      |
| 276                                    | 1.8 | 6    | 4.40  | 4      | 1.80         | 0      | 3.50          | 0      |              |        |               |        | 1.400          | 0      |

Table 10. Laboratory performance ratings for standard reference water sample P-27 (low ionic strength)—Continued

(MPV, most probable value; ug/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/11, number of reported values of 11 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 = Na (Sodium) |      |        | pH        |        | PO <sub>4</sub> as P |        | SO <sub>4</sub> (Sulfate) |        | Specific Conductance |        |
|-----------------------|------|--------|-----------|--------|----------------------|--------|---------------------------|--------|----------------------|--------|
| MPV =                 |      |        | 1.34 mg/L |        | 6.92                 |        | 0.002 mg/L                |        | 26.1 µS/cm           |        |
| F-pseudosigma =       |      |        | 0.10      |        | 0.32                 |        | 0.37                      |        | 1.1                  |        |
| Lab                   | RV   | Rating | RV        | Rating | RV                   | Rating | RV                        | Rating | RV                   | Rating |
| 1                     | 1.34 | 4      | 6.99      | 4      | < 0.001              | NR     | 2.43                      | 4      | 26.8                 | 3      |
| 2                     | 2.02 | 0      | 6.33      | 1      |                      |        | 2.32                      | 4      | 21.3                 | 0      |
| 3                     | 0.78 | 0      | 6.22      | 0      | < 0.01               | NR     | 3.40                      | 0      | 26.6                 | 4      |
| 5                     | 1.34 | 4      | 6.21      | 0      |                      |        | 4.37                      | 0      | 26.3                 | 4      |
| 7                     |      |        | 6.98      | 4      | < 0.16               | NR     | 2.40                      | 4      | 25.3                 | 3      |
| 15                    | 1.76 | 0      | 6.23      | 0      | < 0.02               | NR     | 2.50                      | 4      | 26.1                 | 4      |
| 23                    | 1.43 | 3      | 6.93      | 4      | < 0.01               | NR     | < 2.5                     | NR     | 27.0                 | 3      |
| 25                    | 1.36 | 4      | 7.13      | 3      |                      |        |                           |        | 27.0                 | 3      |
| 26                    | 1.32 | 4      | 6.95      | 4      | < 0.5                | NR     | 2.46                      | 4      | 27.2                 | 3      |
| 28                    | 0.94 | 0      |           |        | 0.002                | NR     |                           |        |                      |        |
| 33                    | 1.30 | 4      | 6.74      | 3      | < 0.01               | NR     | 2.34                      | 4      | 25.8                 | 4      |
| 36                    | 1.20 | 2      | 6.96      | 4      | < 0.025              | NR     | < 5                       | NR     | 23.9                 | 1      |
| 38                    | 1.24 | 3      | 7.10      | 3      | 0.001                | NR     |                           |        | 26.1                 | 4      |
| 39                    |      |        | 6.90      | 4      | < 0.005              | NR     | 2.30                      | 4      | 27.5                 | 2      |
| 42                    | 1.30 | 4      |           |        | 0.002                | NR     | < 2.5                     | NR     |                      |        |
| 46                    | 1.31 | 4      | 7.58      | 0      |                      |        | 2.40                      | 4      |                      |        |
| 48                    | 1.38 | 4      | 6.40      | 1      | < 0.005              | NR     | 60.00                     | 0      | 24.5                 | 2      |
| 58                    | 0.96 | 0      | 8.07      | 0      | 0.010                | NR     | 2.00                      | 2      | 26.1                 | 4      |
| 59                    | < 5  | NR     | 6.69      | 3      |                      |        | 2.30                      | 4      | 25.4                 | 3      |
| 64                    | 1.29 | 4      | 7.01      | 4      | 0.001                | NR     | 2.44                      | 4      | 25.5                 | 3      |
| 81                    | 1.24 | 3      | 6.88      | 4      | < 0.005              | NR     | 2.65                      | 3      | 26.3                 | 4      |
| 83                    | 1.33 | 4      |           |        | 0.009                | NR     | 2.52                      | 4      |                      |        |
| 89                    | 1.31 | 4      | 7.01      | 4      | < 0.002              | NR     | 2.48                      | 4      | 25.8                 | 4      |
| 92                    |      |        | 7.03      | 4      | < 0.005              | NR     | 1.88                      | 2      |                      |        |
| 105                   | 1.18 | 1      | 6.65      | 3      | 0.002                | NR     | 2.28                      | 4      | 27.0                 | 3      |
| 107                   | 1.34 | 4      | 7.15      | 3      | < 0.002              | NR     |                           |        | 26.0                 | 4      |
| 109                   | 1.36 | 4      | 6.17      | 0      |                      |        | 3.70                      | 0      | 27.0                 | 3      |
| 110                   | 1.32 | 4      | 7.03      | 4      |                      |        | 2.34                      | 4      |                      |        |
| 113                   | 1.30 | 4      | 7.05      | 4      | < 0.004              | NR     | < 1                       | NR     | 26.0                 | 4      |
| 119                   | 1.35 | 4      | 6.49      | 2      | 0.000                | NR     | 2.38                      | 4      | 26.0                 | 4      |
| 132                   | 1.50 | 1      | 7.15      | 3      | < 0.01               | NR     |                           |        | 20.5                 | 0      |
| 134                   | 1.34 | 4      | 6.93      | 4      | 0.000                | NR     | 2.35                      | 4      | 26.6                 | 4      |
| 138                   | 1.35 | 4      | 6.78      | 4      | < 0.004              | NR     | 2.31                      | 4      | 26.7                 | 3      |
| 140                   | 1.43 | 3      | 6.42      | 1      | < 0.01               | NR     | 2.00                      | 2      | 32.5                 | 0      |
| 141                   | 1.39 | 4      | 6.96      | 4      | < 0.05               | NR     | 2.57                      | 4      | 26.8                 | 3      |
| 143                   |      |        | 6.69      | 3      | 0.002                | NR     |                           |        | 25.9                 | 4      |
| 145                   | 1.34 | 4      | 7.30      | 2      | < 0.01               | NR     | 2.19                      | 3      | 28.0                 | 1      |
| 146                   | 1.26 | 3      | 6.90      | 4      | < 0.05               | NR     | < 5                       | NR     | 30.6                 | 0      |
| 155                   |      |        | 6.53      | 2      | 0.001                | NR     |                           |        | 27.8                 | 1      |
| 158                   | 0.96 | 0      | 4.69      | 0      |                      |        | 30.50                     | 0      | 26.1                 | 4      |
| 180                   | 1.34 | 4      | 7.10      | 3      | < 0.01               | NR     | 2.60                      | 4      | 26.0                 | 4      |
| 183                   |      |        | 7.46      | 1      |                      |        |                           |        | 23.2                 | 0      |
| 190                   | 1.39 | 4      | 6.60      | 3      | 0.021                | NR     | 2.80                      | 2      | 27.6                 | 2      |
| 191                   | 2.07 | 0      |           |        | 0.400                | NR     | 2.38                      | 4      |                      |        |
| 193                   |      |        |           |        |                      |        |                           |        | 26.8                 | 3      |
| 196                   |      |        |           |        | < 0.05               | NR     | 2.40                      | 4      |                      |        |
| 197                   |      |        |           |        |                      |        | 2.36                      | 4      |                      |        |
| 203                   |      |        | 6.50      | 2      |                      |        | 2.86                      | 2      | 263.0                | 0      |
| 204                   |      |        | 6.74      | 3      | < 0.002              | NR     | 2.03                      | 2      | 26.3                 | 4      |
| 215                   | 1.60 | 0      | 7.05      | 4      | 0.030                | NR     | 3.16                      | 1      | 26.7                 | 3      |
| 220                   | 1.30 | 4      |           |        |                      |        | 8.90                      | 0      |                      |        |
| 221                   | 1.45 | 2      | 6.09      | 0      |                      |        | 0.41                      | 0      |                      |        |
| 224                   | 1.34 | 4      | 6.76      | 4      | 0.001                | NR     | 2.62                      | 3      | 25.0                 | 3      |
| 235                   | 1.19 | 2      |           |        | < 0.5                | NR     | 2.89                      | 2      |                      |        |
| 240                   |      |        | 6.74      | 3      | < 0.1                | NR     | 2.68                      | 3      | 24.7                 | 2      |
| 241                   | 1.30 | 4      | 6.83      | 4      | 0.003                | NR     | 2.00                      | 2      | 20.0                 | 0      |
| 243                   |      |        | 8.23      | 0      |                      |        |                           |        | 25.7                 | 4      |
| 244                   |      |        | 6.98      | 4      |                      |        |                           |        | 25.9                 | 4      |
| 247                   |      |        | 7.01      | 4      | < 0.001              | NR     | 2.80                      | 2      | 27.1                 | 3      |
| 255                   | 1.33 | 4      | 7.20      | 3      |                      |        |                           |        | 26.2                 | 4      |

Table 10. Laboratory performance ratings for standard reference water sample P-27 (low ionic strength)—Continued

(MPV, most probable value; ug/L, micrograms per liter; mg/L, milligrams per liter; Lab, laboratory number; OLR, overall laboratory rating for all reported values; V/11, number of reported values of 11 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 = Na (Sodium) |           | pH     |      | PO <sub>4</sub> as P |            | SO <sub>4</sub> (Sulfate) |           | Specific Conductance |            |        |
|-----------------------|-----------|--------|------|----------------------|------------|---------------------------|-----------|----------------------|------------|--------|
| MPV =                 | 1.34 mg/L |        | 6.92 |                      | 0.002 mg/L |                           | 2.42 mg/L |                      | 26.1 μS/cm |        |
| F-pseudosigma =       | 0.10      |        | 0.32 |                      | 0.014      |                           | 0.37      |                      | 1.1        |        |
| Lab                   | RV        | Rating | RV   | Rating               | RV         | Rating                    | RV        | Rating               | RV         | Rating |
| 256                   | 0.92      | 0      | 7.04 | 4                    |            |                           | 17.04     | 0                    |            |        |
| 257                   | 1.20      | 2      | 7.03 | 4                    | 0.020      | NR                        | 2.97      | 2                    | 25.5       | 3      |
| 258                   | 1.50      | 1      | 6.30 | 1                    | 0.038      | NR                        | 1.99      | 2                    | 29.4       | 0      |
| 261                   | 2.30      | 0      | 6.44 | 2                    | < 0.05     | NR                        | < 0.5     | 0                    | 26.1       | 4      |
| 262                   | 1.46      | 2      | 5.18 | 0                    |            |                           | 6.38      | 0                    | 24.0       | 1      |
| 265                   | 1.19      | 2      | 6.76 | 4                    |            |                           | 2.39      | 4                    |            |        |
| 268                   | 1.38      | 4      | 6.76 | 4                    |            |                           | 2.25      | 4                    | 24.0       | 1      |
| 270                   | 1.68      | 0      |      |                      |            |                           |           |                      |            |        |
| 271                   | 4.30      | 0      | 6.98 | 4                    | 0.150      | NR                        | 0.00      | 0                    | 25.7       | 4      |
| 272                   | 2.00      | 0      | 7.21 | 3                    |            |                           |           |                      | 25.0       | 3      |
| 273                   | 1.46      | 2      | 7.03 | 4                    | 0.000      | NR                        |           |                      | 50.7       | 0      |
| 276                   |           |        | 6.89 | 4                    |            |                           |           |                      | 25.1       | 3      |

Table 11. Laboratory performance ratings for standard reference water sample Hg-23 (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 = 0.34  $\mu$ g/L

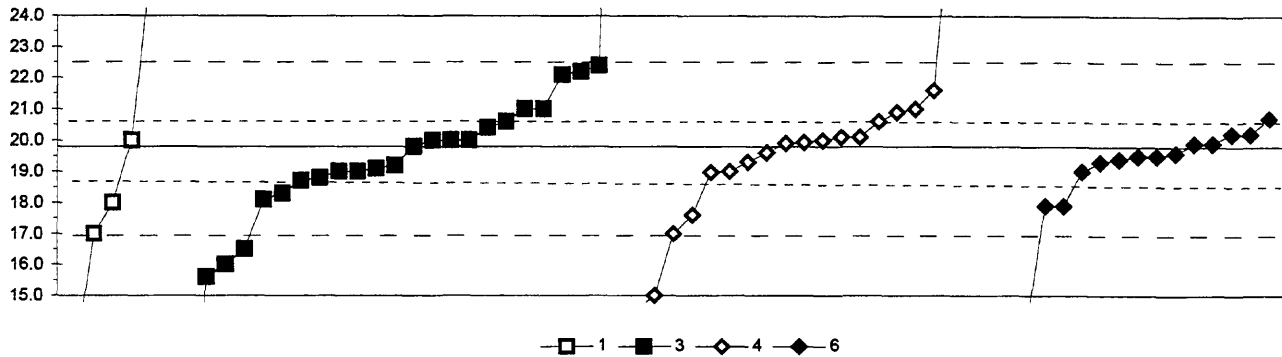
F-pseudosigma = 0.07

| Lab | V/1 | RV     | Rating |
|-----|-----|--------|--------|
| 1   | 1   | 0.30   | 3      |
| 3   | 1   | 4.40   | 0      |
| 7   | 1   | 0.34   | 4      |
| 10  | 1   | 0.33   | 4      |
| 11  | 1   | 0.28   | 3      |
| 13  | 1   | < 0.4  | NR     |
| 15  | 1   | 0.29   | 3      |
| 16  | 1   | 0.35   | 4      |
| 18  | 1   | 0.38   | 3      |
| 26  | 1   | 0.37   | 4      |
| 28  | 1   | 2.40   | 0      |
| 32  | 1   | 0.29   | 3      |
| 34  | 1   | 0.32   | 4      |
| 36  | 1   | 0.30   | 3      |
| 39  | 1   | 0.30   | 3      |
| 42  | 1   | 0.32   | 4      |
| 46  | 1   | 0.31   | 4      |
| 48  | 1   | 0.37   | 4      |
| 50  | 1   | 0.52   | 0      |
| 51  | 1   | 0.39   | 3      |
| 55  | 1   | 0.30   | 3      |
| 58  | 1   | < 0.5  | NR     |
| 59  | 1   | 0.32   | 4      |
| 68  | 1   | 0.25   | 2      |
| 69  | 1   | 0.33   | 4      |
| 70  | 1   | 0.40   | 3      |
| 76  | 1   | 0.29   | 3      |
| 81  | 1   | 0.30   | 3      |
| 86  | 1   | 0.31   | 3      |
| 87  | 1   | 0.50   | 0      |
| 89  | 1   | 0.39   | 3      |
| 96  | 1   | 0.37   | 4      |
| 97  | 1   | < 0.42 | NR     |
| 105 | 1   | 0.37   | 4      |
| 108 | 1   | 0.53   | 0      |
| 113 | 1   | 0.39   | 3      |
| 119 | 1   | 0.39   | 3      |
| 127 | 1   | 0.32   | 4      |
| 133 | 1   | 0.33   | 4      |
| 134 | 1   | 0.28   | 3      |
| 138 | 1   | 0.32   | 4      |
| 141 | 1   | 0.43   | 2      |
| 142 | 1   | 0.44   | 2      |
| 144 | 1   | 0.35   | 4      |
| 145 | 1   | 0.43   | 2      |
| 146 | 1   | 0.36   | 4      |
| 149 | 1   | 0.35   | 4      |
| 193 | 1   | 0.43   | 2      |
| 212 | 1   | 0.28   | 3      |
| 213 | 1   | 0.75   | 0      |
| 215 | 1   | 0.92   | 0      |
| 219 | 1   | 0.30   | 3      |
| 221 | 1   | 0.30   | 3      |
| 234 | 1   | 0.34   | 4      |
| 235 | 1   | 0.43   | 2      |
| 241 | 1   | 0.39   | 3      |
| 245 | 1   | 0.28   | 3      |
| 255 | 1   | 0.32   | 4      |
| 257 | 1   | 1.00   | 0      |
| 259 | 1   | 0.40   | 3      |
| 265 | 1   | 0.20   | 1      |

Table 12. *Statistical summary of reported data for standard reference water sample T-143 (trace constituents)*

| Definition of analytical methods, abbreviations, and symbols |                 |  |  |
|--|-----------------|--|--|
| <u>Analytical methods</u>                                    |                 |  |  |
| 0. Other/Not reported  |                 |  |  |
| 1. AA: direct, air   | =               | atomic absorption: direct,air                                |  |
| 2. AA: direct, N <sub>2</sub> 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]                       |  |
| <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  |  |
|  | 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>   |                 |  |  |
| Ag   | Silver          | 45   |  |
| Al   | Aluminium       | 46   |  |
| As   | Arsenic         | 47   |  |
| B  | Boron           | 48   |  |
| Ba   | Barium          | 49   |  |
| Be   | Beryllium       | 50   |  |
| Ca   | Calcium         | 51   |  |
| Cd   | Cadmium         | 52   |  |
| Co   | Cobalt          | 53   |  |
| Cr   | Chromium        | 54   |  |
| Cu   | Copper          | 55   |  |
| Fe   | Iron            | 56   |  |
| K  | Potassium       | 57   |  |
| Li   | Lithium         | 58   |  |
| <u>Constituent</u>   |                 |  |  |
| Mg   | Magnesium       | 59   |  |
| Mn   | Manganese       | 60   |  |
| Mo   | Molybdenum      | 61   |  |
| Na   | Sodium          | 62   |  |
| Ni   | Nickel          | 63   |  |
| Pb   | Lead            | 64   |  |
| Sb   | Antimony        | 65   |  |
| Se   | Selenium        | 66   |  |
| SiO <sub>2</sub>   | Silica          | 67   |  |
| Sr   | Strontium       | 68   |  |
| Tl   | Thallium        | 69   |  |
| U  | Uranium         | 70   |  |
| V  | Vanadium        | 71   |  |
| Zn   | Zinc            | 72   |  |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)--Continued  
Ag (Silver)  $\mu\text{g/L}$



|                         |                                |
|-------------------------|--------------------------------|
| 1. AA: direct air       | 6. ICP/MS                      |
| 3. AA: graphite furnace |                                |
| 4. ICP                  |                                |
|                         | N = 6 24 21 14                 |
|                         | Minimum = 13.0 6.7 14.5 14.0   |
|                         | Maximum = 26.0 40.0 143.0 20.7 |
|                         | Median = 19.5 20.0 19.5        |
|                         | F-pseudosigma = 1.7 1.5 0.7    |

MPV = 19.8  
F-pseudosigma = 1.4  
N = 65  
Hu = 20.6  
Hi = 18.7

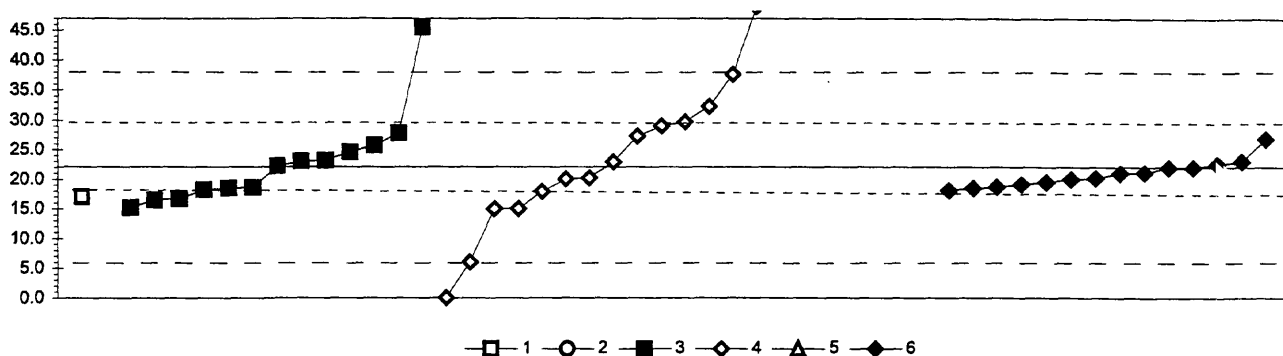
| Lab | Rating | Z-value | 1    | 3    | 4     | 6    |
|-----|--------|---------|------|------|-------|------|
| 1   | 4      | -0.15   |      |      |       | 19.6 |
| 3   | 0      | -3.41   |      |      |       | 15.0 |
| 7   | 2      | 1.28    |      |      |       | 21.6 |
| 11  | 3      | 0.85    |      |      |       | 21.0 |
| 13  | 4      | 0.21    |      |      |       | 20.1 |
| 15  | 1      | -1.56   |      |      |       | 17.6 |
| 16  | 4      | 0.07    |      |      |       | 19.9 |
| 18  | 3      | 0.78    |      |      |       | 20.9 |
| 23  | 1      | 1.70    |      | 22.2 |       |      |
| 26  | 0      | -2.98   |      | 15.6 |       |      |
| 30  | 3      | -0.57   |      |      |       | 19.0 |
| 32  | 4      | 0.07    |      |      |       | 19.9 |
| 36  | 0      | -4.83   | 13.0 |      |       |      |
| 39  | 4      | 0.28    |      |      |       | 20.2 |
| 40  | 4      | -0.36   |      |      |       | 19.3 |
| 42  | 3      | -0.57   |      |      |       | 19.0 |
| 46  | 4      | 0.14    |      | 20.0 |       |      |
| 48  | 4      | 0.14    |      | 20.0 |       |      |
| 58  | 3      | 0.85    |      | 21.0 |       |      |
| 68  | 0      | 14.34   |      | 40.0 |       |      |
| 69  | 4      | 0.00    |      | 19.8 |       |      |
| 70  | 3      | -0.78   |      | 18.7 |       |      |
| 73  | 1      | -1.99   |      |      | 17.0  |      |
| 75  | 4      | 0.21    |      |      | 20.1  |      |
| 76  | 4      | -0.28   |      |      |       | 19.4 |
| 85  | 4      | 0.14    | 20.0 |      |       |      |
| 87  | 0      | 4.40    | 26.0 |      |       |      |
| 89  | 4      | -0.50   |      | 19.1 |       |      |
| 96  | 4      | 0.43    |      | 20.4 |       |      |
| 97  | 3      | -0.57   |      | 19.0 |       |      |
| 102 | 0      | 87.47   |      |      | 143.0 |      |
| 105 | 2      | -1.35   |      |      |       | 17.9 |
| 107 | 4      | 0.14    |      | 20.0 |       |      |
| 113 | 2      | -1.21   |      | 18.1 |       |      |
| 114 | 2      | -1.28   | 18.0 |      |       |      |
| 118 | 0      | -9.30   |      | 6.7  |       |      |
| 119 | 0      | -2.34   |      | 16.5 |       |      |
| 127 | 3      | -0.71   |      | 18.8 |       |      |
| 128 | 4      | -0.21   |      |      |       | 19.5 |
| 133 | 4      | -0.14   |      |      | 19.6  |      |
| 134 | 3      | -0.59   |      |      | 19.0  |      |
| 138 | 3      | 0.57    |      |      | 20.6  |      |
| 141 | 0      | 6.53    |      |      | 29.0  |      |
| 142 | 4      | -0.36   |      |      |       | 19.3 |
| 146 | 0      | -6.40   |      |      | < 10  |      |
| 151 | 2      | -1.35   |      |      |       | 17.9 |
| 180 | 4      | 0.07    |      |      | 19.9  |      |
| 190 | 1      | 1.85    |      | 22.4 |       |      |
| 193 | 3      | -0.57   |      | 19.0 |       |      |
| 196 | 4      | -0.21   |      |      |       | 19.5 |

| Lab | Rating | Z-value | 1    | 3    | 4    | 6    |
|-----|--------|---------|------|------|------|------|
| 212 | 0      | -4.12   |      |      |      | 14.0 |
| 213 | 4      | -0.43   |      | 19.2 |      |      |
| 215 | 0      | 5.82    |      |      | 28.0 |      |
| 217 | 3      | 0.64    |      |      |      | 20.7 |
| 221 | 1      | 1.63    |      | 22.1 |      |      |
| 234 | 3      | 0.57    |      | 20.6 |      |      |
| 235 | 4      | 0.14    |      |      | 20.0 |      |
| 236 | 0      | -3.76   |      |      | 14.5 |      |
| 241 | 2      | -1.07   |      | 18.3 |      |      |
| 249 | 0      | -2.70   |      | 16.0 |      |      |
| 255 | 4      | 0.09    |      |      | 19.9 |      |
| 256 | 0      | 3.98    | 25.4 |      |      |      |
| 257 | 1      | -1.99   | 17.0 |      |      |      |
| 259 | 3      | 0.85    |      | 21.0 |      |      |
| 265 | 4      | 0.28    |      |      |      | 20.2 |
| 273 | 0      | 9.37    |      |      | 33.0 |      |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued

Al (Aluminum)

µg/L

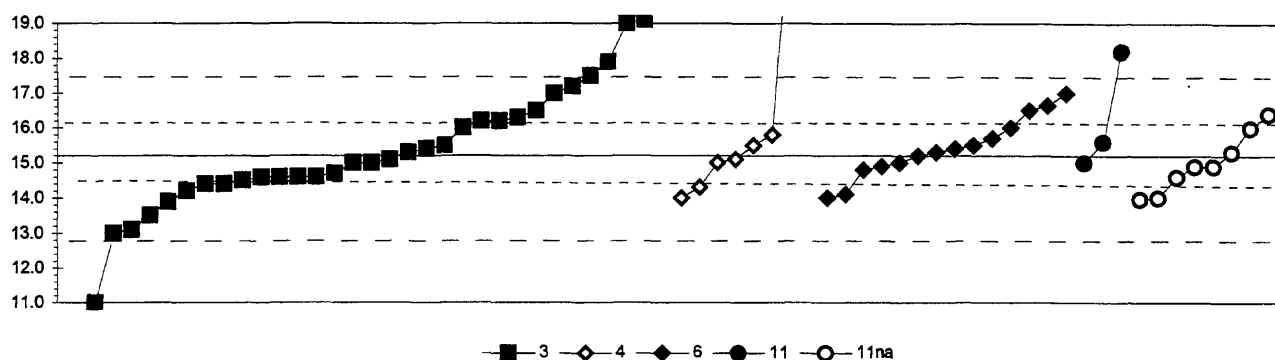


|                             |        |         |           |   |   |
|-----------------------------|--------|---------|-----------|---|---|
| 1. AA: direct air           |        |         | 4. ICP    |   |   |
| 2. AA: direct nitrous oxide |        |         | 5. DCP    |   |   |
| 3. AA: graphite furnace     |        |         | 6. ICP/MS |   |   |
| Lab                         | Rating | Z-value | 1         | 2 | 3 |
| 1                           | 4      | -0.36   |           |   |   |
| 3                           | 0      | 22.15   |           |   |   |
| 4                           | NR     |         |           |   |   |
| 7                           | 1      | 1.87    |           |   |   |
| 13                          | 4      |         |           |   |   |
| 15                          | NR     |         |           |   |   |
| 16                          | 4      | -0.43   |           |   |   |
| 18                          | NR     |         |           |   |   |
| 23                          | NR     |         |           |   |   |
| 26                          | 4      |         |           |   |   |
| 28                          | 2      | 1.23    |           |   |   |
| 32                          | 4      | 0.06    |           |   |   |
| 33                          | 0      | 9.38    |           |   |   |
| 36                          | NR     |         |           |   |   |
| 42                          | 4      | 0.11    |           |   |   |
| 48                          | 4      |         |           |   |   |
| 58                          | 3      | -0.61   |           |   |   |
| 68                          | 0      | 3.90    |           |   |   |
| 69                          | 3      |         |           |   |   |
| 70                          | NR     |         |           |   |   |
| 75                          | NR     |         |           |   |   |
| 76                          | 4      | -0.23   |           |   |   |
| 81                          | NR     |         |           |   |   |
| 83                          | NR     |         |           |   |   |
| 85                          | NR     |         |           |   |   |
| 89                          | 4      |         |           |   |   |
| 97                          | 4      |         |           |   |   |
| 102                         | 4      | -0.25   |           |   |   |
| 105                         | 4      | -0.12   |           |   |   |
| 107                         | 4      |         |           |   |   |
| 113                         | 4      | -0.23   |           |   |   |
| 118                         | NR     |         |           |   |   |
| 119                         | 4      | -0.31   |           |   |   |
| 127                         | NR     |         |           |   |   |
| 128                         | 4      | -0.41   |           |   |   |
| 132                         | 0      | 3.24    |           |   |   |
| 134                         | 4      | 0.10    |           |   |   |
| 138                         | 4      | -0.25   |           |   |   |
| 141                         | NR     |         |           |   |   |
| 142                         | 3      | 0.62    |           |   |   |
| 145                         | 0      | 4.36    |           |   |   |
| 146                         | NR     |         |           |   |   |
| 151                         | 4      | -0.48   |           |   |   |
| 180                         | NR     |         |           |   |   |
| 190                         | 3      |         |           |   |   |
| 191                         | 4      | -0.01   |           |   |   |
| 196                         | 4      | -0.01   |           |   |   |
| 203                         | 4      |         |           |   |   |
| 204                         | 4      |         |           |   |   |
| 212                         | 4      | -0.13   |           |   |   |

MPV = 22.1  
 F-pseudosigma = 8.3  
 N = 50  
 Hu = 29.7  
 HI = 18.5

|     |        |         |   |       |      |       |   |      |
|-----|--------|---------|---|-------|------|-------|---|------|
| Lab | Rating | Z-value | 1 | 2     | 3    | 4     | 5 | 6    |
| 215 | 0      | 13.84   |   |       |      | 137.0 |   |      |
| 217 | 0      | 3.73    |   |       |      | 53.1  |   |      |
| 219 | 3      | 0.83    |   |       |      | 29.0  |   |      |
| 221 | 3      |         |   |       | 27.8 |       |   |      |
| 224 | 0      | -2.66   |   |       |      | 0.0   |   |      |
| 234 | 3      | -0.51   |   |       |      | 17.9  |   |      |
| 235 | 3      | -0.86   |   |       |      | 15.0  |   |      |
| 236 | 3      | 0.92    |   |       |      | 29.7  |   |      |
| 240 | 0      | 19.14   |   |       |      | 181.0 |   |      |
| 241 | 3      |         |   |       | 15.2 |       |   |      |
| 249 | 0      |         |   |       | 45.5 |       |   |      |
| 255 | 3      | -0.86   |   |       |      | 15.0  |   |      |
| 257 | 0      | 10.59   |   | 110.0 |      |       |   |      |
| 265 | 3      | 0.57    |   |       |      |       |   | 26.9 |
| 273 | 1      | -1.94   |   |       |      | 6.0   |   |      |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
As (Arsenic)  $\mu\text{g/L}$



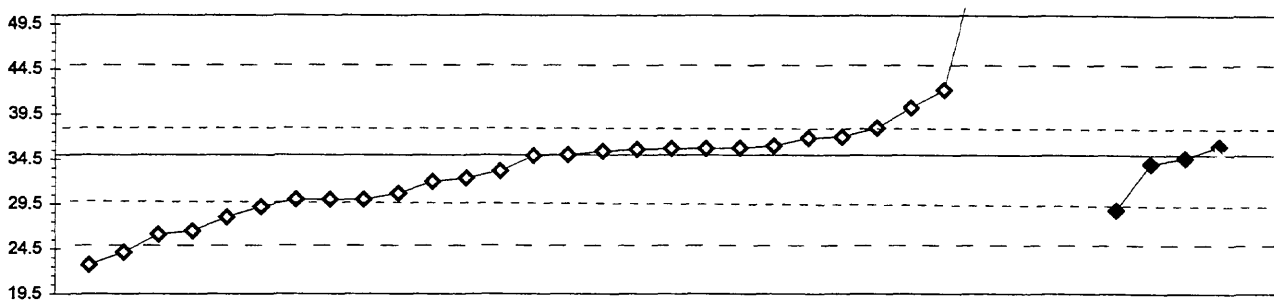
|                         |                                     |      |      |      |      |      |
|-------------------------|-------------------------------------|------|------|------|------|------|
| 3. AA: graphite furnace | 11. AA: hydride                     |      |      |      |      |      |
| 4. ICP                  | 11na. AA: hydride NaBH <sub>4</sub> |      |      |      |      |      |
| 6. ICP/MS               |                                     |      |      |      |      |      |
|                         | N =                                 | 33   | 8    | 14   | 3    | 8    |
|                         | Minimum =                           | 9.6  | 14.0 | 14.0 | 15.0 | 14.0 |
|                         | Maximum =                           | 20.5 | 27.4 | 17.0 | 18.2 | 16.4 |
|                         | Median =                            | 15.0 | 15.3 | 15.4 |      | 14.9 |
|                         | F-pseudosigma =                     | 1.4  | 3.2  | 0.8  |      | 1.0  |

MPV = 15.2  
F-pseudosigma = 1.2  
N = 66  
Hu = 16.2  
Hi = 14.6

| Lab | Rating | Z-value | 3    | 4     | 6    | 11   | 11na |
|-----|--------|---------|------|-------|------|------|------|
| 1   | 3      | 0.89    | 16.2 |       |      |      |      |
| 3   | 3      | -0.72   |      | 14.3  |      |      |      |
| 7   | NR     |         |      | < 120 |      |      |      |
| 10  | 3      | 0.72    |      |       |      |      | 16.0 |
| 11  | 4      | -0.13   |      | 15.0  |      |      |      |
| 13  | 4      | 0.30    | 15.5 |       |      |      |      |
| 15  | NR     |         |      | < 100 |      |      |      |
| 16  | 4      | 0.21    |      |       | 15.4 |      |      |
| 18  | 4      | -0.46   | 14.6 |       |      |      |      |
| 23  | 0      | 4.51    | 20.5 |       |      |      |      |
| 26  | 4      | -0.21   |      |       |      |      | 14.9 |
| 30  | 3      | -0.97   |      | 14.0  |      |      |      |
| 32  | 4      | -0.21   |      |       | 14.9 |      |      |
| 34  | 4      | 0.38    |      |       |      | 15.6 |      |
| 36  | 0      | -3.50   | 11.0 |       |      |      |      |
| 39  | 0      | 2.57    |      |       |      | 18.2 |      |
| 42  | 4      | -0.13   |      |       | 15.0 |      |      |
| 46  | 2      | -1.39   | 13.5 |       |      |      |      |
| 48  | 3      | -0.80   | 14.2 |       |      |      |      |
| 50  | 3      | -0.97   |      |       |      |      | 14.0 |
| 58  | 0      | 3.25    | 19.0 |       |      |      |      |
| 68  | 0      | -4.72   | 9.6  |       |      |      |      |
| 69  | 3      | 0.89    | 16.2 |       |      |      |      |
| 70  | 4      | 0.13    | 15.3 |       |      |      |      |
| 73  | 0      | 5.78    |      | 22.0  |      |      |      |
| 75  | 4      | -0.46   |      |       |      |      | 14.6 |
| 76  | 2      | 1.14    |      |       | 16.5 |      |      |
| 80  | 3      | 0.97    | 16.3 |       |      |      |      |
| 81  | 3      | 0.72    | 16.0 |       |      |      |      |
| 86  | 4      | 0.13    |      |       |      |      | 15.3 |
| 87  | 4      | -0.21   |      |       |      |      | 14.9 |
| 89  | 2      | 1.05    |      |       |      |      | 16.4 |
| 96  | 4      | -0.46   | 14.6 |       |      |      |      |
| 97  | 1      | 1.56    | 17.0 |       |      |      |      |
| 102 | 3      | 0.55    |      | 15.8  |      |      |      |
| 105 | 4      | 0.13    |      |       | 15.3 |      |      |
| 109 | 1      | -1.73   | 13.1 |       |      |      |      |
| 113 | 1      | 1.98    | 17.5 |       |      |      |      |
| 118 | 0      | 2.32    | 17.9 |       |      |      |      |
| 119 | 4      | -0.13   |      |       |      | 15.0 |      |
| 127 | 3      | -0.63   | 14.4 |       |      |      |      |
| 128 | 4      | -0.30   |      |       | 14.8 |      |      |
| 133 | 2      | 1.14    | 16.5 |       |      |      |      |
| 134 | 3      | -1.00   |      |       |      |      | 14.0 |
| 138 | 3      | -0.97   |      |       | 14.0 |      |      |
| 141 | 4      | -0.13   | 15.0 |       |      |      |      |
| 142 | 4      | 0.04    |      |       | 15.2 |      |      |
| 144 | 3      | -0.55   | 14.5 |       |      |      |      |
| 145 | 0      | 10.33   |      | 27.4  |      |      |      |
| 146 | 4      | -0.04   |      | 15.1  |      |      |      |

| Lab | Rating | Z-value | 3    | 4      | 6 | 11   | 11na |
|-----|--------|---------|------|--------|---|------|------|
| 151 | 3      | -0.89   |      |        |   |      | 14.1 |
| 180 | NR     |         |      | < 37.1 |   |      |      |
| 190 | 4      | 0.21    | 15.4 |        |   |      |      |
| 191 | 1      | 1.56    |      |        |   | 17.0 |      |
| 193 | 1      | -1.81   | 13.0 |        |   |      |      |
| 196 | 4      | 0.30    |      |        |   | 15.5 |      |
| 204 | 4      | -0.04   | 15.1 |        |   |      |      |
| 212 | 3      | 0.72    |      |        |   | 16.0 |      |
| 213 | 2      | -1.05   | 13.9 |        |   |      |      |
| 215 | 4      | -0.13   | 15.0 |        |   |      |      |
| 217 | 4      | 0.46    |      |        |   | 15.7 |      |
| 220 | 4      | -0.46   | 14.6 |        |   |      |      |
| 221 | 4      | -0.38   | 14.7 |        |   |      |      |
| 224 | 4      | 0.30    |      | 15.5   |   |      |      |
| 234 | 1      | 1.73    | 17.2 |        |   |      |      |
| 236 | NR     |         |      | < 35   |   |      |      |
| 241 | 3      | -0.63   | 14.4 |        |   |      |      |
| 249 | 0      | 3.33    | 19.1 |        |   |      |      |
| 255 | 4      | -0.46   | 14.6 |        |   |      |      |
| 265 | 2      | 1.26    |      |        |   | 16.7 |      |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)--Continued  
B (Boron)  $\mu\text{g/L}$



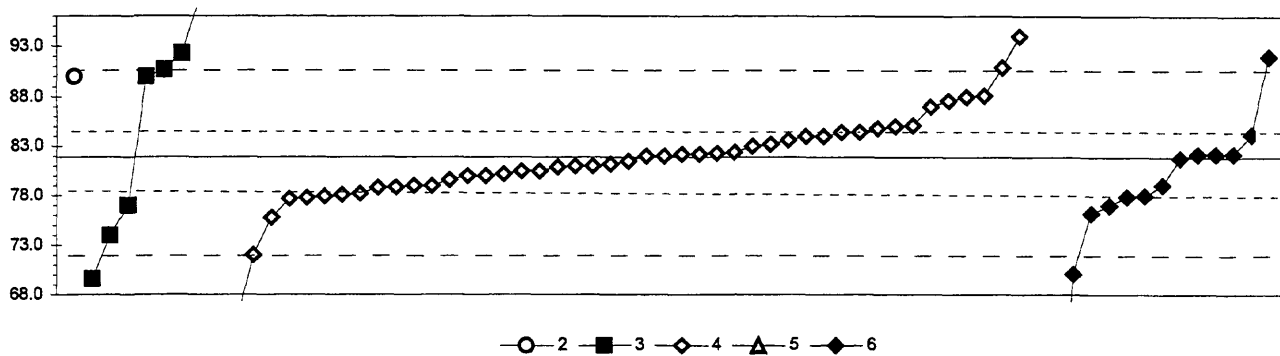
—◇— 4 —■— 6 —▲— 22az

|                         |                 |       |      |      |
|-------------------------|-----------------|-------|------|------|
| 4. ICP                  |                 |       |      |      |
| 6. ICP/MS               |                 |       |      |      |
| 22az. Color: azomethine |                 |       |      |      |
|                         | N =             | 30    | 4    | 1    |
|                         | Minimum =       | 22.7  | 28.8 | 95.0 |
|                         | Maximum =       | 140.0 | 36.0 |      |
|                         | Median =        | 35.2  |      |      |
|                         | F-pseudosigma = | 5.2   |      |      |

MPV = 35.0  
F-pseudosigma = 5.2  
N = 35  
Hu = 37.0  
HI = 30.0

| Lab | Rating | Z-value | 4     | 6    | 22az |
|-----|--------|---------|-------|------|------|
| 1   | 4      | -0.02   | 34.9  |      |      |
| 3   | 3      | -0.97   | 30.0  |      |      |
| 11  | 4      | 0.39    | 37.0  |      |      |
| 15  | NR     |         | < 50  |      |      |
| 16  | 0      | 4.29    | 57.1  |      |      |
| 18  | NR     |         | < 50  |      |      |
| 24  | 3      | -0.83   | 30.7  |      |      |
| 26  | 1      | -1.73   | 26.1  |      |      |
| 28  | 2      | 1.40    | 42.2  |      |      |
| 42  | 4      | 0.19    |       | 36.0 |      |
| 46  | 0      | -2.39   | 22.7  |      |      |
| 48  | NR     |         | < 100 |      |      |
| 68  | 0      | 20.38   | 140.0 |      |      |
| 70  | NR     |         | < 50  |      |      |
| 85  | 4      | 0.12    | 35.6  |      |      |
| 86  | 4      | 0.37    | 36.9  |      |      |
| 119 | 3      | -0.58   | 32.0  |      |      |
| 127 | 4      | 0.14    | 35.7  |      |      |
| 128 | 3      | -0.97   | 30.0  |      |      |
| 129 | 0      | 11.65   |       | 95.0 |      |
| 132 | 1      | -1.65   | 26.5  |      |      |
| 134 | 4      | 0.15    | 35.8  |      |      |
| 138 | 2      | -1.20   |       | 28.8 |      |
| 141 | 0      | -2.12   | 24.1  |      |      |
| 142 | 4      | 0.14    | 35.7  |      |      |
| 145 | 4      | 0.08    | 35.4  |      |      |
| 158 | 3      | 0.58    | 38.0  |      |      |
| 180 | 4      | -0.50   | 32.4  |      |      |
| 191 | 4      | -0.19   |       | 34.0 |      |
| 212 | NR     |         | < 50  |      |      |
| 215 | 0      | 13.78   | 106.0 |      |      |
| 217 | 2      | 1.01    | 40.2  |      |      |
| 219 | 4      | 0.00    | 35.0  |      |      |
| 234 | 4      | -0.35   | 33.2  |      |      |
| 235 | 3      | -0.97   | 30.0  |      |      |
| 236 | 2      | -1.13   | 29.2  |      |      |
| 240 | 2      | -1.36   | 28.0  |      |      |
| 255 | 4      | 0.19    | 36.0  |      |      |
| 265 | 4      | -0.07   |       | 34.7 |      |
| 273 | 0      | 4.46    | 58.0  |      |      |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
Ba (Barium)  $\mu\text{g/L}$



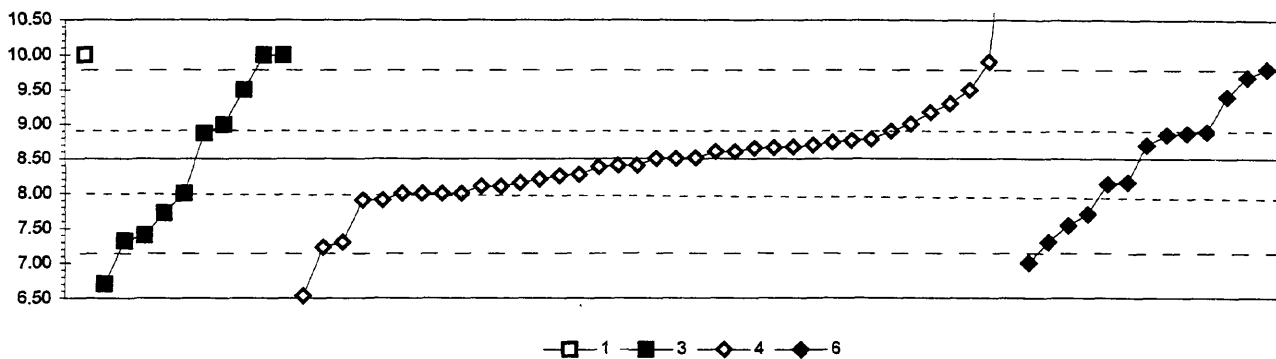
|                             |                           |
|-----------------------------|---------------------------|
| 2. AA: direct nitrous oxide | 5. DCP                    |
| 3. AA: graphite furnace     | 6. ICP/MS                 |
| 4. ICP                      |                           |
| N =                         | 1 8 45 1 13               |
| Minimum =                   | 90.0 69.6 64.5 102.0 41.0 |
| Maximum =                   | 98.1 94.0 92.0            |
| Median =                    | 90.4 81.5 79.1            |
| F-pseudosigma =             | 14.5 3.7 3.9              |

MPV = 81.9  
F-pseudosigma = 4.5  
N = 68  
Hu = 84.6  
Hi = 78.5

| Lab | Rating | Z-value | 2    | 3    | 4    | 5     | 6    |
|-----|--------|---------|------|------|------|-------|------|
| 1   | 4      | 0.08    |      |      |      |       | 82.2 |
| 3   | 3      | 0.55    |      |      | 84.4 |       |      |
| 4   | 2      | 1.13    |      |      | 87.0 |       |      |
| 7   | 4      | 0.38    |      |      | 83.6 |       |      |
| 11  | 4      | -0.20   |      |      | 81.0 |       |      |
| 13  | 2      | 1.37    |      |      | 88.1 |       |      |
| 15  | 3      | -0.88   |      |      | 77.9 |       |      |
| 16  | 4      | 0.07    |      |      |      |       | 82.2 |
| 18  | 3      | -0.64   |      |      | 79.0 |       |      |
| 19  | 4      | 0.07    |      |      | 82.2 |       |      |
| 24  | 3      | -0.69   |      |      | 78.8 |       |      |
| 25  | 3      | 0.55    |      |      | 84.4 |       |      |
| 26  | 4      | -0.22   |      |      | 80.9 |       |      |
| 28  | 3      | 0.71    |      |      | 85.1 |       |      |
| 30  | 4      | -0.42   |      |      | 80.0 |       |      |
| 32  | 3      | -0.88   |      |      |      |       | 77.9 |
| 33  | 0      | 4.45    |      |      |      | 102.0 |      |
| 36  | 1      | 1.79    | 90.0 |      |      |       |      |
| 39  | 3      | -0.62   |      |      |      |       | 79.1 |
| 40  | 3      | -0.84   |      |      | 78.1 |       |      |
| 46  | 3      | 0.69    |      |      | 85.0 |       |      |
| 48  | 0      | 3.52    |      | 97.8 |      |       |      |
| 50  | 1      | 1.79    |      | 90.0 |      |       |      |
| 55  | 3      | -0.82   |      |      | 78.2 |       |      |
| 68  | 4      | 0.24    |      |      | 83.0 |       |      |
| 70  | 4      | 0.09    |      |      | 82.3 |       |      |
| 75  | 4      | -0.15   |      |      | 81.2 |       |      |
| 81  | 3      | -0.86   |      |      |      |       | 78.0 |
| 83  | 3      | -0.91   |      |      | 77.8 |       |      |
| 85  | 4      | 0.29    |      |      | 83.2 |       |      |
| 86  | 4      | -0.09   |      |      | 81.5 |       |      |
| 87  | 1      | 1.95    |      | 90.7 |      |       |      |
| 89  | 0      | 3.58    |      | 98.1 |      |       |      |
| 96  | NR     | < 100   |      |      |      |       |      |
| 97  | 0      | -2.72   |      | 69.6 |      |       |      |
| 102 | 0      | 2.68    |      |      | 94.0 |       |      |
| 105 | 2      | -1.26   |      |      |      |       | 76.2 |
| 107 | 2      | -1.08   |      | 77.0 |      |       |      |
| 113 | 4      | -0.38   |      |      | 80.2 |       |      |
| 119 | 4      | 0.46    |      |      | 84.0 |       |      |
| 121 | 4      | -0.20   |      |      | 81.0 |       |      |
| 127 | 2      | -1.35   |      |      | 75.8 |       |      |
| 128 | 0      | -2.61   |      |      |      |       | 70.1 |
| 133 | 3      | -0.93   |      |      | 77.7 |       |      |
| 134 | 3      | -0.67   |      |      | 78.9 |       |      |
| 138 | 4      | -0.31   |      |      | 80.5 |       |      |
| 141 | 3      | 0.64    |      |      | 84.8 |       |      |
| 142 | 4      | -0.02   |      |      |      |       | 81.8 |
| 145 | 1      | 1.99    |      |      | 90.9 |       |      |
| 146 | 4      | 0.07    |      |      | 82.2 |       |      |

| Lab | Rating | Z-value | 2 | 3    | 4    | 5 | 6    |
|-----|--------|---------|---|------|------|---|------|
| 151 | 3      | 0.51    |   |      |      |   | 84.2 |
| 158 | 4      | 0.02    |   |      | 82.0 |   |      |
| 180 | 3      | -0.64   |   |      | 79.0 |   |      |
| 191 | 0      | -9.04   |   |      |      |   | 41.0 |
| 196 | 4      | 0.07    |   |      |      |   | 82.2 |
| 204 | 2      | 1.26    |   |      | 87.6 |   |      |
| 212 | 0      | 2.23    |   |      |      |   | 92.0 |
| 215 | 4      | 0.02    |   |      | 82.0 |   |      |
| 217 | 4      | 0.11    |   |      | 82.4 |   |      |
| 219 | 4      | -0.42   |   |      | 80.0 |   |      |
| 224 | 0      | -3.85   |   |      | 64.5 |   |      |
| 234 | 4      | 0.46    |   |      | 84.0 |   |      |
| 235 | 2      | 1.35    |   |      | 88.0 |   |      |
| 236 | 3      | -0.51   |   |      | 79.6 |   |      |
| 240 | 0      | -2.19   |   |      | 72.0 |   |      |
| 241 | 0      | 2.30    |   | 92.3 |      |   |      |
| 255 | 4      | -0.31   |   |      | 80.5 |   |      |
| 259 | 1      | -1.75   |   | 74.0 |      |   |      |
| 265 | 2      | -1.08   |   |      |      |   | 77.0 |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
Be (Berlyium)  $\mu\text{g/L}$



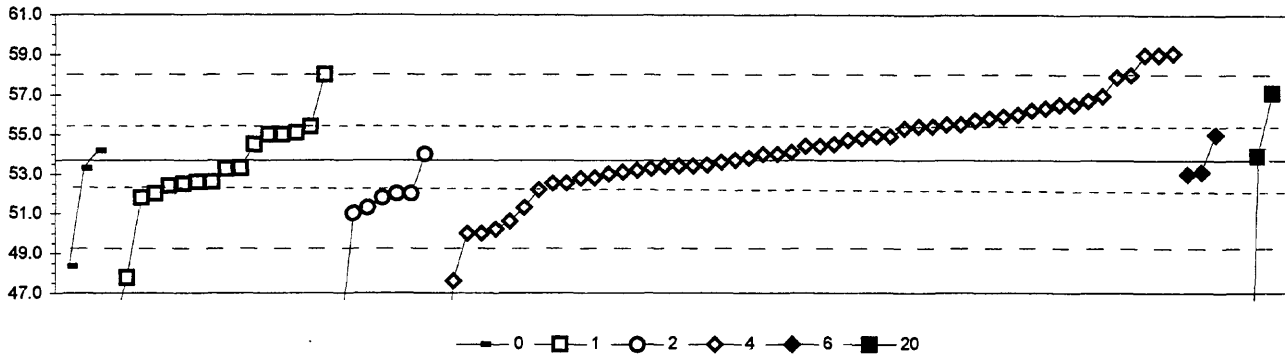
|                         |                            |
|-------------------------|----------------------------|
| 1. AA: direct air       | 6. ICP/MS                  |
| 3. AA: graphite furnace |                            |
| 4. ICP                  |                            |
| N =                     | 1      10      37      13  |
| Minimum =               | 10.00   6.70   6.53   7.00 |
| Maximum =               | 10.00   12.60   9.80       |
| Median =                | 8.44   8.50   8.70         |
| F-pseudostigma =        | 1.56   0.47   0.88         |

MPV = 8.50  
F-pseudostigma = 0.66  
N = 61  
Hu = 8.89  
HI = 8.00

| Lab | Rating | Z-value | 1      | 3     | 4    | 6    |
|-----|--------|---------|--------|-------|------|------|
| 1   | 3      | -0.56   |        |       |      | 8.13 |
| 3   | 3      | -0.76   |        |       | 8.00 |      |
| 4   | 3      | 0.76    |        |       | 9.00 |      |
| 7   | 3      | -0.61   |        |       | 8.10 |      |
| 11  | 4      | -0.15   |        |       | 8.40 |      |
| 13  | 4      | 0.36    |        |       | 8.74 |      |
| 15  | 4      | 0.15    |        |       | 8.60 |      |
| 16  | 2      | -1.21   |        |       |      | 7.70 |
| 18  | 4      | 0.00    |        |       | 8.50 |      |
| 25  | 0      | 2.12    |        |       | 9.90 |      |
| 26  | 4      | 0.24    |        |       | 8.66 |      |
| 30  | 1      | -1.82   |        |       | 7.30 |      |
| 32  | 2      | 1.36    |        |       |      | 9.40 |
| 36  | 0      | 2.27    |        | 10.00 |      |      |
| 39  | 1      | 1.52    |        | 9.50  |      |      |
| 40  | 3      | -0.91   |        |       | 7.90 |      |
| 46  | 4      | 0.39    |        |       | 8.76 |      |
| 48  | 0      | 2.27    |        | 10.00 |      |      |
| 68  | 3      | 0.61    |        |       | 8.90 |      |
| 69  | 1      | -1.79   |        | 7.32  |      |      |
| 70  | 4      | 0.26    |        |       | 8.67 |      |
| 75  | 4      | 0.00    |        |       | 8.50 |      |
| 76  | 1      | 1.79    |        |       |      | 9.68 |
| 81  | 0      | -2.27   |        |       |      | 7.00 |
| 83  | 4      | -0.45   |        |       | 8.20 |      |
| 85  | 2      | 1.02    |        |       | 9.17 |      |
| 86  | 4      | -0.38   |        |       | 8.25 |      |
| 89  | 1      | -1.67   |        | 7.40  |      |      |
| 96  | 0      | 2.27    | 10.00  |       |      |      |
| 97  | 3      | 0.74    |        | 8.99  |      |      |
| 102 | 3      | -0.76   |        |       | 8.00 |      |
| 105 | 1      | -1.82   |        |       |      | 7.30 |
| 113 | 4      | 0.42    |        |       | 8.78 |      |
| 119 | 2      | -1.18   |        | 7.72  |      |      |
| 121 | 3      | -0.76   |        |       | 8.00 |      |
| 127 | 0      | -2.99   |        |       | 6.53 |      |
| 128 | 2      | -1.46   |        |       |      | 7.54 |
| 133 | 4      | 0.30    |        |       | 8.70 |      |
| 134 | 4      | 0.02    |        |       | 8.51 |      |
| 138 | 4      | 0.23    |        |       | 8.65 |      |
| 141 | 3      | -0.53   |        |       | 8.15 |      |
| 142 | 3      | 0.56    |        |       |      | 8.87 |
| 144 | 0      | -12.86  | < 0.01 |       |      |      |
| 145 | 1      | 1.52    |        |       | 9.50 |      |
| 146 | 1      | -1.92   |        |       | 7.23 |      |
| 151 | 3      | -0.52   |        |       |      | 8.16 |
| 158 | 2      | 1.21    |        |       | 9.30 |      |
| 180 | 4      | 0.15    |        |       | 8.60 |      |
| 191 | 3      | 0.59    |        |       |      | 8.89 |
| 193 | 3      | -0.76   |        | 8.00  |      |      |

| Lab | Rating | Z-value | 1 | 3    | 4     | 6    |
|-----|--------|---------|---|------|-------|------|
| 196 | 3      | 0.53    |   |      |       | 8.85 |
| 212 | 1      | 1.97    |   |      |       | 9.80 |
| 213 | 3      | 0.56    |   | 8.87 |       |      |
| 215 | 3      | -0.61   |   |      | 8.10  |      |
| 217 | 4      | -0.15   |   |      | 8.40  |      |
| 224 | 0      | 6.21    |   |      | 12.60 |      |
| 234 | 4      | -0.18   |   |      | 8.38  |      |
| 235 | 3      | -0.76   |   |      | 8.00  |      |
| 236 | 3      | -0.91   |   |      | 7.90  |      |
| 241 | 0      | -2.73   |   | 6.70 |       |      |
| 255 | 4      | -0.35   |   |      | 8.27  |      |
| 265 | 4      | 0.30    |   |      |       | 8.70 |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
Ca (Calcium) mg/L



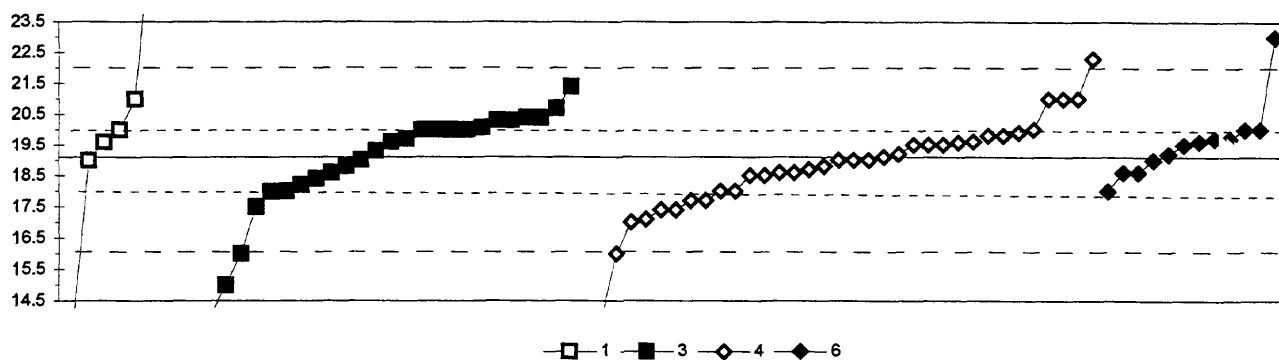
|                             |                 |      |      |      |      |      |      |
|-----------------------------|-----------------|------|------|------|------|------|------|
| 0. Other                    |                 |      |      |      |      |      |      |
| 1. AA: direct air           |                 |      |      |      |      |      |      |
| 2. AA: direct nitrous oxide |                 |      |      |      |      |      |      |
|                             | N =             | 3    | 16   | 7    | 53   | 3    | 4    |
|                             | Minimum =       | 48.3 | 44.8 | 44.0 | 32.7 | 53.0 | 0.0  |
|                             | Maximum =       | 54.2 | 58.0 | 54.0 | 59.1 | 55.0 | 57.1 |
|                             | Median =        |      | 52.9 | 51.8 | 54.4 |      |      |
|                             | F-pseudosigma = |      | 2.1  | 0.6  | 2.0  |      |      |

MPV = 53.7  
F-pseudosigma = 2.2  
N = 86  
Hu = 55.4  
Hi = 52.4

| Lab | Rating | Z-value | 0    | 1    | 2    | 4    | 6    | 20 |
|-----|--------|---------|------|------|------|------|------|----|
| 1   | 4      | -0.50   |      |      |      | 52.5 |      |    |
| 3   | 4      | 0.34    |      |      |      | 54.4 |      |    |
| 4   | 4      | -0.11   |      |      |      | 53.4 |      |    |
| 7   | 3      | 0.97    |      |      |      | 55.8 |      |    |
| 11  | 2      | 1.19    |      |      |      | 56.3 |      |    |
| 13  | 0      | 2.41    |      |      |      | 59.0 |      |    |
| 15  | 2      | -1.37   |      |      |      | 50.6 |      |    |
| 16  | 4      | 0.16    |      |      |      | 54.0 |      |    |
| 18  | 4      | -0.09   |      |      |      | 53.5 |      |    |
| 19  | 4      | -0.02   |      |      |      | 53.6 |      |    |
| 23  | 3      | -0.52   |      | 52.5 |      |      |      |    |
| 24  | 4      | -0.11   |      |      |      | 53.4 |      |    |
| 25  | 3      | 0.52    |      |      |      | 54.8 |      |    |
| 26  | 4      | 0.07    |      |      |      | 53.8 |      |    |
| 28  | 3      | 0.79    |      |      |      | 55.4 |      |    |
| 30  | 4      | 0.16    |      |      | 54.0 |      |      |    |
| 32  | 3      | 0.61    |      |      |      |      | 55.0 |    |
| 33  | 4      | 0.25    | 54.2 |      |      |      |      |    |
| 36  | 3      | -0.74   |      |      | 52.0 |      |      |    |
| 42  | 2      | 1.37    |      |      |      | 56.7 |      |    |
| 43  | 4      | 0.16    |      |      |      | 54.0 |      |    |
| 46  | 2      | 1.06    |      |      |      | 56.0 |      |    |
| 48  | 2      | 1.01    |      |      |      | 55.9 |      |    |
| 55  | 3      | 0.56    |      |      |      | 54.9 |      |    |
| 68  | 2      | 1.28    |      |      |      | 56.5 |      |    |
| 69  | 3      | -0.56   |      | 52.4 |      |      |      |    |
| 70  | 3      | 0.79    |      |      |      | 55.4 |      |    |
| 75  | 4      | -0.16   |      | 53.3 |      |      |      |    |
| 81  | 4      | -0.29   |      |      |      |      | 53.0 |    |
| 83  | 4      | -0.25   |      |      |      | 53.1 |      |    |
| 85  | 3      | 0.79    |      | 55.4 |      |      |      |    |
| 86  | 3      | 0.83    |      |      |      | 55.5 |      |    |
| 87  | 2      | -1.06   |      |      | 51.3 |      |      |    |
| 89  | 4      | -0.47   |      | 52.6 |      |      |      |    |
| 97  | 3      | -0.83   |      | 51.8 |      |      |      |    |
| 102 | 1      | 1.96    |      |      |      | 58.0 |      |    |
| 105 | 4      | -0.38   |      |      |      | 52.8 |      |    |
| 107 | 3      | -0.74   |      | 52.0 |      |      |      |    |
| 109 | 4      | -0.47   |      | 52.6 |      |      |      |    |
| 110 | 3      | 0.61    |      | 55.0 |      |      |      |    |
| 113 | 1      | 1.91    |      |      |      | 57.9 |      |    |
| 114 | 0      | -4.34   |      |      | 44.0 |      |      |    |
| 119 | 4      | 0.02    |      |      |      | 53.7 |      |    |
| 121 | 3      | -0.65   |      |      |      | 52.2 |      |    |
| 128 | 3      | 0.92    |      |      |      | 55.7 |      |    |
| 129 | 1      | 1.96    |      | 58.0 |      |      |      |    |
| 132 | 4      | -0.12   |      |      |      | 53.4 |      |    |
| 133 | 4      | -0.29   |      |      |      | 53.0 |      |    |
| 134 | 4      | 0.38    |      |      |      | 54.5 |      |    |
| 138 | 3      | 0.56    |      |      |      | 54.9 |      |    |

| Lab | Rating | Z-value | 0    | 1    | 2    | 4    | 6    | 20   |
|-----|--------|---------|------|------|------|------|------|------|
| 140 | 4      | 0.38    |      | 54.5 |      |      |      |      |
| 141 | 2      | 1.15    |      |      |      | 56.2 |      |      |
| 142 | 4      | -0.17   |      |      |      | 53.3 |      |      |
| 145 | 0      | 2.45    |      |      |      | 59.1 |      |      |
| 146 | 1      | -1.64   |      |      |      | 50.0 |      |      |
| 158 | 4      | 0.47    |      |      |      | 54.7 |      |      |
| 180 | 4      | 0.34    |      |      |      | 54.4 |      |      |
| 190 | 4      | -0.16   | 53.3 |      |      |      |      |      |
| 191 | 4      | -0.25   |      |      |      |      | 53.1 |      |
| 193 | 3      | -0.83   |      |      | 51.8 |      |      |      |
| 203 | 0      | -2.64   |      | 47.8 |      |      |      |      |
| 204 | 4      | -0.20   |      |      |      | 53.2 |      |      |
| 212 | 2      | 1.28    |      |      |      | 56.5 |      |      |
| 215 | 3      | 0.74    |      |      |      | 55.3 |      |      |
| 217 | 1      | -1.55   |      |      |      | 50.2 |      |      |
| 218 | 3      | -0.74   |      |      | 52.0 |      |      |      |
| 219 | 1      | -1.64   |      |      |      | 50.0 |      |      |
| 220 | 3      | 0.61    |      | 55.0 |      |      |      |      |
| 221 | 3      | 0.65    |      | 55.1 |      |      |      |      |
| 224 | 2      | -1.06   |      |      |      | 51.3 |      |      |
| 234 | 3      | 0.83    |      |      |      | 55.5 |      |      |
| 235 | 0      | 2.41    |      |      |      | 59.0 |      |      |
| 236 | 4      | -0.50   |      |      |      | 52.5 |      |      |
| 240 | 0      | -2.72   |      |      |      | 47.6 |      |      |
| 241 | 0      | -3.98   |      | 44.8 |      |      |      |      |
| 246 | 0      | -9.44   |      |      |      | 32.7 |      |      |
| 255 | 4      | -0.38   |      |      |      | 52.8 |      |      |
| 257 | 2      | -1.19   |      |      | 51.0 |      |      |      |
| 261 | 1      | 1.55    |      |      |      |      |      | 57.1 |
| 265 | 4      | 0.20    |      |      |      | 54.1 |      |      |
| 268 | 4      | -0.18   |      | 53.3 |      |      |      |      |
| 270 | 0      | -2.39   | 48.3 |      |      |      |      |      |
| 271 | 4      | 0.12    |      |      |      |      |      | 53.9 |
| 272 | 0      | -13.49  |      |      |      |      |      | 23.7 |
| 273 | 2      | 1.48    |      |      |      | 56.9 |      |      |
| 274 | 0      | -24.12  |      |      |      |      |      | 0.0  |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
Cd (Cadmium)  $\mu\text{g/L}$



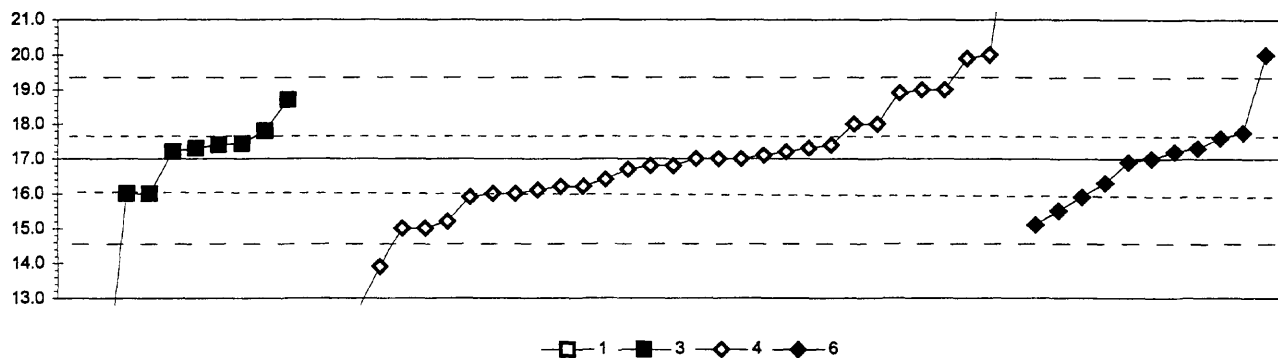
|                         |           |      |      |      |
|-------------------------|-----------|------|------|------|
| 1. AA: direct air       | 6. ICP/MS |      |      |      |
| 3. AA: graphite furnace |           |      |      |      |
| 4. ICP                  |           |      |      |      |
| N =                     | 6         | 28   | 35   | 12   |
| Minimum =               | 13.9      | 6.4  | 13.6 | 18.0 |
| Maximum =               | 26.0      | 21.4 | 22.3 | 23.0 |
| Median =                |           | 19.2 | 19.0 | 19.6 |
| F-pseudosigma =         |           | 1.7  | 1.3  | 0.8  |

MPV = 19.1  
F-pseudosigma = 1.5  
N = 81  
Hu = 20.0  
HI = 18.0

| Lab | Rating | Z-value | 1    | 3    | 4     | 6    |
|-----|--------|---------|------|------|-------|------|
| 1   | 3      | 0.65    |      | 20.1 |       |      |
| 3   | 4      | 0.27    |      |      | 19.5  |      |
| 4   | NR     |         |      |      | < 100 |      |
| 7   | 2      | 1.28    |      |      | 21.0  |      |
| 11  | 4      | -0.07   |      |      | 19.0  |      |
| 13  | 2      | -1.15   |      |      | 17.4  |      |
| 15  | 0      | -2.77   | 15.0 |      |       |      |
| 16  | 4      | 0.40    |      |      |       | 19.7 |
| 18  | 4      | -0.27   |      |      | 18.7  |      |
| 19  | 4      | 0.47    |      |      | 19.8  |      |
| 23  | 4      | -0.20   | 18.8 |      |       |      |
| 24  | 3      | -0.94   |      |      | 17.7  |      |
| 25  | 2      | 1.28    |      |      | 21.0  |      |
| 26  | 3      | 0.88    | 20.4 |      |       |      |
| 28  | 0      | -3.71   |      |      | 13.6  |      |
| 30  | 4      | 0.27    |      |      | 19.5  |      |
| 32  | 4      | -0.34   |      |      |       | 18.6 |
| 36  | 4      | -0.07   |      | 19.0 |       |      |
| 39  | 3      | -0.74   |      | 18.0 |       |      |
| 40  | 4      | -0.34   |      |      | 18.6  |      |
| 42  | 3      | -0.74   |      |      |       | 18.0 |
| 46  | 4      | -0.34   |      | 18.6 |       |      |
| 48  | 3      | -0.74   |      | 18.0 |       |      |
| 58  | 3      | 0.61    |      | 20.0 |       |      |
| 68  | 4      | 0.27    |      |      | 19.5  |      |
| 69  | 3      | 0.61    |      | 20.0 |       |      |
| 70  | 3      | -0.61   |      | 18.2 |       |      |
| 73  | 4      | -0.07   |      |      | 19.0  |      |
| 75  | 4      | 0.07    |      |      | 19.2  |      |
| 80  | 0      | -3.51   | 13.9 |      |       |      |
| 81  | 3      | 0.61    |      | 20.0 |       |      |
| 83  | 4      | -0.40   |      |      | 18.5  |      |
| 85  | 4      | 0.34    | 19.6 |      |       |      |
| 86  | 3      | -0.94   |      |      | 17.7  |      |
| 87  | 2      | 1.28    | 21.0 |      |       |      |
| 89  | 3      | 0.81    |      | 20.3 |       |      |
| 96  | 2      | -1.08   |      | 17.5 |       |      |
| 97  | 4      | 0.13    |      | 19.3 |       |      |
| 102 | 2      | 1.28    |      |      | 21.0  |      |
| 105 | 4      | 0.40    |      |      |       | 19.7 |
| 113 | 4      | 0.00    |      |      | 19.1  |      |
| 114 | 4      | -0.07   | 19.0 |      |       |      |
| 118 | 0      | -8.57   |      | 6.4  |       |      |
| 119 | 4      | -0.47   |      | 18.4 |       |      |
| 121 | 3      | -0.74   |      |      | 18.0  |      |
| 127 | 2      | -1.15   |      |      | 17.4  |      |
| 128 | 4      | 0.27    |      |      |       | 19.5 |
| 132 | 4      | -0.40   |      |      | 18.5  |      |
| 133 | 3      | 0.54    |      |      | 19.9  |      |
| 134 | 4      | -0.20   |      |      | 18.8  |      |

| Lab | Rating | Z-value | 1    | 3    | 4    | 6    |
|-----|--------|---------|------|------|------|------|
| 138 | 4      | -0.07   |      |      |      | 19.0 |
| 140 | 3      | 0.61    | 20.0 |      |      |      |
| 141 | 4      | 0.47    |      |      | 19.8 |      |
| 142 | 3      | 0.61    |      |      |      | 20.0 |
| 145 | 0      | 2.16    |      |      | 22.3 |      |
| 146 | 4      | -0.34   |      |      | 18.6 |      |
| 151 | 4      | 0.34    |      |      |      | 19.6 |
| 158 | 0      | -6.95   |      | 8.8  |      |      |
| 180 | 4      | 0.34    |      |      | 19.6 |      |
| 190 | 2      | 1.08    |      | 20.7 |      |      |
| 191 | 4      | -0.34   |      |      |      | 18.6 |
| 193 | 3      | 0.61    |      | 20.0 |      |      |
| 196 | 4      | 0.07    |      |      |      | 19.2 |
| 212 | 0      | 2.63    |      |      |      | 23.0 |
| 213 | 1      | 1.55    |      | 21.4 |      |      |
| 215 | 4      | -0.07   |      |      | 19.0 |      |
| 217 | 2      | -1.35   |      |      | 17.1 |      |
| 219 | 3      | -0.74   |      |      | 18.0 |      |
| 221 | 4      | 0.34    |      | 19.6 |      |      |
| 224 | 0      | -3.51   |      |      | 13.9 |      |
| 234 | 4      | 0.40    |      | 19.7 |      |      |
| 235 | 3      | 0.61    |      |      | 20.0 |      |
| 236 | 2      | -1.42   |      |      | 17.0 |      |
| 241 | 3      | 0.81    |      | 20.3 |      |      |
| 249 | 0      | -2.09   |      | 16.0 |      |      |
| 255 | 4      | 0.32    |      |      | 19.6 |      |
| 256 | 3      | 0.88    |      | 20.4 |      |      |
| 257 | 0      | 4.65    | 26.0 |      |      |      |
| 259 | 0      | -3.44   |      | 14.0 |      |      |
| 265 | 3      | 0.61    |      |      |      | 20.0 |
| 273 | 0      | -2.09   |      |      | 16.0 |      |
| 274 | 0      | -7.88   |      | 7.4  |      |      |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
Co (Cobalt)  $\mu\text{g/L}$



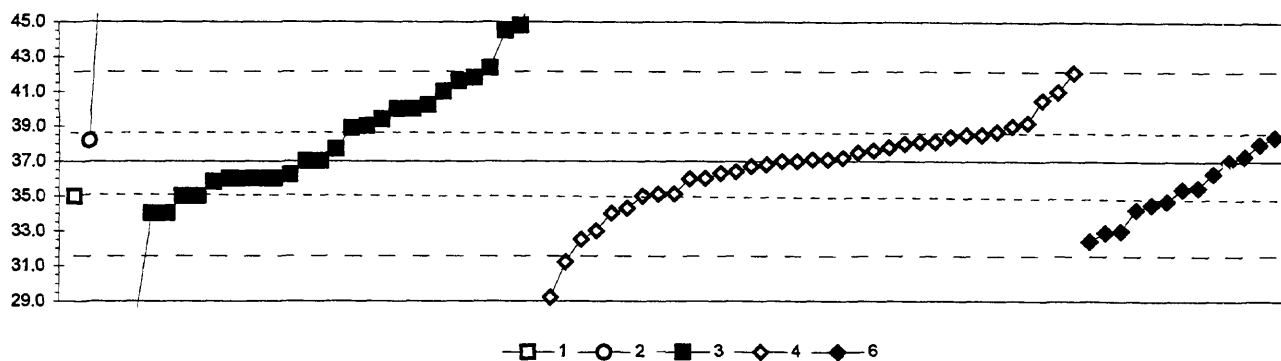
|                         |                              |
|-------------------------|------------------------------|
| 1. AA: direct air       | 6. ICP/MS                    |
| 3. AA: graphite furnace |                              |
| 4. ICP                  |                              |
|                         | N = 1 9 32 11                |
|                         | Minimum = 23.0 10.0 8.0 15.1 |
|                         | Maximum = 18.7 24.2 20.0     |
|                         | Median = 17.3 16.8 17.0      |
|                         | F-pseudosigma = 1.1 1.3 1.0  |

MPV = 17.0  
F-pseudosigma = 1.2  
N = 53  
Hu = 17.6  
HI = 16.0

| Lab | Rating | Z-value | 1 | 3    | 4     | 6    |
|-----|--------|---------|---|------|-------|------|
| 1   | 4      | 0.36    |   | 17.4 |       |      |
| 3   | 1      | -1.69   |   |      | 15.0  |      |
| 4   | NR     |         |   |      | < 100 |      |
| 7   | 0      | 2.45    |   |      | 19.9  |      |
| 11  | 3      | 0.84    |   |      | 18.0  |      |
| 13  | 0      | -3.71   |   |      | 12.6  |      |
| 15  | NR     |         |   |      | < 20  |      |
| 16  | 4      | -0.08   |   |      |       | 16.9 |
| 18  | 3      | -0.76   |   |      | 16.1  |      |
| 24  | 0      | -3.96   |   |      | 12.3  |      |
| 26  | 3      | -0.51   |   |      | 16.4  |      |
| 30  | 4      | 0.00    |   |      | 17.0  |      |
| 32  | 4      | 0.17    |   |      |       | 17.2 |
| 40  | 1      | -1.52   |   |      | 15.2  |      |
| 42  | 0      | 2.53    |   |      |       | 20.0 |
| 46  | 4      | 0.34    |   |      | 17.4  |      |
| 48  | NR     |         |   |      | < 50  |      |
| 50  | 3      | -0.84   |   | 16.0 |       |      |
| 68  | 3      | 0.84    |   |      | 18.0  |      |
| 70  | NR     |         |   |      | < 50  |      |
| 75  | 1      | 1.60    |   |      | 18.9  |      |
| 86  | 4      | -0.17   |   |      | 16.8  |      |
| 89  | 3      | 0.67    |   | 17.8 |       |      |
| 97  | 4      | 0.17    |   | 17.2 |       |      |
| 102 | 0      | 2.53    |   |      |       | 20.0 |
| 105 | 2      | -1.26   |   |      |       | 15.5 |
| 119 | 3      | -0.93   |   |      |       | 15.9 |
| 121 | 3      | -0.84   |   |      | 16.0  |      |
| 127 | 4      | 0.25    |   | 17.3 |       |      |
| 128 | 4      | 0.00    |   |      | 17.0  |      |
| 132 | 4      | 0.00    |   |      | 17.0  |      |
| 134 | 4      | -0.25   |   |      | 16.7  |      |
| 138 | 1      | -1.60   |   |      |       | 15.1 |
| 141 | 3      | -0.67   |   |      | 16.2  |      |
| 142 | 3      | -0.59   |   |      |       | 16.3 |
| 145 | 0      | 6.07    |   |      | 24.2  |      |
| 146 | 3      | -0.67   |   |      | 16.2  |      |
| 158 | 4      | 0.08    |   |      | 17.1  |      |
| 180 | 4      | 0.25    |   |      | 17.3  |      |
| 191 | 3      | 0.51    |   |      |       | 17.6 |
| 196 | 4      | 0.25    |   |      |       | 17.3 |
| 212 | 4      | 0.00    |   |      |       | 17.0 |
| 213 | 2      | 1.43    |   | 18.7 |       |      |
| 215 | 1      | 1.69    |   |      | 19.0  |      |
| 217 | 4      | -0.17   |   |      | 16.8  |      |
| 219 | 3      | -0.84   |   |      | 16.0  |      |
| 221 | 3      | -0.84   |   | 16.0 |       |      |
| 224 | 3      | -0.93   |   |      | 15.9  |      |
| 234 | 4      | 0.34    |   | 17.4 |       |      |
| 235 | 1      | 1.69    |   |      | 19.0  |      |

| Lab | Rating | Z-value | 1    | 3    | 4    | 6    |
|-----|--------|---------|------|------|------|------|
| 236 | 0      | -2.61   |      |      | 13.9 |      |
| 240 | 1      | -1.69   |      |      | 15.0 |      |
| 255 | 4      | 0.17    |      |      | 17.2 |      |
| 257 | 0      | 5.06    | 23.0 |      |      |      |
| 259 | 0      | -5.90   |      | 10.0 |      |      |
| 265 | 3      | 0.63    |      |      |      | 17.8 |
| 273 | 0      | -7.59   |      |      | 8.0  |      |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
Cr (Chromium)  $\mu\text{g/L}$



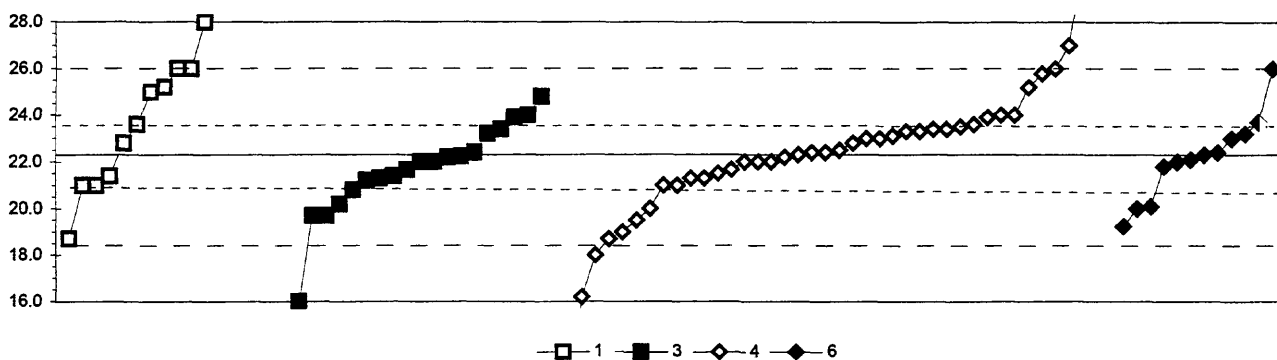
|                             |                                      |
|-----------------------------|--------------------------------------|
| 1. AA: direct air           | 4. ICP                               |
| 2. AA: direct nitrous oxide | 6. ICP/MS                            |
| 3. AA: graphite furnace     |                                      |
| N =                         | 1      2      28      35      13     |
| Minimum =                   | 35.0    38.2    25.6    29.2    32.4 |
| Maximum =                   | 52.0    47.0    42.1    38.4         |
| Median =                    | 37.4    37.1    35.4                 |
| F-pseudosigma =             | 3.5    2.0    2.1                    |

MPV = 37.0  
F-pseudosigma = 2.6  
N = 79  
Hu = 38.6  
Hi = 35.1

| Lab | Rating | Z-value | 1    | 2 | 3    | 4     | 6    |
|-----|--------|---------|------|---|------|-------|------|
| 1   | 3      | -0.57   |      |   |      |       | 35.5 |
| 3   | 3      | 0.76    |      |   |      | 39.0  |      |
| 4   | NR     |         |      |   |      | < 100 |      |
| 7   | 4      | 0.42    |      |   |      | 38.1  |      |
| 11  | 4      | -0.38   |      |   |      | 36.0  |      |
| 13  | 3      | 0.57    |      |   |      | 38.5  |      |
| 15  | 3      | -0.72   |      |   |      | 35.1  |      |
| 16  | 2      | -1.06   |      |   |      |       | 34.2 |
| 18  | 4      | -0.27   |      |   |      | 36.3  |      |
| 19  | 4      | 0.30    |      |   |      | 37.8  |      |
| 23  | 3      | -0.76   |      |   | 35.0 |       |      |
| 24  | 0      | -2.20   |      |   |      | 31.2  |      |
| 25  | 4      | 0.00    |      |   |      | 37.0  |      |
| 26  | 4      | 0.19    |      |   |      | 37.5  |      |
| 30  | 4      | 0.00    |      |   |      | 37.0  |      |
| 32  | 4      | 0.11    |      |   |      |       | 37.3 |
| 36  | 4      | 0.00    |      |   | 37.0 |       |      |
| 39  | 0      | -3.42   |      |   | 28.0 |       |      |
| 40  | 1      | -1.71   |      |   |      | 32.5  |      |
| 42  | 4      | 0.38    |      |   |      |       | 38.0 |
| 46  | 4      | -0.46   |      |   | 35.8 |       |      |
| 48  | 1      | 1.82    |      |   | 41.8 |       |      |
| 50  | 4      | -0.38   |      |   | 36.0 |       |      |
| 58  | 4      | 0.00    |      |   | 37.0 |       |      |
| 68  | 3      | 0.57    |      |   |      | 38.5  |      |
| 69  | 4      | -0.38   |      |   | 36.0 |       |      |
| 70  | 4      | 0.04    |      |   |      | 37.1  |      |
| 73  | 1      | -1.52   |      |   |      | 33.0  |      |
| 75  | 4      | 0.04    |      |   |      | 37.1  |      |
| 76  | 4      | -0.27   |      |   |      |       | 36.3 |
| 81  | 1      | 1.52    |      |   | 41.0 |       |      |
| 83  | 4      | 0.08    |      |   |      | 37.2  |      |
| 85  | 3      | 0.53    |      |   |      | 38.4  |      |
| 86  | 0      | -2.96   |      |   |      | 29.2  |      |
| 87  | 4      | 0.46    |      |   | 38.2 |       |      |
| 89  | 4      | -0.38   |      |   |      | 36.0  |      |
| 96  | 3      | 0.72    |      |   |      | 38.9  |      |
| 97  | 3      | 0.76    |      |   |      | 39.0  |      |
| 102 | 1      | 1.52    |      |   |      | 41.0  |      |
| 105 | 1      | -1.56   |      |   |      |       | 32.9 |
| 113 | 4      | 0.42    |      |   |      | 38.1  |      |
| 118 | 0      | 2.96    |      |   | 44.8 |       |      |
| 119 | 3      | -0.76   |      |   | 35.0 |       |      |
| 127 | 3      | 0.84    |      |   |      | 39.2  |      |
| 128 | 1      | -1.75   |      |   |      |       | 32.4 |
| 132 | 2      | 1.33    |      |   |      | 40.5  |      |
| 133 | 2      | -1.03   |      |   |      | 34.3  |      |
| 134 | 4      | -0.30   |      |   | 36.2 |       |      |
| 138 | 3      | 0.65    |      |   |      | 38.7  |      |
| 140 | 3      | -0.76   | 35.0 |   |      |       |      |

| Lab | Rating | Z-value | 1 | 2    | 3    | 4    | 6    |
|-----|--------|---------|---|------|------|------|------|
| 141 | 4      | -0.11   |   |      |      | 36.7 |      |
| 142 | 3      | -0.61   |   |      |      |      | 35.4 |
| 145 | 1      | 1.94    |   |      |      | 42.1 |      |
| 146 | 4      | -0.23   |   |      |      | 36.4 |      |
| 151 | 3      | -0.87   |   |      |      |      | 34.7 |
| 158 | 0      | -4.33   |   |      | 25.6 |      |      |
| 180 | 4      | -0.08   |   |      |      | 36.8 |      |
| 190 | 3      | 0.91    |   |      | 39.4 |      |      |
| 191 | 3      | 0.53    |   |      |      |      | 33.4 |
| 193 | 4      | -0.38   |   |      | 36.0 |      |      |
| 196 | 3      | -0.95   |   |      |      |      | 34.5 |
| 204 | 0      | 3.80    |   |      | 47.0 |      |      |
| 212 | 1      | -1.52   |   |      |      |      | 33.0 |
| 213 | 0      | 2.85    |   |      | 44.5 |      |      |
| 215 | 3      | -0.76   |   |      |      | 35.0 |      |
| 217 | 4      | 0.23    |   |      |      | 37.6 |      |
| 219 | 2      | -1.14   |   |      |      | 34.0 |      |
| 221 | 4      | 0.27    |   |      | 37.7 |      |      |
| 234 | 1      | 1.75    |   |      | 41.6 |      |      |
| 235 | 2      | 1.14    |   |      | 40.0 |      |      |
| 236 | 3      | -0.72   |   |      |      | 35.1 |      |
| 241 | 2      | -1.14   |   |      | 34.0 |      |      |
| 249 | 1      | 2.03    |   |      | 42.4 |      |      |
| 253 | 2      | 1.23    |   |      | 40.2 |      |      |
| 255 | 4      | -0.39   |   |      |      | 36.0 |      |
| 256 | 2      | 1.14    |   |      | 40.0 |      |      |
| 257 | 0      | 5.70    |   | 52.0 |      |      |      |
| 259 | 2      | -1.14   |   |      | 34.0 |      |      |
| 265 | 4      | 0.00    |   |      |      |      | 37.0 |
| 273 | 4      | 0.38    |   |      |      | 38.0 |      |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
Cu (Copper)  $\mu\text{g/L}$



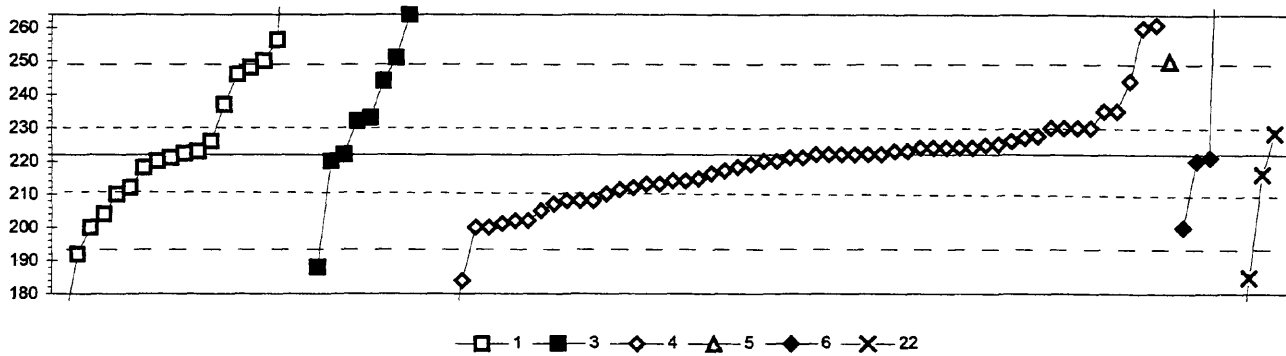
|                         |                     |
|-------------------------|---------------------|
| 1. AA: direct air       | 6. ICP/MS           |
| 3. AA: graphite furnace |                     |
| 4. ICP                  |                     |
| N =                     | 13 23 42 12         |
| Minimum =               | 18.7 4.2 7.8 19.2   |
| Maximum =               | 30.0 24.8 42.0 26.0 |
| Median =                | 25.0 21.4 22.5 22.2 |
| F-pseudostigma =        | 3.4 1.9 1.7 1.6     |

MPV = 22.3  
F-pseudostigma = 1.9  
N = 90  
Hu = 23.6  
HI = 21.0

| Lab | Rating | Z-value | 1    | 3    | 4    | 6    |
|-----|--------|---------|------|------|------|------|
| 1   | 4      | -0.02   | 22.2 |      |      |      |
| 3   | 3      | 0.90    |      | 24.0 |      |      |
| 4   | 4      | 0.38    |      | 23.0 |      |      |
| 7   | 3      | 0.59    |      | 23.4 |      |      |
| 10  | 4      | 0.28    | 22.8 |      |      |      |
| 11  | 3      | 0.90    |      | 24.0 |      |      |
| 13  | 0      | -6.16   |      | 10.4 |      |      |
| 15  | 4      | -0.50   |      | 21.3 |      |      |
| 16  | 4      | -0.24   |      |      | 21.8 |      |
| 18  | 4      | 0.02    |      | 22.3 |      |      |
| 19  | 0      | -3.25   |      | 16.0 |      |      |
| 23  | 3      | 0.85    |      | 23.9 |      |      |
| 24  | 0      | -3.15   |      | 16.2 |      |      |
| 25  | 3      | -0.66   |      | 21.0 |      |      |
| 26  | 3      | 0.59    |      | 23.4 |      |      |
| 28  | 0      | -7.51   |      | 7.8  |      |      |
| 30  | 4      | 0.12    |      | 22.5 |      |      |
| 32  | 4      | 0.49    |      |      | 23.2 |      |
| 36  | 0      | -6.36   |      | 10.0 |      |      |
| 40  | 4      | -0.50   |      | 21.3 |      |      |
| 42  | 4      | -0.14   |      |      | 22.0 |      |
| 46  | 4      | 0.07    |      | 22.4 |      |      |
| 48  | 2      | -1.33   |      | 19.7 |      |      |
| 50  | 3      | 0.90    |      | 24.0 |      |      |
| 55  | 3      | -0.76   |      | 20.8 |      |      |
| 58  | NR     | < 50    |      |      |      |      |
| 68  | 0      | 2.46    |      |      | 27.0 |      |
| 69  | 4      | -0.45   |      | 21.4 |      |      |
| 70  | 4      | 0.28    |      |      | 22.8 |      |
| 73  | 4      | -0.14   |      |      | 22.0 |      |
| 75  | 4      | -0.03   |      |      | 22.2 |      |
| 80  | 4      | -0.14   |      | 22.0 |      |      |
| 81  | 4      | -0.14   |      | 22.0 |      |      |
| 83  | 4      | 0.38    |      |      | 23.0 |      |
| 85  | 1      | 1.52    | 25.2 |      |      |      |
| 86  | 4      | 0.43    |      |      | 23.1 |      |
| 87  | 3      | -0.66   | 21.0 |      |      |      |
| 89  | 4      | -0.45   | 21.4 |      |      |      |
| 96  | 3      | 0.59    |      | 23.4 |      |      |
| 97  | 3      | -0.55   |      | 21.2 |      |      |
| 102 | 4      | -0.14   |      |      | 22.0 |      |
| 105 | 4      | 0.07    |      |      |      | 22.4 |
| 107 | 2      | 1.32    |      | 24.8 |      |      |
| 113 | 3      | 0.64    |      |      | 23.5 |      |
| 114 | 3      | -0.66   | 21.0 |      |      |      |
| 118 | 0      | -7.45   |      | 7.9  |      |      |
| 119 | 1      | 1.94    |      |      | 26.0 |      |
| 121 | 0      | -2.21   |      |      | 18.0 |      |
| 127 | 4      | 0.07    |      |      | 22.4 |      |
| 128 | 1      | -1.57   |      |      |      | 19.2 |

| Lab | Rating | Z-value | 1    | 3    | 4    | 6    |
|-----|--------|---------|------|------|------|------|
| 129 | 0      | 4.01    | 30.0 |      |      |      |
| 132 | 0      | 10.24   |      |      | 42.0 |      |
| 133 | 2      | -1.43   |      |      | 19.5 |      |
| 134 | 4      | 0.07    |      |      | 22.4 |      |
| 138 | 2      | -1.12   |      |      |      | 20.1 |
| 140 | 1      | 1.94    | 26.0 |      |      |      |
| 141 | 3      | 0.54    |      |      | 23.3 |      |
| 142 | 2      | -1.18   |      |      |      | 20.0 |
| 144 | 2      | -1.07   |      | 20.2 |      |      |
| 145 | 0      | 5.67    |      |      | 33.2 |      |
| 146 | 1      | 1.52    |      |      | 25.2 |      |
| 151 | 4      | -0.09   |      |      |      | 22.1 |
| 158 | 1      | 1.83    |      |      | 25.8 |      |
| 180 | 3      | 0.54    |      |      | 23.3 |      |
| 190 | 4      | -0.03   |      | 22.2 |      |      |
| 191 | 4      | 0.02    |      |      |      | 22.3 |
| 193 | 1      | 1.94    | 26.0 |      |      |      |
| 196 | 3      | 0.74    |      |      |      | 23.7 |
| 203 | 1      | -1.85   | 18.7 |      |      |      |
| 204 | 0      | -5.48   |      | 11.7 |      |      |
| 212 | 1      | 1.94    |      |      |      | 26.0 |
| 213 | 4      | 0.49    |      | 23.2 |      |      |
| 215 | 0      | 4.22    |      |      | 30.4 |      |
| 217 | 3      | 0.85    |      |      | 23.9 |      |
| 219 | 1      | -1.69   |      |      | 19.0 |      |
| 221 | 4      | -0.50   |      | 21.3 |      |      |
| 224 | 4      | -0.40   |      |      | 21.5 |      |
| 234 | 3      | 0.69    |      |      | 23.6 |      |
| 235 | 2      | -1.18   |      |      | 20.0 |      |
| 236 | 1      | -1.85   |      |      | 18.7 |      |
| 240 | 3      | -0.66   |      |      | 21.0 |      |
| 241 | 2      | -1.33   |      | 19.7 |      |      |
| 249 | 4      | -0.32   |      | 21.7 |      |      |
| 253 | 0      | 4.01    | 30.0 |      |      |      |
| 255 | 4      | -0.31   |      |      | 21.7 |      |
| 256 | 3      | 0.69    | 23.6 |      |      |      |
| 257 | 0      | 2.98    | 28.0 |      |      |      |
| 259 | 2      | 1.42    | 25.0 |      |      |      |
| 265 | 4      | 0.38    |      |      |      | 23.0 |
| 273 | 4      | -0.14   |      |      | 22.0 |      |
| 274 | 0      | -9.37   |      | 4.2  |      |      |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
Fe (Iron)  $\mu\text{g/L}$



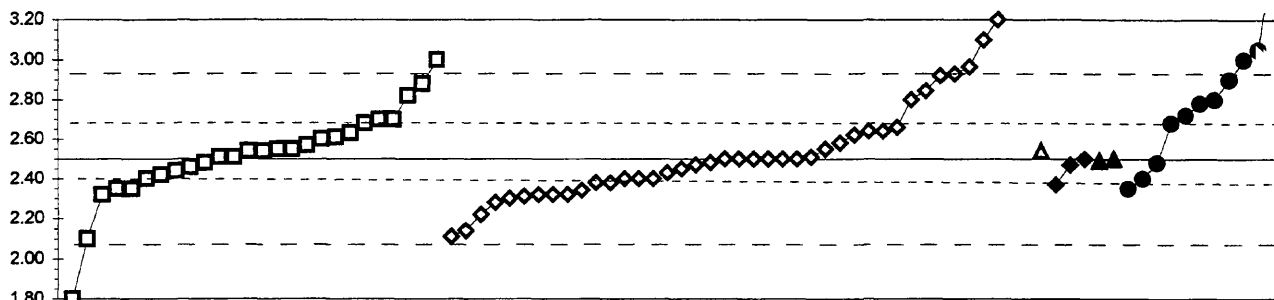
|                         |                  |     |     |     |     |     |
|-------------------------|------------------|-----|-----|-----|-----|-----|
| 1. AA: direct air       | 5. DCP           |     |     |     |     |     |
| 3. AA: graphite furnace | 6. ICP/MS        |     |     |     |     |     |
| 4. ICP                  | 22. Colorimetric |     |     |     |     |     |
|                         | N =              | 19  | 9   | 56  | 1   | 4   |
|                         | Minimum =        | 170 | 188 | 21  | 250 | 200 |
|                         | Maximum =        | 470 | 302 | 261 |     | 365 |
|                         | Median =         | 222 | 233 | 221 |     | 228 |
|                         | F-pseudostigma = | 27  | 22  | 10  |     |     |

MPV = 222  
F-pseudostigma = 14  
N = 93  
Hu = 230  
HI = 211

| Lab | Rating | Z-value | 1   | 3   | 4   | 5   | 6   | 22  |
|-----|--------|---------|-----|-----|-----|-----|-----|-----|
| 1   | 3      | -0.77   |     |     | 211 |     |     |     |
| 3   | 0      | 2.81    |     |     | 261 |     |     |     |
| 4   | 3      | 0.94    |     |     | 235 |     |     |     |
| 7   | 4      | 0.20    |     |     | 225 |     |     |     |
| 10  | 1      | 1.73    | 246 |     |     |     |     |     |
| 11  | 2      | -1.44   |     |     | 202 |     |     |     |
| 13  | 2      | -1.08   |     |     | 207 |     |     |     |
| 15  | 2      | -1.01   |     |     | 208 |     |     |     |
| 16  | 1      | -1.59   |     |     | 200 |     |     |     |
| 18  | 4      | 0.00    |     |     | 222 |     |     |     |
| 19  | 4      | 0.36    |     |     | 227 |     |     |     |
| 21  | 0      | -5.05   |     |     |     |     |     | 152 |
| 23  | 4      | -0.29   | 218 |     |     |     |     |     |
| 24  | 4      | 0.00    |     | 222 |     |     |     |     |
| 25  | 2      | -1.44   |     |     | 202 |     |     |     |
| 26  | 4      | 0.00    |     |     | 222 |     |     |     |
| 30  | 0      | 17.89   | 470 |     |     |     |     |     |
| 32  | 0      | 10.32   |     |     |     |     | 365 |     |
| 33  | 1      | 2.02    |     |     |     | 250 |     |     |
| 35  | 4      | -0.43   |     |     |     |     |     | 216 |
| 36  | 1      | 2.02    | 250 |     |     |     |     |     |
| 40  | 0      | -14.52  |     |     | 21  |     |     |     |
| 42  | 4      | 0.14    |     |     | 224 |     |     |     |
| 43  | 3      | 0.58    |     |     | 230 |     |     |     |
| 46  | 4      | 0.00    |     |     | 222 |     |     |     |
| 48  | 0      | -4.47   |     |     | 160 |     |     |     |
| 50  | 0      | 2.09    |     | 251 |     |     |     |     |
| 55  | 4      | 0.00    |     |     | 222 |     |     |     |
| 58  | 3      | -0.87   | 210 |     |     |     |     |     |
| 68  | 4      | 0.22    |     |     | 225 |     |     |     |
| 69  | 4      | 0.29    | 226 |     |     |     |     |     |
| 70  | 3      | -0.58   |     |     | 214 |     |     |     |
| 73  | 4      | -0.07   |     |     | 221 |     |     |     |
| 75  | 3      | -0.58   |     |     | 214 |     |     |     |
| 80  | 4      | 0.07    | 223 |     |     |     |     |     |
| 81  | 4      | -0.14   |     |     |     |     | 220 |     |
| 83  | 4      | -0.22   |     |     | 219 |     |     |     |
| 85  | 4      | 0.14    |     |     | 224 |     |     |     |
| 86  | 3      | -0.65   |     |     | 213 |     |     |     |
| 87  | 3      | -0.72   | 212 |     |     |     |     |     |
| 89  | 1      | 1.59    |     | 244 |     |     |     |     |
| 91  | 3      | -0.72   |     |     | 212 |     |     |     |
| 96  | 1      | 1.88    | 248 |     |     |     |     |     |
| 97  | 3      | 0.79    |     | 233 |     |     |     |     |
| 102 | 1      | 1.59    |     |     | 244 |     |     |     |
| 105 | 3      | -0.65   |     |     | 213 |     |     |     |
| 107 | 1      | -1.59   | 200 |     |     |     |     |     |
| 109 | 0      | 2.48    | 256 |     |     |     |     |     |
| 113 | 4      | 0.07    |     |     | 223 |     |     |     |
| 114 | 2      | -1.30   | 204 |     |     |     |     |     |

| Lab | Rating | Z-value | 1   | 3   | 4   | 5 | 6   | 22  |
|-----|--------|---------|-----|-----|-----|---|-----|-----|
| 119 | 4      | 0.29    |     |     | 226 |   |     |     |
| 121 | 3      | -0.87   |     |     | 210 |   |     |     |
| 127 | 4      | -0.14   |     |     | 220 |   |     |     |
| 128 | 2      | -1.23   |     |     | 205 |   |     |     |
| 129 | 0      | -2.67   |     |     |     |   |     | 185 |
| 132 | 4      | 0.40    |     |     | 228 |   |     |     |
| 133 | 4      | 0.07    |     |     | 223 |   |     |     |
| 134 | 4      | -0.28   |     |     | 218 |   |     |     |
| 138 | 4      | 0.14    |     |     | 224 |   |     |     |
| 140 | 2      | 1.08    | 237 |     |     |   |     |     |
| 141 | 1      | -1.59   |     |     | 200 |   |     |     |
| 142 | 4      | -0.07   |     |     | 221 |   |     |     |
| 145 | 4      | -0.42   |     |     | 216 |   |     |     |
| 146 | 4      | -0.14   |     |     | 220 |   |     |     |
| 151 | 1      | -1.59   |     |     |     |   | 200 |     |
| 155 | 4      | 0.46    |     |     |     |   |     | 228 |
| 158 | 4      | 0.00    |     |     | 222 |   |     |     |
| 180 | 4      | 0.00    |     |     | 222 |   |     |     |
| 190 | 0      | -2.16   | 192 |     |     |   |     |     |
| 191 | 4      | -0.07   |     |     |     |   | 221 |     |
| 203 | 4      | -0.14   | 220 |     |     |   |     |     |
| 204 | 2      | -1.01   |     |     | 208 |   |     |     |
| 212 | 0      | 2.74    |     |     | 260 |   |     |     |
| 213 | 0      | 5.77    |     | 302 |     |   |     |     |
| 215 | 4      | 0.14    |     |     | 224 |   |     |     |
| 217 | 3      | 0.58    |     |     | 230 |   |     |     |
| 219 | 2      | -1.01   |     |     | 208 |   |     |     |
| 220 | 4      | 0.02    | 222 |     |     |   |     |     |
| 221 | 4      | -0.14   |     | 220 |     |   |     |     |
| 224 | 1      | -1.51   |     |     | 201 |   |     |     |
| 234 | 4      | 0.14    |     |     | 224 |   |     |     |
| 235 | 3      | 0.94    |     |     | 235 |   |     |     |
| 236 | 3      | -0.53   |     |     | 215 |   |     |     |
| 240 | 0      | -2.74   |     |     | 184 |   |     |     |
| 241 | 0      | 3.03    |     | 264 |     |   |     |     |
| 249 | 0      | -2.45   |     | 188 |     |   |     |     |
| 253 | 0      | 7.79    | 330 |     |     |   |     |     |
| 255 | 4      | -0.35   |     |     | 217 |   |     |     |
| 256 | 4      | -0.07   | 221 |     |     |   |     |     |
| 257 | 0      | -3.75   | 170 |     |     |   |     |     |
| 265 | 3      | 0.58    |     |     | 230 |   |     |     |
| 273 | 3      | 0.58    |     |     | 230 |   |     |     |
| 274 | 3      | 0.73    |     | 232 |     |   |     |     |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
K (Potassium) mg/L



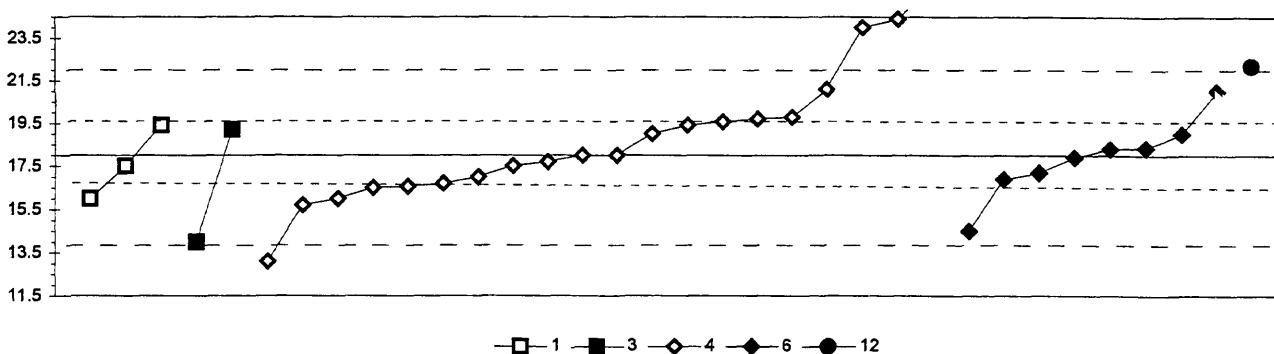
|                   |                       |      |      |      |      |      |
|-------------------|-----------------------|------|------|------|------|------|
| 1. AA: direct air | 6. ICP/MS             |      |      |      |      |      |
| 4. ICP            | 7. Ion chromatography |      |      |      |      |      |
| 5. DCP            | 12. Flame emission    |      |      |      |      |      |
| N =               | 26                    | 41   | 1    | 3    | 2    | 11   |
| Minimum =         | 1.80                  | 2.11 | 2.54 | 2.37 | 2.49 | 2.35 |
| Maximum =         | 3.00                  | 5.40 |      | 2.50 | 2.50 | 3.52 |
| Median =          | 2.54                  | 2.50 |      |      |      | 2.78 |
| F-pseudosigma =   | 0.16                  | 0.19 |      |      |      | 0.27 |

MPV = 2.50  
F-pseudosigma = 0.21  
N = 84  
Hu = 2.69  
Hi = 2.40

| Lab | Rating | Z-value | 1    | 4    | 5    | 6    | 7    | 12   |
|-----|--------|---------|------|------|------|------|------|------|
| 1   | 4      | 0.23    | 2.55 |      |      |      |      |      |
| 3   | 0      | 13.49   |      | 5.40 |      |      |      |      |
| 7   | 1      | 1.60    |      | 2.84 |      |      |      |      |
| 11  | 4      | 0.00    |      | 2.50 |      |      |      |      |
| 13  | 3      | -0.56   |      | 2.38 |      |      |      |      |
| 15  | 2      | -1.02   |      | 2.28 |      |      |      |      |
| 16  | 1      | -1.86   | 2.10 |      |      |      |      |      |
| 18  | 4      | -0.47   |      | 2.40 |      |      |      |      |
| 19  | 4      | 0.00    |      | 2.50 |      |      |      |      |
| 23  | 4      | -0.28   | 2.44 |      |      |      |      |      |
| 24  | 3      | -0.74   |      | 2.34 |      |      |      |      |
| 25  | 3      | 0.65    |      | 2.64 |      |      |      |      |
| 26  | 4      | -0.05   |      |      |      | 2.49 |      |      |
| 28  | 3      | -0.84   |      | 2.32 |      |      |      |      |
| 32  | 4      | 0.00    |      |      |      | 2.50 |      |      |
| 33  | 4      | 0.19    |      |      | 2.54 |      |      |      |
| 36  | 0      | -3.26   | 1.80 |      |      |      |      |      |
| 40  | 3      | -0.84   |      | 2.32 |      |      |      |      |
| 42  | 4      | 0.00    |      | 2.50 |      |      |      |      |
| 43  | 3      | -0.93   |      | 2.30 |      |      |      |      |
| 46  | 3      | 0.56    |      | 2.62 |      |      |      |      |
| 48  | 4      | 0.05    |      | 2.51 |      |      |      |      |
| 51  | 4      | -0.09   |      |      |      |      | 2.48 |      |
| 64  | 4      | 0.33    | 2.57 |      |      |      |      |      |
| 68  | 2      | 1.40    |      | 2.80 |      |      |      |      |
| 69  | 2      | 1.02    |      |      |      |      |      | 2.72 |
| 70  | 4      | -0.33   |      | 2.43 |      |      |      |      |
| 81  | 3      | -0.60   |      |      | 2.37 |      |      |      |
| 83  | 4      | 0.00    |      | 2.50 |      |      |      |      |
| 85  | 2      | 1.49    | 2.82 |      |      |      |      |      |
| 86  | 4      | 0.37    |      | 2.58 |      |      |      |      |
| 87  | 4      | -0.37   | 2.42 |      |      |      |      |      |
| 89  | 3      | -0.70   | 2.35 |      |      |      |      |      |
| 97  | 4      | 0.19    | 2.54 |      |      |      |      |      |
| 102 | 4      | 0.00    |      | 2.50 |      |      |      |      |
| 105 | 4      | -0.14   |      | 2.47 |      |      |      |      |
| 107 | 3      | 0.60    | 2.63 |      |      |      |      |      |
| 109 | 4      | 0.05    | 2.51 |      |      |      |      |      |
| 113 | 4      | -0.47   |      | 2.40 |      |      |      |      |
| 114 | 0      | 2.33    | 3.00 |      |      |      |      |      |
| 119 | 0      | 3.26    |      | 3.20 |      |      |      |      |
| 121 | 4      | 0.23    | 2.55 |      |      |      |      |      |
| 127 | 3      | 0.84    | 2.68 |      |      |      |      |      |
| 128 | 1      | -1.81   |      | 2.11 |      |      |      |      |
| 129 | 4      | -0.47   | 2.40 |      |      |      |      |      |
| 132 | 3      | 0.65    |      | 2.64 |      |      |      |      |
| 134 | 4      | -0.09   | 2.48 |      |      |      |      |      |
| 138 | 4      | -0.09   |      | 2.48 |      |      |      |      |
| 140 | 4      | 0.05    | 2.51 |      |      |      |      |      |
| 141 | 4      | 0.23    |      | 2.55 |      |      |      |      |

| Lab | Rating | Z-value | 1    | 4     | 5 | 6    | 7    | 12   |
|-----|--------|---------|------|-------|---|------|------|------|
| 142 | 2      | -1.30   |      | 2.22  |   |      |      |      |
| 145 | 3      | 0.74    |      | 2.66  |   |      |      |      |
| 146 | 1      | 2.00    |      | 2.93  |   |      |      |      |
| 180 | 3      | -0.84   |      | 2.32  |   |      |      |      |
| 190 | 4      | 0.00    |      |       |   |      | 2.50 |      |
| 191 | 4      | -0.14   |      |       |   | 2.47 |      |      |
| 193 | 3      | -0.84   | 2.32 |       |   |      |      |      |
| 203 | 1      | 1.77    | 2.88 |       |   |      |      |      |
| 204 | 4      | -0.47   |      |       |   |      |      | 2.40 |
| 212 | 4      | -0.47   |      | 2.40  |   |      |      |      |
| 215 | 0      | 2.79    |      | 3.10  |   |      |      |      |
| 217 | 1      | 1.95    |      | 2.92  |   |      |      |      |
| 218 | 3      | -0.70   | 2.35 |       |   |      |      |      |
| 219 | 4      | 0.00    |      | 2.50  |   |      |      |      |
| 220 | 4      | 0.47    | 2.60 |       |   |      |      |      |
| 221 | 3      | 0.51    | 2.61 |       |   |      |      |      |
| 224 | 3      | -0.88   |      | 2.31  |   |      |      |      |
| 234 | 4      | -0.23   |      | 2.45  |   |      |      |      |
| 235 | 0      | 5.12    |      | 3.60  |   |      |      |      |
| 236 | 1      | -1.67   |      | 2.14  |   |      |      |      |
| 241 | 4      | 0.19    | 2.54 |       |   |      |      |      |
| 246 | 0      | -10.95  |      | < 0.2 |   |      |      |      |
| 249 | 3      | 0.84    |      |       |   |      |      | 2.68 |
| 255 | 3      | -0.56   |      | 2.38  |   |      |      |      |
| 256 | 0      | 4.74    |      |       |   |      |      | 3.52 |
| 257 | 1      | 1.86    |      |       |   |      |      | 2.90 |
| 259 | 3      | 0.93    | 2.70 |       |   |      |      |      |
| 261 | 3      | -0.70   |      |       |   |      |      | 2.35 |
| 265 | 4      | -0.19   | 2.46 |       |   |      |      |      |
| 268 | 3      | 0.93    | 2.70 |       |   |      |      |      |
| 270 | 0      | 2.56    |      |       |   |      |      | 3.05 |
| 271 | 2      | 1.40    |      |       |   |      |      | 2.80 |
| 272 | 0      | 2.33    |      |       |   |      |      | 3.00 |
| 273 | 0      | 2.16    |      | 2.97  |   |      |      |      |
| 274 | 2      | 1.30    |      |       |   |      |      | 2.78 |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
Li (Lithium)  $\mu\text{g/L}$

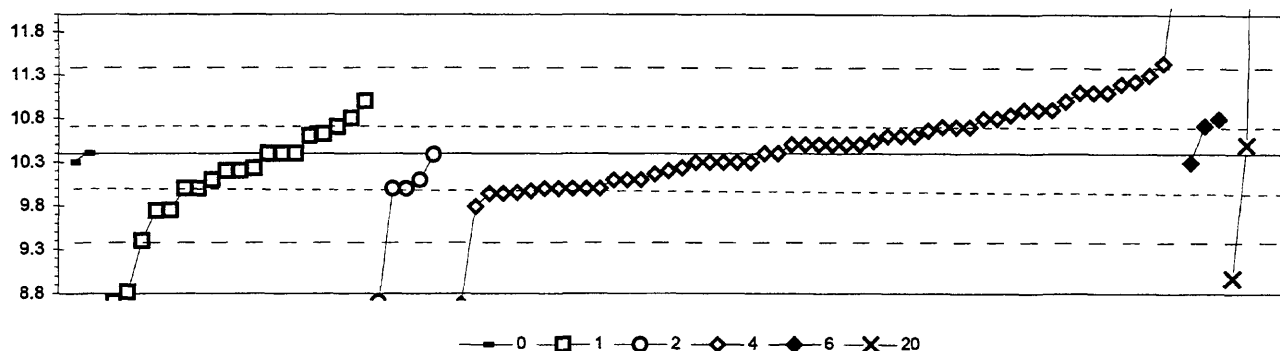


|                         |                                      |
|-------------------------|--------------------------------------|
| 1. AA: direct air       | 6. ICP/MS                            |
| 3. AA: graphite furnace | 12. Flame emission                   |
| 4. ICP                  |                                      |
| N =                     | 3      2      20      8      1       |
| Minimum =               | 16.0    14.0    13.1    14.5    22.2 |
| Maximum =               | 19.4    19.2    26.0    21.0         |
| Median =                | 18.0    18.1                         |
| F-pseudostigma =        | 2.4    1.2                           |

MPV = 18.0  
F-pseudostigma = 2.1  
N = 34  
Hu = 19.6  
HI = 16.7

| Lab | Rating | Z-value | 1    | 3    | 4     | 6    | 12    |
|-----|--------|---------|------|------|-------|------|-------|
| 1   | 3      | -0.67   |      |      | 16.6  |      |       |
| 3   | 0      | 3.77    |      |      | 26.0  |      |       |
| 4   | NR     |         |      |      | < 100 |      |       |
| 7   | 3      | 0.66    |      |      | 19.4  |      |       |
| 16  | 1      | -1.65   |      |      |       | 14.5 |       |
| 24  | 0      | 3.02    |      |      | 24.4  |      |       |
| 25  | 4      | 0.00    |      |      | 18.0  |      |       |
| 26  | 4      | -0.14   |      |      | 17.7  |      |       |
| 30  | 3      | -0.94   |      |      | 16.0  |      |       |
| 32  | 4      | -0.38   |      |      |       | 17.2 |       |
| 40  | 3      | -0.61   |      |      | 16.7  |      |       |
| 42  | 0      | -5.71   |      |      | < 6   |      |       |
| 64  | 1      | 1.98    |      |      |       |      | 22.2  |
| 68  | 4      | 0.00    |      |      | 18.0  |      |       |
| 69  | 3      | 0.57    |      | 19.2 |       |      |       |
| 75  | 3      | 0.80    |      |      | 19.7  |      |       |
| 76  | 4      | 0.14    |      |      |       | 18.3 |       |
| 85  | 4      | -0.24   | 17.5 |      |       |      |       |
| 105 | 2      | -1.08   |      |      | 15.7  |      |       |
| 109 | 3      | 0.66    | 19.4 |      |       |      |       |
| 127 | 3      | -0.71   |      |      | 16.5  |      |       |
| 134 | 3      | 0.74    |      |      | 19.6  |      |       |
| 142 | 4      | 0.47    |      |      | 19.0  |      |       |
| 145 | 2      | 1.46    |      |      | 21.1  |      |       |
| 151 | 3      | -0.52   |      |      |       | 16.9 |       |
| 191 | 2      | 1.41    |      |      |       | 21.0 |       |
| 196 | 4      | -0.05   |      |      |       | 17.9 |       |
| 212 | 4      | 0.47    |      |      |       | 19.0 |       |
| 217 | 4      | -0.24   |      |      | 17.5  |      |       |
| 219 | 4      | -0.47   |      |      | 17.0  |      |       |
| 234 | 3      | 0.85    |      |      | 19.8  |      |       |
| 236 | 0      | -2.31   |      |      | 13.1  |      |       |
| 256 | 0      | -8.52   |      |      |       |      | < 0.1 |
| 257 | 3      | -0.94   | 16.0 |      |       |      |       |
| 259 | 1      | -1.89   |      | 14.0 |       |      |       |
| 265 | 4      | 0.16    |      |      |       | 18.4 |       |
| 273 | 0      | 2.83    |      |      | 24.0  |      |       |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (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 =                         | 2                         | 20   | 5    | 54   | 3    | 4    |
| Minimum =                   | 10.3                      | 8.3  | 8.7  | 7.6  | 10.3 | 9.0  |
| Maximum =                   | 10.4                      | 11.0 | 10.4 | 12.5 | 10.8 | 25.4 |
| Median =                    |                           | 10.2 |      | 10.5 |      |      |
| F-pseudosigma =             |                           | 0.6  |      | 0.5  |      |      |

MPV = 10.4  
F-pseudosigma = 0.5  
N = 88  
Hu = 10.7  
HI = 10.0

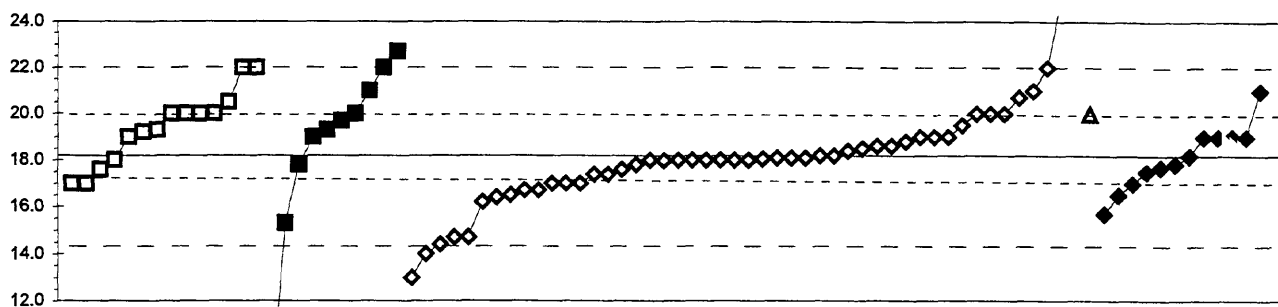
| Lab | Rating | Z-value | 0    | 1    | 2    | 4    | 6    | 20 |
|-----|--------|---------|------|------|------|------|------|----|
| 1   | 3      | -0.58   |      |      |      | 10.1 |      |    |
| 3   | 4      | -0.19   |      |      |      | 10.3 |      |    |
| 4   | 3      | 0.96    |      |      |      | 10.9 |      |    |
| 7   | 3      | 0.85    |      |      |      | 10.8 |      |    |
| 11  | 2      | 1.35    |      |      |      | 11.1 |      |    |
| 13  | 3      | 0.58    |      |      |      | 10.7 |      |    |
| 15  | 2      | -1.18   |      |      |      | 9.8  |      |    |
| 16  | 4      | 0.19    |      |      |      | 10.5 |      |    |
| 18  | 4      | -0.31   |      |      |      | 10.2 |      |    |
| 19  | 4      | 0.19    |      |      |      | 10.5 |      |    |
| 23  | 4      | -0.33   |      | 10.2 |      |      |      |    |
| 24  | 4      | -0.19   |      |      |      | 10.3 |      |    |
| 25  | 3      | -0.77   |      |      |      | 10.0 |      |    |
| 26  | 3      | 0.96    |      |      |      | 10.9 |      |    |
| 28  | 3      | 0.77    |      |      |      | 10.8 |      |    |
| 30  | 3      | -0.77   |      |      | 10.0 |      |      |    |
| 32  | 3      | 0.77    |      |      |      |      | 10.8 |    |
| 33  | 4      | -0.19   | 10.3 |      |      |      |      |    |
| 36  | 0      | -3.28   |      | 8.7  |      |      |      |    |
| 40  | 4      | -0.19   |      |      |      | 10.3 |      |    |
| 42  | 2      | 1.35    |      |      |      | 11.1 |      |    |
| 43  | 4      | 0.19    |      |      |      | 10.5 |      |    |
| 46  | 4      | 0.19    |      |      |      | 10.5 |      |    |
| 48  | 3      | 0.77    |      |      |      | 10.8 |      |    |
| 51  | 0      | -3.04   |      | 8.8  |      |      |      |    |
| 55  | 1      | 1.73    |      |      |      | 11.3 |      |    |
| 68  | 2      | 1.16    |      |      |      | 11.0 |      |    |
| 69  | 3      | -0.58   |      | 10.1 |      |      |      |    |
| 70  | 4      | 0.19    |      |      |      | 10.5 |      |    |
| 75  | 4      | 0.39    |      | 10.6 |      |      |      |    |
| 81  | 4      | -0.19   |      |      |      |      | 10.3 |    |
| 83  | 3      | -0.58   |      |      |      | 10.1 |      |    |
| 85  | 3      | 0.77    |      | 10.8 |      |      |      |    |
| 86  | 4      | 0.00    |      |      |      | 10.4 |      |    |
| 87  | 4      | -0.39   |      | 10.2 |      |      |      |    |
| 89  | 4      | 0.00    |      | 10.4 |      |      |      |    |
| 97  | 4      | 0.00    |      | 10.4 |      |      |      |    |
| 102 | 0      | 4.05    |      |      |      | 12.5 |      |    |
| 105 | 4      | -0.19   |      |      |      | 10.3 |      |    |
| 107 | 3      | 0.58    |      | 10.7 |      |      |      |    |
| 109 | 4      | 0.00    |      | 10.4 |      |      |      |    |
| 110 | 0      | -4.09   |      | 8.3  |      |      |      |    |
| 113 | 3      | 0.58    |      |      |      | 10.7 |      |    |
| 114 | 3      | -0.77   |      |      | 10.0 |      |      |    |
| 119 | 4      | 0.39    |      |      |      | 10.6 |      |    |
| 121 | 3      | -0.77   |      |      |      | 10.0 |      |    |
| 127 | 4      | 0.00    |      |      |      | 10.4 |      |    |
| 128 | 3      | -0.87   |      |      |      | 10.0 |      |    |
| 129 | 3      | -0.77   |      | 10.0 |      |      |      |    |
| 132 | 4      | 0.27    |      |      |      | 10.5 |      |    |

| Lab | Rating | Z-value | 0    | 1    | 2    | 4    | 6    | 20   |
|-----|--------|---------|------|------|------|------|------|------|
| 133 | 3      | -0.89   |      |      |      | 9.9  |      |      |
| 134 | 4      | -0.45   |      |      |      | 10.2 |      |      |
| 138 | 3      | 0.58    |      |      |      | 10.7 |      |      |
| 140 | 2      | 1.16    |      | 11.0 |      |      |      |      |
| 141 | 3      | 0.96    |      |      |      | 10.9 |      |      |
| 142 | 3      | -0.77   |      |      |      | 10.0 |      |      |
| 145 | 1      | 2.00    |      |      |      | 11.4 |      |      |
| 146 | 3      | -0.58   |      |      |      | 10.1 |      |      |
| 158 | 2      | 1.35    |      |      |      | 11.1 |      |      |
| 180 | 4      | 0.39    |      |      |      | 10.6 |      |      |
| 190 | 4      | 0.00    | 10.4 |      |      |      |      |      |
| 191 | 3      | 0.62    |      |      |      |      | 10.7 |      |
| 193 | 2      | -1.25   |      | 9.8  |      |      |      |      |
| 203 | 4      | 0.42    |      | 10.6 |      |      |      |      |
| 204 | 0      | -5.40   |      |      |      | 7.6  |      |      |
| 212 | 1      | 1.54    |      |      |      | 11.2 |      |      |
| 215 | 4      | 0.39    |      |      |      | 10.6 |      |      |
| 217 | 3      | -0.77   |      |      |      | 10.0 |      |      |
| 218 | 4      | -0.02   |      |      | 10.4 |      |      |      |
| 219 | 3      | -0.77   |      |      |      | 10.0 |      |      |
| 220 | 3      | -0.77   |      | 10.0 |      |      |      |      |
| 221 | 2      | -1.27   |      | 9.7  |      |      |      |      |
| 224 | 3      | -0.83   |      |      |      | 10.0 |      |      |
| 234 | 3      | -0.89   |      |      |      | 9.9  |      |      |
| 235 | 4      | 0.19    |      |      |      | 10.5 |      |      |
| 236 | 4      | 0.50    |      |      |      | 10.7 |      |      |
| 240 | 4      | -0.39   |      |      |      | 10.2 |      |      |
| 241 | 1      | -1.93   |      | 9.4  |      |      |      |      |
| 246 | 0      | -3.33   |      |      |      | 8.7  |      |      |
| 255 | 4      | -0.19   |      |      |      | 10.3 |      |      |
| 257 | 0      | -3.28   |      |      | 8.7  |      |      |      |
| 261 | 4      | 0.19    |      |      |      |      | 10.5 |      |
| 265 | 3      | -0.58   |      |      | 10.1 |      |      |      |
| 268 | 4      | -0.39   |      | 10.2 |      |      |      |      |
| 271 | 0      | 28.83   |      |      |      |      |      | 25.4 |
| 272 | 0      | -2.75   |      |      |      |      |      | 9.0  |
| 273 | 1      | 1.60    |      |      | 11.2 |      |      |      |
| 274 | 0      | 14.13   |      |      |      |      |      | 17.7 |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued

Mn (Manganese)

μg/L



□ 1 ■ 3 ◇ 4 ▲ 5 ◆ 6 ✕ 22

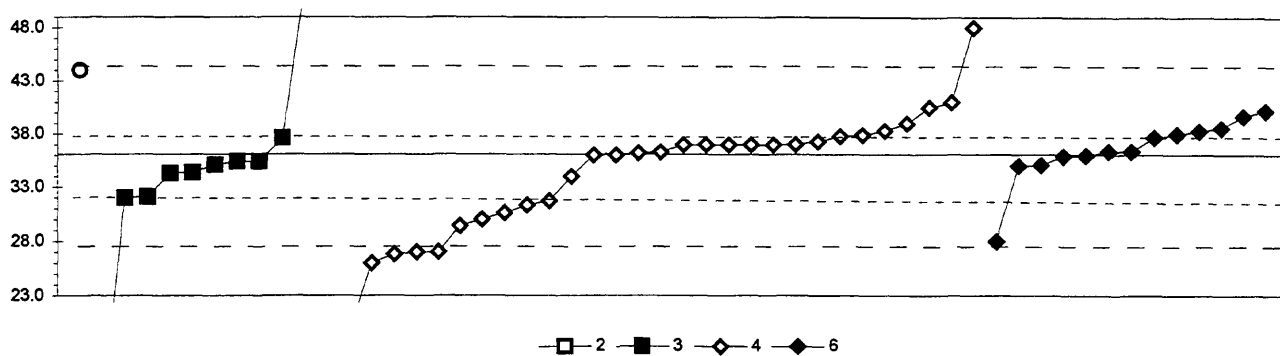
|                         |                  |      |      |      |      |      |
|-------------------------|------------------|------|------|------|------|------|
| 1. AA: direct air       | 5. DCP           |      |      |      |      |      |
| 3. AA: graphite furnace | 6. ICP/MS        |      |      |      |      |      |
| 4. ICP                  | 22. Colorimetric |      |      |      |      |      |
| N =                     | 14               | 10   | 48   | 1    | 12   | 1    |
| Minimum =               | 17.0             | 7.4  | 13.0 | 20.0 | 15.7 | 31.5 |
| Maximum =               | 22.0             | 22.7 | 28.3 |      | 21.0 |      |
| Median =                | 19.7             | 19.5 | 18.0 |      | 18.0 |      |
| F-pseudostigma =        | 1.5              | 2.4  | 1.4  |      | 1.3  |      |

MPV = 18.2  
F-pseudostigma = 1.9  
N = 86  
Hu = 20.0  
HI = 17.4

| Lab | Rating | Z-value | 1    | 3    | 4    | 5    | 6    | 22 |
|-----|--------|---------|------|------|------|------|------|----|
| 1   | 4      | -0.19   |      |      |      |      | 17.8 |    |
| 3   | 1      | -1.82   |      |      | 14.7 |      |      |    |
| 4   | 4      | 0.42    |      |      | 19.0 |      |      |    |
| 7   | 4      | 0.21    |      |      | 18.6 |      |      |    |
| 10  | 1      | 1.97    | 22.0 |      |      |      |      |    |
| 11  | 4      | -0.10   |      |      | 18.0 |      |      |    |
| 13  | 3      | -0.78   |      |      | 16.7 |      |      |    |
| 15  | 0      | 5.24    |      |      | 28.3 |      |      |    |
| 16  | 4      | 0.00    |      |      |      |      | 18.2 |    |
| 18  | 3      | -0.88   |      |      | 16.5 |      |      |    |
| 19  | 4      | 0.31    |      |      | 18.8 |      |      |    |
| 23  | 4      | -0.21   |      | 17.8 |      |      |      |    |
| 24  | 4      | -0.42   |      |      | 17.4 |      |      |    |
| 25  | 1      | 1.97    |      |      | 22.0 |      |      |    |
| 26  | 1      | -1.82   |      |      | 14.7 |      |      |    |
| 28  | 0      | 3.58    |      |      | 25.1 |      |      |    |
| 30  | 3      | -0.62   |      |      | 17.0 |      |      |    |
| 32  | 4      | -0.26   |      |      |      |      | 17.7 |    |
| 33  | 3      | 0.93    |      |      |      | 20.0 |      |    |
| 36  | 4      | 0.42    |      | 19.0 |      |      |      |    |
| 40  | 1      | -1.97   |      |      | 14.4 |      |      |    |
| 42  | 2      | 1.45    |      |      |      |      | 21.0 |    |
| 43  | 3      | 0.93    |      |      | 20.0 |      |      |    |
| 46  | 2      | -1.04   |      |      | 16.2 |      |      |    |
| 48  | 3      | 0.93    |      | 20.0 |      |      |      |    |
| 50  | 2      | 1.45    |      | 21.0 |      |      |      |    |
| 55  | 0      | -2.70   |      |      | 13.0 |      |      |    |
| 58  | NR     |         | < 50 |      |      |      |      |    |
| 68  | 4      | 0.16    |      |      | 18.5 |      |      |    |
| 69  | NR     |         | < 20 |      |      |      |      |    |
| 70  | NR     |         |      |      | < 20 |      |      |    |
| 73  | 4      | -0.10   |      |      | 18.0 |      |      |    |
| 75  | 4      | -0.05   |      |      | 18.1 |      |      |    |
| 80  | 2      | -1.50   |      | 15.3 |      |      |      |    |
| 81  | 3      | -0.62   |      |      |      |      | 17.0 |    |
| 83  | 4      | -0.42   |      |      | 17.4 |      |      |    |
| 86  | 4      | -0.10   |      |      | 18.0 |      |      |    |
| 87  | 2      | 1.19    | 20.5 |      |      |      |      |    |
| 89  | 4      | -0.31   | 17.6 |      |      |      |      |    |
| 91  | 4      | -0.31   |      |      | 17.6 |      |      |    |
| 96  | 1      | 1.97    | 22.0 |      |      |      |      |    |
| 97  | 1      | 1.97    |      | 22.0 |      |      |      |    |
| 102 | 3      | 0.93    |      |      | 20.0 |      |      |    |
| 105 | 4      | -0.36   |      |      |      |      | 17.5 |    |
| 107 | 3      | 0.93    | 20.0 |      |      |      |      |    |
| 109 | 3      | 0.57    | 19.3 |      |      |      |      |    |
| 113 | 4      | 0.21    |      |      | 18.6 |      |      |    |
| 114 | 3      | 0.93    | 20.0 |      |      |      |      |    |
| 119 | 3      | 0.93    |      |      | 20.0 |      |      |    |
| 121 | 4      | -0.10   |      |      | 18.0 |      |      |    |

| Lab | Rating | Z-value | 1    | 3    | 4    | 5 | 6    | 22 |
|-----|--------|---------|------|------|------|---|------|----|
| 127 | 3      | -0.78   |      |      | 16.7 |   |      |    |
| 128 | 2      | -1.30   |      |      |      |   | 15.7 |    |
| 129 | 3      | 0.93    | 20.0 |      |      |   |      |    |
| 132 | 3      | -0.62   |      |      | 17.0 |   |      |    |
| 134 | 4      | -0.08   |      |      | 18.1 |   |      |    |
| 138 | 4      | -0.10   |      |      | 18.0 |   |      |    |
| 140 | 3      | -0.62   | 17.0 |      |      |   |      |    |
| 141 | 4      | 0.00    |      |      | 18.2 |   |      |    |
| 142 | 4      | 0.42    |      |      | 19.0 |   |      |    |
| 145 | 2      | 1.30    |      |      | 20.7 |   |      |    |
| 146 | 4      | -0.21   |      |      | 17.8 |   |      |    |
| 151 | 3      | -0.88   |      |      |      |   | 16.5 |    |
| 158 | 3      | 0.67    |      |      | 19.5 |   |      |    |
| 180 | 4      | -0.05   |      |      | 18.1 |   |      |    |
| 183 | 0      | 2.33    |      | 22.7 |      |   |      |    |
| 190 | 3      | 0.57    |      | 19.3 |      |   |      |    |
| 191 | 4      | 0.42    |      |      |      |   | 19.0 |    |
| 196 | 4      | 0.42    |      |      |      |   | 19.0 |    |
| 203 | 3      | 0.93    | 20.0 |      |      |   |      |    |
| 204 | 0      | -2.18   |      |      | 14.0 |   |      |    |
| 212 | 4      | 0.42    |      |      |      |   | 19.0 |    |
| 215 | 4      | -0.05   |      |      | 18.1 |   |      |    |
| 217 | 4      | 0.00    |      |      | 18.2 |   |      |    |
| 219 | 3      | -0.62   |      |      | 17.0 |   |      |    |
| 220 | 3      | 0.52    | 19.2 |      |      |   |      |    |
| 221 | 3      | 0.78    |      | 19.7 |      |   |      |    |
| 224 | 4      | 0.42    |      |      | 19.0 |   |      |    |
| 234 | 4      | 0.10    |      |      | 18.4 |   |      |    |
| 235 | 4      | -0.10   |      |      | 18.0 |   |      |    |
| 236 | 3      | -0.93   |      |      | 16.4 |   |      |    |
| 240 | 4      | -0.10   |      |      | 18.0 |   |      |    |
| 241 | 3      | -0.62   | 17.0 |      |      |   |      |    |
| 244 | 0      | 6.90    |      |      |      |   | 31.5 |    |
| 255 | 4      | -0.12   |      |      | 18.0 |   |      |    |
| 256 | 4      | 0.42    | 19.0 |      |      |   |      |    |
| 257 | 4      | -0.10   | 18.0 |      |      |   | 19.0 |    |
| 265 | 4      | 0.42    |      |      |      |   |      |    |
| 273 | 2      | 1.45    |      |      | 21.0 |   |      |    |
| 274 | 0      | -5.60   |      | 7.4  |      |   |      |    |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)--Continued  
Mo (Molybdenum)  $\mu\text{g/L}$



|                             |                     |
|-----------------------------|---------------------|
| 2. AA: direct nitrous oxide | 6. ICP/MS           |
| 3. AA: graphite furnace     |                     |
| 4. ICP                      |                     |
| N =                         | 1 10 30 13          |
| Minimum =                   | 44.0 12.5 11.0 28.0 |
| Maximum =                   | 52.0 48.0 40.2      |
| Median =                    | 34.8 36.3 36.4      |
| F-pseudosigma =             | 2.5 5.4 1.8         |

MPV = 36.1  
F-pseudosigma = 4.3  
N = 54  
Hu = 37.8  
Hl = 32.0

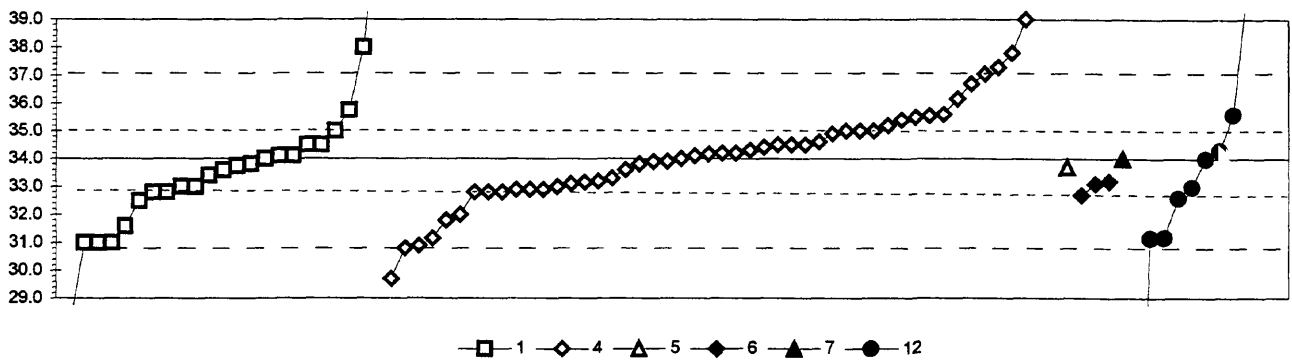
| Lab | Rating | Z-value | 2     | 3     | 4    | 6 |
|-----|--------|---------|-------|-------|------|---|
| 1   | 4      | -0.40   | 34.4  |       |      |   |
| 3   | 0      | -2.12   |       | 27.0  |      |   |
| 4   | NR     |         |       | < 500 |      |   |
| 7   | 1      | -1.56   |       | 29.4  |      |   |
| 11  | 4      | 0.21    |       | 37.0  |      |   |
| 15  | 3      | 0.51    |       | 38.3  |      |   |
| 16  | 4      | 0.37    |       |       | 37.7 |   |
| 18  | 4      | 0.21    |       | 37.0  |      |   |
| 23  | NR     |         | < 100 |       |      |   |
| 24  | 4      | -0.49   |       | 34.0  |      |   |
| 26  | 4      | 0.21    |       | 37.0  |      |   |
| 28  | 0      | -2.16   |       | 26.8  |      |   |
| 30  | 4      | -0.02   |       | 36.0  |      |   |
| 32  | 4      | 0.07    |       |       | 36.4 |   |
| 40  | 4      | 0.42    |       | 37.9  |      |   |
| 42  | 4      | -0.02   |       |       | 36.0 |   |
| 46  | 4      | -0.02   |       | 36.0  |      |   |
| 48  | 4      | 0.35    |       | 37.6  |      |   |
| 50  | 3      | -0.95   |       | 32.0  |      |   |
| 55  | 2      | -1.42   |       | 30.0  |      |   |
| 68  | 4      | 0.21    |       | 37.0  |      |   |
| 70  | NR     |         |       | < 50  |      |   |
| 75  | 2      | -1.02   |       | 31.7  |      |   |
| 81  | 1      | -1.88   |       |       | 28.0 |   |
| 86  | 2      | 1.02    |       | 40.5  |      |   |
| 87  | 4      | -0.23   | 35.1  |       |      |   |
| 97  | 4      | -0.16   | 35.4  |       |      |   |
| 105 | 3      | 0.95    |       |       | 40.2 |   |
| 109 | 0      | -5.49   | 12.5  |       |      |   |
| 119 | 4      | -0.23   |       |       | 35.1 |   |
| 127 | 3      | -0.93   | 32.1  |       |      |   |
| 128 | 2      | -1.12   |       | 31.3  |      |   |
| 132 | 0      | -2.35   |       | 26.0  |      |   |
| 134 | 4      | 0.21    |       | 37.0  |      |   |
| 138 | 4      | -0.05   |       |       | 35.9 |   |
| 141 | 4      | 0.28    |       | 37.3  |      |   |
| 142 | 3      | 0.51    |       |       | 38.3 |   |
| 145 | 2      | -1.28   |       | 30.6  |      |   |
| 146 | 4      | 0.02    |       | 36.2  |      |   |
| 151 | 3      | 0.58    |       |       | 38.6 |   |
| 180 | 2      | 1.14    |       | 41.0  |      |   |
| 191 | 3      | 0.84    |       |       | 39.7 |   |
| 196 | 4      | 0.07    |       |       | 36.4 |   |
| 212 | 4      | 0.44    |       |       | 38.0 |   |
| 215 | 4      | 0.21    |       | 37.0  |      |   |
| 217 | 4      | 0.40    |       | 37.8  |      |   |
| 219 | 0      | -2.12   |       | 27.0  |      |   |
| 221 | 4      | -0.16   | 35.4  |       |      |   |
| 224 | 0      | 2.77    |       | 48.0  |      |   |
| 234 | 4      | -0.42   | 34.3  |       |      |   |

| Lab | Rating | Z-value | 2    | 3    | 4    | 6    |
|-----|--------|---------|------|------|------|------|
| 235 | 3      | 0.67    |      |      | 39.0 |      |
| 236 | 0      | -3.81   |      |      | 19.7 |      |
| 240 | 0      | -5.84   |      |      | 11.0 |      |
| 241 | 0      | 3.70    |      | 52.0 |      |      |
| 255 | 4      | 0.05    |      |      | 36.3 |      |
| 257 | 1      | 1.84    | 44.0 |      |      |      |
| 265 | 4      | -0.26   |      |      |      | 35.0 |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)--Continued

Na (Sodium)

mg/L



|                   |   |
|-------------------|---|
| 1. AA: direct air | 6. ICP/MS                               |
| 4. ICP            | 7. Ion chromatography                   |
| 5. DCP            | 12. Flame emission                      |
|                   | N = 23 49 1 3 1 11                      |
|                   | Minimum = 28.0 29.7 33.7 32.7 34.0 18.4 |
|                   | Maximum = 42.5 55.0 33.2 50.0           |
|                   | Median = 33.6 34.2 34.0                 |
|                   | F-pseudosigma = 1.2 1.6 4.5             |

MPV = 34.0  
 F-pseudosigma = 1.6  
 N = 88  
 Hu = 35.0  
 HI = 32.9

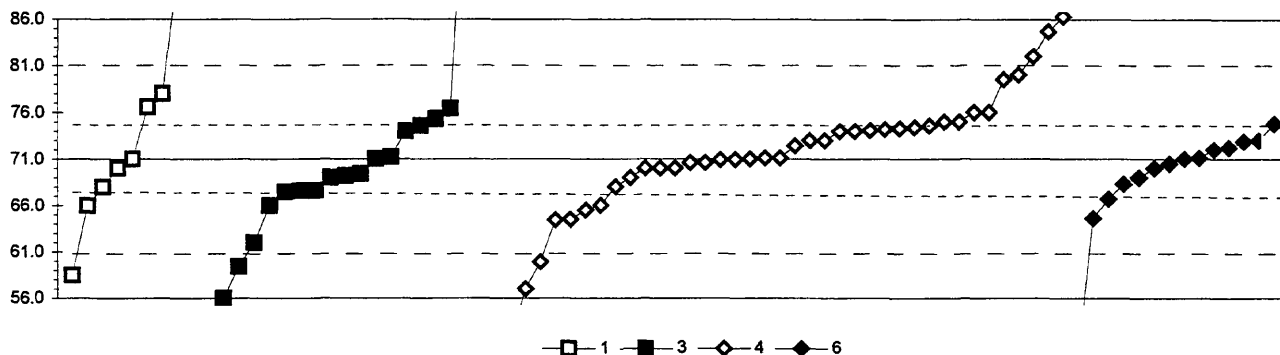
| Lab | Rating | Z-value | 1    | 4    | 5 | 6    | 7    | 12 |
|-----|--------|---------|------|------|---|------|------|----|
| 1   | 4      | -0.22   |      | 33.6 |   |      |      |    |
| 3   | 0      | 13.24   |      | 55.0 |   |      |      |    |
| 4   | 3      | 0.60    |      | 34.9 |   |      |      |    |
| 7   | 2      | 1.01    |      | 35.6 |   |      |      |    |
| 11  | 4      | -0.09   |      | 33.8 |   |      |      |    |
| 13  | 3      | 0.66    |      | 35.0 |   |      |      |    |
| 15  | 2      | -1.35   |      | 31.8 |   |      |      |    |
| 16  | 3      | -0.72   |      | 32.8 |   |      |      |    |
| 18  | 4      | -0.50   |      | 33.2 |   |      |      |    |
| 19  | 4      | 0.22    |      | 34.3 |   |      |      |    |
| 23  | 4      | -0.35   | 33.4 |      |   |      |      |    |
| 24  | 4      | -0.41   |      | 33.3 |   |      |      |    |
| 25  | 0      | 2.42    |      | 37.8 |   |      |      |    |
| 26  | 4      | 0.41    |      | 34.6 |   |      |      |    |
| 28  | 0      | 2.11    |      | 37.3 |   |      |      |    |
| 32  | 3      | -0.53   |      |      |   | 33.1 |      |    |
| 33  | 4      | -0.16   |      |      |   |      |      |    |
| 36  | 0      | 2.55    | 38.0 |      |   | 33.7 |      |    |
| 40  | 3      | -0.66   |      | 32.9 |   |      |      |    |
| 42  | 4      | -0.03   |      | 33.9 |   |      |      |    |
| 43  | 3      | 0.66    |      | 35.0 |   |      |      |    |
| 46  | 2      | 1.04    |      | 35.6 |   |      |      |    |
| 48  | 3      | 0.79    |      | 35.2 |   |      |      |    |
| 51  | 4      | 0.22    |      |      |   |      | 34.3 |    |
| 64  | 4      | -0.09   | 33.8 |      |   |      |      |    |
| 68  | 4      | 0.35    |      | 34.5 |   |      |      |    |
| 69  | 3      | -0.85   |      |      |   |      | 32.6 |    |
| 70  | 4      | 0.16    |      | 34.2 |   |      |      |    |
| 75  | 4      | 0.35    |      | 34.5 |   |      |      |    |
| 81  | 3      | -0.79   |      |      |   | 32.7 |      |    |
| 83  | 3      | -0.66   |      | 32.9 |   |      |      |    |
| 85  | 4      | 0.35    | 34.5 |      |   |      |      |    |
| 86  | 3      | 0.66    |      | 35.0 |   |      |      |    |
| 87  | 3      | -0.72   | 32.8 |      |   |      |      |    |
| 89  | 4      | -0.22   | 33.6 |      |   |      |      |    |
| 97  | 4      | 0.35    | 34.5 |      |   |      |      |    |
| 102 | 1      | -1.92   |      | 30.9 |   |      |      |    |
| 105 | 1      | -1.98   |      | 30.8 |   |      |      |    |
| 107 | 3      | -0.72   | 32.8 |      |   |      |      |    |
| 109 | 4      | 0.09    | 34.1 |      |   |      |      |    |
| 110 | 3      | -0.60   | 33.0 |      |   |      |      |    |
| 113 | 0      | -2.67   |      | 29.7 |   |      |      |    |
| 114 | 0      | -3.74   | 28.0 |      |   |      |      |    |
| 119 | 4      | 0.16    |      | 34.2 |   |      |      |    |
| 121 | 2      | -1.23   |      | 32.0 |   |      |      |    |
| 127 | 4      | -0.47   |      | 33.2 |   |      |      |    |
| 128 | 3      | -0.66   |      | 32.9 |   |      |      |    |
| 129 | 3      | 0.66    | 35.0 |      |   |      |      |    |
| 132 | 4      | 0.28    |      | 34.4 |   |      |      |    |
| 134 | 4      | -0.14   | 33.7 |      |   |      |      |    |

| Lab | Rating | Z-value | 1    | 4    | 5 | 6    | 7    | 12   |
|-----|--------|---------|------|------|---|------|------|------|
| 138 | 4      | 0.09    |      | 34.1 |   |      |      |      |
| 140 | 0      | 5.38    | 42.5 |      |   |      |      |      |
| 141 | 3      | 0.91    |      | 35.4 |   |      |      |      |
| 142 | 4      | 0.13    |      | 34.2 |   |      |      |      |
| 145 | 1      | 1.96    |      | 37.1 |   |      |      |      |
| 146 | 3      | 0.97    |      | 35.5 |   |      |      |      |
| 180 | 4      | 0.03    |      | 34.0 |   |      |      |      |
| 190 | 4      | 0.03    |      |      |   |      |      |      |
| 191 | 4      | -0.47   |      |      |   | 33.2 | 34.0 |      |
| 193 | 2      | -1.48   | 31.6 |      |   |      |      |      |
| 203 | 3      | -0.91   | 32.5 |      |   |      |      |      |
| 204 | 1      | -1.73   |      |      |   |      |      | 31.2 |
| 212 | 1      | 1.73    |      | 36.7 |   |      |      |      |
| 215 | 4      | 0.35    |      | 34.5 |   |      |      |      |
| 217 | 4      | -0.03   |      | 33.9 |   |      |      |      |
| 218 | 1      | -1.86   | 31.0 |      |   |      |      |      |
| 219 | 3      | -0.60   |      | 33.0 |   |      |      |      |
| 220 | 1      | -1.86   | 31.0 |      |   |      |      |      |
| 221 | 4      | 0.09    | 34.1 |      |   |      |      |      |
| 224 | 1      | -1.75   |      | 31.2 |   |      |      |      |
| 234 | 3      | -0.53   |      | 33.1 |   |      |      |      |
| 235 | 0      | 3.18    |      | 39.0 |   |      |      |      |
| 236 | 3      | -0.72   |      | 32.8 |   |      |      |      |
| 241 | 1      | -1.86   | 31.0 |      |   |      |      |      |
| 246 | 0      | 4.45    |      | 41.0 |   |      |      |      |
| 249 | 2      | 1.04    |      |      |   |      |      | 35.6 |
| 255 | 3      | -0.72   |      | 32.8 |   |      |      |      |
| 256 | 1      | -1.75   |      |      |   |      |      | 31.2 |
| 257 | 3      | -0.60   |      |      |   |      |      | 33.0 |
| 259 | 4      | 0.03    | 34.0 |      |   |      |      |      |
| 261 | 0      | 3.93    |      |      |   |      |      | 40.2 |
| 265 | 3      | -0.60   | 33.0 |      |   |      |      |      |
| 268 | 2      | 1.13    | 35.8 |      |   |      |      |      |
| 270 | 0      | 5.21    |      |      |   |      |      | 42.2 |
| 271 | 4      | 0.03    |      |      |   |      |      | 34.0 |
| 272 | 0      | 10.09   |      |      |   |      |      | 50.0 |
| 273 | 2      | 1.39    |      | 36.2 |   |      |      |      |
| 274 | 0      | -9.80   |      |      |   |      |      | 18.4 |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued

Ni (Nickel)

μg/L



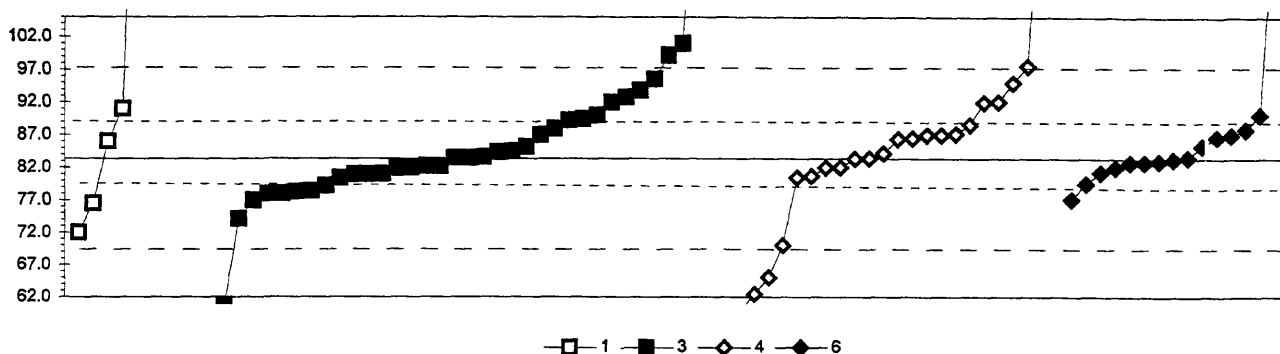
|                         |           |       |      |      |
|-------------------------|-----------|-------|------|------|
| 1. AA: direct air       | 6. ICP/MS |       |      |      |
| 3. AA: graphite furnace |           |       |      |      |
| 4. ICP                  |           |       |      |      |
| N =                     | 9         | 19    | 39   | 14   |
| Minimum =               | 58.5      | 30.0  | 31.8 | 50.0 |
| Maximum =               | 110.0     | 125.0 | 86.3 | 74.8 |
| Median =                | 71.0      | 69.2  | 71.1 | 70.8 |
| F-pseudosigma =         | 7.4       | 5.6   | 3.7  | 2.9  |

MPV = 71.0  
 F-pseudosigma = 5.0  
 N = 81  
 Hu = 74.4  
 HI = 67.6

| Lab | Rating | Z-value | 1     | 3     | 4     | 6    |
|-----|--------|---------|-------|-------|-------|------|
| 1   | 4      | 0.02    |       |       |       | 71.1 |
| 3   | 0      | -2.78   |       |       | 57.0  |      |
| 4   | NR     |         |       |       | < 200 |      |
| 7   | 1      | 1.69    |       |       | 79.5  |      |
| 11  | 4      | 0.40    |       |       | 73.0  |      |
| 13  | 2      | -1.31   |       |       | 64.4  |      |
| 15  | 3      | 0.85    |       | 75.3  |       |      |
| 16  | 4      | 0.38    |       |       |       | 72.9 |
| 18  | 4      | 0.02    |       |       | 71.1  |      |
| 19  | 0      | 2.72    |       |       | 84.7  |      |
| 23  | 3      | 0.60    |       | 74.0  |       |      |
| 24  | 3      | -0.60   |       |       | 68.0  |      |
| 26  | 3      | 0.71    |       |       | 74.6  |      |
| 28  | 0      | -7.78   |       |       | 31.8  |      |
| 30  | 4      | -0.20   |       |       | 70.0  |      |
| 32  | 4      | 0.00    |       |       |       | 71.0 |
| 36  | 1      | -1.79   |       | 62.0  |       |      |
| 39  | 3      | -0.99   |       | 66.0  |       |      |
| 40  | 0      | -3.91   |       |       | 51.3  |      |
| 42  | 4      | -0.20   |       |       |       | 70.0 |
| 46  | 3      | 0.63    |       |       | 74.2  |      |
| 48  | 2      | 1.07    |       | 76.4  |       |      |
| 50  | 0      | -2.98   |       | 56.0  |       |      |
| 58  | 0      | 7.74    | 110.0 |       |       |      |
| 68  | 3      | 0.60    |       |       | 74.0  |      |
| 69  | 0      | -2.48   | 58.5  |       |       |      |
| 70  | 4      | -0.02   |       |       | 70.9  |      |
| 73  | 4      | 0.40    |       |       | 73.0  |      |
| 75  | 4      | 0.02    |       |       | 71.1  |      |
| 76  | 3      | 0.75    |       |       |       | 74.6 |
| 81  | 0      | -4.17   |       |       |       | 50.0 |
| 83  | 4      | -0.08   |       |       | 70.6  |      |
| 85  | 3      | 0.67    |       |       | 74.4  |      |
| 86  | 2      | -1.29   |       |       | 64.5  |      |
| 87  | 2      | 1.39    | 78.0  |       |       |      |
| 89  | 3      | -0.69   |       | 67.5  |       |      |
| 96  | 3      | -0.67   |       | 67.6  |       |      |
| 97  | 4      | -0.40   |       | 69.0  |       |      |
| 102 | 1      | 1.79    |       |       | 80.0  |      |
| 105 | 3      | -0.85   |       |       |       | 66.7 |
| 113 | 4      | -0.08   |       |       | 70.6  |      |
| 114 | 4      | -0.20   | 70.0  |       |       |      |
| 118 | 0      | -8.13   |       | 30.0  |       |      |
| 119 | 0      | 6.55    |       | 104.0 |       |      |
| 121 | 4      | -0.20   |       |       | 70.0  |      |
| 127 | 4      | 0.00    |       | 71.0  |       |      |
| 128 | 2      | -1.27   |       |       |       | 64.6 |
| 132 | 3      | 0.79    |       |       | 75.0  |      |
| 133 | 3      | 0.65    |       |       | 74.3  |      |
| 134 | 4      | -0.32   |       | 69.4  |       |      |

| Lab | Rating | Z-value | 1    | 3     | 4    | 6    |
|-----|--------|---------|------|-------|------|------|
| 138 | 4      | -0.20   |      |       | 70.0 |      |
| 140 | 4      | 0.00    | 71.0 |       |      |      |
| 141 | 4      | -0.40   |      |       | 69.0 |      |
| 142 | 3      | -0.54   |      |       |      | 68.3 |
| 145 | 0      | 3.04    |      |       | 86.3 |      |
| 146 | 4      | 0.28    |      |       | 72.4 |      |
| 151 | 4      | -0.40   |      |       |      | 69.0 |
| 158 | 3      | 0.99    |      |       | 76.0 |      |
| 180 | 3      | 0.99    |      |       | 76.0 |      |
| 190 | 0      | -2.30   |      | 59.4  |      |      |
| 191 | 4      | 0.24    |      |       |      | 72.2 |
| 193 | 3      | -0.99   | 66.0 |       |      |      |
| 196 | 4      | -0.10   |      |       |      | 70.5 |
| 212 | 4      | 0.20    |      |       |      | 72.0 |
| 213 | 0      | 4.01    | 91.2 |       |      |      |
| 215 | 4      | 0.00    |      |       | 71.0 |      |
| 217 | 3      | 0.61    |      |       | 74.1 |      |
| 219 | 3      | -0.99   |      |       | 66.0 |      |
| 221 | 4      | 0.04    |      | 71.2  |      |      |
| 224 | 0      | -2.20   |      |       | 59.9 |      |
| 234 | 3      | 0.71    |      | 74.6  |      |      |
| 235 | 3      | 0.60    |      |       | 74.0 |      |
| 236 | 2      | -1.09   |      |       | 65.5 |      |
| 240 | 3      | 0.79    |      |       | 75.0 |      |
| 241 | 3      | -0.67   |      | 67.6  |      |      |
| 249 | 4      | -0.36   |      | 69.2  |      |      |
| 255 | 4      | -0.01   |      |       | 70.9 |      |
| 256 | 2      | 1.11    | 76.6 |       |      |      |
| 257 | 3      | -0.60   | 68.0 |       |      |      |
| 259 | 0      | 10.71   |      | 125.0 |      |      |
| 265 | 4      | 0.40    |      |       |      | 73.0 |
| 273 | 0      | 2.18    |      |       | 82.0 |      |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
Pb (Lead) µg/L



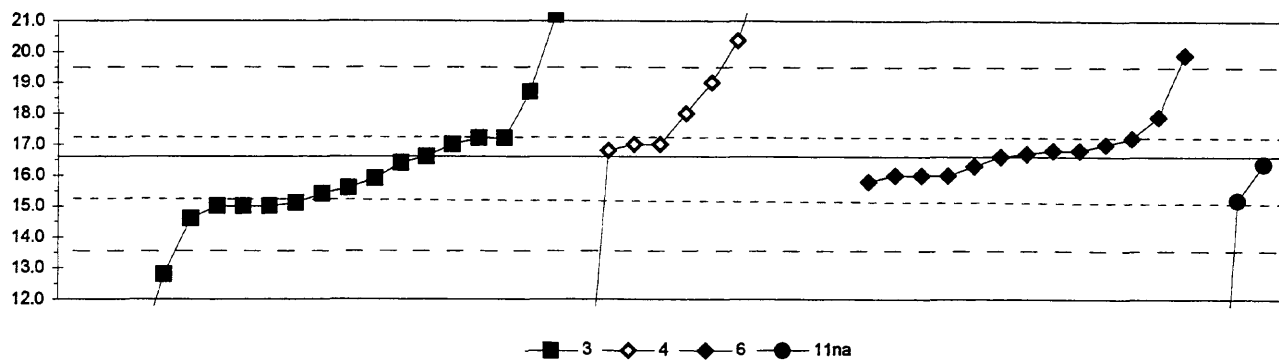
|                         |                                   |
|-------------------------|-----------------------------------|
| 1. AA: direct air       | 6. ICP/MS                         |
| 3. AA: graphite furnace |                                   |
| 4. ICP                  |                                   |
|                         | N = 5 40 24 15                    |
|                         | Minimum = 72.0 1.2 17.9 77.1      |
|                         | Maximum = 155.0 183.0 498.9 120.0 |
|                         | Median = 82.2 85.3 83.3           |
|                         | F-pseudosigma = 8.3 7.2 3.3       |

| Lab | Rating | Z-value | 1    | 3     | 4     | 6    |
|-----|--------|---------|------|-------|-------|------|
| 1   | 4      | 0.02    |      |       |       | 83.6 |
| 3   | 3      | 0.73    |      |       | 88.6  |      |
| 4   | NR     |         |      |       | < 400 |      |
| 7   | 4      | 0.43    |      |       | 86.5  |      |
| 11  | 4      | 0.42    |      |       | 86.4  |      |
| 13  | 3      | 0.85    |      | 89.5  |       |      |
| 15  | 1      | 1.71    |      | 95.6  |       |      |
| 16  | 4      | 0.46    |      |       |       | 86.7 |
| 18  | 4      | 0.01    |      | 83.5  |       |      |
| 19  | 2      | 1.47    |      | 93.9  |       |      |
| 23  | 3      | -0.72   |      | 78.3  |       |      |
| 24  | 0      | -3.33   |      |       | 59.8  |      |
| 26  | 4      | -0.39   |      |       | 80.7  |      |
| 28  | 0      | -9.23   |      |       | 17.9  |      |
| 30  | 4      | -0.20   |      |       | 82.0  |      |
| 32  | 4      | -0.30   |      |       |       | 81.3 |
| 34  | 2      | -1.32   |      | 74.1  |       |      |
| 36  | 3      | -0.77   |      | 78.0  |       |      |
| 39  | 4      | -0.34   |      | 81.0  |       |      |
| 42  | 4      | -0.06   |      |       |       | 83.0 |
| 46  | 3      | -0.91   |      | 77.0  |       |      |
| 48  | 4      | 0.14    |      | 84.4  |       |      |
| 58  | 2      | 1.21    |      | 92.0  |       |      |
| 68  | 0      | 14.03   |      | 183.0 |       |      |
| 69  | 4      | -0.43   |      | 80.4  |       |      |
| 70  | 4      | -0.17   |      | 82.2  |       |      |
| 73  | 4      | 0.50    |      |       | 87.0  |      |
| 75  | 1      | 1.99    |      |       | 97.6  |      |
| 76  | 4      | -0.02   |      |       |       | 83.3 |
| 80  | 4      | 0.01    |      | 83.5  |       |      |
| 81  | 4      | 0.50    |      | 87.0  |       |      |
| 83  | 4      | 0.02    |      | 83.6  |       |      |
| 85  | 3      | -0.98   | 76.5 |       |       |      |
| 86  | 4      | -0.34   |      | 81.0  |       |      |
| 87  | 3      | -0.77   |      | 78.0  |       |      |
| 89  | 4      | 0.25    |      | 85.2  |       |      |
| 96  | 2      | 1.32    |      | 92.8  |       |      |
| 97  | 4      | -0.22   |      | 81.9  |       |      |
| 102 | 1      | 1.63    |      |       | 95.0  |      |
| 105 | 3      | 0.63    |      |       |       | 87.9 |
| 109 | 0      | -7.25   |      | 32.0  |       |      |
| 113 | 4      | -0.33   |      | 81.1  |       |      |
| 114 | 1      | -1.61   | 72.0 |       |       |      |
| 118 | 0      | -7.82   |      | 27.9  |       |      |
| 119 | 4      | -0.20   |      | 82.0  |       |      |
| 127 | 3      | 0.53    |      |       | 87.2  |      |
| 128 | 4      | -0.09   |      |       |       | 82.8 |
| 132 | 4      | -0.41   |      |       | 80.5  |      |
| 133 | 2      | 1.21    |      |       | 92.0  |      |
| 134 | 4      | -0.01   |      |       | 83.4  |      |

MPV = 83.4  
F-pseudosigma = 7.1  
N = 84  
Hu = 89.0  
Hi = 79.4

| Lab | Rating | Z-value | 1     | 3     | 4     | 6     |
|-----|--------|---------|-------|-------|-------|-------|
| 138 | 3      | -0.89   |       |       |       | 77.1  |
| 140 | 4      | 0.36    | 86.0  |       |       |       |
| 141 | 0      | 2.47    |       | 101.0 |       |       |
| 142 | 4      | 0.50    |       |       |       | 87.0  |
| 145 | 0      | 58.53   |       |       | 498.9 |       |
| 146 | 4      | 0.11    |       |       | 84.2  |       |
| 151 | 4      | -0.09   |       |       |       | 82.8  |
| 158 | 0      | -7.51   |       | 30.1  |       |       |
| 180 | 2      | 1.22    |       |       | 92.1  |       |
| 190 | 0      | -3.19   |       | 60.8  |       |       |
| 191 | 4      | -0.20   |       |       |       | 82.0  |
| 193 | 3      | 0.64    |       | 88.0  |       |       |
| 196 | 4      | 0.28    |       |       |       | 85.4  |
| 204 | 4      | -0.17   |       | 82.2  |       |       |
| 212 | 0      | 5.15    |       |       |       | 120.0 |
| 213 | 3      | 0.92    |       | 90.0  |       |       |
| 215 | 4      | -0.20   |       |       | 82.0  |       |
| 217 | 3      | 0.94    |       |       |       | 90.1  |
| 219 | 1      | -1.89   |       |       | 70.0  |       |
| 220 | 3      | -0.71   |       | 78.4  |       |       |
| 221 | 4      | 0.15    |       | 84.5  |       |       |
| 224 | 0      | 8.00    |       | 140.3 |       |       |
| 234 | 3      | 0.83    |       | 89.3  |       |       |
| 235 | 4      | 0.50    |       |       | 87.0  |       |
| 236 | 0      | -2.96   |       |       | 62.4  |       |
| 240 | 0      | 6.70    |       |       | 131.0 |       |
| 241 | 0      | 2.22    |       | 99.2  |       |       |
| 249 | 3      | -0.60   |       | 79.2  |       |       |
| 255 | 4      | -0.01   |       |       | 83.4  |       |
| 256 | 0      | 10.08   | 155.0 |       |       |       |
| 257 | 2      | 1.07    | 91.0  |       |       |       |
| 259 | 0      | -4.15   |       | 54.0  |       |       |
| 265 | 3      | -0.55   |       |       |       | 79.6  |
| 273 | 0      | -2.60   |       |       | 65.0  |       |
| 274 | 0      | -11.59  |       | 1.2   |       |       |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
Sb (Antimony)  $\mu\text{g/L}$

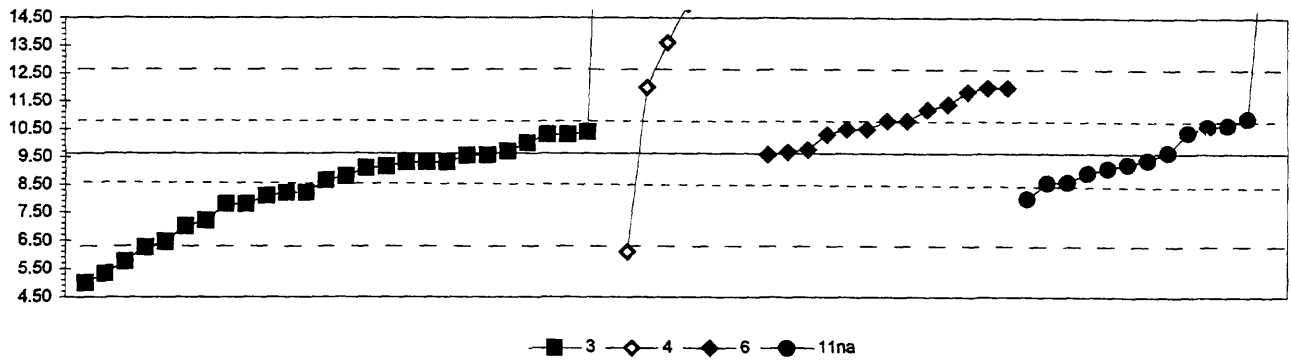


|                         |                                     |
|-------------------------|-------------------------------------|
| 3. AA: graphite furnace | 11na. AA: hydride NaBH <sub>4</sub> |
| 4. ICP                  |                                     |
| 6. ICP/MS               |                                     |
| N =                     | 19 11 13 3                          |
| Minimum =               | 8.0 5.7 15.8 2.0                    |
| Maximum =               | 21.2 49.7 19.9 16.4                 |
| Median =                | 15.4 19.0 16.7                      |
| F-pseudosigma =         | 1.5 7.5 0.7                         |

MPV = 16.6  
F-pseudosigma = 1.5  
N = 46  
Hu = 17.2  
Hi = 15.2

| Lab | Rating | Z-value | 3    | 4    | 6    | 11na |
|-----|--------|---------|------|------|------|------|
| 1   | 4      | -0.47   | 15.9 |      |      |      |
| 3   | 1      | 1.62    |      | 19.0 |      |      |
| 7   | 0      | 9.92    |      | 31.3 |      |      |
| 11  | 4      | 0.13    |      | 16.8 |      |      |
| 13  | 3      | -0.81   | 15.4 |      |      |      |
| 15  | 4      | 0.40    | 17.2 |      |      |      |
| 16  | 4      | 0.00    |      |      | 16.6 |      |
| 18  | 2      | -1.35   | 14.6 |      |      |      |
| 26  | NR     |         |      | < 20 |      |      |
| 30  | 4      | 0.27    |      | 17.0 |      |      |
| 32  | 4      | -0.40   |      |      | 16.0 |      |
| 36  | 0      | -4.45   | 10.0 |      |      |      |
| 39  | 4      | 0.07    |      |      | 16.7 |      |
| 40  | 0      | -7.35   |      | 5.7  |      |      |
| 42  | 4      | -0.40   |      |      | 16.0 |      |
| 46  | 4      | 0.40    | 17.2 |      |      |      |
| 48  | 0      | -2.56   | 12.8 |      |      |      |
| 68  | 0      | -4.79   | 9.5  |      |      |      |
| 69  | 2      | -1.08   | 15.0 |      |      |      |
| 70  | 0      | 3.10    | 21.2 |      |      |      |
| 75  | 0      | 4.25    |      | 22.9 |      |      |
| 81  | 0      | -7.07   |      |      | < 6  |      |
| 89  | 2      | 1.42    | 18.7 |      |      |      |
| 96  | 2      | -1.01   | 15.1 |      |      |      |
| 97  | 4      | 0.00    | 16.6 |      |      |      |
| 102 | 4      | 0.27    |      | 17.0 |      |      |
| 105 | 4      | 0.27    |      |      | 17.0 |      |
| 119 | 3      | -0.94   |      |      |      | 15.2 |
| 127 | 3      | -0.67   | 15.6 |      |      |      |
| 128 | 4      | -0.20   |      |      | 16.3 |      |
| 134 | 4      | -0.15   |      |      |      | 16.4 |
| 138 | 4      | 0.13    |      |      | 16.8 |      |
| 141 | 4      | -0.13   | 16.4 |      |      |      |
| 142 | 0      | 2.23    |      |      | 19.9 |      |
| 146 | NR     |         |      | < 20 |      |      |
| 151 | 4      | 0.40    |      |      | 17.2 |      |
| 180 | 0      | 10.12   |      | 31.6 |      |      |
| 193 | 2      | -1.08   | 15.0 |      |      |      |
| 196 | 3      | -0.54   |      |      | 15.8 |      |
| 212 | 4      | -0.40   |      |      | 16.0 |      |
| 215 | 0      | -5.80   | 8.0  |      |      |      |
| 217 | 3      | 0.88    |      |      | 17.9 |      |
| 234 | 4      | 0.27    | 17.0 |      |      |      |
| 235 | NR     |         |      | < 50 |      |      |
| 236 | 0      | 22.33   |      | 49.7 |      |      |
| 240 | 3      | 0.94    |      | 18.0 |      |      |
| 241 | 2      | -1.08   | 15.0 |      |      |      |
| 255 | 0      | 2.54    |      | 20.4 |      |      |
| 257 | 0      | -9.85   |      |      |      | 2.0  |
| 265 | 4      | 0.13    |      |      | 16.8 |      |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
Se (Selenium)  $\mu\text{g/L}$



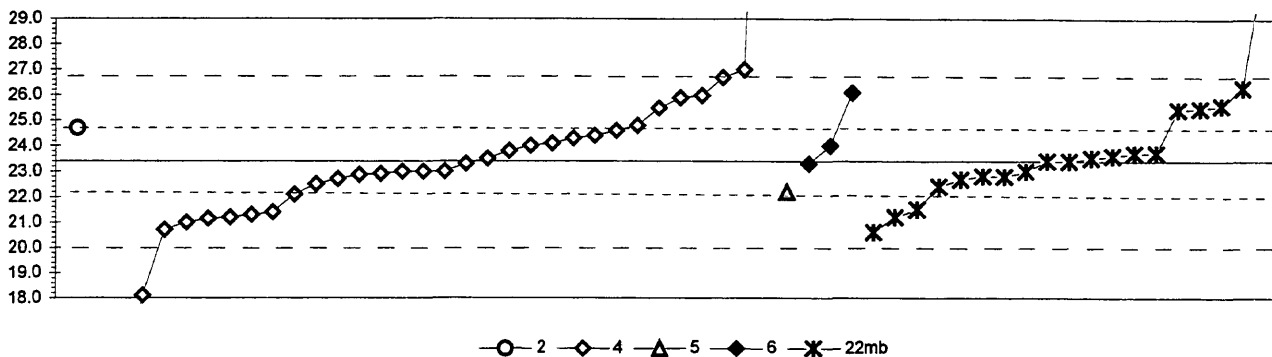
|                         |                                     |       |      |      |
|-------------------------|-------------------------------------|-------|------|------|
| 3. AA: graphite furnace | 11na. AA: hydride NaBH <sub>4</sub> |       |      |      |
| 4. ICP                  |                                     |       |      |      |
| 6. ICP/MS               |                                     |       |      |      |
| N =                     | 27                                  | 7     | 13   | 13   |
| Minimum =               | 5.0                                 | 6.1   | 9.6  | 8.0  |
| Maximum =               | 31.5                                | 174.1 | 12.0 | 19.4 |
| Median =                | 8.8                                 | 15.0  | 10.8 | 9.4  |
| F-pseudosigma =         | 1.5                                 | 7.2   | 0.8  | 1.3  |

MPV = 9.63  
F-pseudosigma = 1.64  
N = 60  
Hu = 10.80  
Hi = 8.59

| Lab | Rating | Z-value | 3     | 4      | 6     | 11na  |
|-----|--------|---------|-------|--------|-------|-------|
| 1   | 4      | -0.50   | 8.80  |        |       |       |
| 3   | 0      | -2.82   |       | < 5    |       |       |
| 7   | NR     |         |       | < 50   |       |       |
| 10  | 4      | -0.14   |       |        |       | 9.40  |
| 11  | 0      | 2.42    |       | 13.60  |       |       |
| 13  | 2      | -1.48   | 7.20  |        |       |       |
| 15  | 4      | 0.47    | 10.40 |        |       |       |
| 16  | 3      | 0.96    |       |        | 11.20 |       |
| 18  | 3      | -0.87   | 8.20  |        |       |       |
| 23  | 4      | -0.43   |       |        |       | 8.92  |
| 26  | 3      | -0.64   |       |        |       | 8.57  |
| 30  | 2      | 1.45    |       | 12.00  |       |       |
| 32  | 4      | 0.03    |       |        | 9.67  |       |
| 34  | 4      | -0.23   |       |        |       | 9.25  |
| 36  | 0      | -2.82   | 5.00  |        |       |       |
| 39  | 3      | 0.59    |       |        |       | 10.60 |
| 42  | 2      | 1.45    |       |        | 12.00 |       |
| 46  | 4      | -0.20   | 9.30  |        |       |       |
| 48  | 2      | -1.11   | 7.80  |        |       |       |
| 50  | 4      | -0.32   |       |        |       | 9.10  |
| 58  | 4      | 0.23    | 10.00 |        |       |       |
| 68  | 0      | -2.06   | 6.25  |        |       |       |
| 69  | 4      | -0.05   | 9.55  |        |       |       |
| 70  | NR     |         | < 10  |        |       |       |
| 73  | 0      | 9.97    |       | 26.00  |       |       |
| 75  | 4      | 0.03    |       |        |       | 9.67  |
| 80  | 4      | -0.20   | 9.30  |        |       |       |
| 86  | 3      | 0.78    |       |        |       | 10.90 |
| 87  | 0      | 5.95    |       |        |       | 19.40 |
| 89  | 3      | -0.99   |       |        |       | 8.00  |
| 96  | 4      | 0.05    | 9.70  |        |       |       |
| 97  | 0      | -2.36   | 5.75  |        |       |       |
| 102 | 0      | 5.71    |       | 19.00  |       |       |
| 105 | 4      | 0.41    |       |        | 10.30 |       |
| 113 | 3      | -0.59   | 8.65  |        |       |       |
| 118 | 3      | -0.93   | 8.10  |        |       |       |
| 119 | 4      | 0.47    |       |        |       | 10.40 |
| 127 | 4      | 0.41    | 10.30 |        |       |       |
| 128 | 3      | 0.53    |       |        | 10.50 |       |
| 133 | 3      | -0.87   | 8.20  |        |       |       |
| 134 | 3      | 0.62    |       |        |       | 10.65 |
| 138 | 4      | -0.03   |       |        | 9.58  |       |
| 141 | 4      | 0.41    | 10.30 |        |       |       |
| 142 | 3      | 0.53    |       |        | 10.50 |       |
| 144 | 4      | -0.20   | 9.30  |        |       |       |
| 146 | NR     |         |       | < 10   |       |       |
| 151 | 3      | 0.72    |       |        |       | 10.80 |
| 180 | NR     |         |       | < 50.1 |       |       |
| 190 | 0      | 13.32   | 31.50 |        |       |       |
| 191 | 2      | 1.08    |       |        | 11.40 |       |

| Lab | Rating | Z-value | 3    | 4      | 6     | 11na |
|-----|--------|---------|------|--------|-------|------|
| 193 | 1      | -1.60   | 7.00 |        |       |      |
| 196 | 3      | 0.72    |      |        | 10.80 |      |
| 212 | 2      | 1.45    |      |        | 12.00 |      |
| 215 | 4      | -0.32   | 9.10 |        |       |      |
| 217 | 4      | 0.09    |      |        | 9.77  |      |
| 220 | 2      | -1.11   | 7.80 |        |       |      |
| 221 | 4      | -0.28   | 9.16 |        |       |      |
| 224 | 0      | -2.15   |      | 6.10   |       |      |
| 234 | 4      | -0.04   | 9.56 |        |       |      |
| 236 | 0      | 100.17  |      | 174.10 |       |      |
| 240 | 0      | 3.27    |      | 15.00  |       |      |
| 241 | 1      | -1.94   | 6.44 |        |       |      |
| 255 | 0      | -2.62   | 5.33 |        |       |      |
| 259 | 3      | -0.62   |      |        |       | 8.60 |
| 265 | 2      | 1.36    |      |        | 11.85 |      |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
SiO<sub>2</sub> (Silica) mg/L



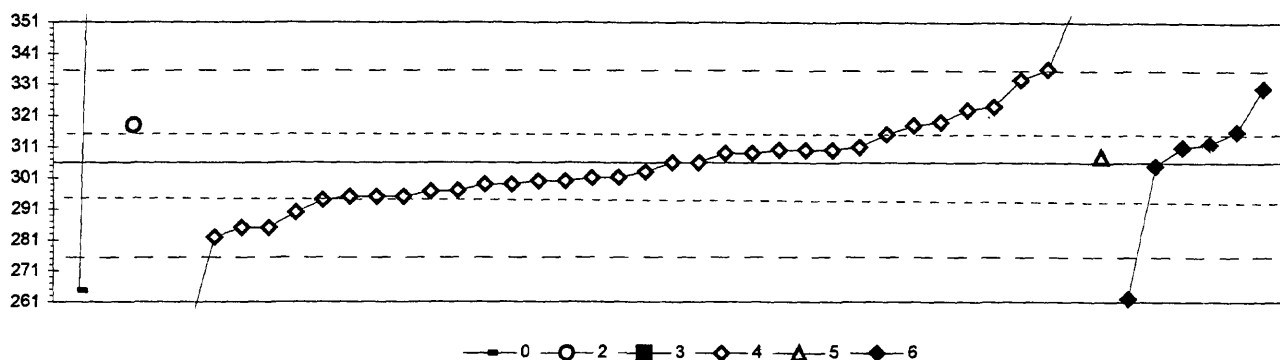
|                             |                 |  |                             |      |      |      |      |
|-----------------------------|-----------------|--|-----------------------------|------|------|------|------|
| 2. AA: direct nitrous oxide |                 |  | 6. ICP/MS                   |      |      |      |      |
| 4. ICP                      |                 |  | 22mb. Color: molybdate blue |      |      |      |      |
| 5. DCP                      |                 |  |                             |      |      |      |      |
|                             | N =             |  | 1                           | 32   | 1    | 3    | 19   |
|                             | Minimum =       |  | 24.7                        | 5.8  | 22.2 | 23.3 | 20.6 |
|                             | Maximum =       |  |                             | 45.9 |      | 26.1 | 31.3 |
|                             | Median =        |  |                             | 23.0 |      |      | 23.4 |
|                             | F-pseudosigma = |  |                             | 2.3  |      |      | 1.4  |

MPV = 23.4  
F-pseudosigma = 1.7  
N = 56  
Hu = 24.7  
HI = 22.3

| Lab | Rating | Z-value | 2 | 4    | 5    | 6    | 22mb |
|-----|--------|---------|---|------|------|------|------|
| 1   | 3      | -0.72   |   | 22.1 |      |      |      |
| 3   | 3      | 0.60    |   | 24.4 |      |      |      |
| 4   | 0      | 2.10    |   | 27.0 |      |      |      |
| 7   | 4      | 0.26    |   | 23.8 |      |      |      |
| 11  | 0      | -3.01   |   | 18.1 |      |      |      |
| 13  | 4      | -0.26   |   | 22.9 |      |      |      |
| 15  | 2      | 1.29    |   |      |      |      | 25.6 |
| 24  | 4      | 0.43    |   | 24.1 |      |      |      |
| 25  | 2      | 1.23    |   | 25.5 |      |      |      |
| 26  | 4      | -0.03   |   | 23.3 |      |      |      |
| 32  | 4      | 0.37    |   |      |      | 24.0 |      |
| 33  | 3      | -0.66   |   |      | 22.2 |      |      |
| 42  | 3      | 0.83    |   | 24.8 |      |      |      |
| 43  | 4      | -0.20   |   | 23.0 |      |      |      |
| 55  | 4      | 0.09    |   | 23.5 |      |      |      |
| 70  | 3      | -0.55   |   |      |      |      | 22.4 |
| 76  | 1      | 1.58    |   |      |      | 26.1 |      |
| 81  | 4      | 0.14    |   |      |      |      | 23.6 |
| 83  | 2      | -1.18   |   | 21.3 |      |      |      |
| 87  | 4      | 0.03    |   |      |      |      | 23.4 |
| 89  | 2      | -1.23   |   |      |      |      | 21.2 |
| 97  | 4      | -0.20   |   |      |      |      | 23.0 |
| 104 | 4      | -0.39   |   |      |      |      | 22.7 |
| 105 | 2      | -1.23   |   | 21.2 |      |      |      |
| 107 | 1      | 1.69    |   |      |      |      | 26.3 |
| 110 | 2      | 1.19    |   |      |      |      | 25.4 |
| 113 | 4      | -0.32   |   |      |      |      | 22.8 |
| 118 | 2      | 1.22    |   |      |      |      | 25.5 |
| 119 | 4      | -0.20   |   | 23.0 |      |      |      |
| 121 | 4      | -0.37   |   | 22.7 |      |      |      |
| 127 | 2      | -1.12   |   | 21.4 |      |      |      |
| 128 | 4      | 0.37    |   | 24.0 |      |      |      |
| 129 | 4      | 0.20    |   |      |      |      | 23.7 |
| 134 | 4      | -0.28   |   | 22.9 |      |      |      |
| 138 | 2      | -1.06   |   |      |      |      | 21.5 |
| 140 | 4      | -0.32   |   |      |      |      | 22.8 |
| 142 | 1      | 1.92    |   | 26.7 |      |      |      |
| 145 | 1      | 1.52    |   | 26.0 |      |      |      |
| 158 | 3      | 0.72    |   | 24.6 |      |      |      |
| 190 | 4      | 0.09    |   |      |      |      | 23.5 |
| 191 | 4      | -0.03   |   |      | 23.3 |      |      |
| 203 | 4      | 0.21    |   |      |      |      | 23.7 |
| 204 | 4      | 0.03    |   |      |      |      | 23.4 |
| 212 | 3      | 0.55    |   | 24.3 |      |      |      |
| 215 | 0      | 12.94   |   | 45.9 |      |      |      |
| 217 | 1      | -1.52   |   | 20.7 |      |      |      |
| 219 | 4      | -0.20   |   | 23.0 |      |      |      |
| 234 | 4      | -0.49   |   | 22.5 |      |      |      |
| 235 | 2      | 1.46    |   | 25.9 |      |      |      |
| 236 | 0      | -5.19   |   | 14.3 |      |      |      |

| Lab | Rating | Z-value | 2    | 4    | 5 | 6 | 22mb |
|-----|--------|---------|------|------|---|---|------|
| 240 | 2      | -1.35   |      | 21.0 |   |   |      |
| 241 | 3      | 0.77    | 24.7 |      |   |   |      |
| 246 | 0      | -10.05  |      | 5.8  |   |   |      |
| 256 | 1      | -1.58   |      |      |   |   | 20.6 |
| 265 | 2      | -1.26   |      | 21.2 |   |   |      |
| 274 | 0      | 4.55    |      |      |   |   | 31.3 |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
Sr (Strontium)  $\mu\text{g/L}$

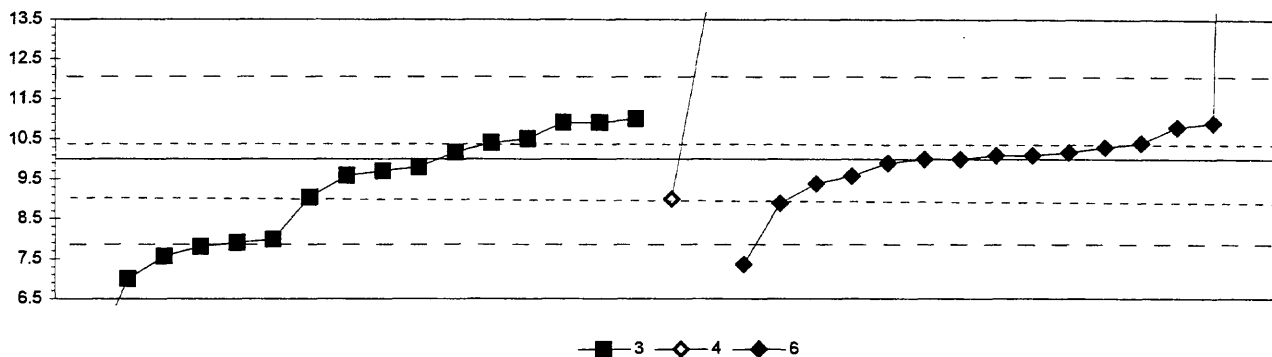


|                             |                         |
|-----------------------------|-------------------------|
| 0. Other                    | 4. ICP                  |
| 2. AA: direct nitrous oxide | 5. DCP                  |
| 3. AA: graphite furnace     | 6. ICP/MS               |
| N =                         | 2 1 1 34 1 6            |
| Minimum =                   | 265 318 255 249 308 262 |
| Maximum =                   | 613 356 302 12          |
| Median =                    |                         |
| F-pseudosigma =             |                         |

MPV = 306  
F-pseudosigma = 15  
N = 45  
Hu = 315  
Hl = 295

| Lab | Rating | Z-value | 0   | 2   | 3   | 4   | 5   | 6   |
|-----|--------|---------|-----|-----|-----|-----|-----|-----|
| 1   | 4      | -0.32   |     |     |     | 301 |     |     |
| 3   | 4      | 0.20    |     |     |     | 309 |     |     |
| 4   | 2      | 1.14    |     |     |     | 323 |     |     |
| 7   | 4      | -0.20   |     |     |     | 303 |     |     |
| 11  | 4      | -0.47   |     |     |     | 299 |     |     |
| 16  | 1      | -1.62   |     |     |     | 282 |     |     |
| 18  | 2      | -1.07   |     |     |     | 290 |     |     |
| 24  | 4      | 0.00    |     |     |     | 306 |     |     |
| 25  | 2      | 1.21    |     |     |     | 324 |     |     |
| 28  | 3      | 0.87    |     |     |     | 319 |     |     |
| 32  | 4      | 0.34    |     |     |     |     |     | 311 |
| 33  | 4      | 0.13    |     |     |     |     | 308 |     |
| 40  | 0      | -3.83   |     |     |     | 249 |     |     |
| 42  | 4      | -0.47   |     |     |     | 299 |     |     |
| 55  | 4      | 0.00    |     |     |     | 306 |     |     |
| 68  | 4      | 0.27    |     |     |     | 310 |     |     |
| 70  | 4      | 0.20    |     |     |     | 309 |     |     |
| 81  | 0      | -2.95   |     |     |     |     |     | 262 |
| 85  | 3      | 0.81    |     |     |     | 318 |     |     |
| 86  | 4      | -0.34   |     |     |     | 301 |     |     |
| 97  | 0      | -3.42   |     |     | 255 |     |     |     |
| 102 | 0      | 3.36    |     |     |     | 356 |     |     |
| 105 | 2      | -1.41   |     |     |     | 285 |     |     |
| 109 | 0      | -2.77   | 265 |     |     |     |     |     |
| 113 | 3      | -0.74   |     |     |     | 295 |     |     |
| 121 | 4      | -0.40   |     |     |     | 300 |     |     |
| 127 | 2      | -1.41   |     |     |     | 285 |     |     |
| 134 | 3      | -0.74   |     |     |     | 295 |     |     |
| 138 | 3      | -0.60   |     |     |     | 297 |     |     |
| 142 | 3      | 0.61    |     |     |     | 315 |     |     |
| 145 | 1      | 1.79    |     |     |     | 333 |     |     |
| 151 | 3      | 0.67    |     |     |     |     |     | 316 |
| 190 | 0      | 20.60   | 613 |     |     |     |     |     |
| 191 | 4      | -0.07   |     |     |     |     |     | 305 |
| 196 | 4      | 0.40    |     |     |     |     |     | 312 |
| 212 | 1      | 1.61    |     |     |     |     |     | 330 |
| 217 | 3      | -0.74   |     |     |     | 295 |     |     |
| 218 | 3      | 0.81    |     | 318 |     |     |     |     |
| 219 | 4      | 0.27    |     |     |     | 310 |     |     |
| 234 | 4      | 0.27    |     |     |     | 310 |     |     |
| 235 | 4      | 0.34    |     |     |     | 311 |     |     |
| 236 | 3      | -0.62   |     |     |     | 297 |     |     |
| 240 | 3      | -0.81   |     |     |     | 294 |     |     |
| 265 | 4      | -0.40   |     |     |     | 300 |     |     |
| 273 | 1      | 2.01    |     |     |     | 336 |     |     |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
 TI (Thallium)  $\mu\text{g/L}$

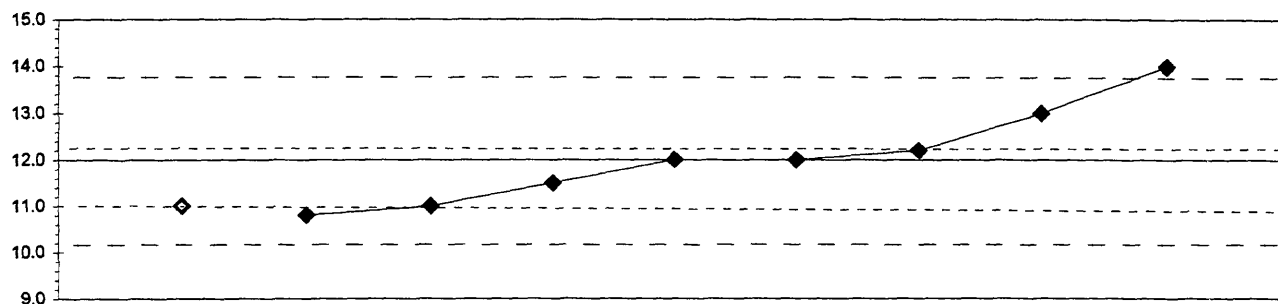


|                         |                 |      |      |      |
|-------------------------|-----------------|------|------|------|
| 3. AA: graphite furnace |                 |      |      |      |
| 4. ICP                  |                 |      |      |      |
| 6. ICP/MS               |                 |      |      |      |
|                         | N =             | 16   | 2    | 15   |
|                         | Minimum =       | 5.0  | 9.0  | 7.4  |
|                         | Maximum =       | 11.0 | 14.0 | 53.0 |
|                         | Median =        | 9.6  |      | 10.1 |
|                         | F-pseudosigma = | 1.9  |      | 0.5  |

MPV = 10.0  
 F-pseudosigma = 1.0  
 N = 33  
 Hu = 10.4  
 Hl = 9.0

| Lab | Rating | Z-value | 3      | 4    | 6    |
|-----|--------|---------|--------|------|------|
| 1   | 4      | 0.39    | 10.4   |      |      |
| 3   | NR     |         |        | < 10 |      |
| 11  | 0      | 3.85    |        | 14.0 |      |
| 13  | 4      | -0.19   | 9.8    |      |      |
| 15  | 1      | -1.95   | 8.0    |      |      |
| 16  | 4      | 0.16    |        |      | 10.2 |
| 18  | 4      | -0.29   | 9.7    |      |      |
| 23  | 0      | -5.00   | < 5    |      |      |
| 32  | 4      | -0.40   |        |      | 9.6  |
| 39  | 3      | 0.77    |        |      | 10.8 |
| 42  | 0      | -5.00   |        |      | < 5  |
| 46  | 3      | 0.87    | 10.9   |      |      |
| 48  | 1      | -2.02   | 7.9    |      |      |
| 69  | 3      | 0.96    | 11.0   |      |      |
| 70  | 0      | -2.12   | 7.8    |      |      |
| 76  | 0      | -2.54   |        |      | 7.4  |
| 81  | 0      | 41.43   |        |      | 53.0 |
| 89  | NR     |         | < 10   |      |      |
| 97  | 3      | 0.87    | 10.9   |      |      |
| 113 | 4      | -0.40   | 9.6    |      |      |
| 119 | 4      | 0.10    |        |      | 10.1 |
| 128 | 4      | 0.00    |        |      | 10.0 |
| 134 | 4      | 0.16    | 10.2   |      |      |
| 138 | 3      | -0.59   |        |      | 9.4  |
| 141 | NR     |         | < 50   |      |      |
| 142 | 4      | 0.39    |        |      | 10.4 |
| 146 | NR     |         | < 10   |      |      |
| 151 | 4      | 0.29    |        |      | 10.3 |
| 180 | NR     |         | < 32.1 |      |      |
| 191 | 4      | -0.10   |        |      | 9.9  |
| 193 | 0      | -2.89   | 7.0    |      |      |
| 196 | 4      | 0.10    |        |      | 10.1 |
| 212 | 4      | 0.00    |        |      | 10.0 |
| 213 | 3      | -0.93   | 9.0    |      |      |
| 215 | 0      | -3.00   | < 7    |      |      |
| 217 | 3      | 0.87    |        |      | 10.9 |
| 234 | 0      | -2.35   | 7.6    |      |      |
| 235 | 0      | -4.87   | 5.0    |      |      |
| 240 | 3      | -0.96   |        | 9.0  |      |
| 241 | 4      | 0.48    | 10.5   |      |      |
| 265 | 2      | -1.06   |        |      | 8.9  |

Table 12. *Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued*  
 U (Uranium)  $\mu\text{g/L}$



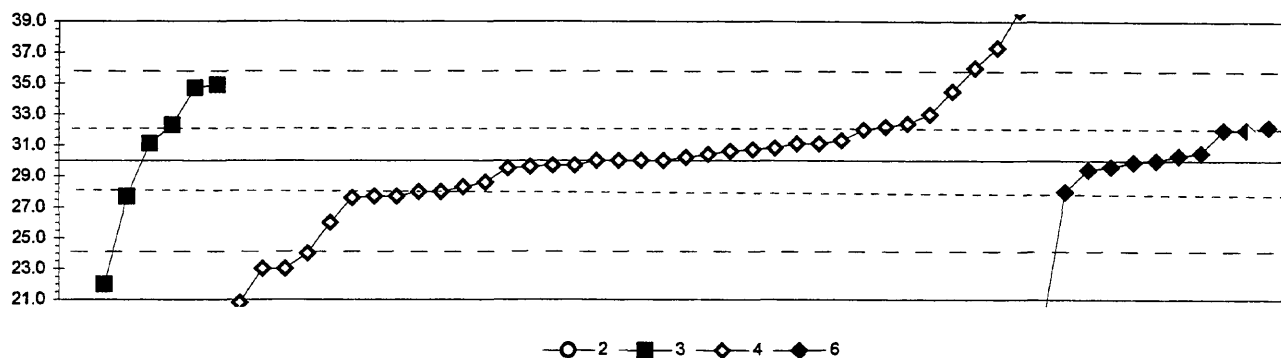
—◇— 4 —◇— 6

|           |                 |      |      |
|-----------|-----------------|------|------|
| 4. ICP    |                 |      |      |
| 6. ICP/MS |                 |      |      |
| 0. Other  |                 |      |      |
|           | N =             | 1    | 8    |
|           | Minimum =       | 11.0 | 10.8 |
|           | Maximum =       |      | 14.0 |
|           | Median =        |      | 12.0 |
|           | F-pseudosigma = |      | 1.0  |

MPV = 12.0  
 F-pseudosigma = 0.9  
 N = 9  
 Hu = 12.2  
 Hl = 11.0

| Lab | Rating | Z-value | 4     | 6    |
|-----|--------|---------|-------|------|
| 1   | 2      | -1.34   |       | 10.8 |
| 7   | NR     |         | < 120 |      |
| 16  | 4      | 0.00    |       | 12.0 |
| 30  | 2      | -1.12   | 11.0  |      |
| 75  | NR     |         | < 100 |      |
| 119 | 4      | 0.00    |       | 12.0 |
| 142 | 4      | 0.22    |       | 12.2 |
| 196 | 3      | -0.56   |       | 11.5 |
| 212 | 0      | 2.25    |       | 14.0 |
| 217 | 2      | 1.12    |       | 13.0 |
| 265 | 2      | -1.12   |       | 11.0 |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
V (Vanadium)  $\mu\text{g/L}$



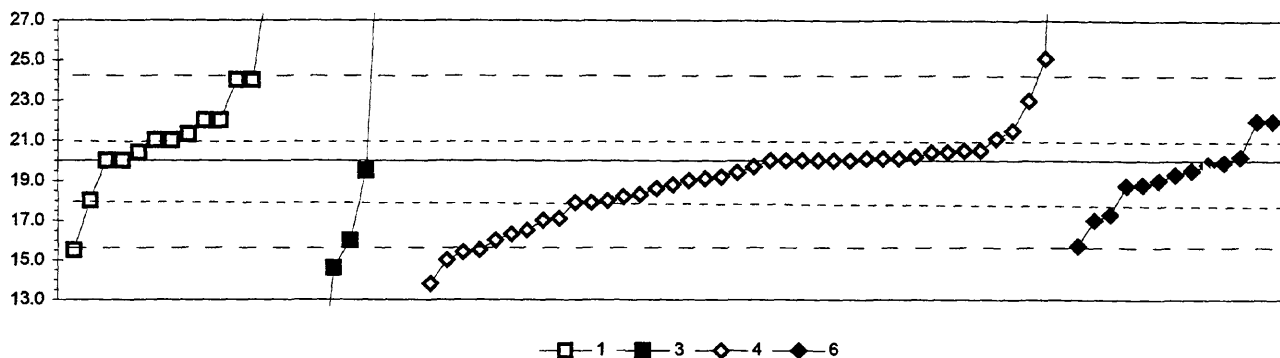
|                             |           |      |      |      |
|-----------------------------|-----------|------|------|------|
| 2. AA: direct nitrous oxide | 6. ICP/MS |      |      |      |
| 3. AA: graphite furnace     |           |      |      |      |
| 4. ICP                      |           |      |      |      |
| N =                         | 1         | 6    | 36   | 11   |
| Minimum =                   | 93.0      | 22.0 | 20.8 | 19.0 |
| Maximum =                   |           | 34.9 | 39.7 | 32.2 |
| Median =                    |           |      | 30.0 | 30.0 |
| F-pseudosioma =             |           |      | 2.5  | 1.3  |

MPV = 30.0  
F-pseudosigma = 3.0  
N = 54  
Hu = 32.0  
HI = 28.0

| Lab | Rating | Z-value | 2 | 3    | 4    | 6    |
|-----|--------|---------|---|------|------|------|
| 1   | 4      | 0.37    |   |      | 31.1 |      |
| 3   | 0      | -2.36   |   |      | 23.0 |      |
| 4   | NR     |         |   |      | < 50 |      |
| 7   | 3      | 0.81    |   |      | 32.4 |      |
| 11  | 4      | 0.00    |   |      | 30.0 |      |
| 13  | 0      | 3.27    |   |      | 39.7 |      |
| 15  | 0      | -3.10   |   |      | 20.8 |      |
| 16  | 4      | 0.10    |   |      |      | 30.3 |
| 18  | 3      | -0.67   |   |      | 28.0 |      |
| 24  | 1      | -2.02   |   |      | 24.0 |      |
| 25  | 0      | -2.36   |   |      | 23.0 |      |
| 26  | 4      | 0.00    |   |      | 30.0 |      |
| 28  | 4      | 0.07    |   |      | 30.2 |      |
| 30  | 4      | 0.00    |   |      | 30.0 |      |
| 32  | 4      | 0.17    |   |      |      | 30.5 |
| 40  | 3      | -0.78   |   |      | 27.7 |      |
| 42  | 3      | 0.67    |   |      |      | 32.0 |
| 46  | 3      | 0.74    |   |      | 32.2 |      |
| 48  | 3      | -0.78   |   | 27.7 |      |      |
| 50  | 0      | -2.70   |   | 22.0 |      |      |
| 55  | 3      | -0.57   |   |      | 28.3 |      |
| 68  | 2      | -1.35   |   |      | 26.0 |      |
| 70  | NR     |         |   |      | < 50 |      |
| 75  | 4      | -0.13   |   |      | 29.6 |      |
| 81  | 0      | -3.71   |   |      |      | 19.0 |
| 85  | 4      | 0.13    |   |      | 30.4 |      |
| 86  | 4      | 0.44    |   |      | 31.3 |      |
| 89  | 3      | 0.78    |   | 32.3 |      |      |
| 97  | 1      | 1.65    |   | 34.9 |      |      |
| 102 | 2      | 1.01    |   |      | 33.0 |      |
| 105 | 4      | -0.20   |   |      |      | 29.4 |
| 119 | 3      | -0.67   |   |      |      | 28.0 |
| 121 | 3      | 0.67    |   |      | 32.0 |      |
| 127 | 4      | 0.37    |   | 31.1 |      |      |
| 128 | 3      | -0.78   |   |      | 27.7 |      |
| 134 | 4      | -0.11   |   |      | 29.7 |      |
| 138 | 4      | -0.17   |   |      | 29.5 |      |
| 141 | 4      | 0.27    |   |      | 30.8 |      |
| 142 | 4      | -0.13   |   |      |      | 29.6 |
| 145 | 0      | 2.46    |   |      | 37.3 |      |
| 146 | 4      | 0.00    |   |      | 30.0 |      |
| 158 | 4      | 0.20    |   |      | 30.6 |      |
| 180 | 4      | 0.24    |   |      | 30.7 |      |
| 191 | 3      | 0.74    |   |      |      | 32.2 |
| 196 | 4      | -0.03   |   |      |      | 29.9 |
| 212 | 3      | 0.67    |   |      |      | 32.0 |
| 217 | 4      | -0.47   |   |      | 28.6 |      |
| 219 | 3      | -0.67   |   |      | 28.0 |      |
| 224 | 1      | 1.52    |   |      | 34.5 |      |
| 234 | 3      | -0.81   |   |      | 27.6 |      |

| Lab | Rating | Z-value | 2    | 3    | 4    | 6    |
|-----|--------|---------|------|------|------|------|
| 235 | 1      | 2.02    |      |      | 36.0 |      |
| 236 | 4      | 0.37    |      |      | 31.1 |      |
| 241 | 1      | 1.59    |      | 34.7 |      |      |
| 255 | 4      | -0.10   |      |      | 29.7 |      |
| 257 | 0      | 21.25   | 93.0 |      |      |      |
| 265 | 4      | 0.00    |      |      |      | 30.0 |

Table 12. Statistical summary of reported data for standard reference water sample T-143 (trace constituents)—Continued  
Zn (Zinc)  $\mu\text{g/L}$



|                         |           |       |      |      |
|-------------------------|-----------|-------|------|------|
| 1. AA: direct air       | 6. ICP/MS |       |      |      |
| 3. AA: graphite furnace |           |       |      |      |
| 4. ICP                  |           |       |      |      |
| N =                     | 15        | 7     | 40   | 13   |
| Minimum =               | 15.5      | 5.8   | 13.8 | 15.7 |
| Maximum =               | 50.0      | 184.0 | 44.0 | 22.0 |
| Median =                | 21.3      | 19.5  | 19.6 | 19.3 |
| F-pseudosigma =         | 2.8       | 16.6  | 1.7  | 0.9  |

MPV = 20.0  
F-pseudosigma = 2.2  
N = 75  
Hu = 21.0  
HI = 18.0

| Lab | Rating | Z-value | 1    | 3    | 4     | 6    |
|-----|--------|---------|------|------|-------|------|
| 1   | 3      | -0.57   |      |      |       | 18.7 |
| 3   | 2      | -1.30   |      |      | 17.1  |      |
| 4   | NR     |         |      |      | < 200 |      |
| 7   | 4      | -0.40   |      |      | 19.1  |      |
| 10  | 4      | 0.45    | 21.0 |      |       |      |
| 11  | 1      | -1.80   |      |      | 16.0  |      |
| 13  | 4      | 0.04    |      |      | 20.1  |      |
| 15  | 3      | -0.81   |      |      | 18.2  |      |
| 16  | 4      | -0.22   |      |      |       | 19.5 |
| 18  | NR     |         |      |      | < 100 |      |
| 19  | 4      | 0.49    |      |      | 21.1  |      |
| 23  | NR     |         | < 20 |      |       |      |
| 24  | 3      | -0.94   |      |      | 17.9  |      |
| 26  | 4      | 0.04    |      |      | 20.1  |      |
| 28  | 1      | -1.57   |      |      | 16.5  |      |
| 30  | 4      | 0.00    |      |      | 20.0  |      |
| 32  | 4      | -0.04   |      |      |       | 19.9 |
| 36  | 3      | 0.90    | 22.0 |      |       |      |
| 40  | 0      | -2.79   |      |      | 13.8  |      |
| 42  | 4      | -0.45   |      |      |       | 19.0 |
| 48  | 0      | -6.82   |      |      | < 5   |      |
| 58  | NR     |         | < 50 |      |       |      |
| 68  | 3      | 0.67    |      |      | 21.5  |      |
| 69  | NR     |         | < 50 |      |       |      |
| 70  | 4      | 0.04    |      |      | 20.1  |      |
| 73  | 4      | 0.00    |      |      | 20.0  |      |
| 75  | 4      | -0.36   |      |      | 19.2  |      |
| 80  | 1      | -2.02   | 15.5 |      |       |      |
| 81  | 2      | -1.35   |      |      |       | 17.0 |
| 83  | 3      | -0.76   |      |      | 18.3  |      |
| 86  | 4      | 0.22    |      |      | 20.5  |      |
| 87  | 1      | 1.80    | 24.0 |      |       |      |
| 89  | 0      | 9.31    |      | 40.7 |       |      |
| 96  | 3      | 0.90    | 22.0 |      |       |      |
| 97  | 0      | -2.43   |      | 14.6 |       |      |
| 102 | 4      | 0.00    |      |      | 20.0  |      |
| 105 | 4      | -0.31   |      |      |       | 19.3 |
| 113 | 4      | -0.27   |      |      | 19.4  |      |
| 114 | 3      | -0.90   | 18.0 |      |       |      |
| 118 | 1      | 1.80    | 24.0 |      |       |      |
| 119 | 0      | 10.79   |      |      | 44.0  |      |
| 121 | 4      | 0.00    |      |      | 20.0  |      |
| 127 | 1      | -1.66   |      |      | 16.3  |      |
| 128 | 4      | 0.09    |      |      | 20.2  |      |
| 132 | 4      | 0.00    |      |      | 20.0  |      |
| 133 | 4      | 0.22    |      |      | 20.5  |      |
| 134 | 4      | 0.19    |      |      | 20.4  |      |
| 138 | 2      | -1.21   |      |      |       | 17.3 |
| 140 | 4      | 0.00    | 20.0 |      |       |      |
| 141 | 4      | -0.13   |      |      | 19.7  |      |

| Lab | Rating | Z-value | 1    | 3     | 4    | 6    |
|-----|--------|---------|------|-------|------|------|
| 142 | 1      | -1.93   |      |       |      | 15.7 |
| 145 | 0      | 2.29    |      |       | 25.1 |      |
| 146 | NR     |         |      |       | < 20 |      |
| 151 | 4      | 0.09    |      |       |      | 20.2 |
| 158 | 3      | -0.63   |      |       | 18.6 |      |
| 180 | 4      | 0.18    |      |       | 20.4 |      |
| 190 | 3      | 0.58    | 21.3 |       |      |      |
| 191 | 3      | -0.54   |      |       |      | 18.8 |
| 193 | NR     |         | < 50 |       |      |      |
| 196 | 4      | -0.09   |      |       |      | 19.8 |
| 204 | 3      | -0.90   |      |       | 18.0 |      |
| 212 | 3      | 0.90    |      |       |      | 22.0 |
| 213 | 0      | 4.18    | 29.3 |       |      |      |
| 215 | 4      | 0.00    |      |       | 20.0 |      |
| 217 | 3      | -0.94   |      |       | 17.9 |      |
| 219 | 2      | -1.35   |      |       | 17.0 |      |
| 220 | 4      | 0.00    | 20.0 |       |      |      |
| 221 | 0      | 6.66    |      | 34.8  |      |      |
| 224 | 4      | -0.45   |      |       | 19.0 |      |
| 234 | 0      | -2.07   |      |       | 15.4 |      |
| 235 | 4      | -0.22   |      | 19.5  |      |      |
| 236 | 1      | -2.02   |      |       | 15.5 |      |
| 240 | 2      | 1.35    |      |       | 23.0 |      |
| 241 | 1      | -1.80   |      | 16.0  |      |      |
| 249 | 0      | 73.75   |      | 184.0 |      |      |
| 253 | 0      | 13.49   | 50.0 |       |      |      |
| 255 | 3      | -0.54   |      |       | 18.8 |      |
| 256 | 4      | 0.18    | 20.4 |       |      |      |
| 257 | 4      | 0.45    | 21.0 |       |      |      |
| 259 | 0      | 13.49   | 50.0 |       |      |      |
| 265 | 3      | 0.90    |      |       |      | 22.0 |
| 273 | 0      | -2.25   |      |       | 15.0 |      |
| 274 | 0      | -6.37   |      | 5.8   |      |      |

Table 13. *Statistical summary of reported data for standard reference water sample T-145 (trace constituents)*

## Definition of analytical methods, abbreviations, and symbols

Analytical methods

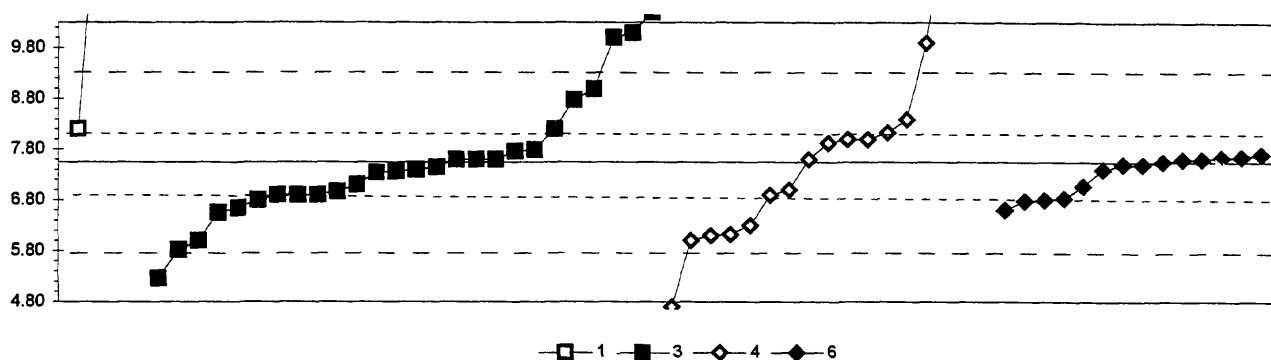
|                                 |   |  |
|---------------------------------|---|--|
| 0. Other/Not reported           | = |  |
| 1. AA: direct, air              | = | atomic absorption: direct,air                                |
| 2. AA: direct, N <sub>2</sub> O | = | atomic absorption: direct,nitrous 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          | 74          | Mg Magnesium            | 88          |
| Al Aluminium       | 75          | Mn Manganese            | 89          |
| As Arsenic         | 76          | Mo Molybdenum           | 90          |
| B Boron            | 77          | Na Sodium               | 91          |
| Ba Barium          | 78          | Ni Nickel               | 92          |
| Be Beryllium       | 79          | Pb Lead                 | 93          |
| Ca Calcium         | 80          | Sb Antimony             | 94          |
| Cd Cadmium         | 81          | Se Selenium             | 95          |
| Co Cobalt          | 82          | SiO <sub>2</sub> Silica | 96          |
| Cr Chromium        | 83          | Sr Strontium            | 97          |
| Cu Copper          | 84          | Tl Thallium             | 98          |
| Fe Iron            | 85          | U Uranium               | 99          |
| K Potassium        | 86          | V Vanadium              | 100         |
| Li Lithium         | 87          | Zn Zinc                 | 101         |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Ag (Silver)  $\mu\text{g/L}$



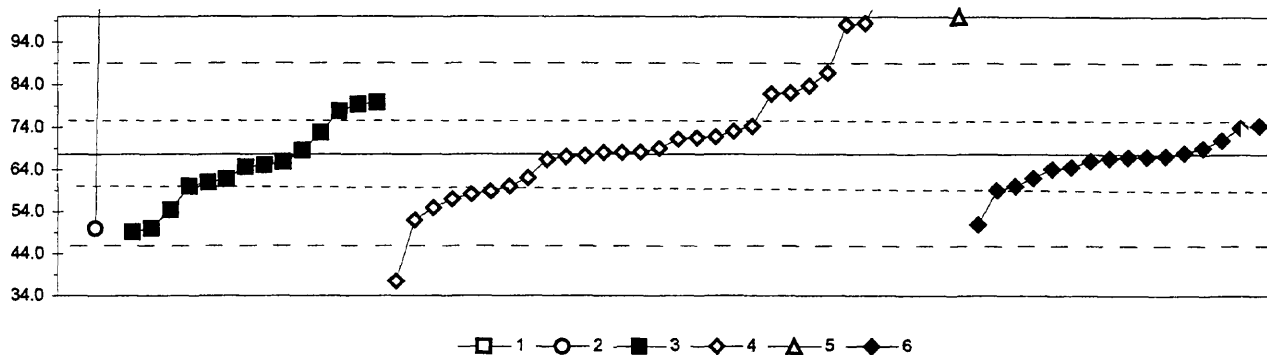
|                         |                        |
|-------------------------|------------------------|
| 1. AA: direct air       | 6. ICP/MS              |
| 3. AA: graphite furnace |                        |
| 4. ICP                  |                        |
| N =                     | 4 26 17 14             |
| Minimum =               | 8.20 5.26 4.70 6.60    |
| Maximum =               | 15.00 10.50 52.00 7.71 |
| Median =                | 7.38 7.93 7.50         |
| F-pseudosigma =         | 0.66 1.56 0.57         |

MPV = 7.55  
F-pseudosigma = 0.92  
N = 61  
Hu = 8.13  
Hi = 6.89

| Lab | Rating | Z-value | 1     | 3     | 4     | 6    |
|-----|--------|---------|-------|-------|-------|------|
| 1   | 4      | 0.00    |       |       |       | 7.55 |
| 3   | 1      | -1.69   |       |       | 6.00  |      |
| 4   | 4      | 0.49    |       |       | 8.00  |      |
| 5   | 2      | -1.09   |       | 6.55  |       |      |
| 7   | 0      | 2.56    |       |       | 9.90  |      |
| 11  | 4      | 0.49    |       |       | 8.00  |      |
| 13  | 3      | 0.63    |       |       | 8.13  |      |
| 15  | NR     |         |       |       | < 10  |      |
| 16  | 4      | 0.05    |       |       |       | 7.60 |
| 16  | 3      | 0.92    |       |       | 8.40  |      |
| 23  | 4      | 0.26    |       | 7.79  |       |      |
| 26  | 4      | 0.23    |       | 7.76  |       |      |
| 30  | 4      | 0.05    |       |       | 7.60  |      |
| 32  | 4      | -0.16   |       |       |       | 7.40 |
| 36  | 0      | 8.10    | 15.00 |       |       |      |
| 42  | 4      | -0.05   |       |       |       | 7.50 |
| 46  | 4      | -0.49   |       | 7.10  |       |      |
| 48  | 4      | 0.05    |       | 7.60  |       |      |
| 58  | 1      | 1.58    |       | 9.00  |       |      |
| 59  | 4      | 0.05    |       |       |       | 7.60 |
| 68  | 0      | 2.77    |       | 10.10 |       |      |
| 69  | 3      | -0.63   |       | 6.97  |       |      |
| 70  | NR     |         |       | < 10  |       |      |
| 75  | 1      | -1.56   |       |       | 6.12  |      |
| 85  | 3      | 0.71    | 8.20  |       |       |      |
| 87  | 0      | 5.93    | 13.00 |       |       |      |
| 89  | 4      | 0.05    |       | 7.60  |       |      |
| 96  | 3      | 0.71    |       | 8.20  |       |      |
| 97  | 3      | -0.99   |       | 6.64  |       |      |
| 102 | 0      | 48.36   |       |       | 52.00 |      |
| 105 | 3      | -0.84   |       |       |       | 6.78 |
| 107 | 4      | -0.16   |       | 7.40  |       |      |
| 113 | 3      | -0.82   |       | 6.80  |       |      |
| 114 | NR     |         | < 10  |       |       |      |
| 118 | 3      | -0.71   |       | 6.90  |       |      |
| 119 | 3      | -0.71   |       | 6.90  |       |      |
| 128 | 4      | -0.05   |       |       |       | 7.50 |
| 133 | 1      | -1.58   |       |       | 6.10  |      |
| 134 | 3      | -0.72   |       |       | 6.89  |      |
| 138 | 3      | -0.52   |       |       |       | 7.07 |
| 141 | 0      | 5.17    |       |       | 12.30 |      |
| 142 | 2      | -1.03   |       |       |       | 6.60 |
| 146 | NR     |         |       |       | < 10  |      |
| 149 | 4      | 0.05    |       | 7.60  |       |      |
| 151 | 4      | 0.10    |       |       |       | 7.64 |
| 180 | 2      | -1.36   |       |       | 6.30  |      |
| 190 | 2      | 1.34    |       | 8.78  |       |      |
| 193 | 1      | -1.69   |       | 6.00  |       |      |
| 196 | 4      | 0.17    |       |       |       | 7.71 |
| 212 | 3      | -0.82   |       |       |       | 6.80 |

| Lab | Rating | Z-value | 1     | 3     | 4     | 6    |
|-----|--------|---------|-------|-------|-------|------|
| 213 | 4      | -0.11   |       | 7.45  |       |      |
| 215 | 0      | 2.67    |       | 10.00 |       |      |
| 217 | 3      | -0.78   |       |       |       | 6.83 |
| 221 | 4      | -0.21   |       | 7.36  |       |      |
| 234 | 4      | -0.23   |       | 7.34  |       |      |
| 235 | 3      | -0.60   |       |       | 7.00  |      |
| 236 | 0      | -3.10   |       |       | 4.70  |      |
| 241 | 3      | -0.71   |       | 6.90  |       |      |
| 245 | 1      | -1.88   |       | 5.82  |       |      |
| 249 | 0      | -2.49   |       | 5.26  |       |      |
| 255 | 4      | 0.41    |       |       | 7.93  |      |
| 257 | 0      | 5.93    | 13.00 |       |       |      |
| 259 | 0      | 3.21    |       | 10.50 |       |      |
| 265 | 4      | 0.11    |       |       |       | 7.65 |
| 273 | 0      | 11.37   |       |       | 18.00 |      |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Al (Aluminum)  $\mu\text{g/L}$



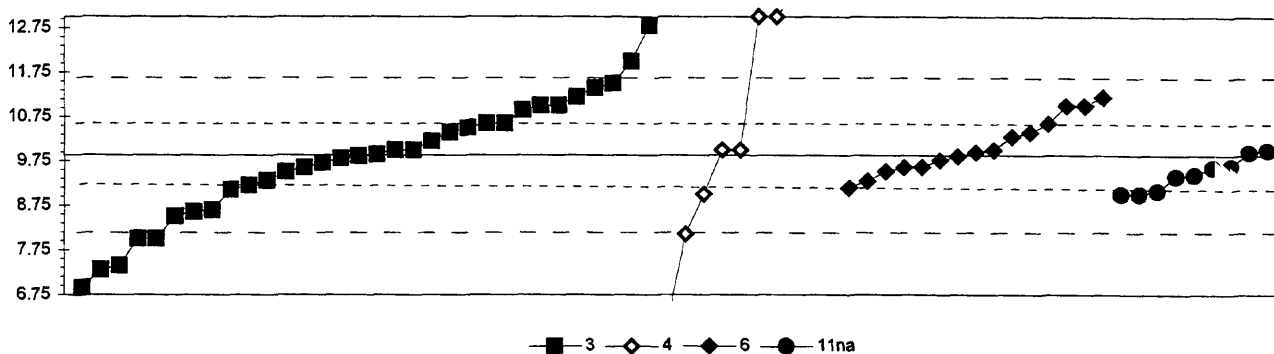
|                             |           |       |      |       |       |      |
|-----------------------------|-----------|-------|------|-------|-------|------|
| 1. AA: direct air           | 4. ICP    |       |      |       |       |      |
| 2. AA: direct nitrous oxide | 5. DCP    |       |      |       |       |      |
| 3. AA: graphite furnace     | 6. ICP/MS |       |      |       |       |      |
| N =                         | 1         | 2     | 13   | 31    | 1     | 16   |
| Minimum =                   | 117.0     | 50.0  | 49.2 | 37.5  | 100.0 | 51.0 |
| Maximum =                   |           | 300.0 | 79.8 | 157.0 |       | 74.4 |
| Median =                    |           |       | 64.8 | 70.1  |       | 66.8 |
| F-pseudosigma =             |           |       | 9.4  | 16.2  |       | 4.1  |

MPV = 67.6  
F-pseudosigma = 11.0  
N = 64  
Hu = 76.1  
HI = 61.3

| Lab | Rating | Z-value | 1     | 2      | 3    | 4     | 5     | 6    |
|-----|--------|---------|-------|--------|------|-------|-------|------|
| 1   | 3      | -0.69   |       |        |      |       |       | 60.1 |
| 3   | 0      | 2.77    |       |        |      | 98.0  |       |      |
| 4   | 4      | 0.04    |       |        |      | 68.0  |       |      |
| 5   | 3      | 0.60    |       |        |      | 74.2  |       |      |
| 7   | 2      | 1.48    |       |        |      | 83.8  |       |      |
| 11  | 3      | -0.69   |       |        |      | 60.0  |       |      |
| 13  | 2      | 1.11    |       |        | 79.8 |       |       |      |
| 15  | 2      | 1.32    |       |        |      | 82.1  |       |      |
| 16  | 3      | -0.77   |       |        |      |       |       | 59.1 |
| 18  | NR     |         |       |        |      | < 100 |       |      |
| 23  | NR     |         |       |        | < 50 |       |       |      |
| 26  | 4      | -0.16   |       |        |      | 65.8  |       |      |
| 28  | 0      | -2.74   |       |        |      | 37.5  |       |      |
| 32  | 4      | 0.14    |       |        |      |       |       | 69.1 |
| 33  | 0      | 2.95    |       |        |      |       | 100.0 |      |
| 36  | 0      | 21.18   |       | 300.0  |      |       |       |      |
| 40  | 3      | -0.80   |       |        |      | 58.8  |       |      |
| 42  | 4      | -0.05   |       |        |      |       |       | 67.0 |
| 46  | 1      | 1.75    |       |        |      | 86.8  |       |      |
| 48  | 1      | -1.68   |       |        | 49.2 |       |       |      |
| 58  | 0      | 4.50    | 117.0 |        |      |       |       |      |
| 59  | 3      | 0.62    |       |        |      |       |       | 74.4 |
| 68  | 0      | 2.82    |       |        |      | 98.5  |       |      |
| 69  | 1      | -1.60   |       |        | 50.0 |       |       |      |
| 70  | NR     |         |       |        |      | < 100 |       |      |
| 73  | 3      | -0.51   |       |        |      | 62.0  |       |      |
| 75  | 4      | -0.04   |       |        |      | 67.2  |       |      |
| 76  | 4      | -0.08   |       |        |      |       |       | 66.7 |
| 81  | 1      | -1.51   |       |        |      |       |       | 51.0 |
| 83  | 3      | -0.97   |       |        |      | 57.0  |       |      |
| 85  | NR     |         |       |        |      | < 100 |       |      |
| 89  | 4      | -0.27   |       |        | 64.6 |       |       |      |
| 97  | 4      | 0.46    |       |        | 72.7 |       |       |      |
| 102 | 4      | 0.13    |       |        |      | 69.0  |       |      |
| 105 | 4      | -0.15   |       |        |      |       |       | 66.0 |
| 107 | 4      | -0.24   |       |        | 65.0 |       |       |      |
| 113 | 4      | 0.05    |       |        |      | 68.1  |       |      |
| 118 | NR     |         |       | < 2000 |      |       |       |      |
| 119 | 3      | -0.51   |       |        |      |       |       | 62.0 |
| 128 | 4      | 0.31    |       |        |      |       |       | 71.0 |
| 132 | 4      | 0.49    |       |        |      | 73.0  |       |      |
| 134 | 4      | 0.37    |       |        |      | 71.7  |       |      |
| 138 | 4      | -0.27   |       |        |      |       |       | 64.6 |
| 141 | NR     |         |       |        |      | < 100 |       |      |
| 142 | 4      | -0.12   |       |        |      | 66.3  |       |      |
| 145 | 0      | 3.61    |       |        |      | 107.2 |       |      |
| 146 | NR     |         |       |        |      | < 200 |       |      |
| 149 | 3      | -0.69   |       |        | 60.0 |       |       |      |
| 151 | 4      | -0.32   |       |        |      |       |       | 64.1 |
| 158 | 4      | 0.36    |       |        |      | 71.5  |       |      |

| Lab | Rating | Z-value | 1 | 2    | 3    | 4      | 5 | 6    |
|-----|--------|---------|---|------|------|--------|---|------|
| 180 | NR     |         |   |      |      | < 40.6 |   |      |
| 190 | 3      | -0.54   |   |      | 61.7 |        |   |      |
| 191 | 4      | 0.04    |   |      |      |        |   | 68.0 |
| 196 | 4      | -0.04   |   |      |      |        |   | 67.2 |
| 203 | 3      | -0.61   |   |      | 60.9 |        |   |      |
| 204 | 2      | 1.08    |   |      | 79.4 |        |   |      |
| 212 | 3      | 0.58    |   |      |      |        |   | 74.0 |
| 215 | 0      | 5.41    |   |      |      | 127.0  |   |      |
| 217 | 2      | 1.30    |   |      |      | 81.9   |   |      |
| 219 | 4      | 0.04    |   |      |      | 68.0   |   |      |
| 221 | 4      | 0.08    |   |      | 68.5 |        |   |      |
| 224 | 2      | -1.16   |   |      |      | 54.9   |   |      |
| 234 | 4      | -0.05   |   |      |      | 67.0   |   |      |
| 235 | 2      | -1.42   |   |      |      | 52.0   |   |      |
| 236 | 4      | 0.33    |   |      |      | 71.2   |   |      |
| 240 | 0      | 4.32    |   |      |      | 115.0  |   |      |
| 241 | 2      | -1.20   |   |      | 54.4 |        |   |      |
| 249 | 3      | 0.93    |   |      | 77.8 |        |   |      |
| 255 | 3      | -0.87   |   |      |      | 58.1   |   |      |
| 257 | 1      | -1.60   |   | 50.0 |      |        |   |      |
| 265 | 4      | -0.06   |   |      |      |        |   | 66.9 |
| 273 | 0      | 8.15    |   |      |      | 157.0  |   |      |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
As (Arsenic)  $\mu\text{g/L}$



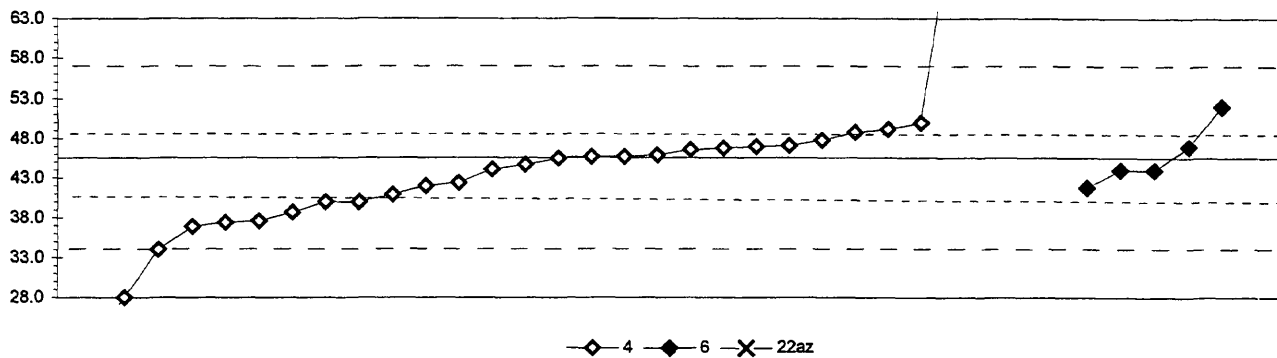
|                         |                                     |       |       |       |
|-------------------------|-------------------------------------|-------|-------|-------|
| 3. AA: graphite furnace | 11na. AA: hydride NaBH <sub>4</sub> |       |       |       |
| 4. ICP                  |                                     |       |       |       |
| 6. ICP/MS               |                                     |       |       |       |
| N =                     | 32                                  | 10    | 15    | 9     |
| Minimum =               | 6.90                                | 6.10  | 9.14  | 9.00  |
| Maximum =               | 12.80                               | 42.70 | 11.20 | 10.00 |
| Median =                | 9.88                                | 11.50 | 9.95  | 9.44  |
| F-pseudosigma =         | 1.22                                | 3.34  | 0.66  | 0.41  |

MPV = 9.88  
F-pseudosigma = 1.04  
N = 66  
Hu = 10.60  
HI = 9.20

| Lab | Rating | Z-value | 3     | 4     | 6     | 11na  |
|-----|--------|---------|-------|-------|-------|-------|
| 1   | 4      | 0.02    | 9.90  |       |       |       |
| 3   | 4      | 0.12    |       | 10.00 |       |       |
| 4   | 0      | 3.01    |       | 13.00 |       |       |
| 5   | 4      | -0.02   | 9.86  |       |       |       |
| 7   | NR     |         |       | < 120 |       |       |
| 10  | 4      | 0.12    |       |       |       | 10.00 |
| 11  | 4      | 0.12    |       | 10.00 |       |       |
| 13  | 3      | 0.60    | 10.50 |       |       |       |
| 15  | NR     |         |       | < 100 |       |       |
| 16  | 4      | 0.50    |       |       | 10.40 |       |
| 18  | 3      | -0.66   | 9.20  |       |       |       |
| 23  | 0      | 2.81    | 12.80 |       |       |       |
| 26  | 4      | -0.25   |       |       |       | 9.62  |
| 30  | 3      | -0.85   |       | 9.00  |       |       |
| 32  | 4      | -0.11   |       |       | 9.77  |       |
| 34  | 4      | -0.27   |       |       |       | 9.60  |
| 36  | 1      | -1.81   | 8.00  |       |       |       |
| 42  | 2      | 1.08    |       | 11.00 |       |       |
| 46  | 3      | -0.75   | 9.10  |       |       |       |
| 48  | 4      | -0.08   | 9.80  |       |       |       |
| 58  | 1      | 2.04    | 12.00 |       |       |       |
| 59  | 4      | 0.12    |       |       | 10.00 |       |
| 68  | 0      | -2.87   | 6.90  |       |       |       |
| 69  | 4      | 0.31    | 10.20 |       |       |       |
| 70  | NR     |         | < 10  |       |       |       |
| 73  | 0      | 3.01    |       | 13.00 |       |       |
| 75  | 4      | -0.42   |       |       |       | 9.44  |
| 76  | 3      | 0.69    |       |       | 10.60 |       |
| 80  | 3      | 0.69    | 10.60 |       |       |       |
| 81  | 4      | 0.12    | 10.00 |       |       |       |
| 86  | 4      | 0.07    |       |       |       | 9.95  |
| 87  | 4      | -0.46   |       |       |       | 9.40  |
| 89  | 3      | -0.85   |       |       |       | 9.00  |
| 96  | 4      | -0.17   | 9.70  |       |       |       |
| 97  | 4      | 0.50    | 10.40 |       |       |       |
| 102 | 0      | -3.64   |       | 6.10  |       |       |
| 105 | 4      | 0.40    |       |       | 10.30 |       |
| 109 | 2      | -1.33   | 8.50  |       |       |       |
| 113 | 1      | 1.56    | 11.50 |       |       |       |
| 118 | 3      | 0.69    | 10.60 |       |       |       |
| 119 | 3      | -0.85   |       |       |       | 9.00  |
| 128 | 4      | 0.07    |       |       | 9.95  |       |
| 133 | 0      | -2.49   | 7.30  |       |       |       |
| 134 | 3      | -0.78   |       |       |       | 9.07  |
| 138 | 4      | -0.36   |       |       | 9.51  |       |
| 141 | 2      | -1.19   | 8.65  |       |       |       |
| 142 | 4      | -0.26   |       |       | 9.61  |       |
| 144 | 4      | -0.27   | 9.60  |       |       |       |
| 145 | 0      |         | 9.08  | 19.30 |       |       |
| 146 | 0      | 3.49    |       | 13.50 |       |       |

| Lab | Rating | Z-value | 3     | 4     | 6     | 11na |
|-----|--------|---------|-------|-------|-------|------|
| 151 | 3      | -0.57   |       |       | 9.29  |      |
| 190 | 2      | 1.27    | 11.20 |       |       |      |
| 191 | 2      | 1.27    |       |       | 11.20 |      |
| 193 | 1      | -1.81   | 8.00  |       |       |      |
| 196 | 4      | -0.03   |       |       | 9.85  |      |
| 204 | 2      | 1.46    | 11.40 |       |       |      |
| 212 | 4      | -0.27   |       |       | 9.60  |      |
| 213 | 2      | -1.23   | 8.60  |       |       |      |
| 215 | 2      | 1.08    | 11.00 |       |       |      |
| 217 | 3      | -0.71   |       |       | 9.14  |      |
| 220 | 4      | -0.37   | 9.50  |       |       |      |
| 221 | 3      | -0.55   | 9.31  |       |       |      |
| 224 | 1      | -1.72   |       | 8.10  |       |      |
| 234 | 3      | 0.98    | 10.90 |       |       |      |
| 236 | 0      | 31.62   |       | 42.70 |       |      |
| 241 | 0      | -2.39   | 7.40  |       |       |      |
| 249 | 2      | 1.08    | 11.00 |       |       |      |
| 255 | 4      | 0.12    | 10.00 |       |       |      |
| 265 | 2      | 1.08    |       |       | 11.00 |      |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
B (Boron)  $\mu\text{g/L}$

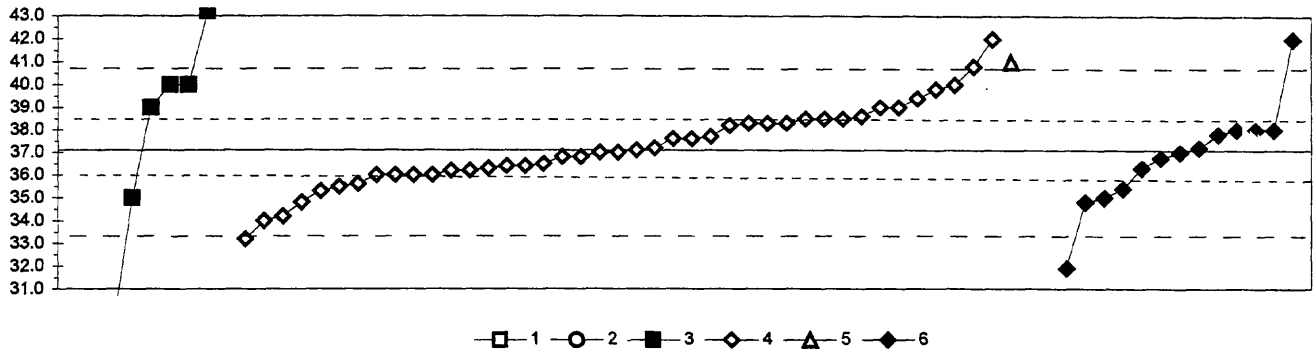


|                         |                 |       |      |
|-------------------------|-----------------|-------|------|
| 4. ICP                  |                 |       |      |
| 6. ICP/MS               |                 |       |      |
| 22az. Color: azomethine |                 |       |      |
|                         | N =             | 30    | 5    |
|                         | Minimum =       | 22.4  | 41.8 |
|                         | Maximum =       | 150.0 | 52.0 |
|                         | Median =        | 45.6  |      |
|                         | F-pseudosigma = | 5.8   |      |

MPV = 45.6  
F-pseudosigma = 5.8  
N = 36  
Hu = 48.3  
Hi = 40.5

| Lab | Rating | Z-value | 4     | 6     | 22az |
|-----|--------|---------|-------|-------|------|
| 1   | 4      | 0.02    | 45.7  |       |      |
| 3   | 3      | -0.96   | 40.0  |       |      |
| 5   | 3      | 0.62    | 49.2  |       |      |
| 11  | 3      | 0.76    | 50.0  |       |      |
| 15  | NR     |         | < 50  |       |      |
| 16  | 0      | 5.40    | 77.0  |       |      |
| 18  | NR     |         | < 50  |       |      |
| 24  | 2      | -1.50   | 36.9  |       |      |
| 26  | 2      | -1.37   | 37.6  |       |      |
| 28  | 4      | -0.02   | 45.5  |       |      |
| 42  | 4      | 0.24    |       | 47.0  |      |
| 46  | 0      | -3.99   | 22.4  |       |      |
| 48  | NR     |         | < 100 |       |      |
| 68  | 0      | 13.64   | 125.0 |       |      |
| 70  | NR     |         | < 50  |       |      |
| 85  | 3      | -0.55   | 42.4  |       |      |
| 86  | 4      | 0.02    | 45.7  |       |      |
| 119 | 3      | -0.62   | 42.0  |       |      |
| 128 | 3      | -0.81   | 40.9  |       |      |
| 129 | 0      | 13.64   |       | 125.0 |      |
| 132 | 0      | -3.02   | 28.0  |       |      |
| 134 | 4      | 0.26    | 47.1  |       |      |
| 138 | 3      | -0.65   |       | 41.8  |      |
| 141 | 2      | -1.19   | 38.7  |       |      |
| 142 | 4      | 0.17    | 46.6  |       |      |
| 145 | 4      | -0.15   | 44.7  |       |      |
| 158 | 4      | 0.38    | 47.8  |       |      |
| 180 | 3      | 0.55    | 48.8  |       |      |
| 191 | 4      | -0.27   |       | 44.0  |      |
| 212 | 2      | 1.10    |       | 52.0  |      |
| 215 | 0      | 12.96   | 121.0 |       |      |
| 217 | 4      | 0.05    | 45.9  |       |      |
| 219 | 4      | 0.24    | 47.0  |       |      |
| 234 | 4      | -0.26   | 44.1  |       |      |
| 235 | 3      | -0.96   | 40.0  |       |      |
| 236 | 2      | -1.41   | 37.4  |       |      |
| 240 | 1      | -1.99   | 34.0  |       |      |
| 255 | 4      | 0.21    | 46.8  |       |      |
| 265 | 4      | -0.27   |       | 44.0  |      |
| 273 | 0      | 17.94   | 150.0 |       |      |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Ba (Barium)  $\mu\text{g/L}$

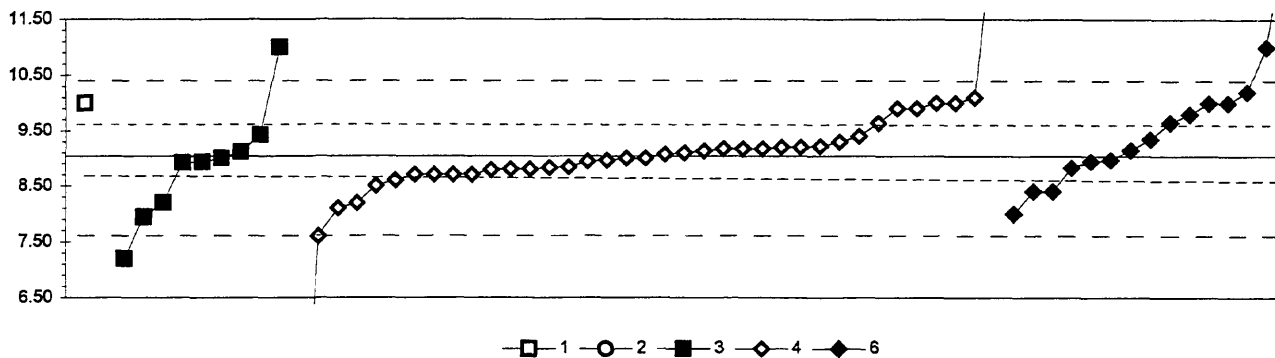


| 1. AA: direct air           |                 |         | 4. ICP    |       |      |      |      |      |
|-----------------------------|-----------------|---------|-----------|-------|------|------|------|------|
| 2. AA: direct nitrous oxide |                 |         | 5. DCP    |       |      |      |      |      |
| 3. AA: graphite furnace     |                 |         | 6. ICP/MS |       |      |      |      |      |
|                             | N =             |         |           |       |      |      |      |      |
|                             | Minimum =       | < 0.05  | < 100     | 29.2  | 31.0 | 41.0 | 31.9 |      |
|                             | Maximum =       |         |           | 44.5  | 42.0 |      | 42.0 |      |
|                             | Median =        |         |           | 40.0  | 37.0 |      | 37.0 |      |
|                             | F-pseudosigma = |         |           | 3.4   | 1.9  |      | 1.9  |      |
| Lab                         | Rating          | Z-value | 1         | 2     | 3    | 4    | 5    | 6    |
| 1                           | 4               | -0.19   |           |       |      |      |      | 36.8 |
| 3                           | 4               | -0.32   |           |       |      | 36.5 |      |      |
| 4                           | 4               | -0.05   |           |       |      | 37.0 |      |      |
| 5                           | 3               | -0.59   |           |       |      | 36.0 |      |      |
| 7                           | 3               | 0.76    |           |       |      | 38.5 |      |      |
| 11                          | 3               | -0.59   |           |       |      | 36.0 |      |      |
| 13                          | 2               | 1.46    |           |       |      | 39.8 |      |      |
| 15                          | 1               | -1.56   |           |       |      | 34.2 |      |      |
| 16                          | 4               | 0.49    |           |       |      |      |      | 38.0 |
| 18                          | 4               | -0.49   |           |       |      | 36.2 |      |      |
| 24                          | 2               | -1.24   |           |       |      | 34.8 |      |      |
| 25                          | 3               | 0.65    |           |       |      | 38.3 |      |      |
| 26                          | 4               | 0.27    |           |       |      | 37.6 |      |      |
| 28                          | 3               | 0.81    |           |       |      | 38.6 |      |      |
| 30                          | 3               | -0.59   |           |       |      | 36.0 |      |      |
| 32                          | 3               | -0.92   |           |       |      |      |      | 35.4 |
| 33                          | 0               | 2.10    |           |       |      |      | 41.0 |      |
| 36                          | 0               | -20.02  | < 0.05    |       |      |      |      |      |
| 40                          | 3               | -0.97   |           |       |      | 35.3 |      |      |
| 46                          | 4               | 0.27    |           |       |      | 37.6 |      |      |
| 48                          | 0               | 3.29    |           |       | 43.2 |      |      |      |
| 59                          | 4               | -0.05   |           |       |      |      |      | 37.0 |
| 68                          | 3               | 0.76    |           |       |      | 38.5 |      |      |
| 70                          | NR              |         |           |       |      | < 50 |      |      |
| 75                          | 4               | 0.05    |           |       |      | 37.2 |      |      |
| 81                          | 2               | -1.13   |           |       |      |      |      | 35.0 |
| 83                          | 3               | -0.86   |           |       |      | 35.5 |      |      |
| 85                          | 4               | 0.32    |           |       |      | 37.7 |      |      |
| 86                          | 4               | -0.16   |           |       |      | 36.8 |      |      |
| 87                          | 1               | 1.56    |           |       | 40.0 |      |      |      |
| 89                          | NR              |         |           |       | < 50 |      |      |      |
| 96                          | NR              |         |           | < 100 |      |      |      |      |
| 97                          | 0               | -4.26   |           |       | 29.2 |      |      |      |
| 102                         | 0               | 2.64    |           |       |      | 42.0 |      |      |
| 105                         | 2               | -1.24   |           |       |      |      |      | 34.8 |
| 107                         | 2               | 1.03    |           |       | 39.0 |      |      |      |
| 113                         | 4               | -0.05   |           |       |      | 37.0 |      |      |
| 119                         | 2               | 1.03    |           |       |      | 39.0 |      |      |
| 121                         | 3               | -0.59   |           |       |      | 36.0 |      |      |
| 128                         | 0               | -2.81   |           |       |      |      |      | 31.9 |
| 133                         | 4               | -0.38   |           |       |      | 36.4 |      |      |
| 134                         | 3               | -0.81   |           |       |      | 35.6 |      |      |
| 138                         | 4               | -0.38   |           |       |      | 36.4 |      |      |
| 141                         | 3               | 0.59    |           |       |      | 38.2 |      |      |
| 142                         | 4               | 0.05    |           |       |      |      |      | 37.2 |
| 145                         | 1               | 2.00    |           |       |      | 40.8 |      |      |
| 146                         | 3               | 0.76    |           |       |      | 38.5 |      |      |
| 149                         | 1               | 1.56    |           |       | 40.0 |      |      |      |
| 151                         | 4               | 0.38    |           |       |      |      |      | 37.8 |
| 158                         | 3               | 0.65    |           |       |      | 38.3 |      |      |

MPV = 37.1  
F-pseudosigma = 1.9  
N = 63  
Hu = 38.5  
Hi = 36.0

| Lab | Rating | Z-value | 1 | 2 | 3    | 4    | 5 | 6    |
|-----|--------|---------|---|---|------|------|---|------|
| 180 | 4      | -0.49   |   |   |      | 36.2 |   |      |
| 191 | 4      | 0.49    |   |   |      |      |   | 38.0 |
| 196 | 4      | -0.43   |   |   |      |      |   | 36.3 |
| 204 | 2      | 1.24    |   |   |      | 39.4 |   |      |
| 212 | 0      | 2.64    |   |   |      |      |   | 42.0 |
| 215 | 2      | 1.03    |   |   |      | 39.0 |   |      |
| 217 | 4      | 0.00    |   |   |      | 37.1 |   |      |
| 219 | 1      | -1.67   |   |   |      | 34.0 |   |      |
| 224 | 0      | -2.10   |   |   |      | 33.2 |   |      |
| 234 | 3      | 0.65    |   |   |      | 38.3 |   |      |
| 235 | 1      | 1.56    |   |   |      | 40.0 |   |      |
| 236 | 4      | -0.43   |   |   |      | 36.3 |   |      |
| 240 | 0      | -3.29   |   |   |      | 31.0 |   |      |
| 241 | 0      | 3.99    |   |   | 44.5 |      |   |      |
| 255 | 4      | -0.16   |   |   |      | 36.8 |   |      |
| 259 | 2      | -1.13   |   |   | 35.0 |      |   |      |
| 265 | 4      | 0.49    |   |   |      |      |   | 38.0 |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Be (Beryllium)  $\mu\text{g/L}$



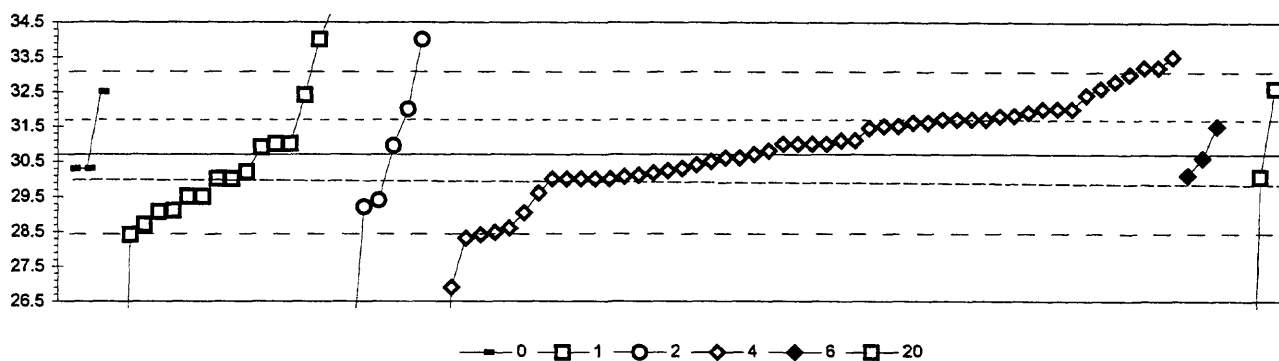
|                             |                           |
|-----------------------------|---------------------------|
| 1. AA: direct air           | 4. ICP                    |
| 2. AA: direct nitrous oxide | 6. ICP/MS                 |
| 3. AA: graphite furnace     | 0. Other                  |
| N =                         | 1 0 9 37 15               |
| Minimum =                   | 10.00 < 10 7.20 2.30 8.00 |
| Maximum =                   | 11.00 13.20 13.00         |
| Median =                    | 8.93 9.00 9.35            |
| F-pseudosigma =             | 0.68 0.39 0.83            |

MPV = 9.04  
F-pseudosigma = 0.70  
N = 62  
Hu = 9.64  
Hi = 8.70

| Lab | Rating | Z-value | 1      | 2    | 3     | 4     | 6     |
|-----|--------|---------|--------|------|-------|-------|-------|
| 1   | 4      | -0.14   |        |      |       |       | 8.94  |
| 3   | 4      | 0.24    |        |      |       | 9.20  |       |
| 5   | 4      | -0.28   |        |      |       | 8.84  |       |
| 7   | 4      | -0.48   |        |      |       | 8.70  |       |
| 11  | 4      | -0.05   |        |      |       | 9.00  |       |
| 13  | 4      | 0.19    |        |      |       | 9.17  |       |
| 15  | 4      | -0.48   |        |      |       | 8.70  |       |
| 16  | 3      | -0.91   |        |      |       |       | 8.40  |
| 18  | 4      | 0.24    |        |      |       | 9.20  |       |
| 25  | 2      | -1.34   |        |      |       | 8.10  |       |
| 26  | 4      | 0.19    |        |      |       | 9.17  |       |
| 30  | 0      | -2.06   |        |      |       | 7.60  |       |
| 32  | 3      | 0.88    |        |      |       |       | 9.65  |
| 36  | 0      | 2.82    |        |      | 11.00 |       |       |
| 40  | 0      | -9.67   |        |      |       | 2.30  |       |
| 42  | 0      | 5.69    |        |      |       |       | 13.00 |
| 46  | 4      | -0.11   |        |      |       | 8.96  |       |
| 48  | 2      | 1.38    |        |      |       | 10.00 |       |
| 59  | 2      | 1.10    |        |      |       |       | 9.80  |
| 68  | 4      | 0.38    |        |      |       | 9.30  |       |
| 69  | 1      | -1.57   |        |      | 7.94  |       |       |
| 70  | 4      | 0.19    |        |      |       | 9.17  |       |
| 75  | 4      | 0.09    |        |      |       | 9.10  |       |
| 76  | 1      | 1.67    |        |      |       |       | 10.20 |
| 81  | 2      | -1.49   |        |      |       |       | 8.00  |
| 83  | 4      | -0.34   |        |      |       | 8.80  |       |
| 85  | 3      | 0.87    |        |      |       | 9.64  |       |
| 86  | 4      | -0.35   |        |      |       | 8.79  |       |
| 89  | 2      | -1.20   |        |      | 8.20  |       |       |
| 96  | 2      | 1.38    | 10.00  |      |       |       |       |
| 97  | 3      | 0.57    |        |      | 9.43  |       |       |
| 102 | 4      | -0.34   |        |      |       | 8.80  |       |
| 105 | 2      | 1.38    |        |      |       |       | 10.00 |
| 113 | 1      | 1.53    |        |      |       | 10.10 |       |
| 114 | NR     |         |        | < 10 |       |       |       |
| 119 | 4      | -0.17   |        |      | 8.92  |       |       |
| 121 | 2      | 1.38    |        |      |       | 10.00 |       |
| 128 | 3      | -0.91   |        |      |       |       | 8.40  |
| 133 | 3      | 0.52    |        |      |       | 9.40  |       |
| 134 | 4      | 0.14    |        |      |       | 9.13  |       |
| 138 | 4      | 0.27    |        |      |       | 9.22  |       |
| 141 | 4      | 0.05    |        |      |       | 9.07  |       |
| 142 | 4      | 0.45    |        |      |       |       | 9.35  |
| 144 | 0      | -12.96  | < 0.01 |      |       |       |       |
| 145 | 2      | 1.24    |        |      |       | 9.90  |       |
| 146 | 2      | -1.21   |        |      |       | 8.19  |       |
| 151 | 4      | -0.09   |        |      |       |       | 8.97  |
| 158 | 2      | 1.24    |        |      |       | 9.90  |       |
| 180 | 4      | -0.48   |        |      |       | 8.70  |       |
| 191 | 2      | 1.38    |        |      |       |       | 10.00 |

| Lab | Rating | Z-value | 1 | 2 | 3    | 4     | 6     |
|-----|--------|---------|---|---|------|-------|-------|
| 193 | 4      | -0.05   |   |   | 9.00 |       |       |
| 196 | 4      | -0.29   |   |   |      |       | 8.83  |
| 212 | 0      | 2.82    |   |   |      |       | 11.00 |
| 213 | 4      | 0.12    |   |   | 9.12 |       |       |
| 215 | 4      | -0.48   |   |   |      | 8.70  |       |
| 217 | 3      | -0.62   |   |   |      | 8.60  |       |
| 224 | 0      | 5.98    |   |   |      | 13.20 |       |
| 234 | 4      | -0.14   |   |   |      | 8.94  |       |
| 235 | 4      | -0.05   |   |   |      | 9.00  |       |
| 236 | 3      | -0.77   |   |   |      | 8.50  |       |
| 241 | 0      | -2.63   |   |   | 7.20 |       |       |
| 245 | 4      | -0.15   |   |   | 8.93 |       |       |
| 255 | 4      | -0.29   |   |   |      | 8.83  |       |
| 265 | 4      | 0.17    |   |   |      |       | 9.15  |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Ca (Calcium) mg/L



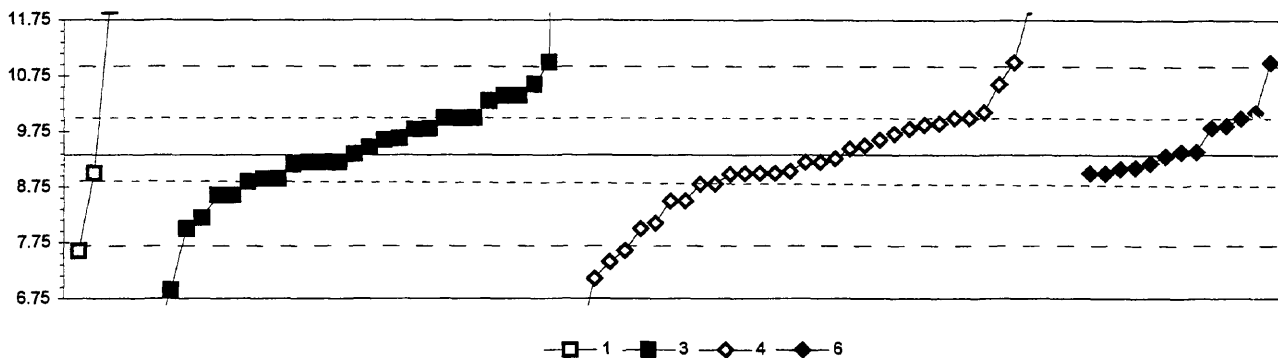
|                             |                               |
|-----------------------------|-------------------------------|
| 0. Other                    | 4. ICP                        |
| 1. AA: direct air           | 6. ICP/MS                     |
| 2. AA: direct nitrous oxide | 20. Titrate: colorimetric     |
| N =                         | 3 16 6 52 3 4                 |
| Minimum =                   | 30.3 12.4 24.0 12.1 30.1 0.0  |
| Maximum =                   | 32.5 35.0 34.0 33.5 31.5 32.6 |
| Median =                    | 30.0 31.0                     |
| F-pseudostigma =            | 1.4 1.3                       |

MPV = 30.7  
F-pseudostigma = 1.3  
N = 84  
Hu = 31.7  
HI = 30.0

| Lab | Rating | Z-value | 0    | 1    | 2    | 4    | 6    | 20 |
|-----|--------|---------|------|------|------|------|------|----|
| 1   | 2      | -1.32   |      |      |      | 29.0 |      |    |
| 3   | 4      | 0.32    |      |      |      | 31.1 |      |    |
| 4   | 4      | -0.16   |      |      |      | 30.5 |      |    |
| 5   | 1      | -1.90   |      |      |      | 28.3 |      |    |
| 7   | 3      | 0.88    |      |      |      | 31.8 |      |    |
| 11  | 3      | 0.79    |      |      |      | 31.7 |      |    |
| 13  | 1      | 1.98    |      |      |      | 33.2 |      |    |
| 15  | 1      | -1.67   |      |      |      | 28.6 |      |    |
| 16  | 4      | -0.48   |      |      |      | 30.1 |      |    |
| 18  | 4      | -0.08   |      |      |      | 30.6 |      |    |
| 19  | 4      | 0.24    |      |      |      | 31.0 |      |    |
| 23  | 0      | -14.52  |      | 12.4 |      |      |      |    |
| 24  | 3      | -0.56   |      |      |      | 30.0 |      |    |
| 25  | 4      | 0.32    |      |      |      | 31.1 |      |    |
| 26  | 4      | -0.08   |      |      |      | 30.6 |      |    |
| 28  | 3      | 0.63    |      |      |      | 31.5 |      |    |
| 30  | 2      | 1.03    |      |      | 32.0 |      |      |    |
| 32  | 3      | 0.63    |      |      |      |      | 31.5 |    |
| 33  | 4      | -0.32   | 30.3 |      |      |      |      |    |
| 36  | 3      | -0.56   |      | 30.0 |      |      |      |    |
| 42  | 0      | -14.76  |      |      |      | 12.1 |      |    |
| 43  | 4      | 0.24    |      |      |      | 31.0 |      |    |
| 46  | 2      | 1.03    |      |      |      | 32.0 |      |    |
| 48  | 3      | 0.71    |      |      |      | 31.6 |      |    |
| 59  | 3      | -0.56   |      |      |      | 30.0 |      |    |
| 69  | 4      | -0.40   |      | 30.2 |      |      |      |    |
| 70  | 3      | 0.71    |      |      |      | 31.6 |      |    |
| 75  | 3      | -0.56   |      | 30.0 |      |      |      |    |
| 81  | 4      | -0.48   |      |      |      |      | 30.1 |    |
| 83  | 3      | -0.56   |      |      |      | 30.0 |      |    |
| 85  | 4      | 0.24    |      | 31.0 |      |      |      |    |
| 86  | 3      | 0.87    |      |      |      | 31.8 |      |    |
| 87  | 2      | -1.19   |      |      | 29.2 |      |      |    |
| 89  | 3      | -0.95   |      | 29.5 |      |      |      |    |
| 97  | 2      | -1.27   |      | 29.1 |      |      |      |    |
| 102 | 1      | 1.83    |      |      |      | 33.0 |      |    |
| 105 | 4      | -0.32   |      |      |      | 30.3 |      |    |
| 107 | 4      | 0.16    |      | 30.9 |      |      |      |    |
| 109 | 1      | -1.59   |      | 28.7 |      |      |      |    |
| 113 | 1      | 1.98    |      |      |      | 33.2 |      |    |
| 114 | 0      | -5.32   |      |      | 24.0 |      |      |    |
| 119 | 3      | 0.79    |      |      |      | 31.7 |      |    |
| 121 | 3      | -0.56   |      |      |      | 30.0 |      |    |
| 128 | 2      | 1.03    |      |      |      | 32.0 |      |    |
| 129 | 0      | 2.62    |      | 34.0 |      |      |      |    |
| 132 | 4      | 0.08    |      |      |      | 30.8 |      |    |
| 133 | 4      | -0.24   |      |      |      | 30.4 |      |    |
| 134 | 3      | 0.60    |      |      |      | 31.5 |      |    |
| 138 | 3      | 0.63    |      |      |      | 31.5 |      |    |
| 140 | 0      | 3.41    |      | 35.0 |      |      |      |    |

| Lab | Rating | Z-value | 0    | 1    | 2    | 4    | 6    | 20   |
|-----|--------|---------|------|------|------|------|------|------|
| 141 | 2      | 1.03    |      |      |      | 32.0 |      |      |
| 142 | 4      | -0.50   |      |      |      | 30.1 |      |      |
| 145 | 1      | 1.67    |      |      |      | 32.8 |      |      |
| 146 | 3      | -0.87   |      |      |      | 29.6 |      |      |
| 158 | 1      | 1.51    |      |      |      | 32.6 |      |      |
| 180 | 4      | 0.24    |      |      |      | 31.0 |      |      |
| 190 | 4      | -0.32   | 30.3 |      |      |      |      |      |
| 191 | 4      | -0.08   |      |      |      |      | 30.6 |      |
| 193 | 2      | -1.03   |      |      | 29.4 |      |      |      |
| 203 | 2      | -1.29   |      | 29.1 |      |      |      |      |
| 204 | 3      | 0.79    |      |      |      | 31.7 |      |      |
| 212 | 3      | 0.95    |      |      |      | 31.9 |      |      |
| 215 | 3      | 0.79    |      |      |      | 31.7 |      |      |
| 217 | 0      | -3.02   |      |      |      | 26.9 |      |      |
| 218 | 4      | 0.20    |      |      | 31.0 |      |      |      |
| 219 | 3      | -0.56   |      |      |      | 30.0 |      |      |
| 220 | 4      | 0.24    |      | 31.0 |      |      |      |      |
| 221 | 2      | 1.35    |      | 32.4 |      |      |      |      |
| 224 | 1      | -1.77   |      |      |      | 28.5 |      |      |
| 234 | 4      | 0.24    |      |      |      | 31.0 |      |      |
| 235 | 0      | 2.22    |      |      |      | 33.5 |      |      |
| 236 | 4      | -0.37   |      |      |      | 30.2 |      |      |
| 240 | 1      | -1.83   |      |      |      | 28.4 |      |      |
| 241 | 1      | -1.83   |      | 28.4 |      |      |      |      |
| 255 | 4      | -0.42   |      |      |      | 30.2 |      |      |
| 257 | 0      | 2.62    |      |      | 34.0 |      |      |      |
| 261 | 3      | -0.51   |      |      |      |      | 30.1 |      |
| 265 | 4      | 0.00    |      |      |      | 30.7 |      |      |
| 268 | 2      | -0.92   |      | 29.5 |      |      |      |      |
| 270 | 2      | 1.43    | 32.5 |      |      |      |      |      |
| 271 | 1      | 1.51    |      |      |      |      |      | 32.6 |
| 272 | 0      | -13.23  |      |      |      |      |      | 14.0 |
| 273 | 2      | 1.35    |      |      |      | 32.4 |      |      |
| 274 | NR     | -24.36  |      |      |      |      |      | 0.0  |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Cd (Cadmium)  $\mu\text{g/L}$



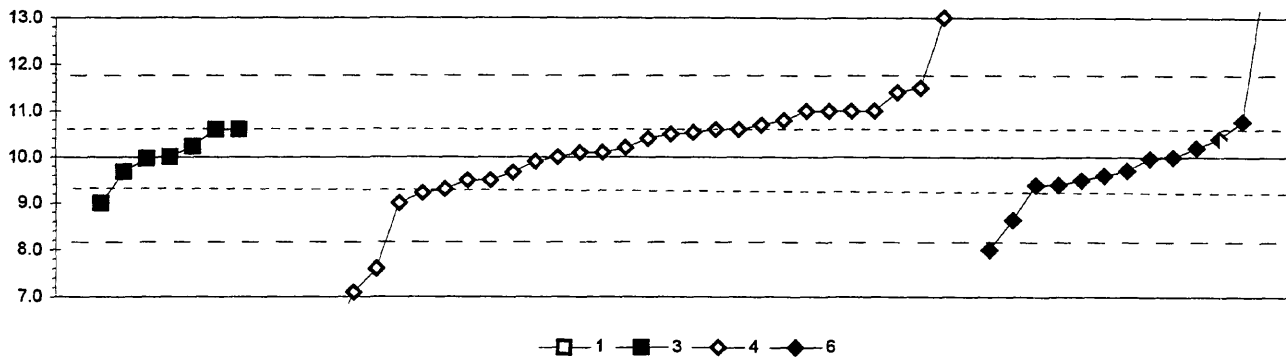
|                         |                                   |
|-------------------------|-----------------------------------|
| 1. AA: direct air       | 6. ICP/MS                         |
| 3. AA: graphite furnace |                                   |
| 4. ICP                  |                                   |
|                         | N = 4 29 34 13                    |
|                         | Minimum = 7.60 4.60 5.90 9.00     |
|                         | Maximum = 16.00 37.00 17.20 11.00 |
|                         | Median = 9.35 9.23 9.39           |
|                         | F-pseudostigma = 0.86 0.89 0.56   |

MPV = 9.33  
F-pseudostigma = 0.82  
N = 80  
Hu = 10.00  
Hi = 8.90

| Lab | Rating | Z-value | 1    | 3     | 4     | 6     |
|-----|--------|---------|------|-------|-------|-------|
| 1   | 3      | 0.56    |      | 9.79  |       |       |
| 3   | 3      | 0.94    |      |       | 10.10 |       |
| 4   | 4      | 0.21    |      |       | 9.50  |       |
| 5   | 3      | -0.53   |      | 8.90  |       |       |
| 7   | 0      | 4.50    |      |       | 13.00 |       |
| 11  | 4      | -0.40   |      |       | 9.00  |       |
| 13  | 4      | 0.13    |      |       | 9.44  |       |
| 15  | 0      | 9.65    |      |       | 17.20 |       |
| 16  | 4      | -0.28   |      |       |       | 9.10  |
| 18  | 4      | -0.16   |      |       | 9.20  |       |
| 23  | 4      | -0.21   |      | 9.16  |       |       |
| 24  | 0      | -2.12   |      |       | 7.60  |       |
| 26  | 2      | 1.31    |      | 10.40 |       |       |
| 28  | 1      | -1.51   |      |       | 8.10  |       |
| 30  | 4      | 0.33    |      |       | 9.60  |       |
| 32  | 4      | -0.18   |      |       |       | 9.18  |
| 36  | 3      | -0.90   |      | 8.60  |       |       |
| 40  | 2      | -1.02   |      |       | 8.50  |       |
| 42  | 4      | -0.40   |      |       |       | 9.00  |
| 46  | 3      | -0.60   |      | 8.84  |       |       |
| 48  | 4      | -0.16   |      | 9.20  |       |       |
| 58  | 0      | 33.93   |      | 37.00 |       |       |
| 59  | 4      | -0.40   |      |       |       | 9.00  |
| 68  | 3      | 0.82    |      |       | 10.00 |       |
| 69  | 2      | 1.31    |      | 10.40 |       |       |
| 70  | 3      | -0.90   |      | 8.60  |       |       |
| 73  | 4      | -0.40   |      |       | 9.00  |       |
| 75  | 4      | -0.42   |      |       | 8.99  |       |
| 80  | NR     |         | < 10 |       |       |       |
| 81  | 3      | 0.82    |      | 10.00 |       |       |
| 83  | 3      | -0.65   |      |       | 8.80  |       |
| 85  | 0      | -2.12   |      | 7.60  |       |       |
| 86  | 4      | -0.16   |      |       | 9.20  |       |
| 87  | 0      | 3.27    |      | 12.00 |       |       |
| 89  | 4      | 0.16    |      |       | 9.46  |       |
| 96  | 3      | -0.53   |      | 8.90  |       |       |
| 97  | 4      | -0.16   |      | 9.20  |       |       |
| 102 | 3      | 0.70    |      |       | 9.90  |       |
| 105 | 3      | 0.65    |      |       |       | 9.86  |
| 113 | 4      | 0.47    |      |       | 9.71  |       |
| 114 | NR     |         | < 10 |       |       |       |
| 118 | 1      | 1.56    |      | 10.60 |       |       |
| 119 | 4      | -0.16   |      | 9.20  |       |       |
| 121 | 1      | -1.63   |      |       | 8.00  |       |
| 128 | 3      | 0.94    |      |       |       | 10.10 |
| 132 | 2      | -1.02   |      |       | 8.50  |       |
| 133 | 1      | 1.56    |      |       | 10.60 |       |
| 134 | 4      | -0.09   |      |       | 9.26  |       |
| 138 | 4      | -0.31   |      |       |       | 9.08  |
| 140 | 4      | -0.40   |      | 9.00  |       |       |

| Lab | Rating | Z-value | 1     | 3     | 4     | 6     |
|-----|--------|---------|-------|-------|-------|-------|
| 141 | 4      | -0.43   |       |       | 8.98  |       |
| 142 | 3      | 0.60    |       |       |       | 9.82  |
| 145 | 1      | 2.05    |       |       | 11.00 |       |
| 146 | 4      | -0.37   |       |       | 9.03  |       |
| 149 | 3      | 0.82    |       | 10.00 |       |       |
| 151 | 4      | 0.07    |       |       |       | 9.39  |
| 158 | 0      | -5.80   |       | 4.60  |       |       |
| 180 | 3      | 0.82    |       |       | 10.00 |       |
| 190 | 2      | 1.19    |       | 10.30 |       |       |
| 191 | 4      | -0.02   |       |       |       | 9.31  |
| 193 | 1      | 2.05    |       | 11.00 |       |       |
| 196 | 4      | 0.07    |       |       |       | 9.39  |
| 212 | 1      | 2.05    |       |       |       | 11.00 |
| 213 | 2      | -1.40   |       | 8.19  |       |       |
| 215 | 3      | 0.82    |       | 10.00 |       |       |
| 217 | 0      | -2.73   |       |       | 7.10  |       |
| 219 | 3      | -0.65   |       |       | 8.80  |       |
| 221 | 4      | 0.37    |       | 9.63  |       |       |
| 224 | 0      | -4.21   |       |       | 5.90  |       |
| 234 | 4      | 0.33    |       | 9.60  |       |       |
| 235 | 3      | 0.58    |       |       | 9.80  |       |
| 236 | 0      | -2.37   |       |       | 7.40  |       |
| 240 | 0      | 3.27    |       |       | 12.00 |       |
| 241 | 3      | 0.58    |       | 9.80  |       |       |
| 245 | 4      | 0.02    |       | 9.35  |       |       |
| 249 | 1      | -1.63   |       | 8.00  |       |       |
| 255 | 3      | 0.66    |       |       | 9.87  |       |
| 257 | 0      | 8.18    | 16.00 |       |       |       |
| 259 | 0      | -4.08   |       | 6.00  |       |       |
| 265 | 3      | 0.82    |       |       |       | 10.00 |
| 273 | 0      | 9.65    |       |       | 17.20 |       |
| 274 | 0      | -2.98   |       | 6.90  |       |       |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Co (Cobalt)  $\mu\text{g/L}$



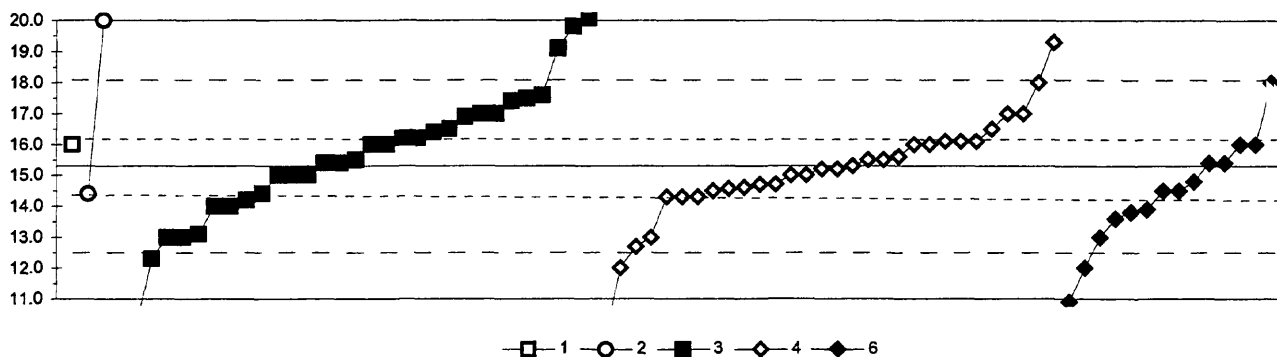
|                         |                  |
|-------------------------|------------------|
| 1. AA: direct air       | 6. ICP/MS        |
| 3. AA: graphite furnace | 0. Other         |
| 4. ICP                  | 0. Other         |
| N =                     | 1 7 32 13        |
| Minimum =               | 19.0 9.0 4.8 8.0 |
| Maximum =               | 10.6 14.6 14.0   |
| Median =                | 10.0 10.2 9.7    |
| F-pseudosigma =         | 0.4 1.2 0.6      |

MPV = 10.0  
F-pseudosigma = 0.9  
N = 53  
Hu = 10.6  
Hi = 9.4

| Lab | Rating | Z-value | 1 | 3    | 4    | 6    |
|-----|--------|---------|---|------|------|------|
| 1   | 4      | -0.03   |   |      |      | 10.0 |
| 3   | 0      | -4.50   |   |      | 6.0  |      |
| 4   | 3      | 0.67    |   |      | 10.6 |      |
| 5   | 4      | 0.11    |   |      | 10.1 |      |
| 7   | 1      | 1.57    |   |      | 11.4 |      |
| 11  | 2      | 1.12    |   |      | 11.0 |      |
| 13  | 0      | -2.70   |   |      | 7.6  |      |
| 15  | NR     |         |   |      | < 20 |      |
| 16  | 4      | 0.45    |   |      |      | 10.4 |
| 18  | 4      | -0.11   |   |      | 9.9  |      |
| 24  | 0      | -5.85   |   |      | 4.8  |      |
| 26  | 4      | 0.45    |   |      | 10.4 |      |
| 30  | 4      | 0.22    |   |      | 10.2 |      |
| 32  | 4      | 0.22    |   |      |      | 10.2 |
| 40  | 0      | -3.26   |   |      | 7.1  |      |
| 42  | 0      | 4.50    |   |      |      | 14.0 |
| 46  | 3      | 0.79    |   |      | 10.7 |      |
| 48  | NR     |         |   |      | < 50 |      |
| 68  | 1      | 1.69    |   |      | 11.5 |      |
| 70  | NR     |         |   |      | < 50 |      |
| 75  | 3      | 0.90    |   |      | 10.8 |      |
| 81  | 0      | -2.25   |   |      |      | 8.0  |
| 86  | 3      | 0.56    |   |      | 10.5 |      |
| 89  | 4      | -0.03   |   | 10.0 |      |      |
| 97  | 4      | -0.36   |   | 9.7  |      |      |
| 102 | 2      | 1.12    |   |      | 11.0 |      |
| 105 | 4      | -0.45   |   |      |      | 9.6  |
| 119 | 3      | -0.69   |   |      |      | 9.4  |
| 121 | 4      | 0.00    |   |      | 10.0 |      |
| 128 | 2      | 1.12    |   |      | 11.0 |      |
| 132 | 3      | -0.56   |   |      | 9.5  |      |
| 134 | 4      | 0.26    |   | 10.2 |      |      |
| 138 | 1      | -1.53   |   |      |      | 8.6  |
| 141 | NR     |         |   |      | < 10 |      |
| 142 | 4      | -0.33   |   |      |      | 9.7  |
| 145 | 0      | 5.17    |   |      | 14.6 |      |
| 146 | 3      | -0.88   |   |      | 9.2  |      |
| 158 | 3      | 0.67    |   |      | 10.6 |      |
| 180 | 4      | -0.37   |   |      | 9.7  |      |
| 191 | 3      | 0.87    |   |      |      | 10.8 |
| 196 | 3      | -0.67   |   |      |      | 9.4  |
| 212 | 4      | 0.00    |   |      |      | 10.0 |
| 213 | 3      | 0.67    |   | 10.6 |      |      |
| 215 | 2      | -1.12   |   |      | 9.0  |      |
| 217 | 3      | -0.56   |   |      | 9.5  |      |
| 219 | 3      | -0.79   |   |      | 9.3  |      |
| 221 | 4      | 0.00    |   | 10.0 |      |      |
| 224 | 4      | 0.11    |   |      | 10.1 |      |
| 234 | 3      | 0.67    |   | 10.6 |      |      |
| 235 | 0      | 3.37    |   |      | 13.0 |      |

| Lab | Rating | Z-value | 1    | 3   | 4    | 6   |
|-----|--------|---------|------|-----|------|-----|
| 236 | 0      | -4.95   |      |     | 5.6  |     |
| 240 | 0      | -4.72   |      |     | 5.8  |     |
| 255 | 3      | 0.60    |      |     | 10.5 |     |
| 257 | 0      | 10.12   | 19.0 |     |      |     |
| 259 | 2      | -1.12   |      | 9.0 |      |     |
| 265 | 3      | -0.56   |      |     |      | 9.5 |
| 273 | 2      | 1.12    |      |     | 11.0 |     |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Cr (Chromium)  $\mu\text{g/L}$

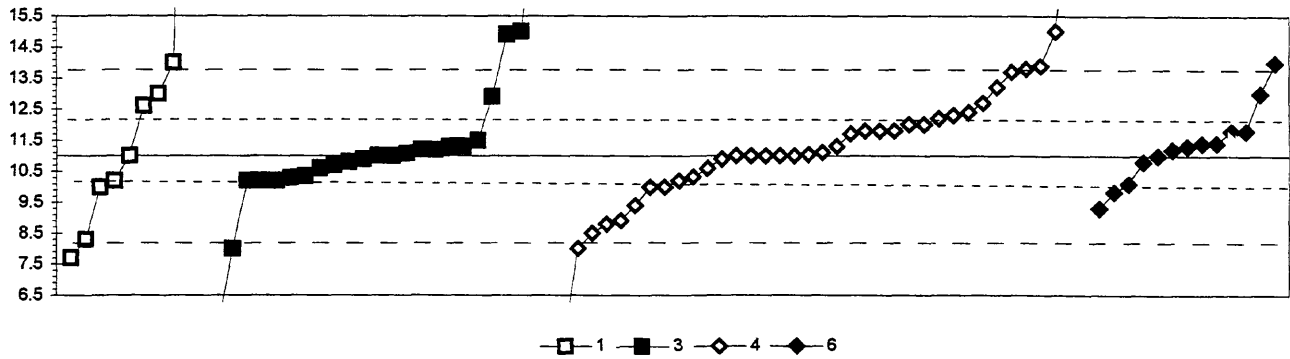


|                             |           |      |      |      |      |
|-----------------------------|-----------|------|------|------|------|
| 1. AA: direct air           | 4. ICP    |      |      |      |      |
| 2. AA: direct nitrous oxide | 6. ICP/MS |      |      |      |      |
| 3. AA: graphite furnace     |           |      |      |      |      |
| N =                         | 1         | 3    | 30   | 30   | 14   |
| Minimum =                   | 16.0      | 14.4 | 10.0 | 9.5  | 10.9 |
| Maximum =                   |           | 30.0 | 20.1 | 19.3 | 18.0 |
| Median =                    |           |      | 15.8 | 15.2 | 14.5 |
| F-pseudosigma =             |           |      | 2.1  | 1.2  | 1.3  |

MPV = 15.3  
F-pseudosigma = 1.4  
N = 78  
Hu = 16.2  
HI = 14.3

| Lab | Rating | Z-value | 1    | 2    | 3    | 4    | 6    |
|-----|--------|---------|------|------|------|------|------|
| 1   | 4      | 0.14    |      |      | 15.5 |      |      |
| 3   | 2      | 1.21    |      |      |      | 17.0 |      |
| 4   | 4      | -0.21   |      |      |      | 15.0 |      |
| 5   | 4      | 0.14    |      |      |      | 15.5 |      |
| 7   | 1      | 1.92    |      |      |      | 18.0 |      |
| 10  | 4      | 0.50    |      |      | 16.0 |      |      |
| 11  | 4      | -0.21   |      |      |      | 15.0 |      |
| 13  | 3      | 0.57    |      |      |      | 16.1 |      |
| 15  | 3      | 0.57    |      |      |      | 16.1 |      |
| 16  | 2      | -1.07   |      |      |      |      | 13.8 |
| 18  | 3      | -0.71   |      |      |      | 14.3 |      |
| 23  | 0      | -2.13   |      |      | 12.3 |      |      |
| 26  | 4      | 0.07    |      |      | 15.4 |      |      |
| 30  | 3      | -0.71   |      |      |      | 14.3 |      |
| 32  | 3      | -0.57   |      |      |      |      | 14.5 |
| 36  | 0      | -3.76   |      |      | 10.0 |      |      |
| 40  | 0      | -4.12   |      |      |      | 9.5  |      |
| 42  | 1      | 1.92    |      |      |      |      | 18.0 |
| 46  | 3      | 0.78    |      |      | 16.4 |      |      |
| 48  | 2      | 1.49    |      |      | 17.4 |      |      |
| 58  | 2      | 1.21    |      |      | 17.0 |      |      |
| 59  | 4      | 0.50    |      |      |      |      | 16.0 |
| 68  | 3      | 0.85    |      |      |      | 16.5 |      |
| 69  | 3      | -0.78   |      |      | 14.2 |      |      |
| 70  | 4      | -0.07   |      |      |      | 15.2 |      |
| 73  | 4      | 0.50    |      |      |      | 16.0 |      |
| 75  | 3      | 0.57    |      |      |      | 16.1 |      |
| 76  | 4      | -0.36   |      |      |      |      | 14.8 |
| 81  | 4      | 0.50    |      |      | 16.0 |      |      |
| 83  | 4      | -0.07   |      |      |      | 15.2 |      |
| 85  | NR     |         |      |      |      | < 10 |      |
| 86  | 4      | -0.43   |      |      |      | 14.7 |      |
| 87  | 3      | -0.64   |      |      | 14.4 |      |      |
| 89  | 1      | 1.56    |      |      |      | 17.5 |      |
| 96  | 3      | 0.64    |      |      |      | 16.2 |      |
| 97  | 3      | 0.64    |      |      |      | 16.2 |      |
| 102 | 4      | 0.50    |      |      |      | 16.0 |      |
| 105 | 4      | 0.07    |      |      |      |      | 15.4 |
| 113 | 4      | 0.21    |      |      |      | 15.6 |      |
| 114 | 0      | 3.34    |      |      | 20.0 |      |      |
| 118 | 3      | 0.85    |      |      | 16.5 |      |      |
| 119 | 1      | -1.63   |      |      | 13.0 |      |      |
| 128 | 1      | -1.63   |      |      |      |      | 13.0 |
| 132 | 4      | 0.14    |      |      |      | 15.5 |      |
| 133 | 4      | 0.00    |      |      |      | 15.3 |      |
| 134 | 4      | -0.49   |      |      |      | 14.6 |      |
| 138 | 0      | -3.12   |      |      |      |      | 10.9 |
| 140 | 4      | 0.50    | 16.0 |      |      |      |      |
| 141 | 0      | -2.34   |      |      |      | 12.0 |      |
| 142 | 3      | -0.99   |      |      |      |      | 13.9 |
| 145 | 0      | 2.84    |      |      |      |      | 19.3 |
| 146 | 3      | -0.57   |      |      |      |      | 14.5 |
| 149 | 2      | 1.21    |      |      | 17.0 |      |      |
| 151 | 3      | -0.57   |      |      |      |      | 14.5 |
| 158 | 1      | -1.56   |      |      | 13.1 |      |      |
| 180 | 3      | -0.71   |      |      |      |      | 14.3 |
| 190 | 0      | 2.70    |      |      | 19.1 |      |      |
| 191 | 4      | 0.07    |      |      |      |      | 15.4 |
| 193 | 4      | -0.21   |      |      | 15.0 |      |      |
| 196 | 2      | -1.21   |      |      |      |      | 13.6 |
| 204 | 0      | 3.20    |      |      | 19.8 |      |      |
| 212 | 0      | -2.34   |      |      |      |      | 12.0 |
| 213 | 4      | 0.07    |      |      | 15.4 |      |      |
| 215 | 3      | -0.92   |      |      | 14.0 |      |      |
| 217 | 1      | -1.85   |      |      |      |      | 12.7 |
| 219 | 1      | -1.63   |      |      |      |      | 13.0 |
| 221 | 4      | -0.21   |      |      | 15.0 |      |      |
| 234 | 2      | 1.14    |      |      | 16.9 |      |      |
| 235 | 4      | -0.21   |      |      | 15.0 |      |      |
| 236 | 4      | -0.43   |      |      |      |      | 14.7 |
| 241 | 3      | -0.64   |      |      | 14.4 |      |      |
| 245 | 1      | -1.63   |      |      | 13.0 |      |      |
| 249 | 1      | 1.63    |      |      | 17.6 |      |      |
| 253 | 0      | 3.39    |      |      | 20.1 |      |      |
| 255 | 3      | -0.52   |      |      |      |      | 14.6 |
| 257 | 0      | 10.44   |      | 30.0 |      |      |      |
| 259 | 3      | -0.92   |      |      | 14.0 |      |      |
| 265 | 4      | 0.50    |      |      |      |      | 16.0 |
| 273 | 2      | 1.21    |      |      |      |      | 17.0 |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Cu (Copper)  $\mu\text{g/L}$



|                         |      |           |      |      |  |
|-------------------------|------|-----------|------|------|--|
| 1. AA: direct air       |      | 6. ICP/MS |      |      |  |
| 3. AA: graphite furnace |      |           |      |      |  |
| 4. ICP                  |      |           |      |      |  |
| N =                     | 9    | 24        | 38   | 13   |  |
| Minimum =               | 7.7  | 2.6       | 4.6  | 9.3  |  |
| Maximum =               | 30.0 | 19.0      | 29.0 | 14.0 |  |
| Median =                | 11.0 | 11.0      | 11.1 | 11.3 |  |
| F-pseudosigma =         | 2.2  | 0.8       | 1.6  | 0.7  |  |

MPV = 11.0  
F-pseudosigma = 1.4  
N = 84  
Hu = 12.1  
Hi = 10.2

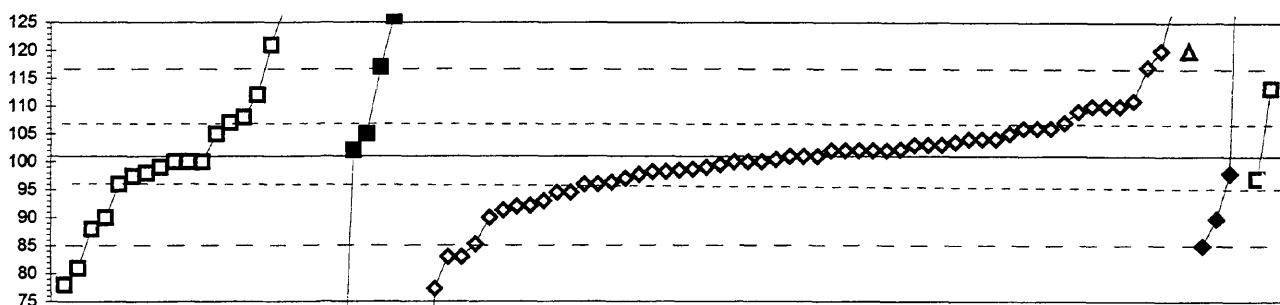
| Lab | Rating | Z-value | 1    | 3    | 4    | 6 |
|-----|--------|---------|------|------|------|---|
| 1   | 4      | 0.04    | 11.1 |      |      |   |
| 3   | 0      | -2.14   |      | 8.0  |      |   |
| 5   | 3      | 0.55    |      |      | 11.8 |   |
| 7   | 1      | 2.04    |      |      | 13.9 |   |
| 10  | 4      | -0.16   | 10.8 |      |      |   |
| 11  | 3      | 0.70    |      | 12.0 |      |   |
| 13  | 4      | 0.20    |      | 11.3 |      |   |
| 15  | 4      | 0.06    |      | 11.1 |      |   |
| 16  | 4      | 0.27    |      |      | 11.4 |   |
| 18  | 3      | 0.91    |      | 12.3 |      |   |
| 19  | 0      | -2.14   | 8.0  |      |      |   |
| 23  | 4      | 0.34    | 11.5 |      |      |   |
| 26  | 4      | 0.48    |      | 11.7 |      |   |
| 28  | 0      | -4.56   |      | 4.6  |      |   |
| 30  | 4      | -0.01   |      | 11.0 |      |   |
| 32  | 4      | 0.20    |      |      | 11.3 |   |
| 36  | 0      | 5.67    |      | 19.0 |      |   |
| 40  | 3      | -0.72   |      | 10.0 |      |   |
| 42  | 2      | 1.41    |      |      | 13.0 |   |
| 46  | 4      | 0.20    |      | 11.3 |      |   |
| 48  | 4      | 0.20    |      | 11.3 |      |   |
| 58  | NR     |         | < 50 |      |      |   |
| 59  | 4      | -0.16   |      |      | 10.8 |   |
| 68  | 0      | 2.83    |      | 15.0 |      |   |
| 69  | 3      | -0.58   | 10.2 |      |      |   |
| 70  | 3      | 0.55    |      | 11.8 |      |   |
| 73  | 4      | -0.01   |      | 11.0 |      |   |
| 75  | 3      | -0.58   |      | 10.2 |      |   |
| 80  | 4      | -0.23   | 10.7 |      |      |   |
| 81  | 4      | -0.01   | 11.0 |      |      |   |
| 83  | 3      | 0.55    |      | 11.8 |      |   |
| 85  | 2      | 1.12    | 12.6 |      |      |   |
| 86  | 4      | -0.09   |      | 10.9 |      |   |
| 87  | 1      | -1.93   | 8.3  |      |      |   |
| 89  | 3      | -0.58   | 10.2 |      |      |   |
| 96  | 2      | 1.33    |      | 12.9 |      |   |
| 97  | 3      | -0.58   |      | 10.2 |      |   |
| 102 | 4      | -0.01   |      | 11.0 |      |   |
| 105 | 4      | 0.27    |      |      | 11.4 |   |
| 107 | 3      | -0.58   | 10.2 |      |      |   |
| 113 | 3      | 0.84    |      | 12.2 |      |   |
| 114 | NR     |         | < 10 |      |      |   |
| 118 | 4      | -0.09   | 10.9 |      |      |   |
| 119 | 3      | -0.72   |      | 10.0 |      |   |
| 121 | 4      | -0.01   |      | 11.0 |      |   |
| 128 | 2      | -1.22   |      |      | 9.3  |   |
| 129 | 0      | 13.48   | 30.0 |      |      |   |
| 132 | 0      | 12.77   |      | 29.0 |      |   |
| 133 | 1      | -1.51   |      | 8.9  |      |   |
| 134 | 4      | 0.01    |      | 11.0 |      |   |

| Lab | Rating | Z-value | 1    | 3    | 4    | 6    |
|-----|--------|---------|------|------|------|------|
| 138 | 3      | -0.84   |      |      |      | 9.8  |
| 140 | 0      | 2.12    | 14.0 |      |      |      |
| 141 | 2      | 1.19    |      |      | 12.7 |      |
| 142 | 3      | -0.65   |      |      |      | 10.1 |
| 144 | 3      | -0.51   |      | 10.3 |      |      |
| 145 | 0      | 5.88    |      |      | 19.3 |      |
| 146 | 1      | 1.90    |      |      | 13.7 |      |
| 151 | 3      | 0.55    |      |      |      | 11.8 |
| 158 | 1      | 1.97    |      |      | 13.8 |      |
| 180 | 4      | -0.30   |      |      | 10.6 |      |
| 190 | 4      | -0.01   |      | 11.0 |      |      |
| 191 | 4      | -0.01   |      |      |      | 11.0 |
| 193 | NR     |         | < 25 |      |      |      |
| 196 | 4      | 0.13    |      |      |      | 11.2 |
| 203 | 0      | -2.36   | 7.7  |      |      |      |
| 204 | 0      | -3.99   |      | 5.4  |      |      |
| 212 | 0      | 2.12    |      |      |      | 14.0 |
| 213 | 4      | 0.13    |      | 11.2 |      |      |
| 215 | 0      | 2.83    |      | 15.0 |      |      |
| 217 | 4      | -0.01   |      |      | 11.0 |      |
| 219 | 2      | -1.15   |      |      | 9.4  |      |
| 221 | 4      | -0.30   |      | 10.6 |      |      |
| 224 | 1      | 1.55    |      |      | 13.2 |      |
| 234 | 3      | 0.98    |      |      | 12.4 |      |
| 235 | 1      | -1.79   |      |      | 8.5  |      |
| 236 | 1      | -1.58   |      |      | 8.8  |      |
| 240 | 3      | 0.70    |      |      | 12.0 |      |
| 241 | 0      | 2.75    |      | 14.9 |      |      |
| 245 | 4      | 0.13    |      | 11.2 |      |      |
| 249 | 4      | -0.48   |      | 10.4 |      |      |
| 253 | 3      | -0.72   | 10.0 |      |      |      |
| 255 | 4      | -0.49   |      |      | 10.3 |      |
| 257 | 2      | 1.41    | 13.0 |      |      |      |
| 259 | 4      | -0.01   | 11.0 |      |      |      |
| 265 | 3      | 0.55    |      |      |      | 11.8 |
| 273 | 0      | -4.27   |      |      | 5.0  |      |
| 274 | 0      | -6.01   |      | 2.6  |      |      |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)--Continued

Fe (Iron)

µg/L



□ 1    ■ 3    ◇ 4    ▲ 5    ◆ 6    □ 22

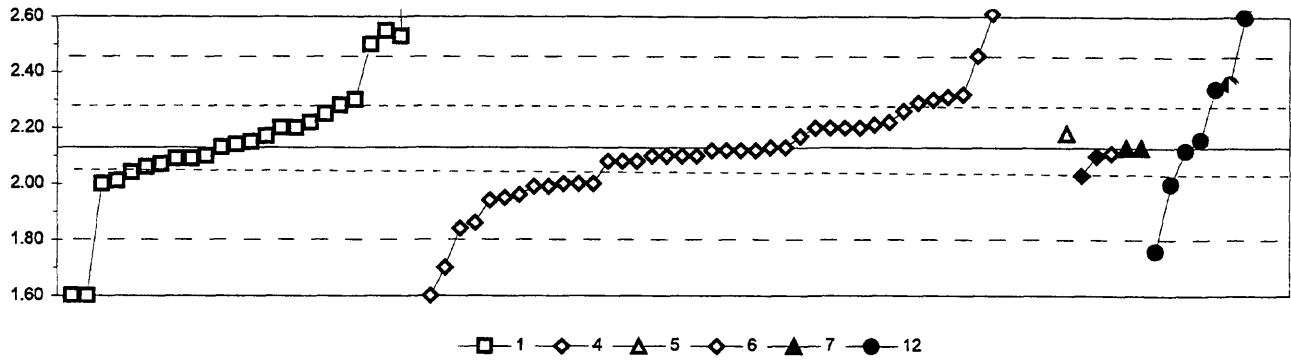
|                         |                  |     |     |     |     |     |
|-------------------------|------------------|-----|-----|-----|-----|-----|
| 1. AA: direct air       | 5. DCP           |     |     |     |     |     |
| 3. AA: graphite furnace | 6. ICP/MS        |     |     |     |     |     |
| 4. ICP                  | 22. Colorimetric |     |     |     |     |     |
| N =                     | 20               | 6   | 56  | 1   | 4   | 2   |
| Minimum =               | 78               | 41  | 30  | 120 | 85  | 97  |
| Maximum =               | 230              | 147 | 129 |     | 183 | 113 |
| Median =                | 100              |     | 101 |     |     |     |
| F-pseudosigma =         | 15               |     | 6   |     |     |     |

MPV = 101  
F-pseudosigma = 8  
N = 89  
Hu = 107  
Hi = 96

| Lab | Rating | Z-value | 1     | 3   | 4   | 5   | 6   | 22 |
|-----|--------|---------|-------|-----|-----|-----|-----|----|
| 1   | 3      | -0.59   |       |     | 96  |     |     |    |
| 3   | 0      | 2.41    |       |     | 120 |     |     |    |
| 4   | 4      | 0.13    |       |     | 102 |     |     |    |
| 5   | 4      | -0.19   |       |     | 100 |     |     |    |
| 7   | 4      | 0.32    |       |     | 104 |     |     |    |
| 10  | 3      | 0.51    | 105   |     |     |     |     |    |
| 11  | 2      | -1.39   |       |     | 90  |     |     |    |
| 13  | 1      | 2.03    |       |     | 117 |     |     |    |
| 15  | 2      | -1.13   |       |     | 92  |     |     |    |
| 16  | 0      | -3.00   |       |     | 77  |     |     |    |
| 18  | 4      | -0.13   |       |     | 100 |     |     |    |
| 23  | NR     |         | < 500 |     |     |     |     |    |
| 24  | 4      | -0.35   |       |     | 98  |     |     |    |
| 25  | 0      | -2.28   |       |     | 83  |     |     |    |
| 26  | 4      | 0.13    |       |     | 102 |     |     |    |
| 30  | 0      | 16.34   | 230   |     |     |     |     |    |
| 32  | 0      | 10.39   |       |     |     |     | 183 |    |
| 33  | 0      | 2.41    |       |     |     | 120 |     |    |
| 35  | 3      | -0.51   |       |     |     |     |     | 97 |
| 36  | 0      | 4.94    | 140   |     |     |     |     |    |
| 40  | 3      | -0.82   |       |     | 95  |     |     |    |
| 42  | 3      | 0.76    |       |     | 107 |     |     |    |
| 43  | 2      | 1.14    |       |     | 110 |     |     |    |
| 46  | 4      | 0.00    |       |     | 101 |     |     |    |
| 48  | 0      | -8.99   |       |     | 30  |     |     |    |
| 58  | 4      | -0.13   | 100   |     |     |     |     |    |
| 59  | 4      | -0.13   |       |     | 100 |     |     |    |
| 68  | 3      | 0.51    |       |     | 105 |     |     |    |
| 69  | 3      | 0.89    | 108   |     |     |     |     |    |
| 70  | 4      | 0.13    |       |     | 102 |     |     |    |
| 73  | 4      | 0.00    |       |     | 101 |     |     |    |
| 75  | 4      | -0.35   |       |     | 98  |     |     |    |
| 80  | 4      | -0.25   | 99    |     |     |     |     |    |
| 81  | 1      | -2.03   |       |     |     |     | 85  |    |
| 83  | 4      | -0.13   |       |     | 100 |     |     |    |
| 85  | 4      | 0.25    |       |     | 103 |     |     |    |
| 86  | 4      | 0.25    |       |     | 103 |     |     |    |
| 87  | 0      | 3.42    | 128   |     |     |     |     |    |
| 89  | 0      | 3.17    |       | 126 |     |     |     |    |
| 91  | 3      | -0.63   |       |     | 96  |     |     |    |
| 96  | 2      | 1.39    | 112   |     |     |     |     |    |
| 97  | 4      | 0.13    |       | 102 |     |     |     |    |
| 102 | 2      | 1.27    |       |     | 111 |     |     |    |
| 105 | 4      | 0.25    |       |     | 103 |     |     |    |
| 107 | 2      | -1.39   | 90    |     |     |     |     |    |
| 109 | 4      | -0.46   | 97    |     |     |     |     |    |
| 113 | 4      | 0.13    |       |     | 102 |     |     |    |
| 114 | 4      | -0.13   | 100   |     |     |     |     |    |
| 119 | 4      | 0.38    |       |     | 104 |     |     |    |
| 121 | 4      | 0.00    |       |     | 101 |     |     |    |

| Lab | Rating | Z-value | 1   | 3   | 4   | 5 | 6  | 22  |
|-----|--------|---------|-----|-----|-----|---|----|-----|
| 128 | 2      | -1.23   |     |     | 91  |   |    |     |
| 129 | 0      | -2.91   | 78  |     |     |   |    |     |
| 132 | 0      | 3.55    |     |     | 129 |   |    |     |
| 133 | 4      | 0.38    |     |     | 104 |   |    |     |
| 134 | 4      | -0.08   |     |     | 100 |   |    |     |
| 138 | 4      | 0.38    |     |     | 104 |   |    |     |
| 140 | 3      | 0.76    | 107 |     |     |   |    |     |
| 141 | 1      | -1.99   |     |     | 85  |   |    |     |
| 142 | 3      | 0.63    |     |     | 106 |   |    |     |
| 145 | 4      | 0.15    |     |     | 102 |   |    |     |
| 146 | 4      | -0.32   |     |     | 99  |   |    |     |
| 149 | 4      | -0.13   | 100 |     |     |   |    |     |
| 151 | 2      | -1.42   |     |     |     |   | 90 |     |
| 155 | 1      | 1.56    |     |     |     |   |    | 113 |
| 158 | 2      | 1.01    |     |     | 109 |   |    |     |
| 180 | 4      | -0.29   |     |     | 99  |   |    |     |
| 190 | 1      | -1.65   | 88  |     |     |   |    |     |
| 191 | 4      | -0.38   |     |     |     |   | 98 |     |
| 203 | 3      | -0.63   | 96  |     |     |   |    |     |
| 204 | 2      | -1.01   |     |     | 93  |   |    |     |
| 212 | 2      | 1.14    |     |     | 110 |   |    |     |
| 213 | 3      | 0.51    |     | 105 |     |   |    |     |
| 215 | 3      | 0.63    |     |     | 106 |   |    |     |
| 217 | 3      | 0.63    |     |     | 106 |   |    |     |
| 219 | 2      | -1.14   |     |     | 92  |   |    |     |
| 220 | 4      | -0.38   | 98  |     |     |   |    |     |
| 221 | 1      | 2.03    |     | 117 |     |   |    |     |
| 224 | 3      | -0.82   |     |     | 95  |   |    |     |
| 234 | 4      | 0.13    |     |     | 102 |   |    |     |
| 235 | 2      | 1.14    |     |     | 110 |   |    |     |
| 236 | 4      | -0.42   |     |     | 98  |   |    |     |
| 240 | 0      | -2.28   |     |     | 83  |   |    |     |
| 241 | 0      | 2.53    | 121 |     |     |   |    |     |
| 249 | 0      | -7.60   |     | 41  |     |   |    |     |
| 253 | 0      | 10.01   | 180 |     |     |   |    |     |
| 255 | 4      | -0.25   |     |     | 99  |   |    |     |
| 257 | 0      | -2.53   | 81  |     |     |   |    |     |
| 265 | 3      | -0.51   |     |     | 97  |   |    |     |
| 273 | 3      | -0.63   |     |     | 96  |   |    |     |
| 274 | 0      | 5.83    |     | 147 |     |   |    |     |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
K (Potassium) mg/L



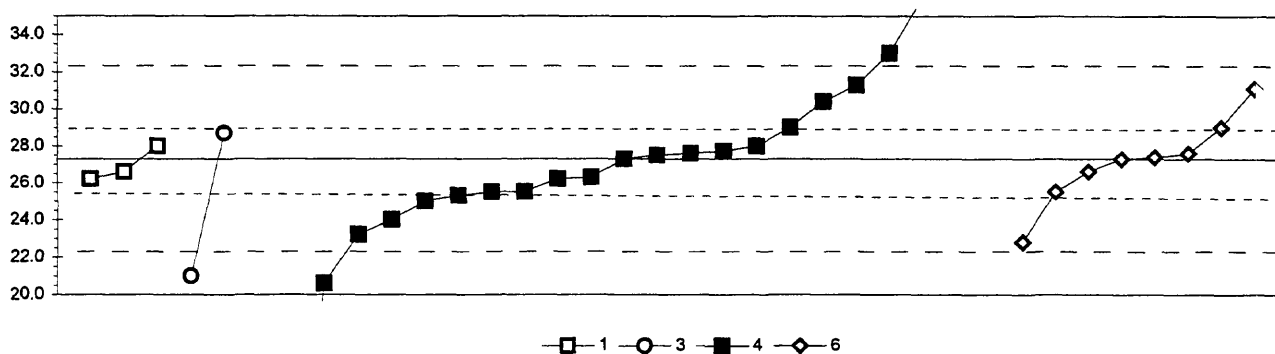
|                   |                       |       |      |      |      |      |
|-------------------|-----------------------|-------|------|------|------|------|
| 1. AA: direct air | 6. ICP/MS             |       |      |      |      |      |
| 4. ICP            | 7. Ion chromatography |       |      |      |      |      |
| 5. DCP            | 12. Flame emission    |       |      |      |      |      |
| N =               | 24                    | 43    | 1    | 3    | 2    | 10   |
| Minimum =         | 1.60                  | 1.60  | 2.18 | 2.03 | 2.13 | 1.76 |
| Maximum =         | 5.15                  | 38.30 |      | 2.11 | 2.13 | 2.80 |
| Median =          | 2.14                  | 2.12  |      |      |      | 2.35 |
| F-pseudosigma =   | 0.13                  | 0.18  |      |      |      | 0.40 |

MPV = 2.13  
F-pseudosigma = 0.16  
N = 83  
Hu = 2.28  
Hi = 2.06

| Lab | Rating | Z-value | 1    | 4     | 5    | 6    | 7    | 12   |
|-----|--------|---------|------|-------|------|------|------|------|
| 1   | 4      | 0.25    | 2.17 |       |      |      |      |      |
| 3   | 0      | 14.53   |      | 4.50  |      |      |      |      |
| 5   | 4      | -0.06   |      | 2.12  |      |      |      |      |
| 7   | 1      | 2.02    |      | 2.46  |      |      |      |      |
| 11  | 4      | -0.06   |      | 2.12  |      |      |      |      |
| 13  | 4      | -0.31   |      | 2.08  |      |      |      |      |
| 15  | 0      | 221.79  |      | 38.30 |      |      |      |      |
| 16  | 0      | -3.25   | 1.60 |       |      |      |      |      |
| 18  | 4      | -0.18   |      | 2.10  |      |      |      |      |
| 19  | 4      | -0.18   |      | 2.10  |      |      |      |      |
| 23  | 4      | -0.25   | 2.09 |       |      |      |      |      |
| 24  | 2      | -1.17   |      | 1.94  |      |      |      |      |
| 25  | 2      | 1.10    |      | 2.31  |      |      |      |      |
| 26  | 4      | 0.00    |      |       |      |      | 2.13 |      |
| 28  | 2      | 1.17    |      | 2.32  |      |      |      |      |
| 32  | 4      | -0.18   |      |       |      | 2.10 |      |      |
| 33  | 4      | 0.31    |      |       | 2.18 |      |      |      |
| 36  | 0      | -3.25   | 1.60 |       |      |      |      |      |
| 40  | 3      | -0.86   |      | 1.99  |      |      |      |      |
| 42  | 2      | 1.04    |      | 2.30  |      |      |      |      |
| 43  | 4      | 0.43    |      | 2.20  |      |      |      |      |
| 46  | 3      | 0.80    |      | 2.26  |      |      |      |      |
| 48  | 4      | 0.00    |      | 2.13  |      |      |      |      |
| 51  | 4      | 0.18    |      |       |      |      |      | 2.16 |
| 59  | 0      | -2.64   |      | 1.70  |      |      |      |      |
| 68  | 4      | -0.18   |      | 2.10  |      |      |      |      |
| 69  | 2      | 1.29    |      |       |      |      |      | 2.34 |
| 70  | 2      | -1.04   |      | 1.96  |      |      |      |      |
| 81  | 3      | -0.61   |      |       |      | 2.03 |      |      |
| 83  | 4      | 0.43    |      | 2.20  |      |      |      |      |
| 85  | 0      | 2.27    | 2.50 |       |      |      |      |      |
| 86  | 4      | 0.49    |      | 2.21  |      |      |      |      |
| 87  | 0      | 18.52   | 5.15 |       |      |      |      |      |
| 89  | 3      | -0.74   | 2.01 |       |      |      |      |      |
| 97  | 4      | 0.06    | 2.14 |       |      |      |      |      |
| 102 | 3      | -0.80   |      | 2.00  |      |      |      |      |
| 105 | 4      | -0.31   |      | 2.08  |      |      |      |      |
| 107 | 3      | 0.92    | 2.28 |       |      |      |      |      |
| 109 | 4      | 0.43    | 2.20 |       |      |      |      |      |
| 113 | 4      | -0.06   |      | 2.12  |      |      |      |      |
| 114 | 3      | -0.80   | 2.00 |       |      |      |      |      |
| 119 | 0      | -3.25   |      | 1.60  |      |      |      |      |
| 121 | 4      | 0.12    |      | 2.15  |      |      |      |      |
| 128 | 3      | -0.86   |      | 1.99  |      |      |      |      |
| 129 | 4      | -0.18   |      | 2.10  |      |      |      |      |
| 132 | 3      | 0.98    |      | 2.29  |      |      |      |      |
| 134 | 4      | 0.00    | 2.13 |       |      |      |      |      |
| 138 | 4      | -0.18   |      | 2.10  |      |      |      |      |
| 140 | 3      | 0.74    | 2.25 |       |      |      |      |      |
| 141 | 4      | 0.25    |      | 2.17  |      |      |      |      |

| Lab | Rating | Z-value | 1    | 4    | 5 | 6 | 7 | 12   |
|-----|--------|---------|------|------|---|---|---|------|
| 142 | 1      | -1.66   |      | 1.86 |   |   |   |      |
| 145 | 3      | 0.55    |      | 2.22 |   |   |   |      |
| 146 | 0      | 2.94    |      | 2.61 |   |   |   |      |
| 180 | 3      | -0.80   |      | 2.00 |   |   |   |      |
| 190 | 4      | 0.00    |      |      |   |   |   | 2.13 |
| 191 | 4      | -0.12   |      |      |   |   |   | 2.11 |
| 193 | 3      | -0.55   | 2.04 |      |   |   |   |      |
| 203 | 0      | 2.45    | 2.53 |      |   |   |   |      |
| 204 | 4      | -0.06   |      |      |   |   |   | 2.12 |
| 212 | 3      | -0.80   |      | 2.00 |   |   |   |      |
| 215 | 4      | 0.43    |      | 2.20 |   |   |   |      |
| 217 | 1      | -1.78   |      | 1.84 |   |   |   |      |
| 218 | 4      | -0.37   | 2.07 |      |   |   |   |      |
| 219 | 4      | 0.43    |      | 2.20 |   |   |   |      |
| 220 | 4      | 0.43    | 2.20 |      |   |   |   |      |
| 221 | 3      | 0.55    | 2.22 |      |   |   |   |      |
| 224 | 2      | -1.10   |      | 1.95 |   |   |   |      |
| 234 | 4      | -0.06   |      | 2.12 |   |   |   |      |
| 235 | 0      | 8.40    |      | 3.50 |   |   |   |      |
| 236 | 4      | 0.00    |      | 2.13 |   |   |   |      |
| 241 | 4      | -0.43   | 2.06 |      |   |   |   |      |
| 249 | 2      | 1.41    |      |      |   |   |   | 2.36 |
| 255 | 4      | -0.31   |      | 2.08 |   |   |   |      |
| 257 | 0      | 2.88    |      |      |   |   |   | 2.60 |
| 259 | 2      | 1.04    | 2.30 |      |   |   |   |      |
| 261 | 0      | -2.27   |      |      |   |   |   | 1.76 |
| 265 | 4      | -0.25   | 2.09 |      |   |   |   |      |
| 268 | 0      | 2.63    | 2.55 |      |   |   |   |      |
| 270 | 0      | 3.25    |      |      |   |   |   | 2.66 |
| 271 | 0      | 4.11    |      |      |   |   |   | 2.80 |
| 272 | 3      | -0.80   |      |      |   |   |   | 2.00 |
| 273 | 0      | 5.21    |      | 2.98 |   |   |   |      |
| 274 | 0      | 3.37    |      |      |   |   |   | 2.68 |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Li (Lithium)  $\mu\text{g/L}$

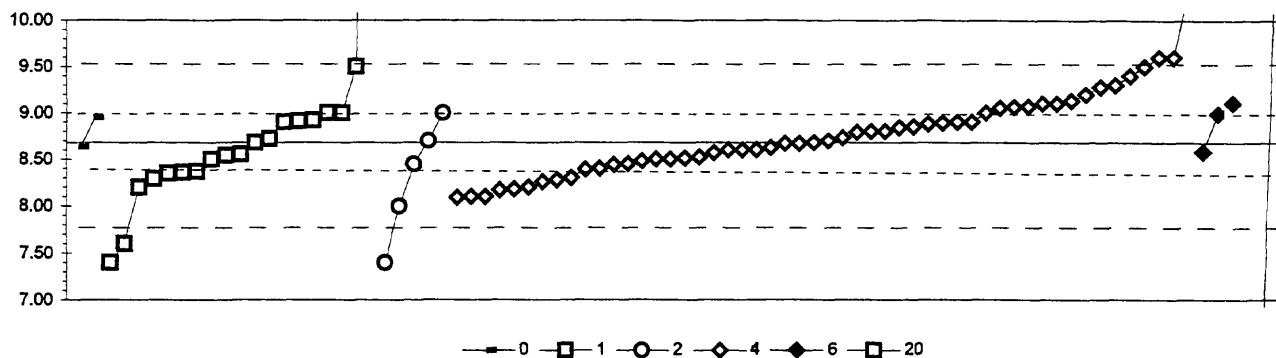


|                         |                     |
|-------------------------|---------------------|
| 1. AA: direct air       | 6. ICP/MS           |
| 3. AA: graphite furnace | 0. Other            |
| 4. ICP                  | 0. Other            |
| N =                     | 3 2 23 8            |
| Minimum =               | 26.2 21.0 2.8 22.8  |
| Maximum =               | 28.0 28.7 46.0 31.1 |
| Median =                | 27.3 27.4           |
| F-pseudostigma =        | 3.4 1.7             |

MPV = 27.3  
F-pseudostigma = 2.5  
N = 36  
Hu = 28.9  
HI = 25.5

| Lab | Rating | Z-value | 1    | 3    | 4    | 6    |
|-----|--------|---------|------|------|------|------|
| 1   | 3      | -0.72   |      |      | 25.5 |      |
| 3   | 0      | 2.30    |      |      | 33.0 |      |
| 4   | 0      | 3.50    |      |      | 36.0 |      |
| 5   | 4      | -0.44   |      |      | 26.2 |      |
| 7   | 4      | 0.08    |      |      | 27.5 |      |
| 11  | 0      | 6.85    |      |      | 44.3 |      |
| 16  | 1      | -1.81   |      |      |      | 22.8 |
| 24  | 4      | 0.12    |      |      | 27.6 |      |
| 25  | 3      | 0.68    |      |      | 29.0 |      |
| 26  | 3      | -0.72   |      |      | 25.5 |      |
| 30  | 2      | -1.33   |      |      | 24.0 |      |
| 32  | 4      | 0.00    |      |      |      | 27.3 |
| 40  | 3      | -0.81   |      |      | 25.3 |      |
| 42  | 0      | -8.58   |      |      | 6.0  |      |
| 68  | 0      | -9.89   |      |      | 2.8  |      |
| 69  | 3      | 0.56    |      | 28.7 |      |      |
| 75  | 4      | 0.00    |      |      | 27.3 |      |
| 76  | 4      | 0.12    |      |      |      | 27.6 |
| 85  | 4      | -0.44   | 26.2 |      |      |      |
| 105 | 1      | -1.65   |      |      | 23.2 |      |
| 109 | 4      | -0.28   | 26.6 |      |      |      |
| 134 | 4      | 0.17    |      |      | 27.7 |      |
| 142 | 4      | 0.28    |      |      | 28.0 |      |
| 145 | 1      | 1.61    |      |      | 31.3 |      |
| 151 | 3      | -0.72   |      |      |      | 25.5 |
| 191 | 1      | 1.53    |      |      |      | 31.1 |
| 196 | 4      | -0.28   |      |      |      | 26.6 |
| 212 | 3      | 0.68    |      |      |      | 29.0 |
| 217 | 4      | -0.40   |      |      | 26.3 |      |
| 219 | 3      | -0.93   |      |      | 25.0 |      |
| 234 | 2      | 1.25    |      |      | 30.4 |      |
| 236 | 0      | -2.70   |      |      | 20.6 |      |
| 257 | 4      | 0.28    | 28.0 |      |      |      |
| 259 | 0      | -2.54   |      | 21.0 |      |      |
| 265 | 4      | 0.04    |      |      |      | 27.4 |
| 273 | 0      | 7.53    |      |      | 46.0 |      |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (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 =                         | 2 19 5 52 3 4                    |
| Minimum =                   | 8.63 7.40 7.40 8.09 8.58 0.00    |
| Maximum =                   | 8.95 16.47 9.00 10.30 9.11 25.15 |
| Median =                    | 8.55 8.69                        |
| F-pseudosigma =             | 0.42 0.44                        |

MPV = 8.68  
F-pseudosigma = 0.45  
N = 85  
Hu = 9.00  
Hi = 8.40

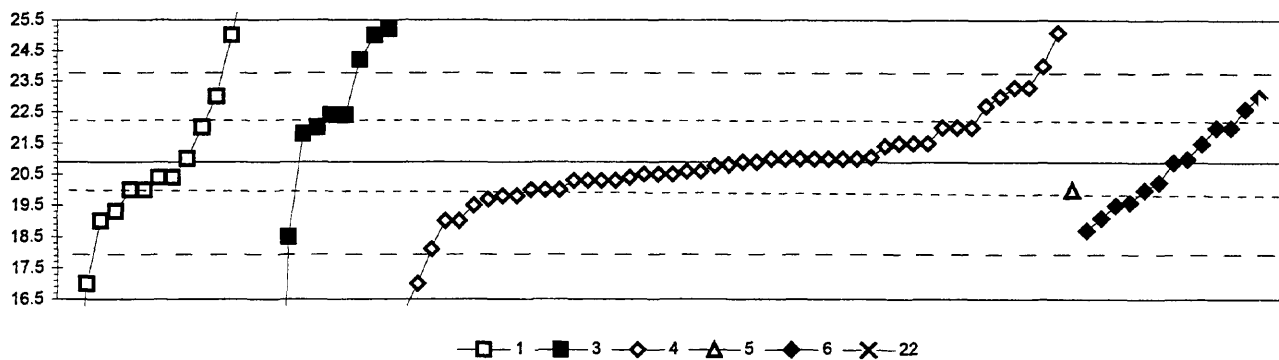
| Lab | Rating | Z-value | 0    | 1     | 2    | 4     | 6    | 20 |
|-----|--------|---------|------|-------|------|-------|------|----|
| 1   | 2      | -1.13   |      |       |      | 8.17  |      |    |
| 3   | 4      | -0.35   |      |       |      | 8.52  |      |    |
| 4   | 4      | 0.06    |      |       |      | 8.70  |      |    |
| 5   | 2      | -1.28   |      |       |      | 8.10  |      |    |
| 7   | 3      | 0.87    |      |       |      | 9.06  |      |    |
| 11  | 2      | 1.17    |      |       |      | 9.20  |      |    |
| 13  | 3      | 0.88    |      |       |      | 9.07  |      |    |
| 15  | 2      | -1.28   |      |       |      | 8.10  |      |    |
| 16  | 4      | -0.17   |      |       |      | 8.60  |      |    |
| 18  | 4      | -0.17   |      |       |      | 8.60  |      |    |
| 19  | 4      | 0.28    |      |       |      | 8.80  |      |    |
| 23  | 4      | 0.10    |      | 8.72  |      |       |      |    |
| 24  | 3      | -0.52   |      |       |      | 8.44  |      |    |
| 25  | 3      | -0.61   |      |       |      | 8.40  |      |    |
| 26  | 3      | 0.95    |      |       |      | 9.10  |      |    |
| 28  | 4      | 0.50    |      |       |      | 8.90  |      |    |
| 30  | 3      | 0.72    |      |       | 9.00 |       |      |    |
| 32  | 3      | 0.97    |      |       |      |       | 9.11 |    |
| 33  | 3      | 0.61    | 8.95 |       |      |       |      |    |
| 36  | 0      | -2.40   |      | 7.60  |      |       |      |    |
| 40  | 4      | -0.43   |      |       |      | 8.48  |      |    |
| 42  | 2      | 1.39    |      |       |      | 9.30  |      |    |
| 43  | 4      | 0.28    |      |       |      | 8.80  |      |    |
| 46  | 4      | -0.01   |      |       |      | 8.67  |      |    |
| 48  | 4      | 0.48    |      |       |      | 8.89  |      |    |
| 51  | 0      | 17.38   |      | 16.47 |      |       |      |    |
| 59  | 4      | -0.39   |      |       |      | 8.50  |      |    |
| 68  | 3      | 0.84    |      |       |      | 9.05  |      |    |
| 69  | 3      | -0.68   |      | 8.37  |      |       |      |    |
| 70  | 4      | 0.12    |      |       |      | 8.73  |      |    |
| 75  | 4      | 0.50    |      | 8.90  |      |       |      |    |
| 81  | 4      | -0.21   |      |       |      |       | 8.58 |    |
| 83  | 4      | -0.50   |      |       |      | 8.45  |      |    |
| 85  | 3      | 0.55    |      | 8.92  |      |       |      |    |
| 86  | 4      | -0.01   |      |       |      | 8.67  |      |    |
| 87  | 3      | -0.70   |      | 8.36  |      |       |      |    |
| 89  | 3      | -0.86   |      | 8.29  |      |       |      |    |
| 97  | 4      | -0.28   |      | 8.55  |      |       |      |    |
| 102 | 0      | 3.62    |      |       |      | 10.30 |      |    |
| 105 | 4      | 0.01    |      |       |      | 8.68  |      |    |
| 107 | 3      | 0.52    |      | 8.91  |      |       |      |    |
| 109 | 4      | -0.39   |      | 8.50  |      |       |      |    |
| 113 | 4      | 0.37    |      |       |      | 8.84  |      |    |
| 114 | 1      | -1.51   |      |       | 8.00 |       |      |    |
| 119 | 3      | 0.95    |      |       |      | 9.10  |      |    |
| 121 | 3      | -0.84   |      |       |      | 8.30  |      |    |
| 128 | 3      | -0.88   |      |       |      | 8.28  |      |    |
| 129 | 3      | 0.72    |      | 9.00  |      |       |      |    |
| 132 | 4      | 0.26    |      |       |      | 8.79  |      |    |
| 133 | 3      | -0.64   |      |       |      | 8.39  |      |    |

| Lab | Rating | Z-value | 0    | 1    | 2    | 4    | 6    | 20    |
|-----|--------|---------|------|------|------|------|------|-------|
| 134 | 4      | -0.23   |      |      |      | 8.57 |      |       |
| 138 | 4      | 0.46    |      |      |      | 8.88 |      |       |
| 140 | 1      | 1.84    |      | 9.50 |      |      |      |       |
| 141 | 2      | 1.01    |      |      |      | 9.13 |      |       |
| 142 | 2      | -1.10   |      |      |      | 8.18 |      |       |
| 145 | 2      | 1.35    |      |      |      | 9.28 |      |       |
| 146 | 2      | -1.06   |      |      |      | 8.20 |      |       |
| 158 | 1      | 1.84    |      |      |      | 9.50 |      |       |
| 180 | 4      | 0.39    |      |      |      | 8.85 |      |       |
| 190 | 4      | -0.10   | 8.63 |      |      |      |      |       |
| 191 | 3      | 0.70    |      |      |      |      | 8.99 |       |
| 193 | 2      | -1.06   |      | 8.20 |      |      |      |       |
| 203 | 4      | -0.30   |      | 8.54 |      |      |      |       |
| 212 | 1      | 1.62    |      |      |      | 9.40 |      |       |
| 215 | 4      | 0.50    |      |      |      | 8.90 |      |       |
| 217 | 2      | -1.30   |      |      |      | 8.09 |      |       |
| 218 | 4      | -0.50   |      |      | 8.45 |      |      |       |
| 219 | 4      | -0.17   |      |      |      | 8.60 |      |       |
| 220 | 3      | 0.72    |      | 9.00 |      |      |      |       |
| 221 | 3      | -0.72   |      | 8.35 |      |      |      |       |
| 224 | 3      | -0.93   |      |      |      | 8.26 |      |       |
| 234 | 4      | -0.37   |      |      |      | 8.51 |      |       |
| 235 | 0      | 2.06    |      |      |      | 9.60 |      |       |
| 236 | 3      | 0.72    |      |      |      | 9.00 |      |       |
| 240 | 4      | -0.39   |      |      |      | 8.50 |      |       |
| 241 | 0      | -2.84   |      | 7.40 |      |      |      |       |
| 255 | 4      | -0.12   |      |      |      | 8.62 |      |       |
| 257 | 0      | -2.84   |      |      | 7.40 |      |      |       |
| 261 | 0      | 4.74    |      |      |      |      |      | 10.80 |
| 265 | 4      | 0.06    |      |      | 8.70 |      |      |       |
| 268 | 4      | -0.07   |      | 8.65 |      |      |      |       |
| 271 | 0      | 36.74   |      |      |      |      |      | 25.15 |
| 272 | 0      | -5.82   |      |      |      |      |      | 6.06  |
| 273 | 0      | 2.06    |      |      |      | 9.60 |      |       |
| 274 | 0      | -19.34  |      |      |      |      |      | 0.00  |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued

Mn (Manganese)

µg/L



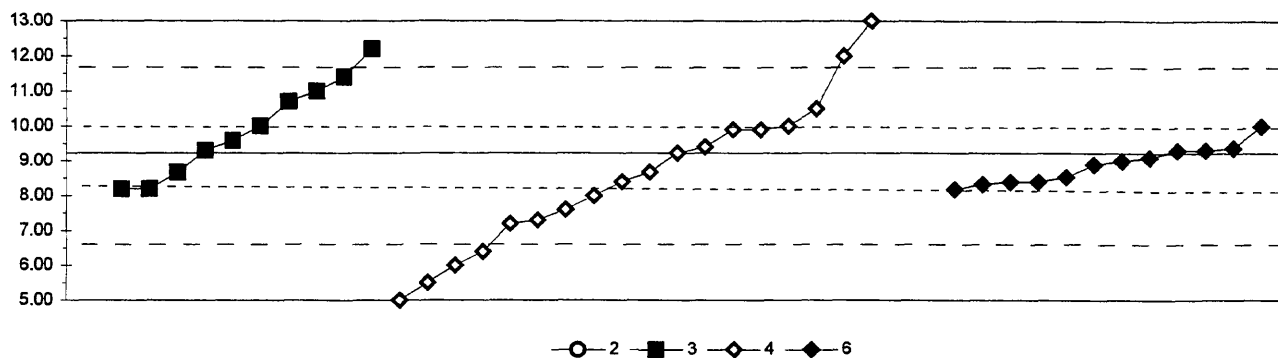
|                         |                  |      |      |      |      |      |
|-------------------------|------------------|------|------|------|------|------|
| 1. AA: direct air       | 5. DCP           |      |      |      |      |      |
| 3. AA: graphite furnace | 6. ICP/MS        |      |      |      |      |      |
| 4. ICP                  | 22. Colorimetric |      |      |      |      |      |
| N =                     | 14               | 9    | 47   | 1    | 13   | 1    |
| Minimum =               | 10.0             | 8.0  | 16.0 | 20.0 | 18.7 | 30.7 |
| Maximum =               | 27.0             | 25.2 | 25.1 |      | 23.0 |      |
| Median =                | 20.4             | 22.4 | 20.8 |      | 20.9 |      |
| F-pseudosigma =         | 2.7              | 1.8  | 1.0  |      | 1.8  |      |

MPV = 20.9  
 F-pseudosigma = 1.5  
 N = 85  
 Hu = 22.0  
 HI = 20.0

| Lab | Rating | Z-value | 1    | 3    | 4    | 5    | 6    | 22 |
|-----|--------|---------|------|------|------|------|------|----|
| 1   | 4      | -0.44   |      |      |      |      | 20.3 |    |
| 3   | 0      | -2.63   |      |      | 17.0 |      |      |    |
| 4   | 4      | 0.07    |      |      | 21.0 |      |      |    |
| 5   | 4      | 0.07    |      |      | 21.0 |      |      |    |
| 7   | 4      | 0.34    |      |      | 21.4 |      |      |    |
| 10  | 0      | 2.77    | 25.0 |      |      |      |      |    |
| 11  | 4      | 0.07    |      |      | 21.0 |      |      |    |
| 13  | 3      | -0.94   |      |      | 19.5 |      |      |    |
| 15  | 0      | 2.09    |      |      | 24.0 |      |      |    |
| 16  | 4      | 0.40    |      |      |      |      | 21.5 |    |
| 18  | 4      | -0.40   |      |      | 20.3 |      |      |    |
| 23  | 3      | 0.61    |      | 21.8 |      |      |      |    |
| 24  | 3      | -0.74   |      |      | 19.8 |      |      |    |
| 25  | 4      | 0.07    |      |      | 21.0 |      |      |    |
| 26  | 4      | 0.40    |      |      | 21.5 |      |      |    |
| 28  | 1      | 1.62    |      |      | 23.3 |      |      |    |
| 30  | 4      | 0.07    |      |      | 21.0 |      |      |    |
| 32  | 4      | 0.00    |      |      |      | 20.9 |      |    |
| 33  | 3      | -0.61   |      |      |      | 20.0 |      |    |
| 36  | 3      | 0.74    |      | 22.0 |      |      |      |    |
| 40  | 1      | -1.89   |      |      | 18.1 |      |      |    |
| 42  | 2      | 1.42    |      |      |      |      | 23.0 |    |
| 43  | 3      | -0.61   |      |      | 20.0 |      |      |    |
| 46  | 4      | -0.34   |      |      | 20.4 |      |      |    |
| 48  | 3      | -0.61   |      |      | 20.0 |      |      |    |
| 58  | NR     |         | < 50 |      |      |      |      |    |
| 59  | 4      | 0.07    |      |      |      |      | 21.0 |    |
| 68  | 4      | 0.40    |      |      | 21.5 |      |      |    |
| 69  | NR     |         | < 20 |      |      |      |      |    |
| 70  | 4      | -0.20   |      |      | 20.6 |      |      |    |
| 73  | 4      | 0.07    |      |      | 21.0 |      |      |    |
| 75  | 4      | -0.07   |      |      | 20.8 |      |      |    |
| 80  | 1      | -1.62   |      | 18.5 |      |      |      |    |
| 81  | 3      | -0.61   |      |      |      | 20.0 |      |    |
| 83  | 4      | -0.40   |      |      | 20.3 |      |      |    |
| 86  | 4      | -0.40   |      |      | 20.3 |      |      |    |
| 87  | 0      | 4.11    | 27.0 |      |      |      |      |    |
| 89  | 4      | -0.34   | 20.4 |      |      |      |      |    |
| 91  | 4      | -0.40   |      |      | 20.3 |      |      |    |
| 96  | 0      | 4.11    | 27.0 |      |      |      |      |    |
| 97  | 0      | 2.23    |      | 24.2 |      |      |      |    |
| 102 | 2      | 1.42    |      |      | 23.0 |      |      |    |
| 105 | 3      | -0.88   |      |      |      |      | 19.6 |    |
| 107 | 3      | -0.61   | 20.0 |      |      |      |      |    |
| 109 | 2      | -1.08   | 19.3 |      |      |      |      |    |
| 113 | 4      | 0.40    |      |      | 21.5 |      |      |    |
| 114 | 4      | 0.07    | 21.0 |      |      |      |      |    |
| 119 | 4      | 0.07    |      |      | 21.0 |      |      |    |
| 121 | 3      | 0.74    |      |      | 22.0 |      |      |    |
| 128 | 2      | -1.48   |      |      |      |      | 18.7 |    |

| Lab | Rating | Z-value | 1    | 3    | 4    | 5 | 6    | 22   |
|-----|--------|---------|------|------|------|---|------|------|
| 129 | 0      | -7.35   | 10.0 |      |      |   |      |      |
| 132 | 2      | -1.28   |      |      | 19.0 |   |      |      |
| 134 | 4      | 0.10    |      |      | 21.1 |   |      |      |
| 138 | 4      | -0.27   |      |      | 20.5 |   |      |      |
| 140 | 2      | -1.28   | 19.0 |      |      |   |      |      |
| 141 | 4      | 0.00    |      |      | 20.9 |   |      |      |
| 142 | 3      | 0.74    |      |      | 22.0 |   |      |      |
| 145 | 1      | 1.62    |      |      | 23.3 |   |      |      |
| 146 | 4      | -0.20   |      |      | 20.6 |   |      |      |
| 149 | 3      | 0.74    | 22.0 |      |      |   |      |      |
| 151 | 3      | -0.94   |      |      |      |   | 19.5 |      |
| 158 | 2      | 1.21    |      |      | 22.7 |   |      |      |
| 180 | 4      | -0.27   |      |      | 20.5 |   |      |      |
| 183 | 0      | 2.90    |      | 25.2 |      |   |      |      |
| 190 | 2      | 1.01    |      | 22.4 |      |   |      |      |
| 191 | 3      | 0.74    |      |      |      |   | 22.0 |      |
| 196 | 2      | -1.21   |      |      |      |   | 19.1 |      |
| 203 | 3      | -0.61   | 20.0 |      |      |   |      |      |
| 204 | 0      | -3.31   |      |      | 16.0 |   |      |      |
| 212 | 3      | 0.74    |      |      |      |   | 22.0 |      |
| 215 | 3      | -0.81   |      |      | 19.7 |   |      |      |
| 217 | 3      | -0.74   |      |      | 19.8 |   |      |      |
| 220 | 4      | -0.34   | 20.4 |      |      |   |      |      |
| 221 | 2      | 1.01    |      | 22.4 |      |   |      |      |
| 224 | 3      | 0.74    |      |      | 22.0 |   |      |      |
| 234 | 4      | 0.00    |      |      | 20.9 |   |      |      |
| 235 | 3      | -0.61   |      |      | 20.0 |   |      |      |
| 236 | 4      | -0.27   |      |      | 20.5 |   |      |      |
| 240 | 2      | -1.28   |      |      | 19.0 |   |      |      |
| 241 | 2      | 1.42    | 23.0 |      |      |   |      |      |
| 244 | 0      | 6.61    |      |      |      |   |      | 30.7 |
| 245 | 0      | 2.77    |      | 25.0 |      |   |      |      |
| 255 | 4      | -0.09   |      |      | 20.8 |   |      |      |
| 257 | 0      | -2.63   | 17.0 |      |      |   |      |      |
| 265 | 2      | 1.15    |      |      |      |   | 22.6 |      |
| 273 | 0      | 2.83    |      |      | 25.1 |   |      |      |
| 274 | 0      | -8.73   |      | 8.0  |      |   |      |      |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Mo (Molybdenum)  $\mu\text{g/L}$



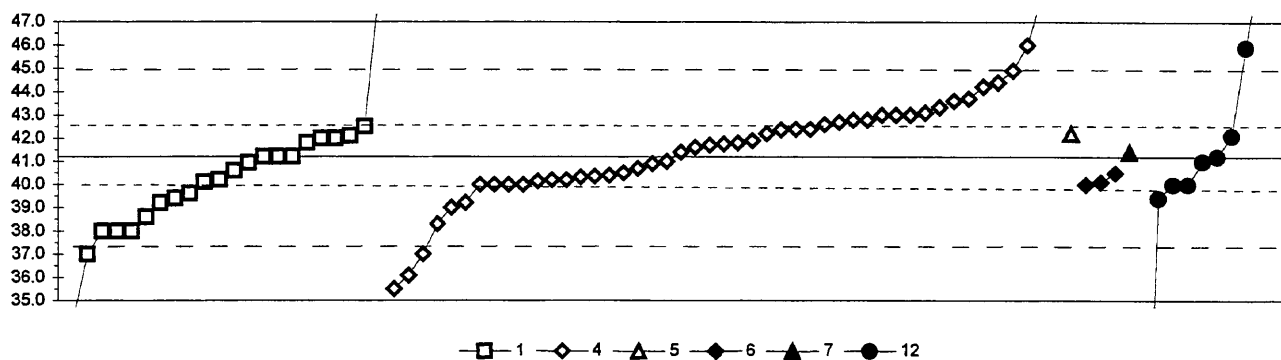
|                             |                             |
|-----------------------------|-----------------------------|
| 2. AA: direct nitrous oxide | 6. ICP/MS                   |
| 3. AA: graphite furnace     |                             |
| 4. ICP                      |                             |
|                             | N = 1 10 20 12              |
|                             | Minimum = 72.0 8.2 5.0 8.2  |
|                             | Maximum = 12.2 20.1 10.0    |
|                             | Median = 9.8 9.0 9.0        |
|                             | F-pseudosigma = 1.7 2.2 0.7 |

MPV = 9.23  
F-pseudosigma = 1.29  
N = 43  
Hu = 10.00  
Hi = 8.27

| Lab | Rating | Z-value | 2     | 3     | 4     | 6     |
|-----|--------|---------|-------|-------|-------|-------|
| 1   | 4      | -0.44   |       | 8.67  |       |       |
| 3   | 0      | -2.51   |       |       | 6.00  |       |
| 5   | NR     |         |       |       | < 10  |       |
| 7   | NR     |         |       |       | < 15  |       |
| 11  | 3      | 0.60    |       |       | 10.00 |       |
| 15  | 0      | 8.45    |       |       | 20.10 |       |
| 16  | 4      | -0.26   |       |       |       | 8.90  |
| 18  | NR     |         |       |       | < 20  |       |
| 23  | NR     |         | < 100 |       |       |       |
| 26  | 3      | 0.52    |       |       | 9.90  |       |
| 28  | 0      | -2.20   |       |       | 6.40  |       |
| 30  | 4      | 0.13    |       |       | 9.40  |       |
| 32  | 3      | -0.82   |       |       |       | 8.18  |
| 40  | 3      | 0.52    |       |       | 9.90  |       |
| 42  | 3      | 0.60    |       |       |       | 10.00 |
| 48  | 4      | 0.05    |       | 9.30  |       |       |
| 68  | 2      | -1.50   |       |       | 7.30  |       |
| 70  | NR     |         |       |       | < 50  |       |
| 75  | NR     |         |       |       | < 10  |       |
| 86  | 0      | 6.59    |       |       | 17.70 |       |
| 87  | 2      | 1.38    |       | 11.00 |       |       |
| 97  | 4      | 0.27    |       | 9.58  |       |       |
| 105 | 4      | 0.12    |       |       |       | 9.38  |
| 109 | 3      | -0.80   |       | 8.20  |       |       |
| 119 | 3      | -0.70   |       |       |       | 8.33  |
| 128 | 0      | -2.90   |       |       | 5.50  |       |
| 132 | 0      | 2.15    |       |       | 12.00 |       |
| 134 | 4      | -0.43   |       |       | 8.68  |       |
| 138 | 3      | -0.65   |       |       |       | 8.39  |
| 141 | NR     |         |       |       | < 10  |       |
| 142 | 4      | 0.06    |       |       |       | 9.31  |
| 145 | 2      | -1.27   |       |       | 7.60  |       |
| 146 | NR     |         |       |       | < 10  |       |
| 149 | 3      | 0.60    |       | 10.00 |       |       |
| 151 | 4      | -0.10   |       |       |       | 9.10  |
| 180 | 3      | 0.99    |       |       | 10.50 |       |
| 191 | 4      | 0.05    |       |       |       | 9.30  |
| 196 | 3      | -0.54   |       |       |       | 8.54  |
| 212 | 3      | -0.65   |       |       |       | 8.40  |
| 215 | 3      | -0.65   |       |       | 8.40  |       |
| 217 | 1      | -1.58   |       |       | 7.20  |       |
| 219 | 0      | -3.29   |       |       | 5.00  |       |
| 221 | 3      | -0.81   |       | 8.19  |       |       |
| 224 | 0      | 2.93    |       |       | 13.00 |       |
| 234 | 2      | 1.14    |       | 10.70 |       |       |
| 235 | 3      | -0.96   |       |       | 8.00  |       |
| 236 | NR     |         |       |       | < 11  |       |
| 241 | 1      | 1.69    |       | 11.40 |       |       |
| 245 | 0      | 2.31    |       | 12.20 |       |       |
| 255 | 4      | 0.00    |       |       | 9.23  |       |

| Lab | Rating | Z-value | 2     | 3 | 4 | 6    |
|-----|--------|---------|-------|---|---|------|
| 257 | 0      | 48.81   | 72.00 |   |   |      |
| 265 | 4      | -0.18   |       |   |   | 9.00 |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)--Continued  
Na (Sodium) mg/L



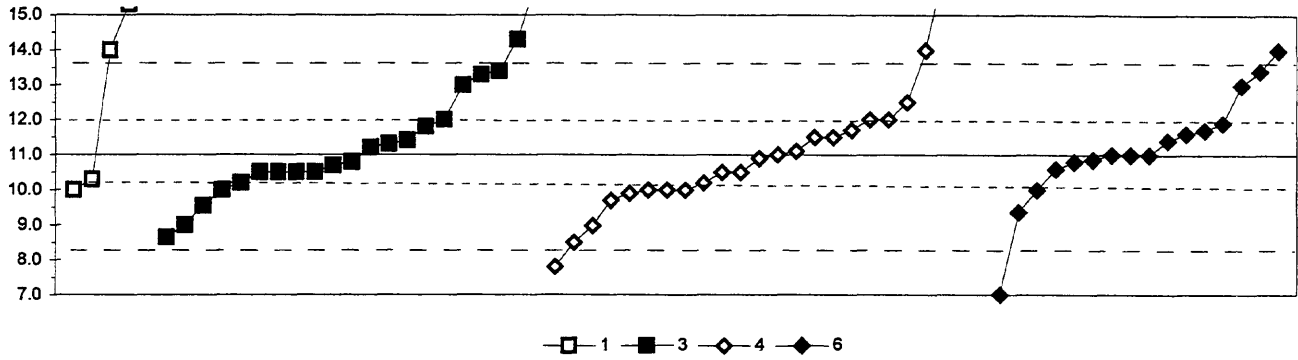
|                     |                       |
|---------------------|-----------------------|
| 1. AA: direct air   | 6. ICP/MS             |
| 4. ICP              | 7. Ion chromatography |
| 5. DCP              | 12. Flame emission    |
| N = 22              | 47                    |
| Minimum = 34.0      | 35.5                  |
| Maximum = 48.5      | 53.1                  |
| Median = 40.4       | 41.8                  |
| F-pseudosigma = 2.4 | 2.1                   |

| Lab | Rating | Z-value | 1    | 4    | 5    | 6    | 7    | 12 |
|-----|--------|---------|------|------|------|------|------|----|
| 1   | 3      | -0.53   |      | 40.2 |      |      |      |    |
| 3   | 2      | 1.27    |      | 43.6 |      |      |      |    |
| 5   | 4      | 0.11    |      | 41.4 |      |      |      |    |
| 7   | 2      | 1.13    |      | 43.3 |      |      |      |    |
| 11  | 4      | -0.26   |      | 40.7 |      |      |      |    |
| 13  | 2      | 1.32    |      | 43.7 |      |      |      |    |
| 15  | 1      | -1.53   |      | 38.3 |      |      |      |    |
| 16  | 3      | -0.53   |      | 40.2 |      |      |      |    |
| 18  | 3      | -0.63   |      | 40.0 |      |      |      |    |
| 19  | 4      | 0.37    |      | 41.9 |      |      |      |    |
| 23  | 2      | -1.38   | 38.6 |      |      |      |      |    |
| 24  | 4      | -0.37   |      | 40.5 |      |      |      |    |
| 25  | 0      | 2.54    |      | 46.0 |      |      |      |    |
| 26  | 3      | 0.85    |      | 42.8 |      |      |      |    |
| 28  | 0      | 6.30    |      | 53.1 |      |      |      |    |
| 32  | 4      | -0.37   |      |      |      | 40.5 |      |    |
| 33  | 3      | 0.53    |      |      | 42.2 |      |      |    |
| 36  | 1      | -1.69   | 38.0 |      |      |      |      |    |
| 40  | 3      | -0.63   |      | 40.0 |      |      |      |    |
| 42  | 4      | -0.11   |      | 41.0 |      |      |      |    |
| 43  | 3      | 0.95    |      | 43.0 |      |      |      |    |
| 46  | 3      | 0.74    |      | 42.6 |      |      |      |    |
| 48  | 3      | 0.79    |      | 42.7 |      |      |      |    |
| 51  | 4      | -0.11   |      |      |      |      | 41.0 |    |
| 59  | 3      | -0.63   |      | 40.0 |      |      |      |    |
| 68  | 3      | 0.95    |      | 43.0 |      |      |      |    |
| 69  | 4      | 0.00    |      |      |      |      | 41.2 |    |
| 70  | 4      | 0.32    |      | 41.8 |      |      |      |    |
| 75  | 3      | 0.69    | 42.5 |      |      |      |      |    |
| 81  | 3      | -0.63   |      |      | 40.0 |      |      |    |
| 83  | 4      | -0.45   |      | 40.4 |      |      |      |    |
| 85  | 4      | 0.48    | 42.1 |      |      |      |      |    |
| 86  | 3      | 0.85    |      | 42.8 |      |      |      |    |
| 87  | 3      | -0.85   | 39.6 |      |      |      |      |    |
| 89  | 3      | -0.58   | 40.1 |      |      |      |      |    |
| 97  | 4      | 0.32    | 41.8 |      |      |      |      |    |
| 102 | 0      | -2.22   |      | 37.0 |      |      |      |    |
| 105 | 3      | 0.53    |      | 42.2 |      |      |      |    |
| 107 | 3      | -0.53   | 40.2 |      |      |      |      |    |
| 109 | 4      | 0.00    | 41.2 |      |      |      |      |    |
| 113 | 0      | -3.02   |      | 35.5 |      |      |      |    |
| 114 | 0      | -3.81   | 34.0 |      |      |      |      |    |
| 119 | 2      | 1.01    |      | 43.1 |      |      |      |    |
| 121 | 2      | -1.16   |      | 39.0 |      |      |      |    |
| 128 | 4      | -0.42   |      | 40.4 |      |      |      |    |
| 129 | 4      | 0.42    | 42.0 |      |      |      |      |    |
| 132 | 3      | 0.61    |      | 42.4 |      |      |      |    |
| 134 | 4      | 0.00    | 41.2 |      |      |      |      |    |
| 138 | 4      | 0.21    |      | 41.6 |      |      |      |    |
| 140 | 0      | 3.86    | 48.5 |      |      |      |      |    |

MPV = 41.2  
F-pseudosigma = 1.9  
N = 84  
Hu = 42.6  
HI = 40.0

| Lab | Rating | Z-value | 1    | 4    | 5 | 6    | 7    | 12   |
|-----|--------|---------|------|------|---|------|------|------|
| 141 | 3      | 0.95    |      | 43.0 |   |      |      |      |
| 142 | 4      | 0.30    |      | 41.8 |   |      |      |      |
| 145 | 1      | 1.59    |      | 44.2 |   |      |      |      |
| 146 | 3      | 0.63    |      | 42.4 |   |      |      |      |
| 180 | 4      | 0.26    |      | 41.7 |   |      |      |      |
| 190 | 4      | 0.11    |      |      |   |      | 41.4 |      |
| 191 | 3      | -0.58   |      |      |   | 40.1 |      |      |
| 193 | 2      | -1.06   | 39.2 |      |   |      |      |      |
| 203 | 3      | -0.95   | 39.4 |      |   |      |      |      |
| 204 | 3      | -0.95   |      |      |   |      |      | 39.4 |
| 212 | 1      | 1.69    |      | 44.4 |   |      |      |      |
| 215 | 3      | 0.63    |      | 42.4 |   |      |      |      |
| 217 | 4      | -0.16   |      | 40.9 |   |      |      |      |
| 218 | 1      | -1.69   | 38.0 |      |   |      |      |      |
| 219 | 3      | -0.63   |      | 40.0 |   |      |      |      |
| 220 | 1      | -1.69   | 38.0 |      |   |      |      |      |
| 221 | 4      | 0.00    | 41.2 |      |   |      |      |      |
| 224 | 0      | -2.71   |      | 36.1 |   |      |      |      |
| 234 | 2      | -1.06   |      | 39.2 |   |      |      |      |
| 235 | 0      | 3.60    |      | 48.0 |   |      |      |      |
| 236 | 4      | -0.46   |      | 40.3 |   |      |      |      |
| 241 | 0      | -2.22   | 37.0 |      |   |      |      |      |
| 249 | 4      | 0.48    |      |      |   |      |      | 42.1 |
| 255 | 3      | -0.56   |      | 40.2 |   |      |      |      |
| 257 | 3      | -0.63   |      |      |   |      |      | 40.0 |
| 259 | 4      | 0.42    | 42.0 |      |   |      |      |      |
| 261 | 0      | 2.49    |      |      |   |      |      | 45.9 |
| 265 | 4      | -0.32   | 40.6 |      |   |      |      |      |
| 268 | 4      | -0.13   | 41.0 |      |   |      |      |      |
| 270 | 0      | 4.35    |      |      |   |      |      | 49.4 |
| 271 | 3      | -0.63   |      |      |   |      |      | 40.0 |
| 272 | 0      | 4.66    |      |      |   |      |      | 50.0 |
| 273 | 1      | 1.96    |      | 44.9 |   |      |      |      |
| 274 | 0      | -9.92   |      |      |   |      |      | 22.4 |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Ni (Nickel)  $\mu\text{g/L}$



|                         |                               |
|-------------------------|-------------------------------|
| 1. AA: direct air       | 6. ICP/MS                     |
| 3. AA: graphite furnace |                               |
| 4. ICP                  |                               |
|                         | N = 5 21 24 16                |
|                         | Minimum = 10.0 8.7 7.8 7.0    |
|                         | Maximum = 70.0 16.0 23.0 14.0 |
|                         | Median = 10.8 11.0 11.0       |
|                         | F-pseudosigma = 1.1 1.5 0.8   |

MPV = 11.0  
F-pseudosigma = 1.3  
N = 66  
Hu = 12.0  
Hi = 10.2

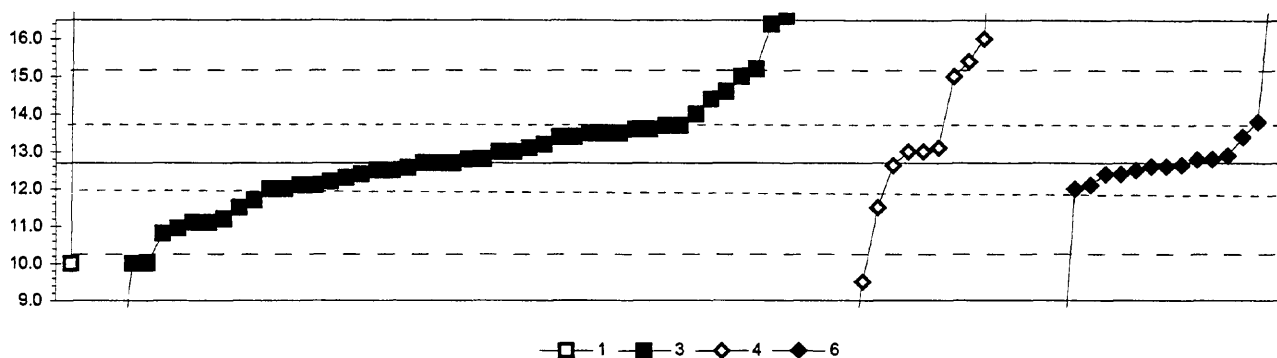
| Lab | Rating | Z-value | 1    | 3    | 4    | 6    |
|-----|--------|---------|------|------|------|------|
| 1   | 4      | -0.10   |      |      |      | 10.9 |
| 3   | 0      | -2.40   |      |      | 7.8  |      |
| 4   | 3      | -0.75   |      |      | 10.0 |      |
| 5   | NR     |         |      |      | < 10 |      |
| 7   | NR     |         |      |      | < 20 |      |
| 11  | 3      | -0.75   |      |      | 10.0 |      |
| 13  | 4      | -0.37   |      |      | 10.5 |      |
| 15  | 2      | 1.50    |      | 13.0 |      |      |
| 16  | 1      | 1.80    |      |      |      | 13.4 |
| 18  | NR     |         |      |      | < 25 |      |
| 23  | 3      | 0.60    |      | 11.8 |      |      |
| 26  | 4      | -0.15   |      | 10.8 |      |      |
| 28  | 0      | 4.72    |      |      | 17.3 |      |
| 30  | 4      | 0.37    |      |      | 11.5 |      |
| 32  | 4      | 0.00    |      |      |      | 11.0 |
| 36  | 2      | -1.50   |      | 9.0  |      |      |
| 42  | 2      | 1.50    |      |      |      | 13.0 |
| 48  | 4      | 0.30    |      | 11.4 |      |      |
| 58  | 0      | 44.22   | 70.0 |      |      |      |
| 59  | 4      | 0.30    |      |      |      | 11.4 |
| 68  | 1      | -1.87   |      |      | 8.5  |      |
| 69  | 2      | -1.09   |      | 9.6  |      |      |
| 70  | NR     |         |      |      | < 50 |      |
| 73  | 3      | -0.75   |      |      | 10.0 |      |
| 75  | NR     |         |      |      | < 20 |      |
| 76  | 3      | 0.52    |      |      |      | 11.7 |
| 81  | 0      | -3.00   |      |      |      | 7.0  |
| 83  | 4      | -0.37   |      |      | 10.5 |      |
| 85  | NR     |         |      |      | < 10 |      |
| 86  | 1      | -1.51   |      |      | 9.0  |      |
| 87  | 0      | 3.22    | 15.3 |      |      |      |
| 89  | 4      | 0.22    |      | 11.3 |      |      |
| 96  | 4      | -0.37   |      | 10.5 |      |      |
| 97  | 4      | -0.37   |      | 10.5 |      |      |
| 102 | 4      | 0.00    |      |      |      | 11.0 |
| 105 | 4      | -0.15   |      |      |      | 10.8 |
| 113 | 4      | 0.37    |      |      | 11.5 |      |
| 114 | NR     |         | < 10 |      |      |      |
| 118 | 1      | 1.80    |      | 13.4 |      |      |
| 119 | 0      | 2.47    |      | 14.3 |      |      |
| 128 | 4      | 0.00    |      |      |      | 11.0 |
| 132 | 0      | 2.25    |      |      | 14.0 |      |
| 133 | 3      | -0.82   |      |      | 9.9  |      |
| 134 | 4      | -0.37   |      | 10.5 |      |      |
| 138 | 2      | -1.23   |      |      |      | 9.4  |
| 140 | 3      | -0.75   | 10.0 |      |      |      |
| 141 | NR     |         |      |      | < 20 |      |
| 142 | 4      | 0.00    |      |      |      | 11.0 |
| 145 | 0      | 4.05    |      |      | 16.4 |      |
| 146 | NR     |         |      |      | < 40 |      |

| Lab | Rating | Z-value | 1    | 3    | 4    | 6    |
|-----|--------|---------|------|------|------|------|
| 149 | 3      | -0.75   |      | 10.0 |      |      |
| 151 | 4      | 0.45    |      |      |      | 11.6 |
| 158 | 2      | 1.12    |      |      | 12.5 |      |
| 180 | 4      | 0.07    |      |      | 11.1 |      |
| 190 | 4      | 0.15    |      | 11.2 |      |      |
| 191 | 3      | 0.67    |      |      |      | 11.9 |
| 193 | NR     |         | < 50 |      |      |      |
| 196 | 4      | -0.30   |      |      |      | 10.6 |
| 212 | 0      | 2.25    |      |      |      | 14.0 |
| 213 | 3      | -0.52   | 10.3 |      |      |      |
| 215 | 3      | 0.75    |      | 12.0 |      |      |
| 219 | 3      | -0.97   |      |      | 9.7  |      |
| 221 | 3      | -0.60   |      | 10.2 |      |      |
| 224 | 4      | -0.07   |      |      | 10.9 |      |
| 234 | 1      | 1.72    |      | 13.3 |      |      |
| 235 | 3      | 0.75    |      |      | 12.0 |      |
| 236 | 3      | -0.60   |      |      | 10.2 |      |
| 240 | 0      | 8.99    |      |      | 23.0 |      |
| 241 | 4      | -0.37   |      | 10.5 |      |      |
| 245 | 4      | -0.22   |      | 10.7 |      |      |
| 249 | 1      | -1.76   |      | 8.7  |      |      |
| 255 | 3      | 0.52    |      |      | 11.7 |      |
| 257 | 0      | 2.25    | 14.0 |      |      |      |
| 259 | 0      | 3.75    |      | 16.0 |      |      |
| 265 | 3      | -0.75   |      |      |      | 10.0 |
| 273 | 3      | 0.75    |      |      | 12.0 |      |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued

Pb (Lead)

µg/L



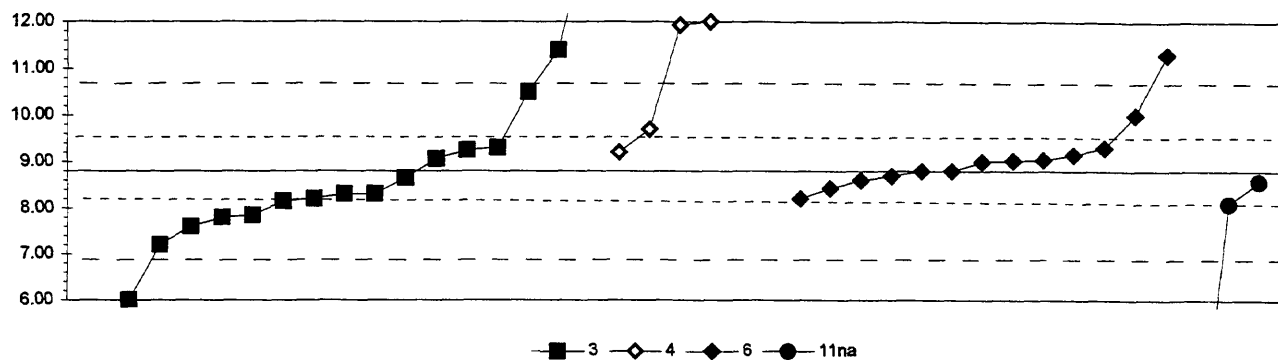
|                         |           |      |       |      |
|-------------------------|-----------|------|-------|------|
| 1. AA: direct air       | 6. ICP/MS |      |       |      |
| 3. AA: graphite furnace |           |      |       |      |
| 4. ICP                  |           |      |       |      |
| N =                     | 2         | 47   | 16    | 15   |
| Minimum =               | 10.0      | 1.3  | 5.6   | 6.0  |
| Maximum =               | 49.0      | 42.0 | 115.0 | 18.0 |
| Median =                | 12.7      | 13.1 | 12.6  |      |
| F-pseudosigma =         | 1.2       | 6.2  | 0.3   |      |

MPV = 12.7  
 F-pseudosigma = 1.2  
 N = 80  
 Hu = 13.7  
 HI = 12.0

| Lab | Rating | Z-value | 1    | 3    | 4    | 6 |
|-----|--------|---------|------|------|------|---|
| 1   | 4      | -0.14   | 12.6 |      |      |   |
| 3   | 0      | -5.51   |      | 6.0  |      |   |
| 4   | 4      | 0.21    |      | 13.0 |      |   |
| 5   | 3      | 0.62    | 13.5 |      |      |   |
| 7   | NR     |         |      | < 55 |      |   |
| 10  | 4      | -0.04   | 12.7 |      |      |   |
| 11  | 4      | 0.21    |      | 13.0 |      |   |
| 13  | 3      | 0.62    | 13.5 |      |      |   |
| 15  | 1      | 2.01    | 15.2 |      |      |   |
| 16  | 3      | 0.54    |      |      | 13.4 |   |
| 18  | 4      | -0.04   | 12.7 |      |      |   |
| 19  | 4      | 0.37    | 13.2 |      |      |   |
| 23  | 2      | -1.34   | 11.1 |      |      |   |
| 26  | 1      | -1.59   | 10.8 |      |      |   |
| 28  | 0      | -2.65   |      | 9.5  |      |   |
| 30  | 2      | -1.02   |      | 11.5 |      |   |
| 32  | 4      | -0.12   |      |      | 12.6 |   |
| 34  | 3      | 0.54    | 13.4 |      |      |   |
| 36  | 1      | 1.84    | 15.0 |      |      |   |
| 42  | 0      | -5.51   |      |      | 6.0  |   |
| 46  | 3      | 0.78    | 13.7 |      |      |   |
| 48  | 4      | 0.21    | 13.0 |      |      |   |
| 58  | 0      | 23.92   | 42.0 |      |      |   |
| 59  | 4      | -0.28   |      |      | 12.4 |   |
| 68  | 0      | 3.15    | 16.6 |      |      |   |
| 69  | 3      | -0.61   | 12.0 |      |      |   |
| 70  | 4      | 0.04    | 12.8 |      |      |   |
| 73  | 0      | 2.66    |      | 16.0 |      |   |
| 75  | 4      | -0.20   | 12.5 |      |      |   |
| 76  | 3      | -0.53   |      |      | 12.1 |   |
| 80  | 3      | -0.85   | 11.7 |      |      |   |
| 81  | 4      | 0.21    | 13.0 |      |      |   |
| 83  | 4      | -0.28   | 12.4 |      |      |   |
| 85  | NR     |         | < 50 |      |      |   |
| 86  | 3      | 0.54    | 13.4 |      |      |   |
| 87  | 2      | -1.26   | 11.2 |      |      |   |
| 89  | 3      | -0.53   | 12.1 |      |      |   |
| 96  | 4      | 0.29    | 13.1 |      |      |   |
| 97  | 4      | -0.04   | 12.7 |      |      |   |
| 102 | 1      | 1.84    |      | 15.0 |      |   |
| 105 | 3      | 0.86    |      |      | 13.8 |   |
| 109 | 0      | -2.24   | 10.0 |      |      |   |
| 113 | 4      | -0.45   | 12.2 |      |      |   |
| 114 | NR     |         | < 10 |      |      |   |
| 118 | 4      | -0.20   | 12.5 |      |      |   |
| 119 | 2      | -1.02   | 11.5 |      |      |   |
| 128 | 4      | 0.13    |      |      | 12.9 |   |
| 132 | 0      | 7.98    |      | 22.5 |      |   |
| 133 | 0      | 7.32    |      | 21.7 |      |   |
| 134 | 4      | -0.09   |      | 12.6 |      |   |

| Lab | Rating | Z-value | 1    | 3      | 4     | 6    |
|-----|--------|---------|------|--------|-------|------|
| 138 | 3      | -0.61   |      |        |       | 12.0 |
| 140 | 0      | -2.24   | 10.0 |        |       |      |
| 141 | 3      | 0.70    |      | 13.6   |       |      |
| 142 | 4      | -0.08   |      |        |       | 12.7 |
| 145 | 0      | 83.60   |      |        | 115.0 |      |
| 146 | 0      | 2.17    |      |        | 15.4  |      |
| 149 | 3      | -0.61   |      | 12.0   |       |      |
| 151 | 4      | 0.04    |      |        |       | 12.8 |
| 158 | 0      | -5.02   |      | 6.6    |       |      |
| 180 | NR     |         |      | < 27.2 |       |      |
| 190 | 2      | -1.34   |      | 11.1   |       |      |
| 191 | 4      | 0.04    |      |        |       | 12.8 |
| 193 | 2      | 1.03    |      | 14.0   |       |      |
| 196 | 4      | -0.12   |      |        |       | 12.6 |
| 204 | 4      | -0.36   |      | 12.3   |       |      |
| 212 | 0      | 4.30    |      |        |       | 18.0 |
| 213 | 3      | 0.70    |      | 13.6   |       |      |
| 215 | 3      | 0.62    |      | 13.5   |       |      |
| 217 | 4      | -0.20   |      |        |       | 12.5 |
| 220 | 3      | -0.53   |      | 12.1   |       |      |
| 221 | 4      | 0.04    |      | 12.8   |       |      |
| 224 | 2      | -1.47   |      | 11.0   |       |      |
| 234 | 2      | 1.35    |      | 14.4   |       |      |
| 236 | 0      | -5.84   |      |        | 5.6   |      |
| 240 | 0      | 11.65   |      |        | 27.0  |      |
| 241 | 0      | 2.99    |      | 16.4   |       |      |
| 245 | 1      | 1.52    |      | 14.6   |       |      |
| 249 | 3      | 0.78    |      | 13.7   |       |      |
| 255 | 4      | 0.29    |      |        | 13.1  |      |
| 257 | 0      | 29.64   | 49.0 |        |       |      |
| 259 | 0      | -2.24   |      | 10.0   |       |      |
| 265 | 4      | -0.28   |      |        |       | 12.4 |
| 273 | 0      | -4.70   |      |        | 7.0   |      |
| 274 | 0      | -9.35   |      | 1.3    |       |      |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Sb (Antimony)  $\mu\text{g/L}$

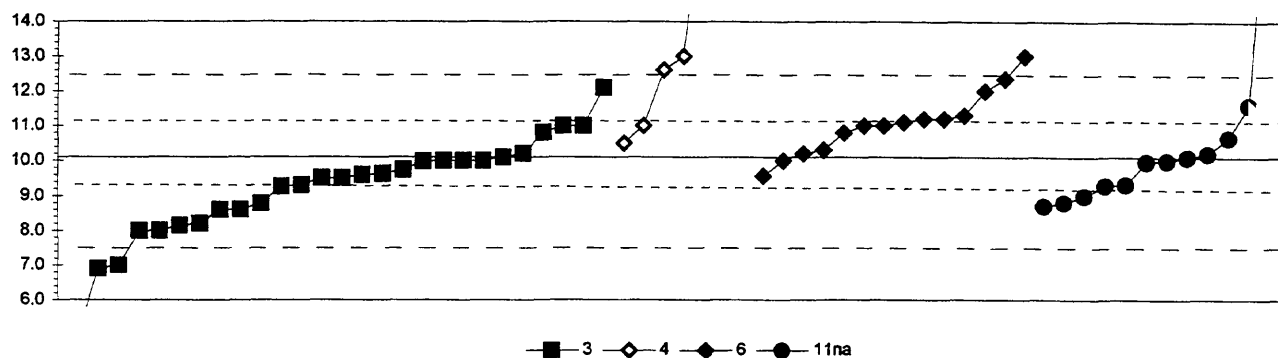


|                         |                                     |       |       |      |
|-------------------------|-------------------------------------|-------|-------|------|
| 3. AA: graphite furnace | 11na. AA: Hydride NaBH <sub>4</sub> |       |       |      |
| 4. ICP                  |                                     |       |       |      |
| 6. ICP/MS               |                                     |       |       |      |
| N =                     | 17                                  | 6     | 13    | 3    |
| Minimum =               | 5.13                                | 9.20  | 8.21  | 2.00 |
| Maximum =               | 14.00                               | 26.10 | 11.30 | 8.58 |
| Median =                | 8.30                                |       | 9.00  |      |
| F-pseudosigma =         | 1.07                                |       | 0.34  |      |

MPV = 8.80  
F-pseudosigma = 0.96  
N = 39  
Hu = 9.50  
Hi = 8.21

| Lab | Rating | Z-value | 3     | 4      | 6     | 11na |
|-----|--------|---------|-------|--------|-------|------|
| 1   | 4      | -0.16   | 8.65  |        |       |      |
| 3   | 0      | 3.33    |       | 12.00  |       |      |
| 5   | NR     |         |       | < 20   |       |      |
| 7   | NR     |         |       | < 30   |       |      |
| 11  | 3      | 0.94    |       | 9.70   |       |      |
| 13  | 2      | -1.04   | 7.80  |        |       |      |
| 15  | 4      | 0.47    | 9.25  |        |       |      |
| 16  | 4      | 0.00    |       |        | 8.80  |      |
| 18  | 1      | -1.67   | 7.20  |        |       |      |
| 26  | NR     |         |       | < 20   |       |      |
| 30  | 4      | 0.42    |       | 9.20   |       |      |
| 32  | 4      | -0.39   |       |        | 8.43  |      |
| 36  | 0      | -2.92   | 6.00  |        |       |      |
| 42  | 2      | 1.25    |       |        | 10.00 |      |
| 46  | 3      | 0.52    | 9.30  |        |       |      |
| 48  | 2      | -1.25   | 7.60  |        |       |      |
| 59  | 3      | 0.52    |       |        | 9.30  |      |
| 68  | 3      | -0.99   | 7.85  |        |       |      |
| 69  | 3      | -0.68   | 8.15  |        |       |      |
| 70  | 0      | 2.71    | 11.40 |        |       |      |
| 75  | NR     |         |       | < 50   |       |      |
| 81  | 0      | -2.92   |       |        | < 6   |      |
| 89  | 3      | -0.52   | 8.30  |        |       |      |
| 96  | 3      | -0.63   | 8.20  |        |       |      |
| 97  | 4      | 0.27    | 9.06  |        |       |      |
| 102 | 0      | -8.13   |       | < 1    |       |      |
| 105 | 4      | 0.24    |       |        | 9.03  |      |
| 119 | 3      | -0.73   |       |        |       | 8.10 |
| 128 | 4      | 0.36    |       |        | 9.15  |      |
| 134 | 4      | -0.23   |       |        |       | 8.58 |
| 138 | 4      | 0.00    |       |        | 8.80  |      |
| 141 | 0      | -3.82   | 5.13  |        |       |      |
| 142 | 0      | 2.60    |       |        | 11.30 |      |
| 146 | NR     |         |       | < 20   |       |      |
| 151 | 4      | 0.25    |       |        | 9.04  |      |
| 180 | NR     |         |       | < 31.4 |       |      |
| 193 | NR     |         | < 10  |        |       |      |
| 196 | 3      | -0.61   |       |        | 8.21  |      |
| 212 | 4      | -0.21   |       |        | 8.60  |      |
| 215 | 0      | 5.42    | 14.00 |        |       |      |
| 217 | 4      | -0.11   |       |        | 8.69  |      |
| 234 | 1      | 1.77    | 10.50 |        |       |      |
| 236 | 0      | 18.02   |       | 26.10  |       |      |
| 240 | 0      | 5.42    |       | 14.00  |       |      |
| 241 | 3      | -0.52   | 8.30  |        |       |      |
| 255 | 0      | 3.26    |       | 11.93  |       |      |
| 257 | 0      | -7.08   |       |        |       | 2.00 |
| 265 | 4      | 0.21    |       |        | 9.00  |      |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Se (Selenium)  $\mu\text{g/L}$



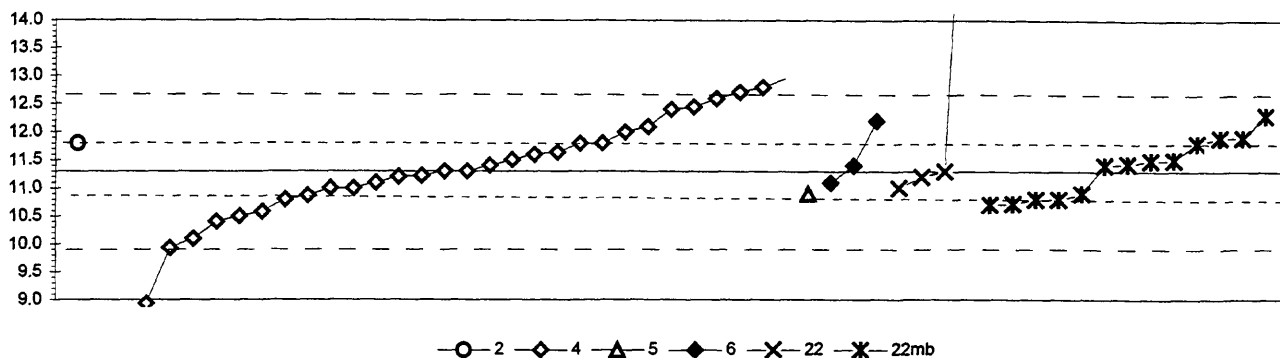
|                         |                 |                                     |       |      |      |
|-------------------------|-----------------|-------------------------------------|-------|------|------|
| 3. AA: graphite furnace |                 | 11na. AA: Hydride NaBH <sub>4</sub> |       |      |      |
| 4. ICP                  |                 |                                     |       |      |      |
| 6. ICP/MS               |                 |                                     |       |      |      |
|                         | N =             | 27                                  | 7     | 14   | 12   |
|                         | Minimum =       | 5.0                                 | 10.5  | 9.6  | 8.7  |
|                         | Maximum =       | 12.1                                | 128.3 | 13.0 | 19.2 |
|                         | Median =        | 9.5                                 | 13.0  | 11.1 | 10.0 |
|                         | F-pseudosigma = | 1.2                                 | 0.0   | 0.7  | 0.9  |

MPV = 10.1  
F-pseudosigma = 1.3  
N = 60  
Hu = 11.1  
HI = 9.3

| Lab | Rating | Z-value | 3      | 4    | 6    | 11na |
|-----|--------|---------|--------|------|------|------|
| 1   | 4      | -0.06   |        |      |      | 10.0 |
| 3   | NR     |         |        | < 10 |      |      |
| 5   | 4      | -0.05   | 10.0   |      |      |      |
| 7   | NR     |         |        | < 50 |      |      |
| 10  | 3      | -0.81   |        |      |      | 9.0  |
| 11  | 1      | 1.97    |        | 12.6 |      |      |
| 13  | 2      | -1.43   | 8.2    |      |      |      |
| 15  | 1      | 1.58    | 12.1   |      |      |      |
| 16  | 4      | -0.04   |        |      | 10.0 |      |
| 18  | 4      | 0.04    | 10.1   |      |      |      |
| 23  | 3      | -0.56   |        |      |      | 9.3  |
| 26  | 3      | -0.96   |        |      |      | 8.8  |
| 30  | 3      | 0.73    |        | 11.0 |      |      |
| 32  | 4      | 0.19    |        |      | 10.3 |      |
| 34  | 4      | 0.12    |        |      |      | 10.2 |
| 36  | 1      | -1.58   | 8.0    |      |      |      |
| 42  | 0      | 2.27    |        |      | 13.0 |      |
| 46  | 4      | -0.42   | 9.5    |      |      |      |
| 48  | 2      | -1.12   | 8.6    |      |      |      |
| 58  | NR     |         | < 10   |      |      |      |
| 59  | 3      | 0.73    |        |      | 11.0 |      |
| 68  | 0      | -2.43   | 6.9    |      |      |      |
| 69  | 4      | 0.12    | 10.2   |      |      |      |
| 70  | 3      | 0.73    | 11.0   |      |      |      |
| 73  | 0      | 17.69   |        | 33.0 |      |      |
| 75  | 4      | 0.04    |        |      |      | 10.1 |
| 80  | 3      | -0.58   | 9.3    |      |      |      |
| 86  | 2      | 1.19    |        |      |      | 11.6 |
| 87  | 0      | 7.05    |        |      |      | 19.2 |
| 89  | 3      | -0.58   |        |      |      | 9.3  |
| 96  | 4      | -0.04   | 10.0   |      |      |      |
| 97  | 3      | -0.98   | 8.8    |      |      |      |
| 102 | 0      | 2.27    |        | 13.0 |      |      |
| 105 | 3      | 0.96    |        |      | 11.3 |      |
| 113 | 4      | -0.42   | 9.5    |      |      |      |
| 118 | 4      | -0.35   | 9.6    |      |      |      |
| 119 | 4      | -0.04   |        |      |      | 10.0 |
| 128 | 3      | 0.89    |        |      | 11.2 |      |
| 133 | 3      | 0.58    | 10.8   |      |      |      |
| 134 | 4      | 0.47    |        |      |      | 10.7 |
| 138 | 4      | -0.37   |        |      | 9.6  |      |
| 141 | 3      | -0.61   | 9.3    |      |      |      |
| 142 | 3      | 0.58    |        |      | 10.8 |      |
| 144 | 4      | -0.04   | 10.0   |      |      |      |
| 146 | NR     |         | < 10   |      |      |      |
| 149 | 4      | -0.04   | 10.0   |      |      |      |
| 151 | 3      | 0.89    |        |      | 11.2 |      |
| 180 | NR     |         | < 50.1 |      |      |      |
| 190 | 3      | 0.73    | 11.0   |      |      |      |
| 191 | 2      | 1.50    |        |      | 12.0 |      |

| Lab | Rating | Z-value | 3   | 4     | 6    | 11na |
|-----|--------|---------|-----|-------|------|------|
| 193 | 1      | -1.58   | 8.0 |       |      |      |
| 196 | 3      | 0.81    |     |       | 11.1 |      |
| 212 | 3      | 0.73    |     |       | 11.0 |      |
| 215 | 0      | -3.89   | 5.0 |       |      |      |
| 217 | 4      | 0.12    |     |       | 10.2 |      |
| 220 | 2      | -1.12   | 8.6 |       |      |      |
| 221 | 4      | -0.24   | 9.7 |       |      |      |
| 224 | 4      | 0.35    |     | 10.5  |      |      |
| 234 | 4      | -0.33   | 9.6 |       |      |      |
| 236 | 0      | 91.15   |     | 128.3 |      |      |
| 240 | 0      | 6.13    |     | 18.0  |      |      |
| 241 | 0      | -2.35   | 7.0 |       |      |      |
| 255 | 2      | -1.47   | 8.1 |       |      |      |
| 259 | 2      | -1.04   |     |       |      | 8.7  |
| 265 | 1      | 1.77    |     |       | 12.4 |      |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
SiO<sub>2</sub> (Silica) mg/L



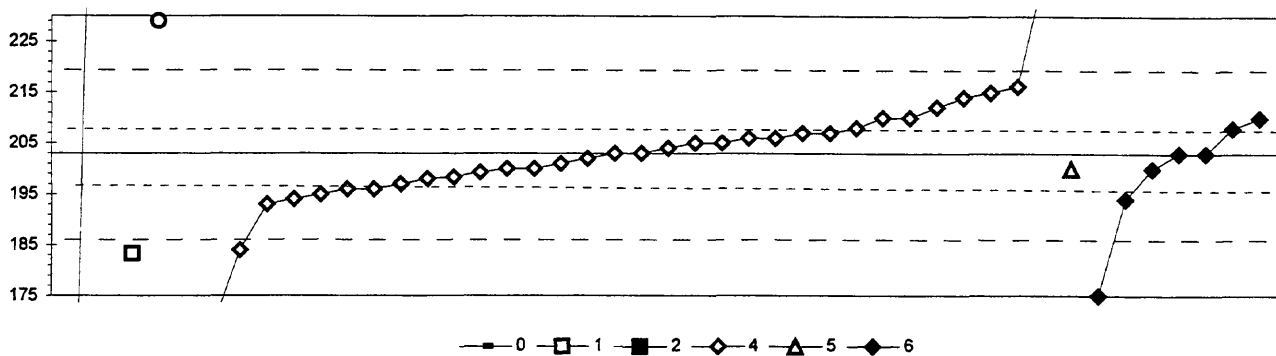
|                             |                              |
|-----------------------------|------------------------------|
| 2. AA: direct nitrous oxide | 6. ICP/MS                    |
| 4. ICP                      | 22. Colorimetric             |
| 5. DCP                      | 22mb. Color: molybdate blue  |
| N =                         | 1 31 1 3 4 13                |
| Minimum =                   | 11.8 5.7 10.9 11.1 11.0 10.7 |
| Maximum =                   | 227.0 12.2 19.2 12.3         |
| Median =                    | 11.3 11.4                    |
| F-pseudosigma =             | 0.9 0.7                      |

MPV = 11.3  
F-pseudosigma = 0.7  
N = 53  
Hu = 11.8  
Hi = 10.9

| Lab | Rating | Z-value | 2    | 4    | 5    | 6    | 22 | 22mb |
|-----|--------|---------|------|------|------|------|----|------|
| 1   | 2      | -1.04   |      | 10.6 |      |      |    |      |
| 3   | 0      | -8.12   |      | 5.7  |      |      |    |      |
| 4   | 4      | 0.15    |      | 11.4 |      |      |    |      |
| 5   | 4      | -0.29   |      | 11.1 |      |      |    |      |
| 7   | 4      | 0.49    |      | 11.6 |      |      |    |      |
| 11  | 0      | -3.44   |      | 8.9  |      |      |    |      |
| 13  | 4      | -0.15   |      | 11.2 |      |      |    |      |
| 15  | 2      | 1.45    |      |      |      |      |    | 12.3 |
| 24  | 4      | 0.44    |      | 11.6 |      |      |    |      |
| 25  | 1      | 2.05    |      | 12.7 |      |      |    |      |
| 26  | 4      | 0.29    |      | 11.5 |      |      |    |      |
| 32  | 4      | 0.15    |      |      |      | 11.4 |    |      |
| 33  | 3      | -0.58   |      |      | 10.9 |      |    |      |
| 42  | 2      | 1.16    |      | 12.1 |      |      |    |      |
| 43  | 4      | -0.44   |      | 11.0 |      |      |    |      |
| 70  | 3      | -0.58   |      |      |      |      |    | 10.9 |
| 76  | 2      | 1.31    |      |      |      | 12.2 |    |      |
| 81  | 4      | 0.29    |      |      |      |      |    | 11.5 |
| 83  | 2      | -1.31   |      | 10.4 |      |      |    |      |
| 87  | 3      | 0.73    |      |      |      |      |    | 11.8 |
| 89  | 3      | -0.87   |      |      |      |      |    | 10.7 |
| 97  | 4      | 0.00    |      |      |      | 11.3 |    |      |
| 104 | 3      | -0.84   |      |      |      |      |    | 10.7 |
| 105 | 3      | -0.62   |      | 10.9 |      |      |    |      |
| 107 | 3      | 0.87    |      |      |      |      |    | 11.9 |
| 113 | 4      | -0.44   |      |      |      | 11.0 |    |      |
| 118 | 4      | 0.19    |      |      |      |      |    | 11.4 |
| 119 | 2      | 1.02    |      | 12.0 |      |      |    |      |
| 121 | 4      | 0.00    |      | 11.3 |      |      |    |      |
| 128 | 3      | 0.73    |      | 11.8 |      |      |    |      |
| 129 | 4      | 0.26    |      |      |      |      |    | 11.5 |
| 134 | 4      | -0.12   |      | 11.2 |      |      |    |      |
| 138 | 3      | -0.73   |      |      |      |      |    | 10.8 |
| 140 | 4      | -0.15   |      |      |      | 11.2 |    |      |
| 142 | 0      | 2.18    |      | 12.8 |      |      |    |      |
| 145 | 1      | 1.67    |      | 12.5 |      |      |    |      |
| 158 | 1      | 1.60    |      | 12.4 |      |      |    |      |
| 190 | 3      | 0.87    |      |      |      |      |    | 11.9 |
| 191 | 4      | -0.29   |      |      | 11.1 |      |    |      |
| 203 | 3      | -0.73   |      |      |      |      |    | 10.8 |
| 204 | 4      | 0.15    |      |      |      |      |    | 11.4 |
| 212 | 3      | 0.73    |      | 11.8 |      |      |    |      |
| 215 | 4      | 0.00    |      | 11.3 |      |      |    |      |
| 217 | 1      | -1.99   |      | 9.9  |      |      |    |      |
| 219 | 3      | -0.73   |      | 10.8 |      |      |    |      |
| 234 | 4      | -0.44   |      | 11.0 |      |      |    |      |
| 235 | 1      | 1.89    |      | 12.6 |      |      |    |      |
| 236 | 0      | -6.18   |      | 7.0  |      |      |    |      |
| 240 | 2      | -1.16   |      | 10.5 |      |      |    |      |
| 241 | 3      | 0.73    | 11.8 |      |      |      |    |      |

| Lab | Rating | Z-value | 2 | 4     | 5 | 6 | 22   | 22mb |
|-----|--------|---------|---|-------|---|---|------|------|
| 265 | 1      | -1.74   |   | 10.1  |   |   |      |      |
| 273 | 0      | 312.88  |   | 227.0 |   |   |      |      |
| 274 | 0      | 11.44   |   |       |   |   | 19.2 |      |

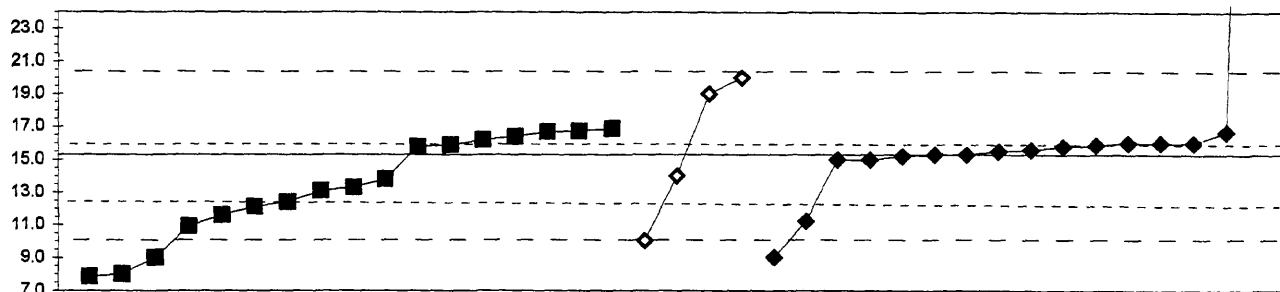
Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Sr (Strontium)  $\mu\text{g/L}$



|                             |                  |         |           |     |     |
|-----------------------------|------------------|---------|-----------|-----|-----|
| 0. Other                    |                  |         | 4. ICP    |     |     |
| 1. AA: direct air           |                  |         | 5. DCP    |     |     |
| 2. AA: direct nitrous oxide |                  |         | 6. ICP/MS |     |     |
|                             | N =              |         | 2         | 1   | 1   |
|                             | Minimum =        |         | 169       | 183 | 229 |
|                             | Maximum =        |         | 390       |     |     |
|                             | Median =         |         |           |     |     |
|                             | F-pseudostigma = |         |           |     |     |
| Lab                         | Rating           | Z-value | 0         | 1   | 2   |
| 1                           | 3                | -0.55   |           |     | 198 |
| 3                           | 4                | 0.47    |           |     | 207 |
| 4                           | 4                | 0.23    |           |     | 205 |
| 5                           | 4                | 0.23    |           |     | 205 |
| 7                           | 4                | 0.00    |           |     | 203 |
| 11                          | 4                | -0.12   |           |     | 202 |
| 16                          | 0                | -2.23   |           |     | 184 |
| 18                          | 4                | -0.35   |           |     | 200 |
| 24                          | 4                | 0.12    |           |     | 204 |
| 25                          | 2                | 1.41    |           |     | 215 |
| 28                          | 4                | 0.47    |           |     | 207 |
| 32                          | 4                | 0.00    |           |     | 203 |
| 33                          | 4                | -0.35   |           |     | 200 |
| 40                          | 0                | -3.99   |           |     | 169 |
| 42                          | 4                | -0.23   |           |     | 201 |
| 59                          | 4                | -0.35   |           |     | 200 |
| 68                          | 3                | 0.82    |           |     | 210 |
| 70                          | 4                | 0.35    |           |     | 206 |
| 81                          | 0                | -3.28   |           |     | 175 |
| 85                          | 2                | 1.29    |           |     | 214 |
| 86                          | 3                | -0.82   |           |     | 196 |
| 97                          | 0                | -3.99   | 169       |     |     |
| 102                         | 0                | 4.22    |           |     | 239 |
| 105                         | 2                | -1.06   |           |     | 194 |
| 109                         | 0                | -2.31   | 183       |     |     |
| 113                         | 4                | 0.00    |           |     | 203 |
| 121                         | 3                | -0.94   |           |     | 195 |
| 134                         | 3                | -0.82   |           |     | 196 |
| 138                         | 3                | -0.59   |           |     | 198 |
| 142                         | 2                | 1.07    |           |     | 212 |
| 145                         | 1                | 1.55    |           |     | 216 |
| 151                         | 3                | 0.59    |           |     | 208 |
| 190                         | 0                | 21.94   | 390       |     |     |
| 191                         | 4                | 0.00    |           |     | 203 |
| 196                         | 2                | -1.06   |           |     | 194 |
| 212                         | 3                | 0.82    |           |     | 210 |
| 217                         | 2                | -1.17   |           |     | 193 |
| 218                         | 0                | 3.05    | 229       |     |     |
| 219                         | 3                | 0.82    |           |     | 210 |
| 234                         | 4                | 0.35    |           |     | 206 |
| 235                         | 3                | 0.59    |           |     | 208 |
| 236                         | 4                | -0.43   |           |     | 199 |
| 240                         | 3                | -0.70   |           |     | 197 |
| 265                         | 4                | -0.35   |           |     | 200 |

MPV = 203  
F-pseudostigma = 9  
N = 44  
Hu = 208  
Hi = 197

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Tl (Thallium)  $\mu\text{g/L}$



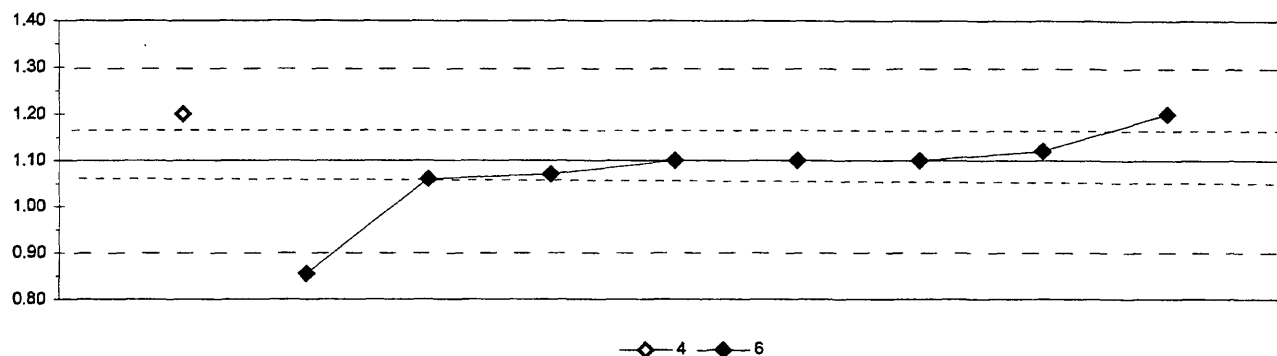
■ 3 —◇— 4 —◆— 6

|                         |                 |      |      |      |
|-------------------------|-----------------|------|------|------|
| 3. AA: graphite furnace |                 |      |      |      |
| 4. ICP                  |                 |      |      |      |
| 6. ICP/MS               |                 |      |      |      |
|                         | N =             | 17   | 4    | 16   |
|                         | Minimum =       | 7.9  | 10.0 | 9.0  |
|                         | Maximum =       | 16.9 | 20.0 | 84.0 |
|                         | Median =        | 13.3 |      | 15.6 |
|                         | F-pseudosigma = | 3.4  |      | 0.7  |

MPV = 15.3  
F-pseudosigma = 2.7  
N = 37  
Hu = 16.0  
Hi = 12.4

| Lab | Rating | Z-value | 3      | 4    | 6    |
|-----|--------|---------|--------|------|------|
| 1   | 3      | 0.54    | 16.7   |      |      |
| 3   | NR     |         |        | < 10 |      |
| 11  | 1      | 1.76    |        | 20.0 |      |
| 13  | 4      | 0.19    | 15.8   |      |      |
| 15  | 2      | -1.39   | 11.6   |      |      |
| 16  | 4      | 0.26    |        |      | 16.0 |
| 18  | 3      | -0.56   | 13.8   |      |      |
| 23  | 0      | -3.81   | < 5    |      |      |
| 32  | 4      | 0.11    |        |      | 15.6 |
| 36  | 0      | -2.74   | 8.0    |      |      |
| 42  | 0      | -2.36   |        |      | 9.0  |
| 46  | 4      | 0.34    | 16.2   |      |      |
| 48  | 2      | -1.20   | 12.1   |      |      |
| 59  | 4      | 0.07    |        |      | 15.5 |
| 69  | 4      | 0.41    | 16.4   |      |      |
| 70  | 3      | -0.75   | 13.3   |      |      |
| 76  | 1      | -1.54   |        |      | 11.2 |
| 81  | 0      | 25.74   |        |      | 84.0 |
| 89  | NR     |         | < 10   |      |      |
| 97  | 3      | 0.52    | 16.7   |      |      |
| 102 | 2      | 1.39    |        | 19.0 |      |
| 113 | 3      | -0.82   | 13.1   |      |      |
| 119 | 4      | 0.22    |        |      | 15.9 |
| 128 | 4      | 0.00    |        |      | 15.3 |
| 134 | 3      | 0.60    | 16.9   |      |      |
| 138 | 4      | -0.11   |        |      | 15.0 |
| 141 | NR     |         |        | < 50 |      |
| 142 | 3      | 0.52    |        |      | 16.7 |
| 146 | 4      | -0.49   |        | 14.0 |      |
| 151 | 4      | 0.26    |        |      | 16.0 |
| 180 | NR     |         | < 32.1 |      |      |
| 191 | 4      | 0.19    |        |      | 15.8 |
| 193 | 0      | -2.36   | 9.0    |      |      |
| 196 | 4      | 0.00    |        |      | 15.3 |
| 212 | 4      | 0.26    |        |      | 16.0 |
| 213 | 2      | -1.09   | 12.4   |      |      |
| 215 | 0      | -3.07   | < 7    |      |      |
| 217 | 4      | -0.04   |        |      | 15.2 |
| 234 | 1      | -1.65   | 10.9   |      |      |
| 235 | 0      | -2.79   | 7.9    |      |      |
| 240 | 1      | -1.99   |        | 10.0 |      |
| 241 | 4      | 0.22    | 15.9   |      |      |
| 265 | 4      | -0.11   |        |      | 15.0 |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)--Continued  
U (Uranium)  $\mu\text{g/L}$

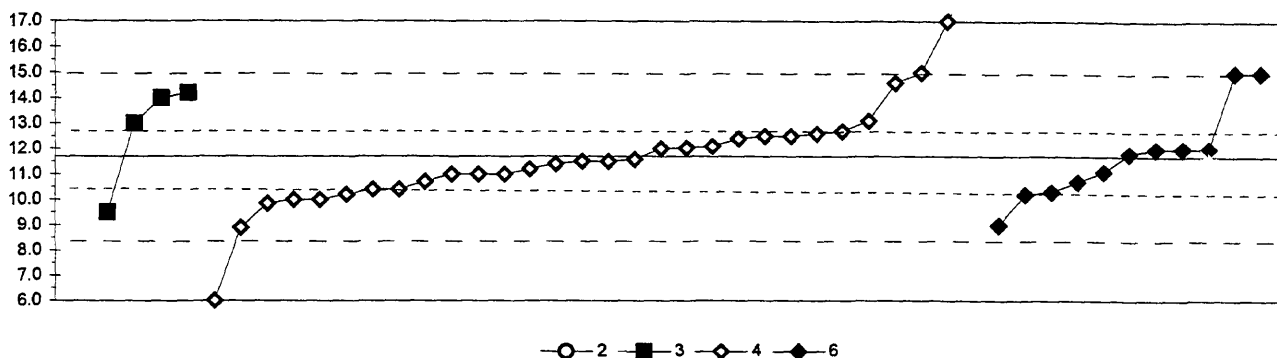


|           |                 |      |      |  |
|-----------|-----------------|------|------|--|
| 4. ICP    |                 |      |      |  |
| 6. ICP/MS |                 |      |      |  |
|           | N =             | 1    | 8    |  |
|           | Minimum =       | 1.20 | 0.86 |  |
|           | Maximum =       |      | 1.20 |  |
|           | Median =        |      | 1.10 |  |
|           | F-pseudosigma = |      | 0.08 |  |

MPV = 1.10  
F-pseudosigma = 0.10  
N = 9  
Hu = 1.12  
Hi = 1.07

| Lab | Rating | Z-value | 4    | 6    |
|-----|--------|---------|------|------|
| 1   | 4      | -0.40   |      | 1.06 |
| 7   | NR     | < 120   |      | 1.20 |
| 16  | 3      | 1.00    |      |      |
| 30  | 3      | 1.00    | 1.20 |      |
| 75  | NR     | < 100   |      |      |
| 119 | 4      | -0.30   |      | 1.07 |
| 142 | 0      | -2.45   |      | 0.86 |
| 196 | 4      | 0.20    |      | 1.12 |
| 212 | 4      | 0.00    |      | 1.10 |
| 217 | 4      | 0.00    |      | 1.10 |
| 265 | 4      | 0.00    |      | 1.10 |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
V (Vanadium)  $\mu\text{g/L}$

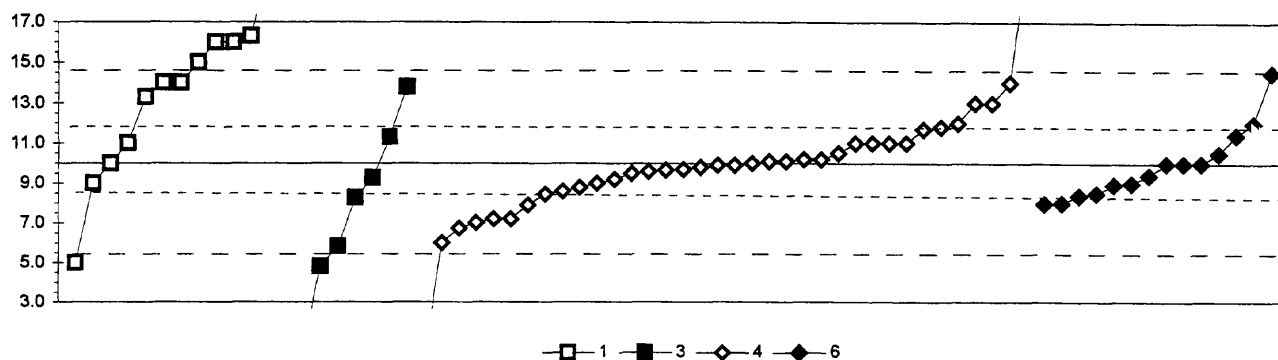


|                             |                  |           |      |      |      |
|-----------------------------|------------------|-----------|------|------|------|
| 2. AA: direct nitrous oxide |                  | 6. ICP/MS |      |      |      |
| 3. AA: graphite furnace     |                  |           |      |      |      |
| 4. ICP                      |                  |           |      |      |      |
|                             | N =              | 1         | 4    | 30   | 11   |
|                             | Minimum =        | 39.0      | 9.5  | 6.0  | 9.0  |
|                             | Maximum =        |           | 14.2 | 18.8 | 15.0 |
|                             | Median =         |           |      | 11.5 | 11.8 |
|                             | F-pseudostigma = |           |      | 1.6  | 1.1  |

MPV = 11.7  
F-pseudostigma = 1.7  
N = 46  
Hu = 12.7  
HI = 10.4

| Lab | Rating | Z-value | 2    | 3    | 4    | 6    |
|-----|--------|---------|------|------|------|------|
| 1   | 4      | 0.20    |      |      | 12.0 |      |
| 3   | 0      | -3.33   |      |      | 6.0  |      |
| 5   | 4      | 0.42    |      |      | 12.4 |      |
| 7   | 3      | 0.54    |      |      | 12.6 |      |
| 11  | 4      | -0.40   |      |      | 11.0 |      |
| 13  | NR     |         |      |      | < 50 |      |
| 15  | NR     |         |      |      | < 10 |      |
| 16  | 1      | 1.94    |      |      |      | 15.0 |
| 18  | 4      | -0.28   |      |      | 11.2 |      |
| 26  | 4      | 0.48    |      |      | 12.5 |      |
| 28  | 1      | 1.71    |      |      | 14.6 |      |
| 30  | 4      | -0.17   |      |      | 11.4 |      |
| 32  | 4      | 0.07    |      |      |      | 11.8 |
| 40  | 3      | -0.75   |      |      | 10.4 |      |
| 42  | 1      | 1.94    |      |      |      | 15.0 |
| 46  | 3      | -0.75   |      |      | 10.4 |      |
| 48  | 2      | -1.28   |      | 9.5  |      |      |
| 68  | 2      | -1.08   |      |      | 9.9  |      |
| 70  | NR     |         |      |      | < 50 |      |
| 75  | 4      | -0.11   |      |      | 11.5 |      |
| 81  | 1      | -1.57   |      |      |      | 9.0  |
| 85  | NR     |         |      |      | < 20 |      |
| 86  | 3      | 0.83    |      |      | 13.1 |      |
| 89  | 2      | 1.48    |      | 14.2 |      |      |
| 97  | 2      | 1.36    |      | 14.0 |      |      |
| 102 | 3      | -0.99   |      |      | 10.0 |      |
| 105 | 4      | -0.34   |      |      |      | 11.1 |
| 119 | 3      | -0.81   |      |      |      | 10.3 |
| 128 | 3      | -0.87   |      |      | 10.2 |      |
| 134 | 3      | -0.58   |      |      | 10.7 |      |
| 138 | 4      | -0.40   |      |      | 11.0 |      |
| 141 | 3      | 0.60    |      |      | 12.7 |      |
| 142 | 3      | -0.58   |      |      |      | 10.7 |
| 145 | 0      | 3.12    |      |      | 17.0 |      |
| 146 | 4      | -0.11   |      |      | 11.5 |      |
| 158 | 4      | 0.48    |      |      | 12.5 |      |
| 180 | 4      | 0.18    |      |      | 12.0 |      |
| 191 | 4      | 0.18    |      |      |      | 12.0 |
| 196 | 3      | -0.87   |      |      |      | 10.2 |
| 212 | 4      | 0.18    |      |      |      | 12.0 |
| 217 | 1      | -1.63   |      |      | 8.9  |      |
| 219 | 3      | -0.99   |      |      | 10.0 |      |
| 224 | 0      | 4.17    |      |      | 18.8 |      |
| 234 | 4      | -0.40   |      |      | 11.0 |      |
| 235 | 1      | 1.94    |      |      | 15.0 |      |
| 236 | 4      | 0.24    |      |      | 12.1 |      |
| 241 | 3      | 0.77    |      | 13.0 |      |      |
| 255 | 4      | -0.07   |      |      | 11.6 |      |
| 257 | 0      | 16.02   | 39.0 |      |      |      |
| 265 | 4      | 0.18    |      |      |      | 12.0 |

Table 13. Statistical summary of reported data for standard reference water sample T-145 (trace constituents)—Continued  
Zn (Zinc)  $\mu\text{g/L}$



|                         |                 |           |      |      |      |
|-------------------------|-----------------|-----------|------|------|------|
| 1. AA: direct air       |                 | 6. ICP/MS |      |      |      |
| 3. AA: graphite furnace |                 |           |      |      |      |
| 4. ICP                  |                 |           |      |      |      |
|                         | N =             | 13        | 7    | 36   | 14   |
|                         | Minimum =       | 5.0       | 0.6  | 0.0  | 8.0  |
|                         | Maximum =       | 66.0      | 13.8 | 20.0 | 14.5 |
|                         | Median =        | 14.0      | 8.3  | 9.9  | 9.7  |
|                         | F-pseudosigma = | 3.7       | 3.7  | 1.7  | 1.5  |

MPV = 10.0  
F-pseudosigma = 2.4  
N = 70  
Hu = 11.8  
HI = 8.6

| Lab | Rating | Z-value | 1    | 3     | 4    | 6    |
|-----|--------|---------|------|-------|------|------|
| 1   | 3      | 0.59    |      |       |      | 11.4 |
| 3   | 2      | -1.26   |      | 7.0   |      |      |
| 4   | 1      | 1.69    |      | 14.0  |      |      |
| 5   | 4      | -0.13   |      | 9.7   |      |      |
| 7   | 4      | 0.42    |      | 11.0  |      |      |
| 10  | 0      | 2.53    | 16.0 |       |      |      |
| 13  | 4      | -0.04   |      | 9.9   |      |      |
| 15  | 0      | -2.11   |      | < 5   |      |      |
| 16  | 4      | -0.25   |      |       | 9.4  |      |
| 18  | NR     |         |      | < 100 |      |      |
| 23  | NR     |         | < 20 |       |      |      |
| 24  | 4      | 0.08    |      | 10.2  |      |      |
| 26  | 4      | -0.34   |      | 9.2   |      |      |
| 28  | 1      | -1.69   |      | 6.0   |      |      |
| 30  | 4      | -0.17   |      | 9.6   |      |      |
| 32  | 4      | 0.00    |      |       | 10.0 |      |
| 36  | 0      | 2.53    | 16.0 |       |      |      |
| 42  | 4      | 0.00    |      |       | 10.0 |      |
| 48  | NR     |         |      | < 5   |      |      |
| 58  | NR     |         | < 50 |       |      |      |
| 59  | 4      | 0.00    |      |       | 10.0 |      |
| 68  | 4      | 0.21    |      | 10.5  |      |      |
| 69  | NR     |         | < 50 |       |      |      |
| 70  | NR     |         |      | < 20  |      |      |
| 73  | 2      | 1.26    |      | 13.0  |      |      |
| 75  | 4      | 0.42    |      | 11.0  |      |      |
| 80  | 0      | -2.19   |      | 4.8   |      |      |
| 81  | 3      | -0.84   |      |       | 8.0  |      |
| 83  | 4      | -0.08   |      | 9.8   |      |      |
| 86  | 3      | 0.76    |      | 11.8  |      |      |
| 87  | 0      | 2.66    | 16.3 |       |      |      |
| 89  | 1      | 1.60    |      | 13.8  |      |      |
| 96  | 4      | 0.42    | 11.0 |       |      |      |
| 97  | NR     |         |      | < 4.6 |      |      |
| 102 | 3      | -0.51   |      | 8.8   |      |      |
| 105 | 4      | -0.42   |      |       | 9.0  |      |
| 113 | 3      | -0.65   |      | 8.5   |      |      |
| 114 | NR     |         | < 10 |       |      |      |
| 118 | 0      | 2.11    | 15.0 |       |      |      |
| 119 | 4      | 0.00    |      | 10.0  |      |      |
| 121 | 3      | 0.84    |      | 12.0  |      |      |
| 128 | 4      | 0.04    |      | 10.1  |      |      |
| 132 | 4      | -0.42   |      | 9.0   |      |      |
| 133 | 4      | 0.04    |      | 10.1  |      |      |
| 134 | 3      | 0.71    |      | 11.7  |      |      |
| 138 | 3      | -0.85   |      |       | 8.0  |      |
| 140 | 1      | 1.69    | 14.0 |       |      |      |
| 141 | 4      | -0.04   |      | 9.9   |      |      |
| 142 | 3      | -0.68   |      |       | 8.4  |      |
| 145 | 2      | 1.26    |      | 13.0  |      |      |

| Lab | Rating | Z-value | 1    | 3    | 4    | 6    |
|-----|--------|---------|------|------|------|------|
| 146 | NR     |         |      |      | < 20 |      |
| 151 | 4      | -0.45   |      |      |      | 8.9  |
| 158 | 2      | -1.18   |      |      | 7.2  |      |
| 180 | 4      | -0.21   |      |      | 9.5  |      |
| 190 | 2      | 1.39    | 13.3 |      |      |      |
| 191 | 3      | -0.63   |      |      |      | 8.5  |
| 193 | NR     |         | < 50 |      |      |      |
| 196 | 1      | 1.90    |      |      |      | 14.5 |
| 204 | 2      | -1.18   |      |      | 7.2  |      |
| 212 | 3      | 0.84    |      |      |      | 12.0 |
| 213 | 1      | 1.69    | 14.0 |      |      |      |
| 215 | 0      | -4.21   |      |      | 0.0  |      |
| 217 | 3      | -0.89   |      |      | 7.9  |      |
| 219 | 4      | 0.42    |      |      | 11.0 |      |
| 220 | 4      | 0.00    | 10.0 |      |      |      |
| 221 | 3      | 0.55    |      | 11.3 |      |      |
| 224 | 4      | 0.08    |      |      | 10.2 |      |
| 234 | 2      | -1.38   |      |      | 6.7  |      |
| 235 | 3      | -0.72   |      | 8.3  |      |      |
| 236 | 3      | -0.59   |      |      | 8.6  |      |
| 240 | 4      | 0.42    |      |      | 11.0 |      |
| 241 | 0      | -2.11   | 5.0  |      |      |      |
| 245 | 4      | -0.30   |      | 9.3  |      |      |
| 249 | 0      | -3.96   |      | 0.6  |      |      |
| 253 | 0      | 4.22    | 20.0 |      |      |      |
| 255 | 4      | -0.14   |      |      | 9.7  |      |
| 257 | 4      | -0.42   | 9.0  |      |      |      |
| 259 | 0      | 23.61   | 66.0 |      |      |      |
| 265 | 4      | 0.21    |      |      |      | 10.5 |
| 273 | 0      | 4.22    |      |      | 20.0 |      |
| 274 | 1      | -1.76   |      | 5.8  |      |      |

Table 14. *Statistical summary of reported data for standard reference water sample M-140 (major constituents)*

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**Definition of analytical methods, abbreviations, and symbols**

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**Analytical methods**

|                                |   |   |
|--------------------------------|---|---|
| 0 Other/Not reported           | = |   |
| 1 AA: direct, air              | = | atomic absorption: direct,air                     |
| 2 AA: direct, N <sub>2</sub> 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                       | = | mass spectrometry/inductively coupled plasma      |
| 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]            |

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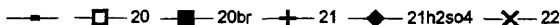
**Abbreviations and symbols**

|               |   |                                      |
|---------------|---|--------------------------------------|
| 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                            |

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| <u>Constituent</u>                  | <u>page</u> |
|-------------------------------------|-------------|
| Alk Alkalinity as CaCO <sub>3</sub> | 103         |
| B Boron                             | 104         |
| Ca Calcium                          | 105         |
| Cl Chloride                         | 106         |
| DSRD Dissolved solids               | 107         |
| F Fluoride                          | 108         |
| K Potassium                         | 109         |
| Mg Magnesium                        | 110         |
| Na Sodium                           | 111         |
| total P Phosphorus                  | 112         |
| pH                                  | 113         |
| SiO <sub>2</sub> Silica             | 114         |
| SO <sub>4</sub> Sulfate             | 115         |
| Sp Con Specific Conductance         | 116         |
| Sr Strontium                        | 117         |
| V Vanadium                          | 118         |

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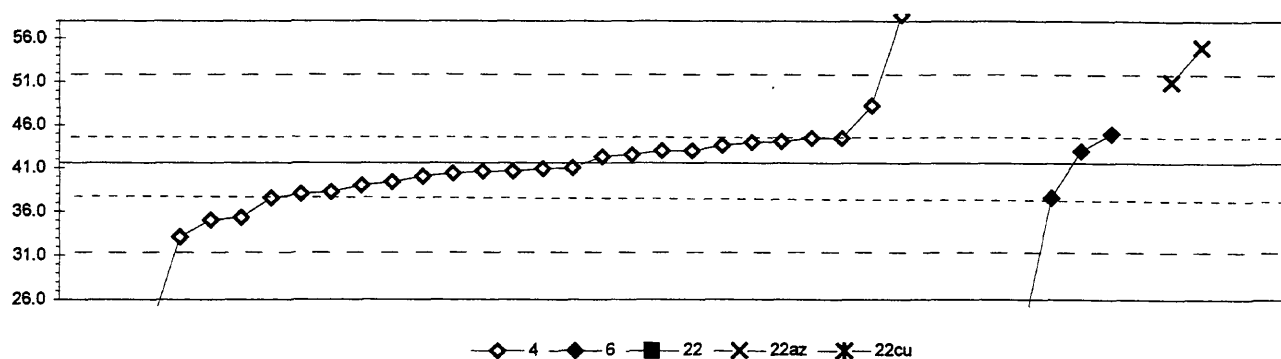
Alkalinity (as  $\text{CaCO}_3$ )

|                 |     |
|-----------------|-----|
| MPV =           | 114 |
| F-pseudosigma = | 3   |
| N =             | 103 |
| Hu =            | 116 |
| HI =            | 112 |

| Lab | Rating | Z-value | 0   | 20  | 20br | 21  | 21h <sub>2</sub> so <sub>4</sub> | 22  |
|-----|--------|---------|-----|-----|------|-----|----------------------------------|-----|
| 128 | 3      | 0.58    |     |     |      |     | 116                              |     |
| 129 | 2      | 1.25    |     |     | 118  |     |                                  |     |
| 132 | 4      | -0.04   |     |     |      |     | 114                              |     |
| 133 | 4      | 0.24    |     |     |      | 115 |                                  |     |
| 134 | 0      | 7.39    | 136 |     |      |     |                                  |     |
| 138 | 4      | -0.10   |     |     |      | 114 |                                  |     |
| 141 | 3      | 0.58    |     |     |      | 116 |                                  |     |
| 142 | 3      | 0.58    |     |     |      | 116 |                                  |     |
| 143 | 4      | -0.44   |     |     |      | 113 |                                  |     |
| 145 | 0      | -5.16   |     |     |      |     |                                  | 99  |
| 146 | 4      | -0.10   |     |     |      | 114 |                                  |     |
| 149 | 4      | -0.10   |     | 114 |      |     |                                  |     |
| 151 | 4      | -0.10   |     |     |      |     | 114                              |     |
| 155 | 3      | 0.75    |     | 117 |      |     |                                  |     |
| 158 | 2      | -1.11   |     |     |      | 111 |                                  |     |
| 180 | 2      | -1.11   |     |     |      | 111 |                                  |     |
| 190 | 4      | 0.24    |     |     |      | 115 |                                  |     |
| 191 | 2      | 1.25    |     |     | 118  |     |                                  |     |
| 193 | 4      | -0.10   |     |     |      | 114 |                                  |     |
| 203 | 0      | -3.23   |     |     |      |     |                                  | 105 |
| 204 | 2      | -1.11   |     |     |      |     | 111                              |     |
| 212 | 3      | -0.77   |     |     |      |     | 112                              |     |
| 213 | 3      | -0.77   |     |     |      | 112 |                                  |     |
| 215 | 3      | -0.77   |     |     |      | 112 |                                  |     |
| 217 | 3      | 0.91    |     |     |      | 117 |                                  |     |
| 218 | 0      | -2.80   |     |     |      | 106 |                                  |     |
| 220 | 3      | -0.64   |     |     |      | 112 |                                  |     |
| 224 | 0      | -3.47   |     |     |      |     |                                  | 104 |
| 234 | 3      | -0.77   |     | 112 |      |     |                                  |     |
| 236 | 4      | 0.04    |     |     |      | 114 |                                  |     |
| 240 | 3      | -0.81   |     |     |      | 112 |                                  |     |
| 241 | 4      | 0.41    |     |     |      |     | 116                              |     |
| 244 | 4      | 0.24    |     |     |      | 115 |                                  |     |
| 247 | 0      | -37.34  |     |     |      | 4   |                                  |     |
| 249 | 0      | -2.46   | 107 |     |      |     |                                  |     |
| 255 | 4      | -0.44   |     |     |      | 113 |                                  |     |
| 256 | 0      | -2.46   |     | 107 |      |     |                                  |     |
| 257 | 4      | 0.24    |     |     |      | 115 |                                  |     |
| 258 | 0      | 3.41    |     | 124 |      |     |                                  |     |
| 259 | 4      | -0.10   |     |     |      | 114 |                                  |     |
| 261 | 1      | 1.93    |     | 120 |      |     |                                  |     |
| 262 | 0      | -2.09   |     |     |      | 108 |                                  |     |
| 265 | 0      | 7.32    |     | 136 |      |     |                                  |     |
| 268 | 2      | 1.25    |     | 310 |      | 118 |                                  |     |
| 272 | 0      | 66.00   |     | 310 |      |     |                                  |     |
| 273 | 0      | 3.27    |     |     |      | 124 |                                  |     |
| 274 | 0      | 38.56   |     | 229 |      |     |                                  |     |
| 276 | 2      | 1.02    |     | 117 |      |     |                                  |     |

Table 14. Statistical summary of reported data for standard reference water sample M-140 (major constituents)—Continued

B (Boron)

 $\mu\text{g/L}$ 

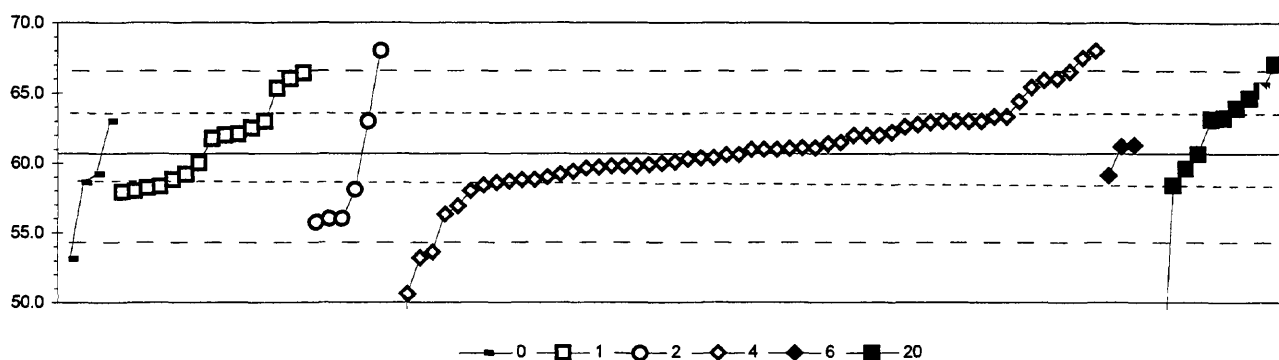
|                  |                 |       |      |      |      |
|------------------|-----------------|-------|------|------|------|
| 4. ICP           |                 |       |      |      |      |
| 6. ICP/MS        |                 |       |      |      |      |
| 22. Colorimetric |                 |       |      |      |      |
|                  | N =             | 31    | 4    | 1    | 2    |
|                  | Minimum =       | 20.0  | 21.0 | 22.0 | 51.0 |
|                  | Maximum =       | 145.0 | 45.0 |      | 60.0 |
|                  | Median =        | 40.9  |      |      |      |
|                  | F-pseudosigma = | 4.4   |      |      |      |

22az. Color: azomethine  
22cu. Color: curcumin

MPV = 41.6  
F-pseudosigma = 5.2  
N = 40  
Hu = 44.8  
Hi = 37.8

| Lab | Rating | Z-value | 4     | 6    | 22   | 22az | 22cu |
|-----|--------|---------|-------|------|------|------|------|
| 1   | 4      | 0.38    | 43.6  |      |      |      |      |
| 3   | 4      | 0.26    | 43.0  |      |      |      |      |
| 5   | 3      | 0.55    | 44.5  |      |      |      |      |
| 10  | 0      | 3.56    |       |      |      |      | 60.0 |
| 15  | NR     |         | < 50  |      |      |      |      |
| 16  | 0      | 3.87    | 61.6  |      |      |      |      |
| 18  | NR     |         | < 50  |      |      |      |      |
| 24  | 3      | -0.67   | 38.2  |      |      |      |      |
| 26  | 2      | -1.23   | 35.3  |      |      |      |      |
| 28  | 2      | -1.29   | 35.0  |      |      |      |      |
| 42  | 0      | -4.01   |       | 21.0 |      |      |      |
| 46  | 0      | -3.91   | 21.5  |      |      |      |      |
| 48  | 0      | -4.20   | 20.0  |      |      |      |      |
| 50  | 1      | 1.82    |       |      |      | 51.0 |      |
| 57  | NR     |         | < 100 |      |      |      |      |
| 68  | 0      | 20.06   | 145.0 |      |      |      |      |
| 70  | NR     |         | < 50  |      |      |      |      |
| 75  | 4      | -0.14   | 40.9  |      |      |      |      |
| 85  | 4      | -0.20   | 40.6  |      |      |      |      |
| 86  | 4      | 0.48    | 44.1  |      |      |      |      |
| 119 | 4      | 0.26    | 43.0  |      |      |      |      |
| 127 | 4      | -0.44   | 39.4  |      |      |      |      |
| 128 | 1      | -1.66   | 33.1  |      |      |      |      |
| 129 | 0      | 2.59    |       |      |      | 55.0 |      |
| 132 | 4      | 0.17    | 42.5  |      |      |      |      |
| 134 | 4      | 0.13    | 42.3  |      |      |      |      |
| 138 | 3      | -0.79   |       | 37.6 |      |      |      |
| 141 | 3      | -0.80   | 37.5  |      |      |      |      |
| 142 | 4      | -0.13   | 41.0  |      |      |      |      |
| 145 | 2      | 1.29    | 48.3  |      |      |      |      |
| 180 | 3      | 0.55    | 44.5  |      |      |      |      |
| 212 | 3      | 0.65    |       | 45.0 |      |      |      |
| 215 | 4      | -0.32   | 40.0  |      |      |      |      |
| 217 | 4      | -0.20   | 40.6  |      |      |      |      |
| 219 | 4      | 0.46    | 44.0  |      |      |      |      |
| 234 | 3      | -0.51   | 39.0  |      |      |      |      |
| 235 | 3      | -0.71   | 38.0  |      |      |      |      |
| 236 | 4      | -0.24   | 40.4  |      |      |      |      |
| 240 | 0      | 3.31    | 58.7  |      |      |      |      |
| 255 | 0      | -3.74   | 22.4  |      |      |      |      |
| 256 | NR     |         |       | < 20 |      |      |      |
| 259 | 0      | 8.42    |       |      |      |      | 85.0 |
| 262 | 0      | -3.81   |       |      | 22.0 |      |      |
| 265 | 4      | 0.26    |       | 43.0 |      |      |      |
| 273 | 0      | 5.50    | 70.0  |      |      |      |      |

Table 14. Statistical summary of reported data for standard reference water sample M-140 (major constituents)--Continued  
Ca (Calcium) mg/L



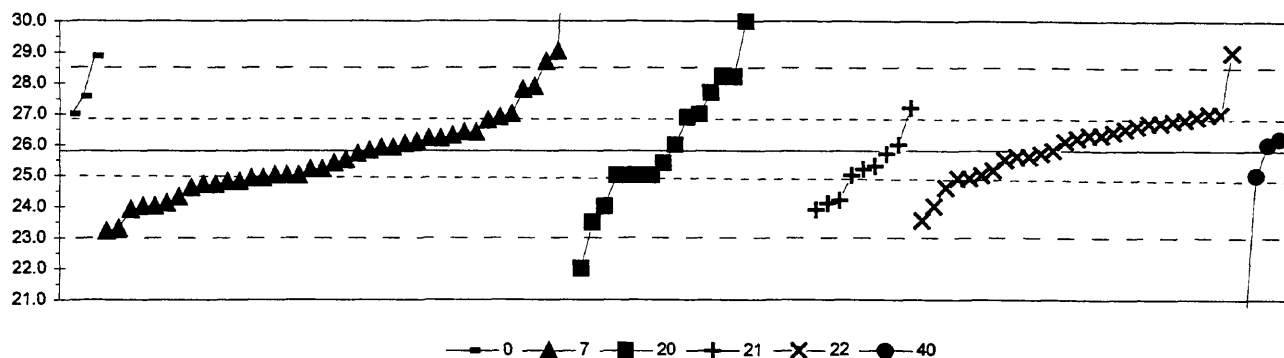
|                             |                               |
|-----------------------------|-------------------------------|
| 0. Other                    | 4. ICP                        |
| 1. AA: direct air           | 6. ICP/MS                     |
| 2. AA: direct nitrous oxide | 20. Titrate: colorimetric     |
| N =                         | 4 16 6 56 3 11                |
| Minimum =                   | 53.1 57.9 55.7 2.9 59.1 27.3  |
| Maximum =                   | 63.0 66.4 68.0 68.0 61.3 67.0 |
| Median =                    | 61.8 60.8 63.1                |
| F-pseudosigma =             | 3.1 2.6 3.9                   |

MPV = 60.7  
F-pseudosigma = 3.1  
N = 96  
Hu = 63.0  
Hi = 58.8

| Lab | Rating | Z-value | 0 | 1    | 2    | 4    | 6    | 20 |
|-----|--------|---------|---|------|------|------|------|----|
| 1   | 2      | -1.40   |   |      |      | 56.3 |      |    |
| 3   | 0      | 2.19    |   |      |      | 67.5 |      |    |
| 5   | 4      | -0.27   |   |      |      | 59.8 |      |    |
| 10  | 4      | -0.47   |   | 59.2 |      |      |      |    |
| 11  | 0      | -18.50  |   |      |      | 2.9  |      |    |
| 13  | 1      | 1.52    |   |      |      | 65.4 |      |    |
| 15  | 0      | -2.39   |   |      |      | 53.2 |      |    |
| 16  | 3      | -0.66   |   |      |      | 58.6 |      |    |
| 18  | 4      | -0.18   |   |      |      | 60.1 |      |    |
| 19  | 4      | -0.11   |   |      |      | 60.3 |      |    |
| 23  | 2      | 1.49    |   | 65.3 |      |      |      |    |
| 24  | 4      | -0.27   |   |      |      | 59.8 |      |    |
| 25  | 2      | 1.20    |   |      |      | 64.4 |      |    |
| 26  | 4      | 0.14    |   |      |      | 61.1 |      |    |
| 28  | 4      | 0.27    |   |      |      | 61.5 |      |    |
| 30  | 3      | 0.75    |   |      | 63.0 |      |      |    |
| 32  | 4      | 0.21    |   |      |      |      | 61.3 |    |
| 33  | 4      | -0.47   |   | 59.2 |      |      |      |    |
| 36  | 2      | -1.49   |   |      | 56.0 |      |      |    |
| 38  | 3      | -0.82   |   |      | 58.1 |      |      |    |
| 40  | 0      | -2.26   |   |      |      | 53.6 |      |    |
| 42  | 3      | 0.85    |   |      |      | 63.3 |      |    |
| 43  | 4      | 0.11    |   |      |      | 61.0 |      |    |
| 46  | 3      | -0.59   |   |      |      | 58.8 |      |    |
| 48  | 4      | 0.49    |   |      |      | 62.2 |      |    |
| 50  | 3      | 0.75    |   |      |      | 63.0 |      |    |
| 55  | 4      | -0.47   |   |      |      | 59.2 |      |    |
| 56  | 4      | 0.36    |   | 61.8 |      |      |      |    |
| 57  | 3      | 0.75    |   |      |      | 63.0 |      |    |
| 59  | 0      | 2.35    |   |      |      | 68.0 |      |    |
| 68  | 3      | 0.75    |   |      |      | 63.0 |      |    |
| 69  | 3      | -0.59   |   | 58.8 |      |      |      |    |
| 70  | 4      | 0.24    |   |      |      | 61.4 |      |    |
| 75  | 3      | -0.79   |   | 58.2 |      |      |      |    |
| 80  | 1      | 1.71    |   | 66.0 |      |      |      |    |
| 81  | 4      | -0.24   |   |      |      | 59.9 |      |    |
| 83  | 3      | -0.72   |   |      |      | 58.4 |      |    |
| 85  | 4      | 0.46    |   | 62.1 |      |      |      |    |
| 86  | 3      | 0.62    |   |      |      | 62.6 |      |    |
| 87  | 2      | -1.49   |   |      | 56.0 |      |      |    |
| 89  | 3      | -0.76   |   | 58.3 |      |      |      |    |
| 90  | 3      | -0.72   |   |      |      |      | 58.4 |    |
| 97  | 3      | -0.88   |   | 57.9 |      |      |      |    |
| 102 | 4      | -0.08   |   |      |      | 60.4 |      |    |
| 105 | 4      | 0.11    |   |      |      | 61.0 |      |    |
| 107 | 3      | -0.85   |   | 58.0 |      |      |      |    |
| 109 | 3      | -0.63   |   |      |      | 58.7 |      |    |
| 113 | 1      | 1.71    |   |      |      | 66.0 |      |    |
| 119 | 4      | 0.14    |   |      |      | 61.1 |      |    |
| 121 | 4      | -0.21   |   |      |      | 60.0 |      |    |

| Lab | Rating | Z-value | 0    | 1     | 2    | 4    | 6    | 20   |
|-----|--------|---------|------|-------|------|------|------|------|
| 128 | 4      | 0.43    |      |       |      | 62.0 |      |      |
| 129 | 4      | 0.43    |      | 62.0  |      |      |      |      |
| 132 | 3      | -0.60   |      |       |      | 58.8 |      |      |
| 133 | 4      | -0.31   |      |       |      | 59.7 |      |      |
| 134 | 4      | 0.13    |      |       |      | 61.1 |      |      |
| 138 | 4      | 0.43    |      |       |      | 62.0 |      |      |
| 140 | 3      | 0.59    |      | 62.5  |      |      |      |      |
| 141 | 3      | 0.85    |      |       |      | 63.3 |      |      |
| 142 | 3      | -0.53   |      |       |      | 59.0 |      |      |
| 145 | 3      | 0.67    |      |       |      | 62.8 |      |      |
| 146 | 2      | -1.20   |      |       |      | 56.9 |      |      |
| 151 | 4      | 0.17    |      |       |      |      | 61.2 |      |
| 155 | 4      | 0.00    |      |       |      |      |      | 60.7 |
| 180 | 4      | -0.08   |      |       |      | 60.4 |      |      |
| 190 | 3      | -0.66   | 58.6 |       |      |      |      |      |
| 191 | 4      | -0.50   |      |       |      |      | 59.1 |      |
| 204 | 4      | -0.27   |      |       |      | 59.8 |      |      |
| 212 | 3      | 0.72    |      |       |      | 62.9 |      |      |
| 215 | 4      | 0.43    |      |       |      | 62.0 |      |      |
| 217 | 0      | -3.22   |      |       |      | 50.6 |      |      |
| 218 | 1      | -1.58   |      |       | 55.7 |      |      |      |
| 219 | 3      | -0.85   |      |       |      | 58.0 |      |      |
| 220 | 4      | -0.21   |      | 60.0  |      |      |      |      |
| 221 | 1      | 1.84    |      | 66.4  |      |      |      |      |
| 224 | 1      | 1.68    |      |       |      | 65.9 |      |      |
| 234 | 4      | -0.02   |      |       |      | 60.6 |      |      |
| 235 | 1      | 1.87    |      |       |      | 66.5 |      |      |
| 236 | 4      | -0.33   |      |       |      | 59.6 |      |      |
| 240 | 4      | -0.40   |      |       |      | 59.4 |      |      |
| 241 | 3      | 0.75    |      | 63.0  |      |      |      |      |
| 249 | 2      | 1.46    |      |       |      |      | 65.2 |      |
| 255 | 4      | -0.01   |      |       |      | 60.6 |      |      |
| 256 | 3      | 0.82    |      |       |      |      | 63.2 |      |
| 257 | 0      | 2.35    |      |       | 68.0 |      |      |      |
| 258 | 1      | 2.05    |      |       |      |      | 67.0 |      |
| 259 | 4      | -0.34   |      |       |      |      | 59.6 |      |
| 261 | 2      | 1.27    |      |       |      |      | 64.6 |      |
| 262 | 3      | 0.75    | 63.0 |       |      |      |      |      |
| 265 | 4      | 0.11    |      |       |      | 61.0 |      |      |
| 268 | 0      | -2.21   |      | 53.85 |      |      |      |      |
| 270 | 0      | -2.41   | 53.1 |       |      |      |      |      |
| 271 | 3      | 0.79    |      |       |      |      | 63.1 |      |
| 272 | 0      | -10.70  |      |       |      |      | 27.3 |      |
| 273 | 3      | 0.75    |      |       |      | 63.0 |      |      |
| 274 | 0      | -6.50   |      |       |      |      | 40.4 |      |
| 276 | 2      | 1.04    |      |       |      |      | 63.9 |      |

Table 14. Statistical summary of reported data for standard reference water sample M-140 (major constituents)--Continued  
Cl (Chloride) mg/L

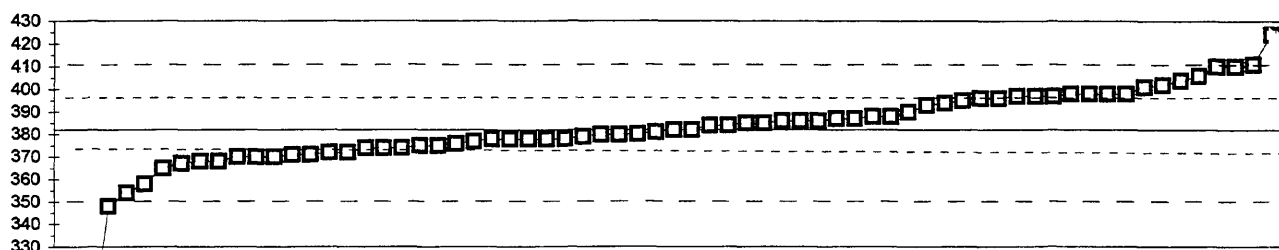


| 0. Other<br>7. Ion chromatography<br>20. Titrate: colorimetric |        |         | 21. Titrate: electrometric<br>22. Colorimetric<br>40. Ion selective electrode |      |      |      |      |      |  |
|--|--------|---------|---|------|------|------|------|------|--|
| Lab  | Rating | Z-value | 0   | 7    | 20   | 21   | 22   | 40   |  |
| 1  | 3      | -0.78   |   | 24.7 |      |      |      |      |  |
| 2  | 2      | 1.35    |   |      | 27.7 |      |      |      |  |
| 3  | 3      | 0.64    |   |      |      |      | 26.7 |      |  |
| 4  | 4      | 0.16    |   | 26.0 |      |      |      |      |  |
| 5  | 3      | -0.71   |   | 24.8 |      |      |      |      |  |
| 7  | 2      | -1.21   |   | 24.1 |      |      |      |      |  |
| 10   | 4      | 0.36    |   |      |      |      | 26.3 |      |  |
| 11   | 3      | 0.64    |   |      |      |      | 26.7 |      |  |
| 13   | 3      | -0.71   |   | 24.8 |      |      |      |      |  |
| 15   | 4      | 0.43    |   | 26.4 |      |      |      |      |  |
| 16   | 0      | 2.18    | 28.9  |      |      |      |      |      |  |
| 18   | 3      | 0.85    |   |      |      |      | 27.0 |      |  |
| 19   | 3      | -0.57   |   |      | 25.0 |      |      |      |  |
| 23   | 4      | 0.28    |   |      |      |      |      | 26.2 |  |
| 24   | 4      | -0.14   |   |      |      |      | 25.6 |      |  |
| 25   | 3      | -0.85   |   | 24.6 |      |      |      |      |  |
| 26   | 4      | 0.28    |   | 26.2 |      |      |      |      |  |
| 30   | 4      | -0.43   |   | 25.2 |      |      |      |      |  |
| 32   | 3      | 0.78    |   | 26.9 |      |      |      |      |  |
| 33   | 2      | -1.07   |   | 24.3 |      |      |      |      |  |
| 36   | 4      | 0.14    |   |      | 26.0 |      |      |      |  |
| 39   | 0      | 2.99    |   |      | 30.0 |      |      |      |  |
| 40   | 3      | 0.78    |   |      |      |      | 26.9 |      |  |
| 42   | 0      | 7.12    |   | 35.8 |      |      |      |      |  |
| 43   | 4      | 0.14    |   |      |      |      |      | 26.0 |  |
| 46   | 3      | 0.57    |   |      |      |      | 26.6 |      |  |
| 48   | 2      | -1.28   |   |      |      |      | 24.0 |      |  |
| 50   | 3      | -0.57   |   |      |      |      | 25.0 |      |  |
| 51   | 2      | 1.42    |   | 27.8 |      |      |      |      |  |
| 55   | 4      | 0.00    |   |      |      |      | 25.8 |      |  |
| 56   | 1      | -1.61   |   |      |      |      | 23.5 |      |  |
| 57   | 3      | -0.57   |   |      | 25.0 |      |      |      |  |
| 59   | 2      | -1.28   |   | 24.0 |      |      |      |      |  |
| 64   | 4      | 0.36    |   | 26.3 |      |      |      |      |  |
| 68   | 4      | 0.50    |   |      |      |      | 26.5 |      |  |
| 69   | 4      | 0.28    |   |      |      |      | 26.2 |      |  |
| 70   | 4      | 0.00    |   | 25.8 |      |      |      |      |  |
| 75   | 4      | 0.21    |   |      |      |      | 26.1 |      |  |
| 76   | 2      | 1.49    |   | 27.9 |      |      |      |      |  |
| 80   | 3      | -0.57   |   |      | 25.0 |      |      |      |  |
| 81   | 2      | -1.35   |   |      |      | 23.9 |      |      |  |
| 83   | 4      | -0.43   |   |      |      | 25.2 |      |      |  |
| 85   | 3      | -0.57   |   | 25.0 |      |      |      |      |  |
| 87   | 0      | 2.28    |   |      |      |      | 29.0 |      |  |
| 89   | 3      | -0.57   |   |      | 25.0 |      |      |      |  |
| 96   | 3      | -0.64   |   |      |      |      | 24.9 |      |  |
| 97   | 4      | -0.07   |   |      |      |      | 25.7 |      |  |
| 102  | 4      | -0.21   |   |      |      |      | 25.5 |      |  |
| 105  | 4      | -0.43   |   | 25.2 |      |      |      |      |  |
| 107  | 3      | 1.00    |   |      |      | 27.2 |      |      |  |
| 109  | 1      | -1.78   |   | 23.3 |      |      |      |      |  |
| 113  | 3      | -0.64   |   | 24.9 |      |      |      |      |  |
| 114  | 3      | -0.57   |   |      |      |      |      | 25.0 |  |
| 119  | 3      | -0.78   |   | 24.7 |      |      |      |      |  |
| 127  | 4      | 0.43    |   | 26.4 |      |      |      |      |  |

MPV = 25.8  
F-pseudosigma = 1.4  
N = 103  
Hu = 26.9  
Hi = 25.0

| Lab | Rating | Z-value | 0    | 7    | 20   | 21   | 22   | 40   |
|-----|--------|---------|------|------|------|------|------|------|
| 128 | 4      | -0.28   |      | 25.4 |      |      |      |      |
| 129 | 3      | -0.57   |      | 25.0 |      |      |      |      |
| 133 | 0      | -4.41   |      |      |      |      |      | 19.6 |
| 134 | 3      | 0.70    |      | 26.8 |      |      |      |      |
| 138 | 4      | 0.07    |      | 25.9 |      |      |      |      |
| 140 | 3      | 0.68    |      |      |      |      | 26.8 |      |
| 141 | 4      | -0.14   |      |      |      |      | 25.6 |      |
| 142 | 4      | -0.46   |      |      |      |      | 25.2 |      |
| 143 | 4      | 0.43    |      |      |      |      | 26.4 |      |
| 145 | 3      | -0.63   |      | 24.9 |      |      |      |      |
| 146 | 3      | 0.85    |      |      |      |      | 27.0 |      |
| 149 | 3      | 0.85    |      | 27.0 |      |      |      |      |
| 151 | 3      | -0.57   |      | 25.0 |      |      |      |      |
| 158 | 3      | -0.64   |      |      |      |      | 24.9 |      |
| 180 | 3      | -0.85   |      |      |      |      | 24.6 |      |
| 183 | 1      | 1.72    |      |      | 28.2 |      |      |      |
| 190 | 0      | 2.06    |      | 28.7 |      |      |      |      |
| 191 | 4      | 0.21    |      | 26.1 |      |      |      |      |
| 196 | 1      | -1.85   |      | 23.2 |      |      |      |      |
| 203 | 2      | -1.21   |      |      |      |      | 24.1 |      |
| 204 | 4      | -0.36   |      |      |      |      | 25.3 |      |
| 212 | 4      | 0.28    |      | 26.2 |      |      |      |      |
| 213 | 3      | 0.78    |      |      | 26.9 |      |      |      |
| 215 | 2      | -1.28   |      |      | 24.0 |      |      |      |
| 217 | 4      | 0.07    |      | 25.9 |      |      |      |      |
| 220 | 3      | 0.71    |      |      |      |      | 26.8 |      |
| 221 | 4      | -0.28   |      |      | 25.4 |      |      |      |
| 224 | 2      | 1.26    | 27.6 |      |      |      |      |      |
| 234 | 2      | -1.28   |      | 24.0 |      |      |      |      |
| 236 | 0      | 2.30    |      | 29.0 |      |      |      |      |
| 240 | 2      | -1.35   |      | 23.9 |      |      |      |      |
| 241 | 0      | -2.71   |      |      | 22.0 |      |      |      |
| 247 | 4      | -0.07   |      | 25.7 |      |      |      |      |
| 249 | 0      | 3.42    |      |      | 30.6 |      |      |      |
| 253 | 2      | -1.14   |      |      |      | 24.2 |      |      |
| 255 | 4      | 0.36    |      |      |      |      | 26.3 |      |
| 256 | 1      | 1.72    |      |      | 28.2 |      |      |      |
| 257 | 4      | 0.14    |      |      |      | 26.0 |      |      |
| 258 | 0      | 4.56    |      |      | 32.2 |      |      |      |
| 259 | 3      | -0.57   |      |      |      | 25.0 |      |      |
| 261 | 1      | -1.64   |      |      | 23.5 |      |      |      |
| 262 | 4      | -0.07   |      |      |      | 25.7 |      |      |
| 265 | 4      | -0.21   |      | 25.5 |      |      |      |      |
| 268 | 4      | -0.14   |      | 25.6 |      |      |      |      |
| 271 | 3      | 0.85    |      |      | 27.0 |      |      |      |
| 272 | 0      | 11.92   |      |      | 42.5 |      |      |      |
| 273 | 3      | 0.85    | 27.0 |      |      |      |      |      |
| 274 | 0      | 11.00   |      |      | 41.3 |      |      |      |
| 276 | 0      | 6.91    |      |      | 35.5 |      |      |      |

Table 14. Statistical summary of reported data for standard reference water sample M-140 (major constituents)—Continued  
DSRD (Dissolved solids) mg/L



—□— 50

50. Gravimetric

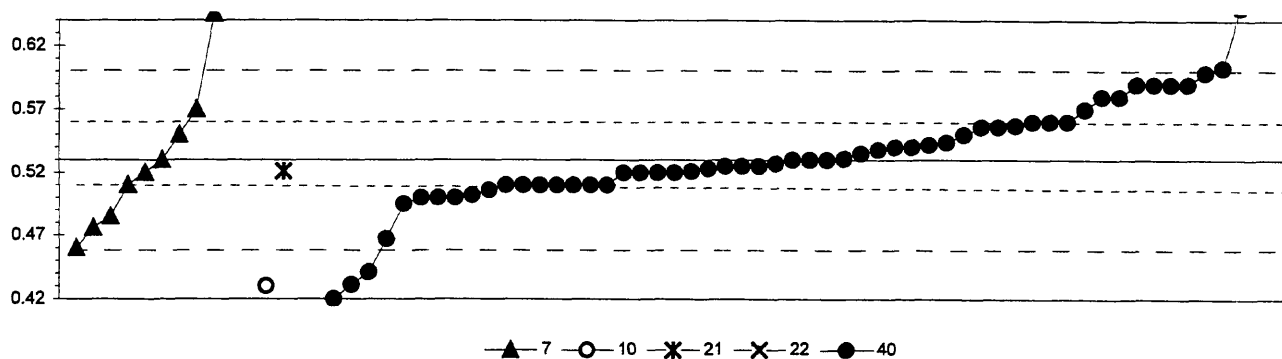
N = 67  
Minimum = 0  
Maximum = 424  
Median = 382  
F-pseudostigma = 0

MPV = 382  
F-pseudostigma = 16  
N = 67  
Hu = 396  
Hi = 374

| Lab | Rating | Z-value | 50  |
|-----|--------|---------|-----|
| 1   | 3      | -0.75   | 370 |
| 3   | 3      | -0.75   | 370 |
| 5   | 4      | 0.25    | 386 |
| 10  | 4      | 0.25    | 386 |
| 11  | 1      | -1.51   | 358 |
| 13  | 4      | 0.38    | 388 |
| 15  | 3      | -0.94   | 367 |
| 16  | 3      | -0.63   | 372 |
| 18  | 3      | 0.94    | 397 |
| 19  | 4      | -0.50   | 374 |
| 23  | 3      | -0.69   | 371 |
| 25  | 3      | -0.88   | 368 |
| 26  | 4      | -0.25   | 378 |
| 32  | 3      | -0.63   | 372 |
| 36  | 1      | 1.76    | 410 |
| 38  | 4      | -0.25   | 378 |
| 40  | 4      | -0.25   | 378 |
| 43  | 4      | 0.25    | 386 |
| 50  | 4      | 0.00    | 382 |
| 55  | 4      | -0.13   | 380 |
| 57  | 4      | 0.50    | 390 |
| 59  | 3      | -0.69   | 371 |
| 69  | 2      | 1.19    | 401 |
| 70  | 4      | 0.19    | 385 |
| 75  | 3      | 1.00    | 398 |
| 76  | 3      | 1.00    | 398 |
| 80  | 1      | 1.82    | 411 |
| 81  | 0      | 2.64    | 424 |
| 85  | 4      | -0.25   | 378 |
| 87  | 0      | -2.13   | 348 |
| 89  | 3      | 0.75    | 394 |
| 90  | 1      | 1.76    | 410 |
| 92  | 4      | -0.50   | 374 |
| 96  | 2      | 1.25    | 402 |
| 97  | 1      | 1.51    | 406 |
| 105 | 2      | -1.07   | 365 |
| 109 | 4      | 0.31    | 387 |
| 113 | 3      | 0.88    | 396 |
| 114 | 4      | -0.44   | 375 |
| 118 | 3      | 1.00    | 398 |
| 119 | 3      | -0.75   | 370 |
| 127 | 4      | 0.31    | 387 |
| 129 | 4      | -0.19   | 379 |
| 134 | 3      | 0.94    | 397 |
| 138 | 3      | -0.88   | 368 |
| 140 | 4      | -0.31   | 377 |
| 141 | 4      | -0.38   | 376 |
| 142 | 3      | 0.69    | 393 |
| 143 | 3      | 1.00    | 398 |
| 146 | 4      | -0.50   | 374 |

| Lab | Rating | Z-value | 50  |
|-----|--------|---------|-----|
| 151 | 4      | -0.25   | 378 |
| 155 | 3      | 0.95    | 397 |
| 158 | 4      | 0.38    | 388 |
| 190 | 0      | -23.94  | 0   |
| 212 | 1      | -1.76   | 354 |
| 215 | 4      | -0.44   | 375 |
| 217 | 4      | -0.06   | 381 |
| 221 | 3      | 0.88    | 396 |
| 224 | 4      | -0.11   | 380 |
| 234 | 4      | 0.00    | 382 |
| 236 | 4      | 0.19    | 385 |
| 240 | 4      | -0.13   | 380 |
| 241 | 0      | -6.15   | 284 |
| 253 | 2      | 1.38    | 404 |
| 255 | 4      | 0.13    | 384 |
| 257 | 3      | 0.82    | 395 |
| 259 | 4      | 0.13    | 384 |

Table 14. Statistical summary of reported data for standard reference water sample M-140 (major constituents)--Continued  
F (Fluoride) mg/L



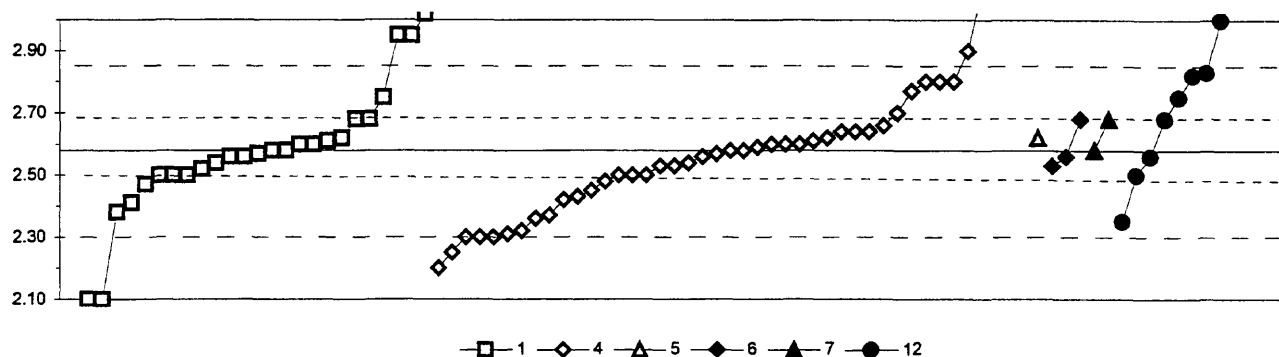
|                            |                             |      |      |      |      |
|----------------------------|-----------------------------|------|------|------|------|
| 7. Ion chromatography      | 22. Colorimetric            |      |      |      |      |
| 10. AA: extraction         | 40. Ion selective electrode |      |      |      |      |
| 21. Titrate: electrometric |                             |      |      |      |      |
| N =                        | 11                          | 1    | 1    | 1    | 57   |
| Minimum =                  | 0.46                        | 0.43 | 0.52 | 0.76 | 0.08 |
| Maximum =                  | 0.92                        |      |      |      | 2.00 |
| Median =                   | 0.53                        |      |      |      | 0.53 |
| F-pseudosigma =            | 0.08                        |      |      |      | 0.04 |

MPV = 0.530  
F-pseudosigma = 0.037  
N = 71  
Hu = 0.560  
HI = 0.510

| Lab | Rating | Z-value | 7     | 10 | 21 | 22 | 40    |
|-----|--------|---------|-------|----|----|----|-------|
| 1   | 3      | 0.81    |       |    |    |    | 0.560 |
| 2   | 1      | 1.62    |       |    |    |    | 0.590 |
| 3   | 1      | 1.86    |       |    |    |    | 0.599 |
| 7   | 0      | 4.05    | 0.680 |    |    |    |       |
| 10  | 4      | -0.27   |       |    |    |    | 0.520 |
| 11  | 3      | -0.81   |       |    |    |    | 0.500 |
| 13  | 3      | -0.54   |       |    |    |    | 0.510 |
| 15  | 4      | -0.24   |       |    |    |    | 0.521 |
| 16  | 4      | 0.38    |       |    |    |    | 0.544 |
| 18  | 3      | -0.54   |       |    |    |    | 0.510 |
| 23  | 3      | 0.70    |       |    |    |    | 0.556 |
| 24  | 3      | 0.81    |       |    |    |    | 0.560 |
| 25  | 3      | -0.54   |       |    |    |    | 0.510 |
| 26  | 2      | 1.08    | 0.570 |    |    |    |       |
| 32  | 0      | -2.67   |       |    |    |    | 0.431 |
| 36  | 1      | -1.70   |       |    |    |    | 0.467 |
| 39  | 4      | 0.27    |       |    |    |    | 0.540 |
| 40  | 3      | -0.65   |       |    |    |    | 0.506 |
| 46  | 4      | -0.19   |       |    |    |    | 0.523 |
| 48  | 0      | 4.32    |       |    |    |    | 0.690 |
| 50  | 4      | 0.00    |       |    |    |    | 0.530 |
| 55  | 4      | -0.27   |       |    |    |    | 0.520 |
| 57  | 4      | -0.27   |       |    |    |    | 0.520 |
| 59  | 3      | 0.54    |       |    |    |    | 0.550 |
| 69  | 2      | 1.35    |       |    |    |    | 0.580 |
| 70  | 2      | 1.35    |       |    |    |    | 0.580 |
| 76  | 4      | 0.32    |       |    |    |    | 0.542 |
| 80  | 3      | -0.54   |       |    |    |    | 0.510 |
| 81  | 4      | 0.22    |       |    |    |    | 0.538 |
| 83  | 0      | 3.24    |       |    |    |    | 0.650 |
| 89  | 0      | -12.03  |       |    |    |    | 0.084 |
| 96  | 4      | -0.13   |       |    |    |    | 0.525 |
| 97  | 3      | -0.94   |       |    |    |    | 0.495 |
| 105 | 3      | 0.54    | 0.550 |    |    |    |       |
| 107 | 4      | -0.08   |       |    |    |    | 0.527 |
| 109 | 1      | 1.62    |       |    |    |    | 0.590 |
| 113 | 4      | -0.13   |       |    |    |    | 0.525 |
| 114 | 4      | 0.00    |       |    |    |    | 0.530 |
| 119 | 4      | 0.00    |       |    |    |    | 0.530 |
| 127 | 2      | -1.46   | 0.476 |    |    |    |       |
| 128 | 4      | -0.27   | 0.520 |    |    |    |       |
| 129 | 0      | 3.10    | 0.645 |    |    |    |       |
| 134 | 1      | 1.62    |       |    |    |    | 0.590 |
| 138 | 4      | 0.03    |       |    |    |    | 0.531 |
| 140 | 0      | -2.40   |       |    |    |    | 0.441 |
| 141 | 2      | 1.08    |       |    |    |    | 0.570 |
| 142 | 1      | 1.97    |       |    |    |    | 0.603 |
| 145 | 1      | -1.89   | 0.460 |    |    |    |       |
| 146 | 3      | 0.73    |       |    |    |    | 0.557 |
| 149 | 4      | 0.00    | 0.530 |    |    |    |       |

| Lab | Rating | Z-value | 7     | 10    | 21    | 22    | 40    |
|-----|--------|---------|-------|-------|-------|-------|-------|
| 151 | 3      | -0.54   |       |       |       |       | 0.517 |
| 158 | 4      | 0.27    |       |       |       |       | 0.547 |
| 190 | 4      | -0.24   |       |       | 0.521 |       |       |
| 196 | 4      | -0.13   |       |       |       |       | 0.525 |
| 212 | 3      | -0.54   |       |       |       |       | 0.510 |
| 215 | 3      | -0.81   |       |       |       |       | 0.507 |
| 217 | 0      | -2.97   |       |       |       |       | 0.427 |
| 224 | 0      | 10.52   | 0.920 |       |       |       |       |
| 234 | 2      | -1.21   | 0.485 |       |       |       |       |
| 240 | 4      | 0.13    |       |       |       |       | 0.535 |
| 241 | 1      | 1.62    |       |       |       |       | 0.597 |
| 247 | 3      | -0.54   | 0.510 |       |       |       |       |
| 255 | 3      | 0.70    |       |       |       |       | 0.555 |
| 257 | 3      | 0.81    |       |       |       |       | 0.567 |
| 258 | 3      | -0.54   |       |       |       |       | 0.510 |
| 259 | 3      | -0.81   |       |       |       |       | 0.507 |
| 262 | 3      | -0.76   |       |       |       |       | 0.502 |
| 265 | 4      | -0.27   |       |       |       |       | 0.527 |
| 272 | 0      | 39.66   |       |       |       |       | 2.007 |
| 273 | 0      | -2.70   |       | 0.430 |       |       |       |
| 274 | 0      | 6.21    |       |       |       | 0.760 |       |

Table 14. Statistical summary of reported data for standard reference water sample M-140 (major constituents)—Continued  
K (Potassium) mg/L



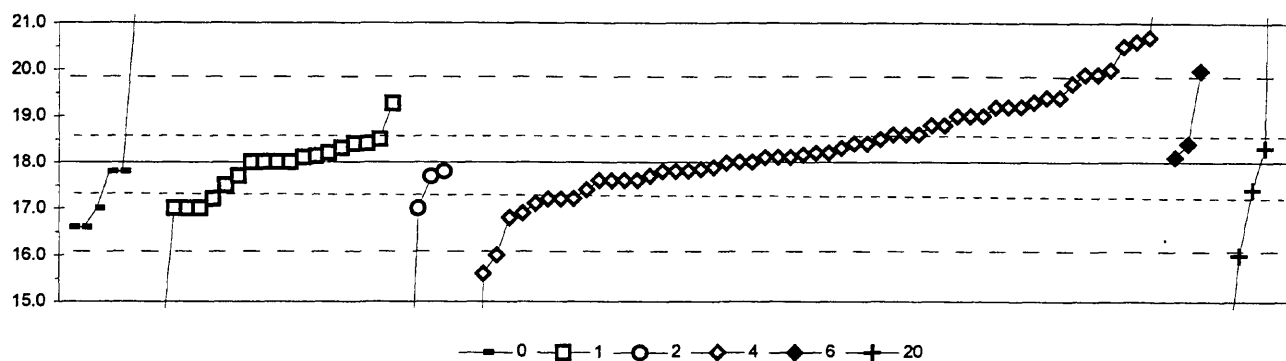
|                   |                       |      |      |      |      |      |
|-------------------|-----------------------|------|------|------|------|------|
| 1. AA: direct air | 6. ICP/MS             |      |      |      |      |      |
| 4. ICP            | 7. Ion chromatography |      |      |      |      |      |
| 5. DCP            | 12. Flame emission    |      |      |      |      |      |
| N =               | 26                    | 43   | 1    | 3    | 2    | 12   |
| Minimum =         | 2.00                  | 2.20 | 2.62 | 2.53 | 2.58 | 2.35 |
| Maximum =         | 3.20                  | 4.20 |      | 2.68 | 2.68 | 3.91 |
| Median =          | 2.57                  | 2.58 |      |      |      | 2.83 |
| F-pseudosigma =   | 0.09                  | 0.16 |      |      |      | 0.39 |

MPV = 2.58  
F-pseudsigma = 0.14  
N = 87  
Hu = 2.69  
HI = 2.50

| Lab | Rating | Z-value | 1    | 4    | 5    | 6    | 7    | 12 |
|-----|--------|---------|------|------|------|------|------|----|
| 1   | 4      | -0.07   | 2.57 |      |      |      |      |    |
| 2   | 0      | -3.41   | 2.10 |      |      |      |      |    |
| 3   | 2      | -1.07   |      | 2.43 |      |      |      |    |
| 5   | 2      | -1.49   |      | 2.37 |      |      |      |    |
| 10  | 4      | 0.00    | 2.58 |      |      |      |      |    |
| 13  | 1      | -1.99   |      | 2.30 |      |      |      |    |
| 15  | 1      | -1.56   |      | 2.36 |      |      |      |    |
| 16  | 3      | -0.57   | 2.50 |      |      |      |      |    |
| 18  | 0      | -2.70   |      | 2.20 |      |      |      |    |
| 19  | 4      | 0.14    |      | 2.60 |      |      |      |    |
| 23  | 3      | 0.71    | 2.68 |      |      |      |      |    |
| 24  | 3      | -0.92   |      | 2.45 |      |      |      |    |
| 26  | 3      | 0.71    |      |      |      | 2.68 |      |    |
| 28  | 1      | -1.85   |      | 2.32 |      |      |      |    |
| 32  | 4      | -0.36   |      |      |      | 2.53 |      |    |
| 33  | 4      | 0.28    |      |      | 2.62 |      |      |    |
| 36  | 0      | -3.41   | 2.10 |      |      |      |      |    |
| 38  | 4      | 0.28    | 2.62 |      |      |      |      |    |
| 40  | 4      | 0.43    |      | 2.64 |      |      |      |    |
| 42  | 3      | 0.85    |      | 2.70 |      |      |      |    |
| 43  | 4      | 0.14    |      | 2.60 |      |      |      |    |
| 46  | 0      | -2.34   |      | 2.25 |      |      |      |    |
| 48  | 4      | 0.00    |      | 2.58 |      |      |      |    |
| 50  | 3      | -0.57   |      | 2.50 |      |      |      |    |
| 51  | 4      | -0.14   |      |      |      |      | 2.56 |    |
| 56  | 0      | 3.12    | 3.02 |      |      |      |      |    |
| 57  | 0      | 4.40    | 3.20 |      |      |      |      |    |
| 59  | NR     |         |      | < 5  |      |      |      |    |
| 64  | 3      | 0.71    | 2.68 |      |      |      |      |    |
| 68  | 0      | 2.27    |      | 2.90 |      |      |      |    |
| 69  | 1      | 1.70    |      |      |      |      | 2.82 |    |
| 70  | 3      | -0.71   |      | 2.48 |      |      |      |    |
| 80  | 0      | -4.12   | 2.00 |      |      |      |      |    |
| 81  | 4      | -0.36   |      | 2.53 |      |      |      |    |
| 83  | 4      | 0.14    |      | 2.60 |      |      |      |    |
| 85  | 0      | 2.63    | 2.95 |      |      |      |      |    |
| 86  | 4      | 0.43    |      | 2.64 |      |      |      |    |
| 87  | 3      | -0.78   | 2.47 |      |      |      |      |    |
| 89  | 2      | -1.42   | 2.38 |      |      |      |      |    |
| 97  | 4      | 0.14    | 2.60 |      |      |      |      |    |
| 102 | 1      | -1.99   |      | 2.30 |      |      |      |    |
| 105 | 4      | 0.21    |      | 2.61 |      |      |      |    |
| 107 | 2      | 1.21    | 2.75 |      |      |      |      |    |
| 109 | 4      | -0.14   |      | 2.56 |      |      |      |    |
| 113 | 2      | 1.35    |      | 2.77 |      |      |      |    |
| 119 | 3      | -0.57   |      | 2.50 |      |      |      |    |
| 121 | 4      | -0.14   | 2.56 |      |      |      |      |    |
| 127 | 4      | -0.36   |      | 2.53 |      |      |      |    |
| 128 | 4      | 0.00    |      | 2.58 |      |      |      |    |
| 129 | 3      | -0.57   | 2.50 |      |      |      |      |    |

| Lab | Rating | Z-value | 1    | 4    | 5 | 6    | 7    | 12   |
|-----|--------|---------|------|------|---|------|------|------|
| 132 | 3      | 0.57    |      | 2.66 |   |      |      |      |
| 134 | 4      | -0.28   | 2.54 |      |   |      |      |      |
| 138 | 4      | 0.07    |      | 2.59 |   |      |      |      |
| 140 | 4      | 0.00    | 2.58 |      |   |      |      |      |
| 141 | 4      | -0.07   |      | 2.57 |   |      |      |      |
| 142 | 1      | -1.99   |      | 2.30 |   |      |      |      |
| 145 | 4      | -0.28   |      | 2.54 |   |      |      |      |
| 146 | 0      | 4.54    |      | 3.22 |   |      |      |      |
| 151 | 3      | 0.71    |      |      |   | 2.68 |      |      |
| 180 | 2      | -1.14   |      | 2.42 |   |      |      |      |
| 190 | 4      | 0.00    |      |      |   |      | 2.58 |      |
| 191 | 4      | -0.14   |      |      |   | 2.56 |      |      |
| 212 | 3      | -0.57   |      | 2.50 |   |      |      |      |
| 215 | 1      | 1.56    |      | 2.80 |   |      |      |      |
| 217 | 0      | 11.50   |      | 4.20 |   |      |      |      |
| 218 | 2      | -1.21   | 2.41 |      |   |      |      |      |
| 219 | 1      | 1.56    |      | 2.80 |   |      |      |      |
| 220 | 4      | 0.14    | 2.60 |      |   |      |      |      |
| 221 | 4      | 0.21    | 2.61 |      |   |      |      |      |
| 224 | 0      | 3.69    |      | 3.10 |   |      |      |      |
| 234 | 4      | 0.43    |      | 2.64 |   |      |      |      |
| 235 | 0      | 11.15   |      | 4.15 |   |      |      |      |
| 236 | 1      | -1.92   |      | 2.31 |   |      |      |      |
| 241 | 4      | -0.14   | 2.56 |      |   |      |      |      |
| 249 | 3      | 0.71    |      |      |   |      | 2.68 |      |
| 255 | 4      | 0.28    |      | 2.62 |   |      |      |      |
| 256 | 0      | 9.44    |      |      |   |      |      | 3.91 |
| 257 | 0      | 5.11    |      |      |   |      |      | 3.30 |
| 258 | 2      | 1.21    |      |      |   |      |      | 2.75 |
| 259 | 3      | -0.57   | 2.50 |      |   |      |      |      |
| 261 | 1      | -1.63   |      |      |   |      |      | 2.35 |
| 262 | 1      | 1.78    |      |      |   |      |      | 2.83 |
| 265 | 4      | -0.43   | 2.52 |      |   |      |      |      |
| 268 | 1      | 1.93    | 2.85 |      |   |      |      |      |
| 270 | 0      | 4.47    |      |      |   |      |      | 3.21 |
| 271 | 3      | -0.57   |      |      |   |      |      | 2.50 |
| 272 | 0      | 2.98    |      |      |   |      |      | 3.00 |
| 273 | 1      | 1.56    |      | 2.80 |   |      |      |      |
| 274 | 0      | 3.55    |      |      |   |      |      | 3.08 |

Table 14. Statistical summary of reported data for standard reference water sample M-140 (major constituents)—Continued  
Mg (Magnesium) mg/L



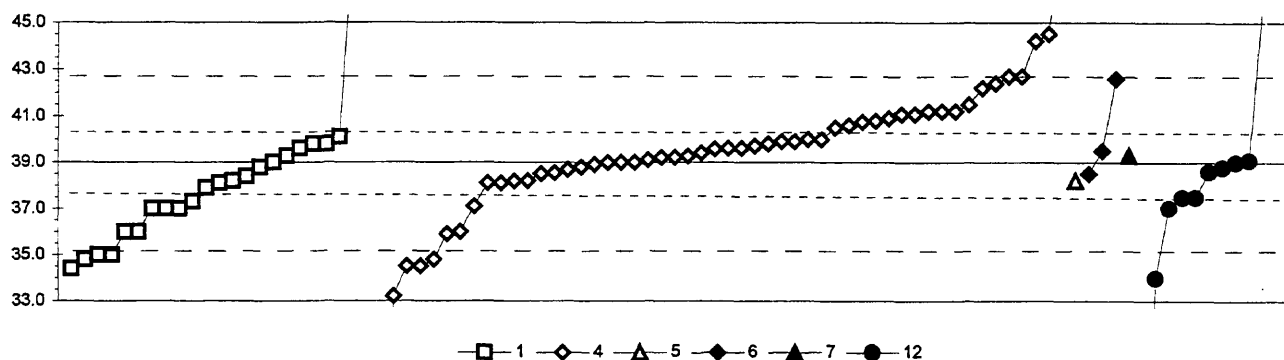
|                             |                                     |
|-----------------------------|-------------------------------------|
| 0. Other                    | 4. ICP                              |
| 1. AA: direct air           | 6. ICP/MS                           |
| 2. AA: direct nitrous oxide | 20. Titrate: colorimetric           |
| N =                         | 6 21 4 56 3 6                       |
| Minimum =                   | 16.60 10.95 9.80 0.50 18.10 10.37   |
| Maximum =                   | 21.40 19.27 17.80 22.76 19.98 30.79 |
| Median =                    | 18.00 18.18                         |
| F-pseudosigma =             | 0.85 1.11                           |

MPV = 18.0  
F-pseudosigma = 1.0  
N = 96  
Hu = 18.6  
Hi = 17.3

| Lab | Rating | Z-value | 0 | 1    | 2    | 4    | 6    | 20 |
|-----|--------|---------|---|------|------|------|------|----|
| 1   | 3      | -0.63   |   |      |      | 17.4 |      |    |
| 2   | 2      | -1.04   |   | 17.0 |      |      |      |    |
| 3   | 0      | 2.71    |   |      |      | 20.6 |      |    |
| 5   | 3      | -0.94   |   |      |      | 17.1 |      |    |
| 10  | 4      | 0.42    |   | 18.4 |      |      |      |    |
| 11  | 0      | -18.23  |   |      |      | 0.5  |      |    |
| 13  | 2      | 1.04    |   |      |      | 19.0 |      |    |
| 15  | 0      | -2.08   |   |      |      | 16.0 |      |    |
| 16  | 4      | -0.21   |   |      |      | 17.8 |      |    |
| 18  | 4      | -0.02   |   |      |      | 18.0 |      |    |
| 19  | 4      | 0.42    |   |      |      | 18.4 |      |    |
| 23  | 4      | 0.00    |   | 18.0 |      |      |      |    |
| 24  | 4      | 0.10    |   |      |      | 18.1 |      |    |
| 25  | 2      | 1.25    |   |      |      | 19.2 |      |    |
| 26  | 2      | 1.25    |   |      |      | 19.2 |      |    |
| 28  | 4      | 0.21    |   |      |      | 18.2 |      |    |
| 30  | 2      | -1.04   |   |      | 17.0 |      |      |    |
| 32  | 0      | 2.06    |   |      |      |      | 20.0 |    |
| 33  | 4      | -0.21   |   | 17.8 |      |      |      |    |
| 36  | 2      | -1.04   |   | 17.0 |      |      |      |    |
| 38  | 4      | 0.14    |   | 18.1 |      |      |      |    |
| 40  | 2      | -1.25   |   |      |      | 16.8 |      |    |
| 42  | 2      | 1.35    |   |      |      | 19.3 |      |    |
| 43  | 2      | 1.04    |   |      |      | 19.0 |      |    |
| 46  | 3      | -0.82   |   |      |      | 17.2 |      |    |
| 48  | 4      | 0.31    |   |      |      | 18.3 |      |    |
| 50  | 4      | 0.00    |   |      |      | 18.0 |      |    |
| 51  | 0      | -7.34   |   | 11.0 |      |      |      |    |
| 55  | 2      | 1.46    |   |      |      | 19.4 |      |    |
| 56  | 2      | 1.32    |   | 19.3 |      |      |      |    |
| 57  | 0      | 2.08    |   |      |      | 20.0 |      |    |
| 59  | 0      | 2.60    |   |      |      | 20.5 |      |    |
| 68  | 4      | 0.00    |   |      |      | 18.0 |      |    |
| 69  | 3      | -0.52   |   | 17.5 |      |      |      |    |
| 70  | 4      | 0.10    |   |      |      | 18.1 |      |    |
| 75  | 4      | 0.42    |   | 18.4 |      |      |      |    |
| 80  | 2      | -1.04   |   | 17.0 |      |      |      |    |
| 81  | 4      | 0.21    |   |      |      | 18.2 |      |    |
| 83  | 3      | -0.83   |   |      |      | 17.2 |      |    |
| 85  | 4      | 0.31    |   | 18.3 |      |      |      |    |
| 86  | 4      | 0.10    |   |      |      | 18.1 |      |    |
| 87  | 3      | -0.83   |   | 17.2 |      |      |      |    |
| 89  | 4      | 0.21    |   | 18.2 |      |      |      |    |
| 97  | 4      | 0.00    |   | 18.0 |      |      |      |    |
| 102 | 1      | 1.98    |   |      |      | 19.9 |      |    |
| 105 | 3      | 0.83    |   |      |      | 18.8 |      |    |
| 107 | 4      | -0.31   |   | 17.7 |      |      |      |    |
| 109 | 4      | -0.42   |   |      |      | 17.6 |      |    |
| 113 | 1      | 1.98    |   |      |      | 19.9 |      |    |
| 119 | 3      | 0.63    |   |      |      | 18.6 |      |    |

| Lab | Rating | Z-value | 0    | 1    | 2    | 4    | 6    | 20   |
|-----|--------|---------|------|------|------|------|------|------|
| 121 | 4      | -0.31   |      |      |      | 17.7 |      |      |
| 127 | 3      | 0.63    |      |      |      | 18.6 |      |      |
| 128 | 3      | -0.83   |      |      |      | 17.2 |      |      |
| 129 | 4      | 0.00    |      | 18.0 |      |      |      |      |
| 132 | 4      | -0.21   |      |      |      | 17.8 |      |      |
| 133 | 2      | -1.15   |      |      |      | 16.9 |      |      |
| 134 | 4      | -0.13   |      |      |      | 17.9 |      |      |
| 138 | 3      | 0.52    |      |      |      | 18.5 |      |      |
| 140 | 3      | 0.52    |      | 18.5 |      |      |      |      |
| 141 | 3      | 0.83    |      |      |      | 18.8 |      |      |
| 142 | 4      | -0.17   |      |      |      | 17.8 |      |      |
| 145 | 4      | -0.20   |      |      |      | 17.8 |      |      |
| 146 | 4      | -0.42   |      |      |      | 17.6 |      |      |
| 151 | 4      | 0.10    |      |      |      |      | 18.1 |      |
| 155 | 4      | 0.32    |      |      |      |      |      | 18.3 |
| 180 | 4      | 0.42    |      |      |      | 18.4 |      |      |
| 190 | 4      | -0.21   | 17.8 |      |      |      |      |      |
| 191 | 4      | 0.42    |      |      |      |      | 18.4 |      |
| 204 | 0      | -17.64  |      |      |      | 1.1  |      |      |
| 212 | 1      | 1.77    |      |      |      | 19.7 |      |      |
| 215 | 3      | 0.63    |      |      |      | 18.6 |      |      |
| 217 | 0      | -2.50   |      |      |      | 15.6 |      |      |
| 218 | 4      | -0.32   |      |      | 17.7 |      |      |      |
| 219 | 2      | 1.04    |      |      |      | 19.0 |      |      |
| 220 | 4      | 0.00    |      | 18.0 |      |      |      |      |
| 221 | 4      | 0.10    |      | 18.1 |      |      |      |      |
| 224 | 0      | 4.96    |      |      |      | 22.8 |      |      |
| 234 | 4      | -0.42   |      |      |      | 17.6 |      |      |
| 235 | 2      | 1.46    |      |      |      | 19.4 |      |      |
| 236 | 2      | 1.24    |      |      |      | 19.2 |      |      |
| 240 | 4      | -0.42   |      |      |      | 17.6 |      |      |
| 241 | 0      | -4.17   |      | 14.0 |      |      |      |      |
| 255 | 4      | 0.17    |      |      |      | 18.2 |      |      |
| 256 | 2      | -1.46   | 16.6 |      |      |      |      |      |
| 257 | 0      | -8.54   |      |      | 9.8  |      |      |      |
| 258 | 2      | -1.46   | 16.6 |      |      |      |      |      |
| 259 | 2      | -1.04   | 17.0 |      |      |      |      |      |
| 261 | 3      | -0.63   |      |      |      |      |      | 17.4 |
| 262 | 0      | 3.54    | 21.4 |      |      |      |      |      |
| 265 | 4      | -0.21   |      |      | 17.8 |      |      |      |
| 268 | 3      | -0.52   |      | 17.5 |      |      |      |      |
| 271 | 0      | -7.95   |      |      |      |      |      | 10.4 |
| 272 | 0      | -4.85   |      |      |      |      |      | 13.3 |
| 273 | 0      | 2.81    |      |      |      | 20.7 |      |      |
| 274 | 0      | 13.32   |      |      |      |      |      | 30.8 |
| 276 | 0      | -2.08   |      |      |      |      |      | 16.0 |

Table 14. Statistical summary of reported data for standard reference water sample M-140 (major constituents)—Continued  
Na (Sodium) mg/L

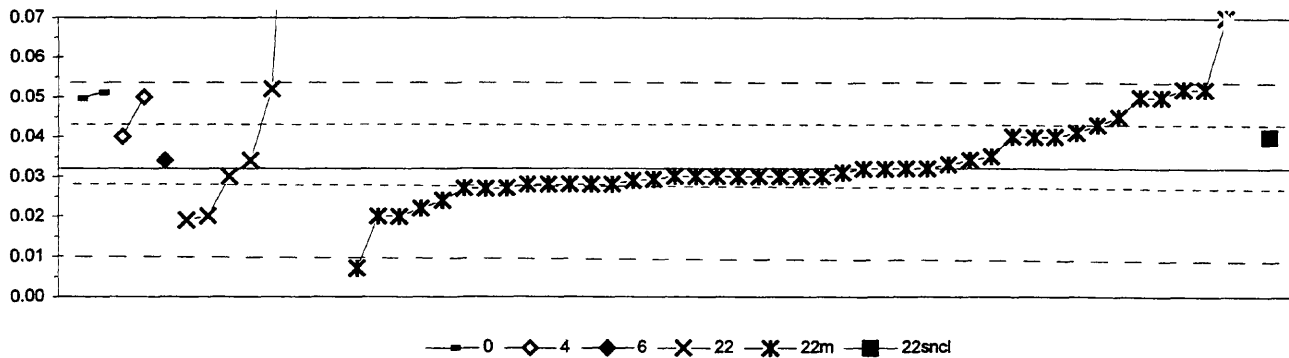


| 1. AA: direct air |                 |         | 6. ICP/MS             |      |      |      |      |      |
|-------------------|-----------------|---------|-----------------------|------|------|------|------|------|
| 4. ICP            |                 |         | 7. Ion chromatography |      |      |      |      |      |
| 5. DCP            |                 |         | 12. Flame emission    |      |      |      |      |      |
|                   | N =             | 24      | 51                    | 1    | 3    | 1    | 12   |      |
|                   | Minimum =       | 34.4    | 1.5                   | 38.2 | 38.5 | 39.3 | 20.6 |      |
|                   | Maximum =       | 50.8    | 48.3                  |      | 42.6 |      | 50.0 |      |
|                   | Median =        | 38.1    | 39.6                  |      |      |      | 38.7 |      |
|                   | F-pseudosigma = | 2.2     | 1.8                   |      |      |      | 3.9  |      |
| Lab               | Rating          | Z-value | 1                     | 4    | 5    | 6    | 7    | 12   |
| 1                 | 4               | -0.42   |                       | 38.2 |      |      |      |      |
| 2                 | 0               | -2.08   | 35.0                  |      |      |      |      |      |
| 3                 | 0               | -2.33   |                       | 34.5 |      |      |      |      |
| 5                 | 4               | 0.31    |                       | 39.6 |      |      |      |      |
| 10                | 4               | -0.10   | 38.8                  |      |      |      |      |      |
| 11                | 0               | -19.47  |                       | 1.5  |      |      |      |      |
| 13                | 2               | 1.14    |                       | 41.2 |      |      |      |      |
| 15                | 0               | -2.33   |                       | 34.5 |      |      |      |      |
| 16                | 4               | -0.26   |                       | 38.5 |      |      |      |      |
| 18                | 4               | -0.01   |                       | 39.0 |      |      |      |      |
| 19                | 2               | 1.14    |                       | 41.2 |      |      |      |      |
| 23                | 0               | -2.18   | 34.8                  |      |      |      |      |      |
| 24                | 4               | -0.10   |                       | 38.8 |      |      |      |      |
| 25                | 1               | 1.92    |                       | 42.7 |      |      |      |      |
| 26                | 3               | 0.99    |                       | 40.9 |      |      |      |      |
| 28                | 1               | 1.92    |                       | 42.7 |      |      |      |      |
| 32                | 4               | 0.26    |                       |      |      | 39.5 |      |      |
| 33                | 4               | -0.42   |                       |      | 38.2 |      |      |      |
| 36                | 0               | -2.08   | 35.0                  |      |      |      |      |      |
| 38                | 0               | -2.39   | 34.4                  |      |      |      |      |      |
| 40                | 3               | -0.99   |                       | 37.1 |      |      |      |      |
| 42                | 4               | 0.10    |                       | 39.2 |      |      |      |      |
| 43                | 3               | 0.52    |                       | 40.0 |      |      |      |      |
| 46                | 4               | 0.31    |                       | 39.6 |      |      |      |      |
| 48                | 4               | 0.42    |                       | 39.8 |      |      |      |      |
| 50                | 3               | 0.52    |                       | 40.0 |      |      |      |      |
| 51                | 4               | -0.10   |                       |      |      |      |      | 38.8 |
| 56                | 0               | 6.12    | 50.8                  |      |      |      |      |      |
| 57                | 1               | -1.56   |                       | 36.0 |      |      |      |      |
| 59                | 0               | 2.85    |                       | 44.5 |      |      |      |      |
| 64                | 3               | -0.57   | 37.9                  |      |      |      |      |      |
| 68                | 3               | 0.78    |                       | 40.5 |      |      |      |      |
| 69                | 4               | -0.21   |                       |      |      |      |      | 38.6 |
| 70                | 4               | 0.21    |                       | 39.4 |      |      |      |      |
| 75                | 4               | -0.31   | 38.4                  |      |      |      |      |      |
| 80                | 2               | -1.04   | 37.0                  |      |      |      |      |      |
| 81                | 4               | 0.05    |                       | 39.1 |      |      |      |      |
| 83                | 4               | -0.47   |                       | 38.1 |      |      |      |      |
| 85                | 4               | 0.42    | 39.8                  |      |      |      |      |      |
| 86                | 2               | 1.14    |                       | 41.2 |      |      |      |      |
| 87                | 3               | -0.88   | 37.3                  |      |      |      |      |      |
| 89                | 4               | -0.42   | 38.2                  |      |      |      |      |      |
| 97                | 3               | 0.57    | 40.1                  |      |      |      |      |      |
| 102               | 0               | -3.01   |                       | 33.2 |      |      |      |      |
| 105               | 3               | 0.93    |                       | 40.8 |      |      |      |      |
| 107               | 4               | 0.31    | 39.6                  |      |      |      |      |      |
| 109               | 4               | -0.23   |                       | 38.6 |      |      |      |      |
| 113               | 1               | -1.61   |                       | 35.9 |      |      |      |      |
| 119               | 4               | 0.47    |                       | 39.9 |      |      |      |      |
| 121               | 4               | -0.05   |                       | 38.9 |      |      |      |      |

MPV = 39.0  
F-pseudosigma = 1.9  
N = 92  
Hu = 40.3  
HI = 37.7

| Lab | Rating | Z-value | 1    | 4    | 5 | 6    | 7    | 12   |
|-----|--------|---------|------|------|---|------|------|------|
| 127 | 4      | 0.00    |      | 39.0 |   |      |      |      |
| 128 | 4      | -0.47   |      | 38.1 |   |      |      |      |
| 129 | 2      | -1.04   | 37.0 |      |   |      |      |      |
| 132 | 4      | 0.13    |      | 39.3 |   |      |      |      |
| 134 | 4      | 0.14    | 39.3 |      |   |      |      |      |
| 138 | 4      | 0.36    |      | 39.7 |   |      |      |      |
| 140 | 0      | 5.19    | 49.0 |      |   |      |      |      |
| 141 | 3      | 0.83    |      | 40.6 |   |      |      |      |
| 142 | 4      | 0.30    |      | 39.6 |   |      |      |      |
| 145 | 2      | 1.08    |      | 41.1 |   |      |      |      |
| 146 | 1      | 1.66    |      | 42.2 |   |      |      |      |
| 151 | 1      | 1.87    |      |      |   | 42.6 |      |      |
| 180 | 4      | 0.47    |      | 39.9 |   |      |      |      |
| 190 | 4      | 0.16    |      |      |   |      | 39.3 |      |
| 191 | 4      | -0.26   |      |      |   | 38.5 |      |      |
| 212 | 1      | 1.76    |      | 42.4 |   |      |      |      |
| 215 | 2      | 1.30    |      | 41.5 |   |      |      |      |
| 217 | 0      | -2.18   |      | 34.8 |   |      |      |      |
| 218 | 1      | -1.56   | 36.0 |      |   |      |      |      |
| 219 | 4      | 0.00    |      | 39.0 |   |      |      |      |
| 220 | 1      | -1.56   | 36.0 |      |   |      |      |      |
| 221 | 4      | 0.42    | 39.8 |      |   |      |      |      |
| 224 | 2      | 1.08    |      | 41.1 |   |      |      |      |
| 234 | 4      | 0.10    |      | 39.2 |   |      |      |      |
| 235 | 0      | 4.83    |      | 48.3 |   |      |      |      |
| 236 | 4      | -0.43   |      | 38.2 |   |      |      |      |
| 241 | 2      | -1.04   | 37.0 |      |   |      |      |      |
| 249 | 4      | 0.05    |      |      |   |      | 39.1 |      |
| 255 | 4      | -0.17   |      | 38.7 |   |      |      |      |
| 256 | 2      | -1.02   |      |      |   |      |      | 37.0 |
| 257 | 4      | 0.00    |      |      |   |      |      | 39.0 |
| 258 | 3      | -0.78   |      |      |   |      |      | 37.5 |
| 259 | 4      | 0.00    | 39.0 |      |   |      |      |      |
| 261 | 0      | 3.58    |      |      |   |      |      | 45.9 |
| 262 | 3      | -0.78   |      |      |   |      |      | 37.5 |
| 265 | 4      | -0.47   | 38.1 |      |   |      |      |      |
| 268 | 3      | 0.91    | 40.8 |      |   |      |      |      |
| 270 | 0      | 4.09    |      |      |   |      |      | 46.9 |
| 271 | 0      | -2.59   |      |      |   |      |      | 34.0 |
| 272 | 0      | 5.71    |      |      |   |      |      | 50.0 |
| 273 | 0      | 2.70    |      | 44.2 |   |      |      |      |
| 274 | 0      | -9.55   |      |      |   |      |      | 20.6 |

Table 14. Statistical summary of reported data for standard reference water sample M-140 (major constituents)—Continued  
total P as P (total Phosphorus as Phosphorus) mg/L



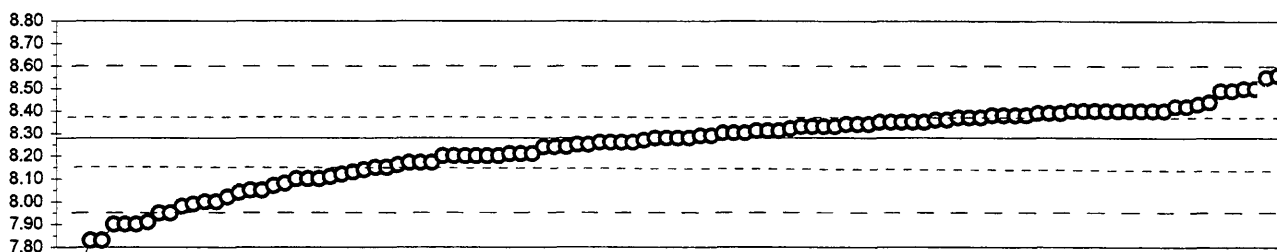
|           |                 |      |      |      |      |      |
|-----------|-----------------|------|------|------|------|------|
| 0. Other  |                 |      |      |      |      |      |
| 4. ICP    |                 |      |      |      |      |      |
| 6. ICP/MS |                 |      |      |      |      |      |
|           | N =             | 2    | 2    | 1    | 8    | 43   |
|           | Minimum =       | 0.05 | 0.04 | 0.03 | 0.02 | 0.01 |
|           | Maximum =       | 0.05 | 0.05 | 0.03 | 0.71 | 0.10 |
|           | Median =        | 0.05 | 0.05 | 0.03 | 0.04 | 0.03 |
|           | F-pseudosigma = | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

MPV = 0.032  
F-pseudosigma = 0.011  
N = 57  
Hu = 0.043  
Hi = 0.028

| Lab | Rating | Z-value | 0     | 4 | 6     | 22     | 22m     | 22sncl |
|-----|--------|---------|-------|---|-------|--------|---------|--------|
| 1   | 4      | -0.18   |       |   |       |        | 0.030   |        |
| 2   | 1      | 1.80    |       |   |       |        | 0.052   |        |
| 3   | 4      | -0.18   |       |   |       | 0.030  |         |        |
| 11  | 2      | 1.17    |       |   |       |        | 0.045   |        |
| 15  | NR     |         |       |   |       |        | < 0.05  |        |
| 16  | 1      | 1.71    | 0.051 |   |       |        |         |        |
| 18  | 4      | -0.45   |       |   |       |        | 0.027   |        |
| 22  | 4      | 0.00    |       |   |       |        | 0.032   |        |
| 23  | 4      | 0.18    |       |   |       |        | 0.034   |        |
| 32  | 1      | 1.58    | 0.050 |   |       |        |         |        |
| 38  | 4      | 0.00    |       |   |       |        | 0.032   |        |
| 39  | 4      | 0.18    |       |   |       | 0.034  |         |        |
| 48  | 0      | 3.42    |       |   |       |        | 0.070   |        |
| 55  | 3      | -0.72   |       |   |       |        | 0.024   |        |
| 57  | 3      | 0.72    |       |   |       |        | 0.040   |        |
| 59  | 3      | 0.72    |       |   |       |        | 0.040   |        |
| 64  | 4      | -0.18   |       |   |       |        | 0.030   |        |
| 68  | 1      | 1.80    |       |   |       | 0.052  |         |        |
| 70  | NR     |         |       |   |       |        | < 0.1   |        |
| 81  | 4      | -0.36   |       |   |       |        | 0.028   |        |
| 83  | NR     |         | < 100 |   |       |        |         |        |
| 87  | 4      | -0.36   |       |   |       |        | 0.028   |        |
| 89  | 4      | -0.27   |       |   |       |        | 0.029   |        |
| 92  | 4      | -0.45   |       |   |       |        | 0.027   |        |
| 97  | 0      | -2.70   |       |   |       |        | < 0.002 |        |
| 102 | 0      | -2.25   |       |   |       |        | 0.007   |        |
| 105 | 2      | -1.17   |       |   |       | 0.019  |         |        |
| 107 | 4      | -0.36   |       |   |       |        | 0.028   |        |
| 113 | 4      | -0.36   |       |   |       |        | 0.028   |        |
| 114 | 4      | -0.09   |       |   |       |        | 0.031   |        |
| 118 | 2      | -1.08   |       |   |       |        | 0.020   |        |
| 119 | 4      | -0.18   |       |   |       |        | 0.030   |        |
| 127 | NR     |         |       |   |       |        | < 0.01  |        |
| 129 | 4      | -0.45   |       |   |       |        | 0.027   |        |
| 132 | 4      | -0.18   |       |   |       |        | 0.030   |        |
| 133 | 4      | -0.36   |       |   |       |        | 0.028   |        |
| 134 | 4      | -0.18   |       |   |       |        | 0.030   |        |
| 138 | 4      | 0.00    |       |   |       |        | 0.032   |        |
| 140 | NR     |         |       |   |       | < 0.02 |         |        |
| 141 | NR     |         |       |   |       |        | < 0.05  |        |
| 142 | 2      | -1.08   |       |   |       |        | 0.020   |        |
| 143 | 4      | 0.09    |       |   |       |        | 0.033   |        |
| 145 | 4      | 0.27    |       |   |       |        | 0.035   |        |
| 146 | NR     |         |       |   |       |        | < 0.1   |        |
| 155 | 4      | -0.24   |       |   |       |        | 0.029   |        |
| 158 | 3      | 0.81    |       |   |       |        | 0.041   |        |
| 180 | 1      | 1.80    |       |   |       |        | 0.052   |        |
| 190 | 1      | 1.62    |       |   |       |        | 0.050   |        |
| 191 | 4      | 0.18    |       |   | 0.034 |        |         |        |
| 212 | 3      | 0.99    |       |   |       |        | 0.043   |        |

| Lab | Rating | Z-value | 0 | 4     | 6 | 22    | 22m   | 22sncl |
|-----|--------|---------|---|-------|---|-------|-------|--------|
| 213 | 2      | -1.08   |   |       |   | 0.020 |       |        |
| 215 | 3      | 0.72    |   |       |   |       | 0.040 |        |
| 224 | 4      | -0.18   |   |       |   |       | 0.030 |        |
| 234 | 4      | -0.18   |   |       |   |       | 0.030 |        |
| 235 | 1      | 1.62    |   | 0.050 |   |       |       |        |
| 236 | 3      | 0.72    |   | 0.040 |   |       |       |        |
| 240 | 3      | -0.90   |   |       |   |       | 0.022 |        |
| 241 | 4      | 0.00    |   |       |   |       | 0.032 |        |
| 243 | 4      | -0.18   |   |       |   |       | 0.030 |        |
| 249 | 1      | 1.62    |   |       |   |       | 0.050 |        |
| 257 | 0      | 6.12    |   |       |   |       | 0.100 |        |
| 258 | 0      | 10.02   |   |       |   | 0.143 |       |        |
| 259 | 3      | 0.72    |   |       |   |       |       | 0.040  |
| 273 | 0      | 60.97   |   |       |   | 0.710 |       |        |
| 274 | 0      | 9.80    |   |       |   | 0.141 |       |        |

Table 14. Statistical summary of reported data for standard reference water sample M-140 (major constituents)—Continued  
pH



—○— 41

41. Direct reading

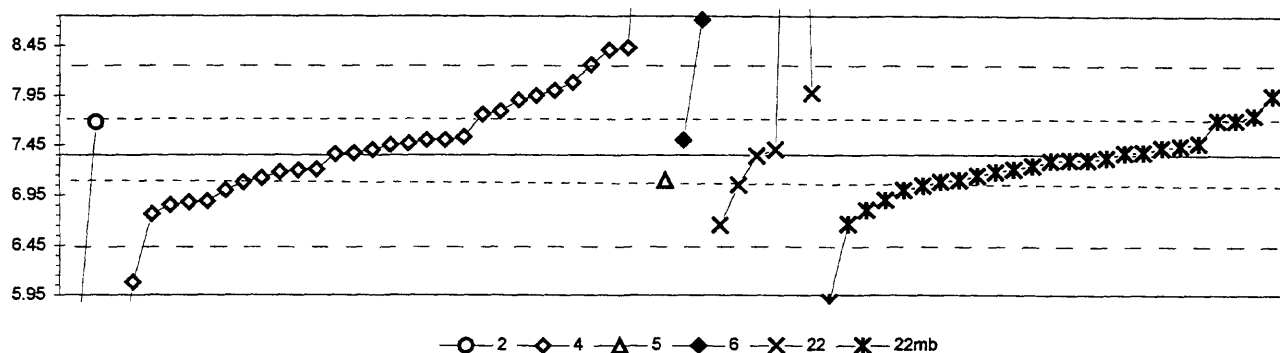
N = 108  
Minimum = 7.42  
Maximum = 8.56  
Median = 8.28  
F-pseudosigma = 0.17

MPV = 8.28  
F-pseudosigma = 0.17  
N = 108  
Hu = 8.37  
Hi = 8.15

| Lab | Rating | Z-value | 41   |
|-----|--------|---------|------|
| 1   | 4      | -0.42   | 8.21 |
| 2   | 2      | -1.44   | 8.04 |
| 3   | 0      | -2.70   | 7.83 |
| 5   | 3      | -0.66   | 8.17 |
| 7   | 4      | -0.48   | 8.20 |
| 10  | 3      | 0.84    | 8.42 |
| 11  | 4      | -0.12   | 8.26 |
| 13  | 4      | 0.48    | 8.36 |
| 15  | 2      | -1.02   | 8.11 |
| 16  | 2      | -1.08   | 8.10 |
| 18  | 4      | -0.18   | 8.25 |
| 19  | 1      | 1.62    | 8.55 |
| 23  | 4      | 0.00    | 8.28 |
| 24  | 4      | -0.48   | 8.20 |
| 25  | 4      | 0.48    | 8.36 |
| 26  | 4      | 0.30    | 8.33 |
| 30  | 3      | 0.72    | 8.40 |
| 32  | 3      | 0.72    | 8.40 |
| 33  | 4      | 0.00    | 8.28 |
| 36  | 4      | 0.30    | 8.33 |
| 38  | 3      | 0.72    | 8.40 |
| 39  | 3      | 0.72    | 8.40 |
| 40  | 4      | 0.42    | 8.35 |
| 42  | 0      | -2.28   | 7.90 |
| 43  | 4      | -0.42   | 8.21 |
| 46  | 3      | 0.60    | 8.38 |
| 48  | 1      | -1.68   | 8.00 |
| 50  | 4      | 0.18    | 8.31 |
| 51  | 4      | 0.06    | 8.29 |
| 55  | 1      | -1.68   | 8.00 |
| 56  | 4      | 0.42    | 8.35 |
| 57  | 4      | -0.48   | 8.20 |
| 59  | 3      | 0.72    | 8.40 |
| 64  | 3      | 0.60    | 8.38 |
| 68  | 3      | 0.60    | 8.38 |
| 69  | 3      | 0.72    | 8.40 |
| 70  | 4      | 0.00    | 8.28 |
| 75  | 4      | -0.06   | 8.27 |
| 76  | 4      | -0.12   | 8.26 |
| 80  | 3      | -0.66   | 8.17 |
| 81  | 3      | 0.54    | 8.37 |
| 85  | 3      | 0.54    | 8.37 |
| 86  | 4      | 0.42    | 8.35 |
| 87  | 1      | -1.98   | 7.95 |
| 89  | 3      | 0.66    | 8.39 |
| 92  | 3      | -0.84   | 8.14 |
| 96  | 4      | 0.36    | 8.34 |
| 97  | 3      | 0.54    | 8.37 |
| 105 | 4      | 0.36    | 8.34 |
| 107 | 2      | 1.26    | 8.49 |
| 109 | 3      | 0.84    | 8.42 |
| 113 | 4      | 0.24    | 8.32 |
| 114 | 2      | -1.26   | 8.07 |
| 118 | 0      | -2.28   | 7.90 |
| 119 | 2      | 1.32    | 8.50 |

| Lab | Rating | Z-value | 41   |
|-----|--------|---------|------|
| 127 | 4      | 0.18    | 8.31 |
| 128 | 3      | 0.90    | 8.43 |
| 129 | 1      | -1.74   | 7.99 |
| 132 | 2      | -1.38   | 8.05 |
| 133 | 3      | -0.78   | 8.15 |
| 134 | 3      | 0.96    | 8.44 |
| 138 | 4      | 0.06    | 8.29 |
| 140 | 4      | 0.30    | 8.33 |
| 141 | 4      | 0.42    | 8.35 |
| 142 | 4      | -0.12   | 8.26 |
| 143 | 3      | 0.60    | 8.38 |
| 145 | 4      | 0.12    | 8.30 |
| 146 | 3      | -0.78   | 8.15 |
| 149 | 3      | 0.72    | 8.40 |
| 151 | 3      | 0.66    | 8.39 |
| 155 | 4      | -0.24   | 8.24 |
| 158 | 4      | -0.12   | 8.26 |
| 180 | 3      | 0.72    | 8.40 |
| 183 | 4      | 0.30    | 8.33 |
| 190 | 2      | -1.08   | 8.10 |
| 191 | 3      | 0.66    | 8.39 |
| 203 | 4      | 0.18    | 8.31 |
| 204 | 3      | -0.72   | 8.16 |
| 212 | 4      | 0.12    | 8.30 |
| 213 | 4      | 0.42    | 8.35 |
| 215 | 4      | -0.18   | 8.25 |
| 217 | 3      | 0.72    | 8.40 |
| 218 | 1      | -1.56   | 8.02 |
| 221 | 2      | -1.20   | 8.08 |
| 224 | 3      | -0.66   | 8.17 |
| 234 | 3      | -0.90   | 8.13 |
| 236 | 4      | -0.24   | 8.24 |
| 240 | 4      | -0.24   | 8.24 |
| 241 | 4      | 0.12    | 8.30 |
| 243 | 0      | -2.22   | 7.91 |
| 244 | 4      | 0.36    | 8.34 |
| 247 | 1      | 1.68    | 8.56 |
| 249 | 1      | -1.80   | 7.98 |
| 253 | 4      | -0.48   | 8.20 |
| 255 | 2      | 1.26    | 8.49 |
| 256 | 2      | -1.38   | 8.05 |
| 257 | 4      | -0.42   | 8.21 |
| 258 | 4      | -0.48   | 8.20 |
| 259 | 2      | 1.32    | 8.50 |
| 261 | 1      | -1.98   | 7.95 |
| 262 | 0      | -5.16   | 7.42 |
| 265 | 3      | -0.96   | 8.12 |
| 268 | 2      | -1.08   | 8.10 |
| 271 | 0      | -2.70   | 7.83 |
| 272 | 4      | 0.00    | 8.28 |
| 273 | 4      | -0.48   | 8.20 |
| 274 | 0      | -2.28   | 7.90 |
| 276 | 0      | -3.48   | 7.70 |

Table 14. Statistical summary of reported data for standard reference water sample M-140 (major constituents)—Continued  
SiO<sub>2</sub> (Silica) mg/L



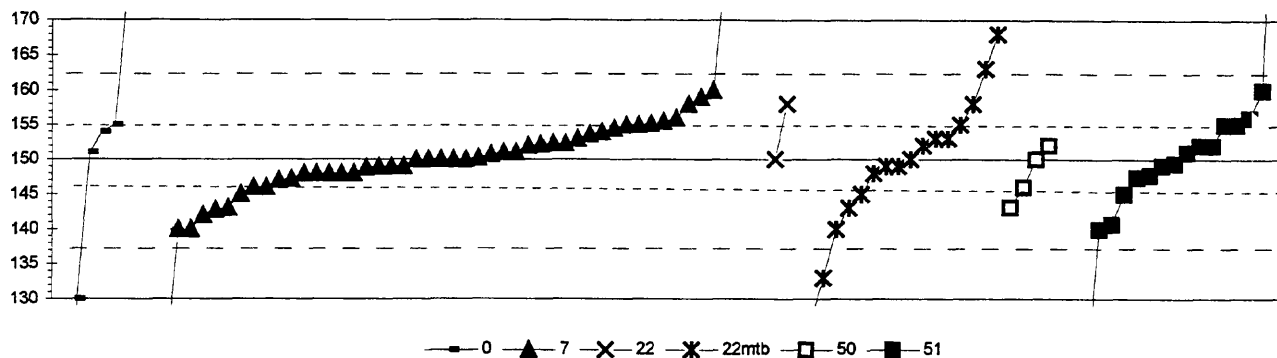
|                             |                             |
|-----------------------------|-----------------------------|
| 2. AA: direct nitrous oxide | 6. ICP/MS                   |
| 4. ICP                      | 22. Colorimetric            |
| 5. DCP                      | 22mb. Color: molybdate blue |
|                             | N =                         |
|                             | Minimum =                   |
|                             | Maximum =                   |
|                             | Median =                    |
|                             | F-pseudostigma =            |

| Lab | Rating | Z-value | 2    | 4     | 5    | 6    | 22   | 22mb |
|-----|--------|---------|------|-------|------|------|------|------|
| 1   | 3      | -1.00   |      | 6.89  |      |      |      |      |
| 3   | 0      | 2.35    |      | 8.43  |      |      |      |      |
| 5   | 3      | -0.59   |      | 7.08  |      |      |      |      |
| 10  | 4      | -0.11   |      |       |      |      |      | 7.30 |
| 13  | 4      | 0.04    |      | 7.37  |      |      |      |      |
| 15  | 2      | 1.35    |      |       |      |      | 7.97 |      |
| 18  | 4      | 0.20    |      |       |      |      |      | 7.44 |
| 23  | 3      | 0.87    |      |       |      |      |      | 7.75 |
| 24  | 3      | 0.89    |      |       | 7.76 |      |      |      |
| 25  | 0      | 8.03    |      | 11.04 |      |      |      |      |
| 26  | 4      | 0.39    |      | 7.53  |      |      |      |      |
| 32  | 4      | 0.33    |      |       |      | 7.50 |      |      |
| 33  | 3      | -0.54   |      |       | 7.10 |      |      |      |
| 38  | 4      | -0.13   |      |       |      |      |      | 7.29 |
| 40  | 4      | -0.37   |      | 7.18  |      |      |      |      |
| 42  | 2      | 1.41    |      | 8.00  |      |      |      |      |
| 43  | 4      | 0.33    |      | 7.50  |      |      |      |      |
| 46  | 3      | -0.67   |      |       |      |      |      | 7.04 |
| 50  | 4      | -0.11   |      |       |      |      |      | 7.30 |
| 55  | 4      | 0.02    |      | 7.36  |      |      |      |      |
| 57  | 4      | 0.11    |      | 7.40  |      |      |      |      |
| 59  | 3      | 0.76    |      |       |      |      |      | 7.70 |
| 68  | 3      | -0.65   |      |       |      | 7.05 |      |      |
| 70  | 3      | -0.54   |      |       |      |      |      | 7.10 |
| 80  | 0      | -4.03   | 5.50 |       |      |      |      |      |
| 81  | 4      | -0.24   |      |       |      |      |      | 7.24 |
| 83  | 2      | -1.28   |      | 6.76  |      |      |      |      |
| 85  | 4      | -0.07   |      |       |      |      |      | 7.32 |
| 87  | 4      | -0.37   |      |       |      |      |      | 7.18 |
| 89  | 2      | -1.20   |      |       |      |      |      | 6.80 |
| 97  | 4      | 0.04    |      |       |      |      |      | 7.37 |
| 102 | 2      | -1.50   |      |       |      |      |      | 6.66 |
| 105 | 4      | 0.22    |      | 7.45  |      |      |      |      |
| 107 | 4      | -0.30   |      |       |      |      |      | 7.21 |
| 113 | 4      | -0.02   |      |       |      |      | 7.34 |      |
| 118 | 4      | 0.26    |      |       |      |      |      | 7.47 |
| 119 | 3      | -0.76   |      | 7.00  |      |      |      |      |
| 121 | 4      | -0.50   |      | 7.12  |      |      |      |      |
| 127 | 4      | -0.30   |      | 7.21  |      |      |      |      |
| 128 | 3      | 0.96    |      | 7.79  |      |      |      |      |
| 129 | 2      | 1.31    |      |       |      |      |      | 7.95 |
| 134 | 4      | 0.25    |      | 7.47  |      |      |      |      |
| 138 | 4      | -0.46   |      |       |      |      |      | 7.14 |
| 140 | 4      | 0.11    |      |       |      | 7.40 |      |      |
| 142 | 0      | 2.31    |      | 8.41  |      |      |      |      |
| 145 | 2      | 1.31    |      | 7.95  |      |      |      |      |
| 151 | 0      | -3.20   |      |       |      |      |      | 5.88 |
| 155 | 3      | -0.58   |      |       |      |      |      | 7.08 |
| 190 | 3      | 0.76    |      |       |      |      |      | 7.70 |
| 191 | 0      | 2.96    |      |       |      | 8.71 |      |      |

MPV = 7.35  
F-pseudostigma = 0.46  
N = 66  
Hu = 7.70  
Hi = 7.08

| Lab | Rating | Z-value | 2    | 4    | 5 | 6 | 22    | 22mb |
|-----|--------|---------|------|------|---|---|-------|------|
| 203 | 3      | -0.98   |      |      |   |   |       | 6.90 |
| 204 | 4      | 0.15    |      |      |   |   |       | 7.42 |
| 212 | 2      | 1.20    |      | 7.90 |   |   |       |      |
| 215 | 1      | 1.59    |      | 8.08 |   |   |       |      |
| 217 | 0      | -2.76   |      | 6.08 |   |   |       |      |
| 219 | 4      | 0.33    |      | 7.50 |   |   |       |      |
| 234 | 4      | -0.33   |      | 7.20 |   |   |       |      |
| 235 | 1      | 1.98    |      | 8.26 |   |   |       |      |
| 236 | 0      | -5.85   |      | 4.66 |   |   |       |      |
| 240 | 2      | -1.02   |      | 6.88 |   |   |       |      |
| 241 | 3      | 0.72    | 7.68 |      |   |   |       |      |
| 255 | 4      | 0.07    |      |      |   |   |       | 7.38 |
| 256 | 1      | -1.52   |      |      |   |   | 6.65  |      |
| 259 | 3      | -0.76   |      |      |   |   |       | 7.00 |
| 265 | 2      | -1.09   |      | 6.85 |   |   |       |      |
| 274 | 0      | 16.49   |      |      |   |   | 14.93 |      |

Table 14. Statistical summary of reported data for standard reference water sample M-140 (major constituents)--Continued  
SO<sub>4</sub> (Sulfate) mg/L

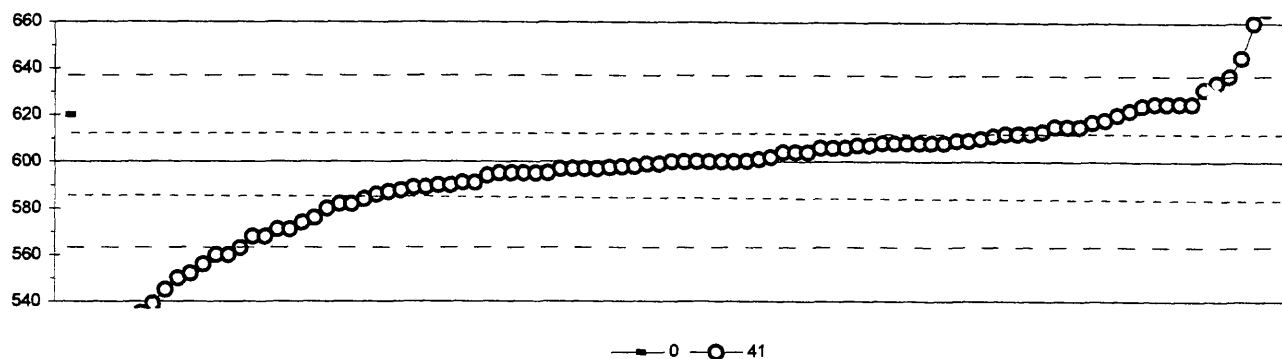


| 0. Other              |        |         | 22mtb. Color: methyl thymol blue |     |     |       |     |     |
|-----------------------|--------|---------|----------------------------------|-----|-----|-------|-----|-----|
| 7. Ion chromatography |        |         | 50. Gravimetric                  |     |     |       |     |     |
| 22. Colorimetric      |        |         | 51. Turbidimetric                |     |     |       |     |     |
| Lab                   | Rating | Z-value | 0                                | 7   | 22  | 22mtb | 50  | 51  |
| 1                     | 4      | 0.03    |                                  | 150 |     |       |     |     |
| 2                     | 4      | 0.30    |                                  |     |     |       | 152 |     |
| 3                     | 2      | -1.20   |                                  | 142 |     |       |     |     |
| 4                     | 4      | 0.34    |                                  | 152 |     |       |     |     |
| 5                     | 4      | 0.15    |                                  | 151 |     |       |     |     |
| 7                     | 3      | 0.67    |                                  | 155 |     |       |     |     |
| 10                    | 4      | 0.15    |                                  |     |     |       |     | 151 |
| 11                    | 0      | -21.75  |                                  | 5   |     |       |     |     |
| 13                    | 4      | 0.00    |                                  | 150 |     |       |     |     |
| 15                    | 2      | -1.50   |                                  | 140 |     |       |     |     |
| 16                    | 2      | -1.03   |                                  |     |     |       | 143 |     |
| 18                    | 4      | -0.30   |                                  |     |     | 148   |     |     |
| 19                    | 4      | -0.15   |                                  |     |     | 149   |     |     |
| 23                    | 2      | 1.20    |                                  |     | 158 |       |     |     |
| 24                    | 4      | 0.00    |                                  |     |     | 150   |     |     |
| 25                    | 4      | -0.30   |                                  | 148 |     |       |     |     |
| 26                    | 4      | 0.00    |                                  | 150 |     |       |     |     |
| 30                    | 4      | 0.00    |                                  | 150 |     |       |     |     |
| 32                    | 3      | -0.60   |                                  | 146 |     |       |     |     |
| 33                    | 4      | -0.42   |                                  | 147 |     |       |     |     |
| 36                    | 2      | 1.50    |                                  |     |     |       |     | 160 |
| 39                    | 4      | 0.00    |                                  | 150 |     |       |     |     |
| 40                    | 0      | -4.65   |                                  | 119 |     |       |     |     |
| 42                    | 0      | 7.04    |                                  | 197 |     |       |     |     |
| 43                    | 4      | 0.00    |                                  |     |     |       | 150 |     |
| 46                    | 0      | 5.25    |                                  | 185 |     |       |     |     |
| 48                    | 0      | -6.89   |                                  |     |     |       |     | 104 |
| 50                    | 4      | -0.15   |                                  |     |     | 149   |     |     |
| 51                    | 3      | 0.82    |                                  | 156 |     |       |     |     |
| 55                    | 0      | -2.55   |                                  |     |     | 133   |     |     |
| 56                    | 4      | -0.13   |                                  |     |     |       |     | 149 |
| 57                    | 2      | -1.50   |                                  |     |     |       |     | 140 |
| 59                    | 4      | -0.30   |                                  | 148 |     |       |     |     |
| 64                    | 4      | 0.10    |                                  | 151 |     |       |     |     |
| 69                    | 2      | 1.20    |                                  |     |     | 158   |     |     |
| 70                    | 3      | -0.60   |                                  | 146 |     |       |     |     |
| 75                    | 4      | 0.45    |                                  |     |     | 153   |     |     |
| 80                    | 0      | -3.00   | 130                              |     |     |       |     |     |
| 81                    | 3      | -0.75   |                                  |     |     | 145   |     |     |
| 83                    | 4      | 0.15    | 151                              |     |     |       |     |     |
| 85                    | 4      | -0.30   |                                  | 148 |     |       |     |     |
| 87                    | 0      | -3.45   |                                  |     |     | 127   |     |     |
| 89                    | 4      | -0.30   |                                  | 148 |     |       |     |     |
| 92                    | 4      | -0.39   |                                  |     |     |       |     | 147 |
| 96                    | 3      | -0.75   |                                  |     |     |       |     | 145 |
| 97                    | 4      | 0.45    |                                  |     |     | 153   |     |     |
| 102                   | 2      | -1.05   |                                  |     |     | 143   |     |     |
| 105                   | 2      | -1.50   |                                  | 140 |     |       |     |     |
| 109                   | 3      | 0.78    |                                  | 155 |     |       |     |     |
| 113                   | 3      | 0.60    |                                  | 154 |     |       |     |     |

MPV = 150  
F-pseudosigma = 7  
N = 98  
Hu = 155  
HI = 146

| Lab | Rating | Z-value | 0   | 7   | 22 | 22mtb | 50  | 51  |
|-----|--------|---------|-----|-----|----|-------|-----|-----|
| 114 | 4      | 0.30    |     |     |    |       |     | 152 |
| 119 | 2      | -1.05   |     | 143 |    |       |     |     |
| 127 | 2      | 1.35    |     | 159 |    |       |     |     |
| 128 | 3      | 0.75    |     | 155 |    |       |     |     |
| 129 | 4      | 0.00    |     | 150 |    |       |     |     |
| 134 | 4      | 0.30    |     | 152 |    |       |     |     |
| 138 | 4      | -0.15   |     | 149 |    |       |     |     |
| 140 | 3      | 0.75    | 155 |     |    |       |     |     |
| 141 | 3      | 0.90    |     |     |    |       |     | 156 |
| 142 | 1      | 1.95    |     |     |    | 163   |     |     |
| 145 | 4      | -0.18   |     | 149 |    |       |     |     |
| 146 | 3      | 0.75    |     |     |    |       |     | 155 |
| 149 | 2      | 1.50    |     | 160 |    |       |     |     |
| 151 | 4      | 0.15    |     | 151 |    |       |     |     |
| 158 | 4      | 0.30    |     |     |    | 152   |     |     |
| 180 | 2      | -1.50   |     |     |    | 140   |     |     |
| 190 | 0      | 4.05    |     | 177 |    |       |     |     |
| 191 | 4      | -0.15   |     | 149 |    |       |     |     |
| 193 | 4      | -0.15   |     | 149 |    |       |     |     |
| 196 | 3      | -0.75   |     | 145 |    |       |     |     |
| 203 | 0      | 2.70    |     |     |    | 168   |     |     |
| 204 | 3      | 0.75    |     |     |    | 155   |     |     |
| 212 | 3      | 0.90    |     | 156 |    |       |     |     |
| 215 | 3      | 0.75    |     |     |    |       |     | 155 |
| 217 | 2      | 1.20    |     | 158 |    |       |     |     |
| 219 | 0      | -16.49  |     | 40  |    |       |     |     |
| 220 | 4      | -0.34   |     |     |    |       |     | 148 |
| 221 | 3      | -0.60   |     |     |    |       | 146 |     |
| 224 | 4      | 0.32    |     | 152 |    |       |     |     |
| 234 | 4      | 0.45    |     | 153 |    |       |     |     |
| 235 | 0      | 3.60    | 174 |     |    |       |     |     |
| 236 | 4      | 0.34    |     | 152 |    |       |     |     |
| 240 | 4      | -0.45   |     | 147 |    |       |     |     |
| 241 | 4      | 0.30    |     |     |    |       |     | 152 |
| 247 | 2      | -1.08   |     | 143 |    |       |     |     |
| 249 | 2      | -1.39   |     |     |    |       |     | 141 |
| 253 | 0      | -4.95   |     |     |    |       |     | 117 |
| 255 | 0      | -4.50   |     |     |    | 120   |     |     |
| 256 | 3      | 0.65    | 154 |     |    |       |     |     |
| 257 | 0      | 6.75    |     | 195 |    |       |     |     |
| 258 | 0      | 7.46    |     |     |    |       |     | 200 |
| 259 | 4      | -0.30   |     | 148 |    |       |     |     |
| 261 | 0      | -20.13  | 16  |     |    | 150   |     |     |
| 262 | 4      | 0.00    |     |     |    |       |     |     |
| 265 | 3      | 0.75    |     | 155 |    |       |     |     |
| 268 | 3      | 0.55    |     | 154 |    |       |     |     |
| 271 | 0      | -20.01  |     |     |    |       |     | 17  |
| 274 | 4      | -0.09   |     |     |    |       |     | 149 |

Table 14. Statistical summary of reported data for standard reference water sample M-140 (major constituents)--Continued  
Sp Cond (Specific Conductance)  $\mu\text{S}/\text{cm}$



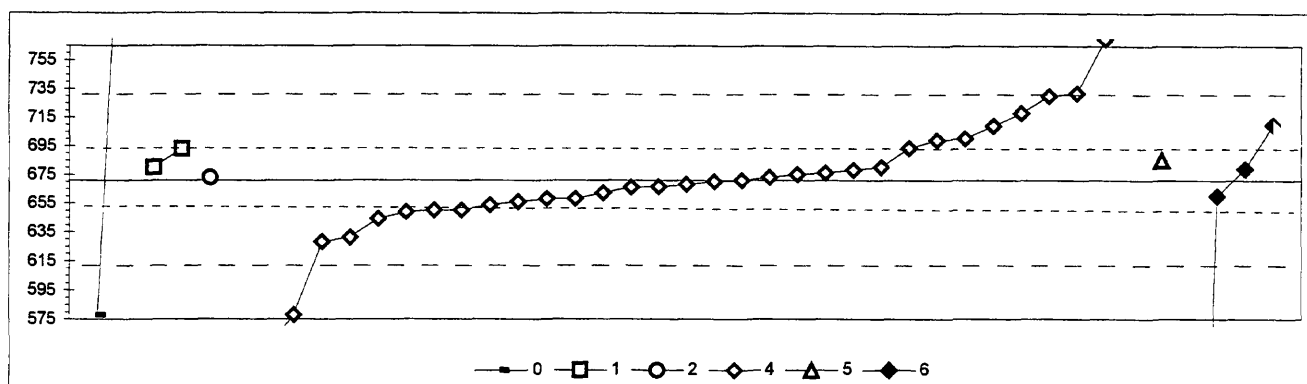
|                    |                 |     |     |  |
|--------------------|-----------------|-----|-----|--|
| 0. Other           |                 |     |     |  |
| 41. Direct reading |                 |     |     |  |
|                    | N =             | 1   | 99  |  |
|                    | Minimum =       | 620 | 70  |  |
|                    | Maximum =       |     | 719 |  |
|                    | Median =        |     | 600 |  |
|                    | F-pseudosigma = |     | 19  |  |

MPV = 600  
F-pseudosigma = 19  
N = 100  
Hu = 612  
Hi = 587

| Lab | Rating | Z-value | 0 | 41  |
|-----|--------|---------|---|-----|
| 1   | 4      | 0.02    |   | 600 |
| 2   | 3      | -0.76   |   | 586 |
| 3   | 4      | 0.43    |   | 608 |
| 5   | 3      | 0.65    |   | 612 |
| 7   | 1      | -1.56   |   | 571 |
| 10  | 4      | 0.32    |   | 606 |
| 11  | 4      | -0.16   |   | 597 |
| 13  | 4      | 0.43    |   | 608 |
| 15  | 4      | -0.05   |   | 599 |
| 16  | 4      | -0.12   |   | 598 |
| 18  | 1      | -2.00   |   | 563 |
| 19  | 0      | 3.56    |   | 666 |
| 23  | 1      | -1.73   |   | 568 |
| 24  | 4      | 0.00    |   | 600 |
| 25  | 4      | 0.38    |   | 607 |
| 26  | 4      | 0.32    |   | 606 |
| 32  | 4      | 0.05    |   | 601 |
| 33  | 1      | -1.56   |   | 571 |
| 36  | 0      | -28.60  |   | 70  |
| 38  | 3      | 0.65    |   | 612 |
| 39  | 3      | -0.86   |   | 584 |
| 40  | 4      | 0.43    |   | 608 |
| 42  | 4      | 0.22    |   | 604 |
| 43  | 4      | 0.00    |   | 600 |
| 46  | 4      | -0.05   |   | 599 |
| 48  | 4      | 0.43    |   | 608 |
| 50  | 2      | 1.19    |   | 622 |
| 51  | 2      | -1.08   |   | 580 |
| 55  | 2      | 1.35    |   | 625 |
| 56  | 4      | -0.14   |   | 597 |
| 57  | 0      | 3.24    |   | 660 |
| 59  | 3      | -0.66   |   | 588 |
| 64  | 3      | 0.70    |   | 613 |
| 68  | 4      | 0.43    |   | 608 |
| 70  | 3      | -0.70   |   | 587 |
| 75  | 3      | 0.54    |   | 610 |
| 80  | 4      | 0.00    |   | 600 |
| 81  | 4      | 0.00    |   | 600 |
| 86  | 2      | 1.30    |   | 624 |
| 87  | 0      | -15.11  |   | 320 |
| 89  | 3      | -0.59   |   | 589 |
| 90  | 0      | -2.59   |   | 552 |
| 92  | 4      | -0.17   |   | 597 |
| 96  | 3      | 0.97    |   | 618 |
| 97  | 2      | 1.35    |   | 625 |
| 102 | 0      | 6.42    |   | 719 |
| 105 | 3      | 0.81    |   | 615 |
| 107 | 4      | -0.49   |   | 591 |
| 109 | 4      | -0.49   |   | 591 |
| 113 | 3      | -0.54   |   | 590 |

| Lab | Rating | Z-value | 0   | 41  |
|-----|--------|---------|-----|-----|
| 114 | 4      | 0.43    |     | 608 |
| 118 | 3      | -0.54   |     | 590 |
| 119 | 4      | -0.16   |     | 597 |
| 127 | 4      | -0.27   |     | 595 |
| 128 | 3      | 0.81    |     | 615 |
| 129 | 3      | -0.97   |     | 582 |
| 132 | 0      | -7.72   |     | 457 |
| 134 | 4      | 0.32    |     | 606 |
| 138 | 4      | -0.16   |     | 597 |
| 140 | 0      | 5.83    |     | 708 |
| 141 | 4      | 0.38    |     | 607 |
| 142 | 4      | 0.22    |     | 604 |
| 145 | 3      | 0.81    |     | 615 |
| 146 | 4      | -0.27   |     | 595 |
| 149 | 3      | 0.65    |     | 612 |
| 151 | 4      | 0.11    |     | 602 |
| 155 | 1      | 1.67    |     | 631 |
| 158 | 4      | 0.49    |     | 609 |
| 180 | 2      | 1.08    |     | 620 |
| 183 | 0      | -3.51   |     | 535 |
| 190 | 4      | 0.22    |     | 604 |
| 193 | 1      | -1.73   |     | 568 |
| 203 | 4      | -0.11   |     | 598 |
| 204 | 4      | -0.32   |     | 594 |
| 212 | 1      | 2.00    |     | 637 |
| 215 | 2      | -1.40   |     | 574 |
| 217 | 2      | 1.35    |     | 625 |
| 218 | 0      | -2.37   |     | 556 |
| 224 | 0      | -2.16   |     | 560 |
| 234 | 3      | 0.59    |     | 611 |
| 236 | 3      | -0.59   |     | 589 |
| 240 | 2      | -1.30   |     | 576 |
| 241 | 0      | -10.03  |     | 414 |
| 243 | 4      | -0.27   |     | 595 |
| 244 | 4      | 0.00    |     | 600 |
| 247 | 4      | -0.27   |     | 595 |
| 249 | 3      | 0.92    |     | 617 |
| 253 | 2      | 1.35    |     | 625 |
| 255 | 4      | -0.27   |     | 595 |
| 257 | 4      | 0.00    |     | 600 |
| 258 | 0      | -3.29   |     | 539 |
| 259 | 4      | 0.49    |     | 609 |
| 261 | 0      | -4.21   |     | 522 |
| 262 | 3      | -0.97   |     | 582 |
| 268 | 0      | -2.16   |     | 560 |
| 271 | 0      | -2.97   |     | 545 |
| 272 | 0      | 2.43    |     | 645 |
| 273 | 2      | 1.08    | 620 |     |
| 274 | 1      | 1.83    |     | 634 |
| 276 | 0      | -2.70   |     | 550 |

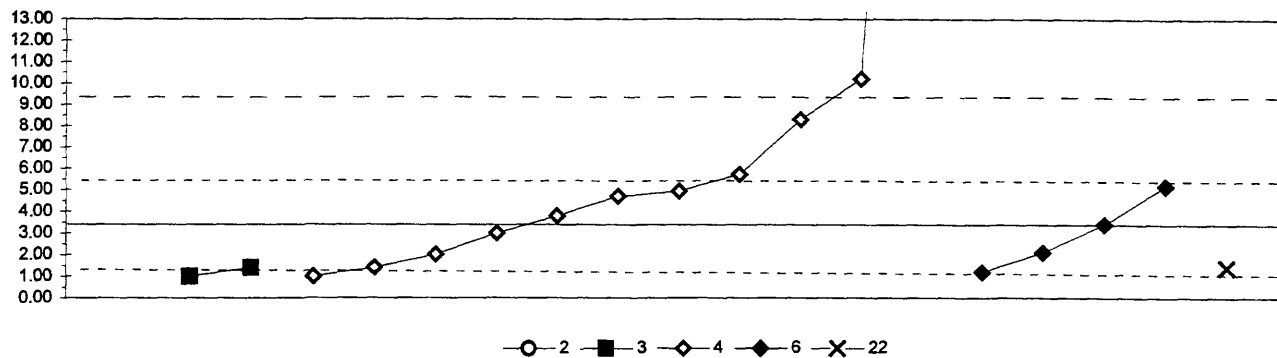
Table 14. Statistical summary of reported data for standard reference water sample M-140 (major constituents)—Continued  
Sr (Strontium)  $\mu\text{g/L}$



| 0. Other                    |                  |         | 4. ICP    |     |     |
|-----------------------------|------------------|---------|-----------|-----|-----|
| 1. AA: direct air           |                  |         | 5. DCP    |     |     |
| 2. AA: direct nitrous oxide |                  |         | 6. ICP/MS |     |     |
|                             | N =              |         | 2         | 2   | 1   |
|                             | Minimum =        |         | 578       | 680 | 673 |
|                             | Maximum =        |         | 958       | 693 | 784 |
|                             | Median =         |         |           |     | 668 |
|                             | F-pseudostigma = |         |           |     | 32  |
| Lab                         | Rating           | Z-value | 0         | 1   | 2   |
| 1                           | 4                | -0.15   |           |     | 666 |
| 3                           | 0                | 3.67    |           |     | 784 |
| 5                           | 4                | -0.03   |           |     | 670 |
| 11                          | 0                | -21.27  |           |     | 17  |
| 16                          | 2                | -1.40   |           |     | 628 |
| 18                          | 3                | -0.68   |           |     | 650 |
| 23                          | 3                | 0.72    |           | 693 |     |
| 24                          | 4                | 0.16    |           |     | 676 |
| 25                          | 1                | 1.92    |           |     | 730 |
| 28                          | 4                | 0.00    |           |     | 671 |
| 32                          | 4                | 0.26    |           |     | 679 |
| 33                          | 4                | 0.46    |           |     | 685 |
| 40                          | 3                | -0.68   |           |     | 650 |
| 42                          | 4                | -0.49   |           |     | 656 |
| 55                          | 3                | -0.88   |           |     | 644 |
| 68                          | 4                | 0.13    |           |     | 675 |
| 70                          | 4                | 0.07    |           |     | 673 |
| 81                          | 4                | -0.29   |           |     | 662 |
| 85                          | 1                | 1.53    |           |     | 718 |
| 86                          | 4                | -0.16   |           |     | 666 |
| 97                          | 0                | -3.02   | 578       |     |     |
| 102                         | 1                | 1.98    |           |     | 732 |
| 105                         | 0                | -3.80   |           |     | 554 |
| 113                         | 4                | 0.29    |           |     | 680 |
| 121                         | 4                | 0.23    |           |     | 678 |
| 127                         | 2                | -1.30   |           |     | 631 |
| 134                         | 3                | -0.57   |           |     | 654 |
| 138                         | 4                | -0.42   |           |     | 658 |
| 142                         | 3                | 0.73    |           |     | 694 |
| 145                         | 3                | 0.91    |           |     | 699 |
| 151                         | 2                | 1.27    |           |     | 710 |
| 190                         | 0                | 9.33    | 958       |     |     |
| 191                         | 0                | -21.79  |           |     | 1   |
| 212                         | 4                | -0.36   |           |     | 660 |
| 217                         | 0                | -3.02   |           |     | 578 |
| 218                         | 4                | 0.07    |           | 673 |     |
| 219                         | 3                | 0.94    |           |     | 700 |
| 234                         | 4                | -0.10   |           |     | 668 |
| 235                         | 2                | 1.24    |           |     | 709 |
| 236                         | 3                | -0.73   |           |     | 649 |
| 259                         | 4                | 0.29    |           | 680 |     |
| 265                         | 4                | -0.42   |           |     | 658 |
| 273                         | 0                | 3.22    |           |     | 770 |

MPV = 671  
F-pseudostigma = 31  
N = 43  
Hu = 693  
Hi = 652

Table 14. Statistical summary of reported data for standard reference water sample M-140 (major constituents)—Continued  
V (Vanadium)  $\mu\text{g/L}$



|                             |                           |
|-----------------------------|---------------------------|
| 2. AA: direct nitrous oxide | 6. ICP/MS                 |
| 3. AA: graphite furnace     | 22. Colorimetric          |
| 4. ICP                      | 0. Other                  |
| N =                         | 1 2 11 4 1                |
| Minimum =                   | 39.00 1.00 1.00 1.20 1.40 |
| Maximum =                   | 1.40 50.00 5.19           |
| Median =                    | 4.70                      |
| F-pseudostigma =            | 3.34                      |

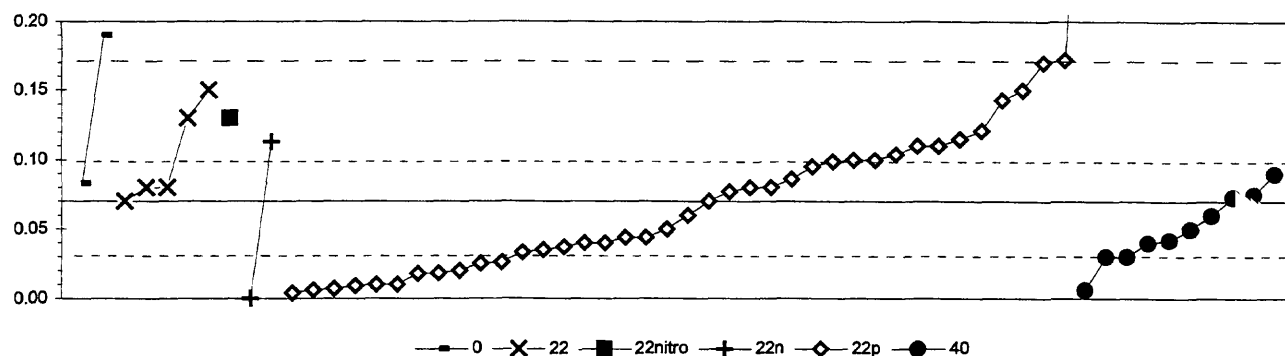
MPV = 3.42  
F-pseudostigma = 3.01  
N = 19  
Hu = 5.46  
Hi = 1.40

| Lab | Rating | Z-value | 2     | 3    | 4     | 6    | 22   |
|-----|--------|---------|-------|------|-------|------|------|
| 1   | 3      | -0.67   |       |      |       |      | 1.40 |
| 3   | 4      | -0.14   |       |      | 3.00  |      |      |
| 5   | NR     |         |       |      | < 4   |      |      |
| 13  | NR     |         |       |      | < 50  |      |      |
| 15  | NR     |         |       |      | < 10  |      |      |
| 16  | 3      | 0.59    |       |      |       | 5.19 |      |
| 18  | NR     |         |       |      | < 5   |      |      |
| 23  | NR     |         |       | < 5  |       |      |      |
| 26  | NR     |         |       |      | < 4   |      |      |
| 28  | 0      | 2.25    |       |      | 10.20 |      |      |
| 42  | NR     |         |       |      |       | < 5  |      |
| 48  | NR     |         |       |      | < 200 |      |      |
| 57  | NR     |         |       |      | < 100 |      |      |
| 68  | 0      | 15.48   |       |      | 50.00 |      |      |
| 70  | NR     |         |       |      | < 50  |      |      |
| 81  | NR     |         |       |      | < 3   |      |      |
| 85  | NR     |         |       |      | < 20  |      |      |
| 86  | 3      | 0.77    |       |      | 5.73  |      |      |
| 89  | NR     |         |       | < 10 |       |      |      |
| 97  | NR     |         |       | < 0  |       |      |      |
| 105 | NR     |         |       |      | < 13  |      |      |
| 127 | 3      | -0.67   |       | 1.40 |       |      |      |
| 134 | NR     |         |       |      | < 1   |      |      |
| 138 | NR     |         |       |      |       | < 2  |      |
| 141 | NR     |         |       |      | < 10  |      |      |
| 142 | 4      | 0.00    |       |      |       | 3.42 |      |
| 145 | 4      | 0.43    |       |      | 4.70  |      |      |
| 146 | NR     |         |       |      | < 10  |      |      |
| 180 | 3      | 0.51    |       |      | 4.95  |      |      |
| 212 | 4      | -0.44   |       |      |       | 2.10 |      |
| 219 | 3      | -0.80   |       |      | 1.00  |      |      |
| 224 | 1      | 1.62    |       |      | 8.30  |      |      |
| 234 | 4      | -0.47   |       |      | 2.02  |      |      |
| 235 | NR     |         |       |      | < 5   |      |      |
| 236 | 4      | 0.13    |       |      | 3.80  |      |      |
| 241 | 3      | -0.80   |       | 1.00 |       |      |      |
| 255 | 3      | -0.67   |       |      | 1.40  |      |      |
| 257 | 0      | 11.82   | 39.00 |      |       |      |      |
| 265 | 3      | -0.74   |       |      |       | 1.20 |      |

Table 15. *Statistical summary of reported data for standard reference water sample N-51 (nutrients)*

| 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-pseudostigma =                 | 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 <sub>3</sub> as N   | Ammonia as nitrogen              | <u>page</u><br>120                                |
| NH <sub>3</sub> +Org N as N                                  | Ammonia plus organic nitrogen    | 121   |
| NO <sub>3</sub> +NO <sub>2</sub> as N                        | Nitrate plus nitrite as nitrogen | 122   |
| Total P as P   | Total Phosphorus as phosphorus   | 123   |
| PO <sub>4</sub> as P   | Orthophosphate as phosphorus     | 124   |

Table 15. Statistical summary of reported data for standard reference water sample N-51 (nutrient constituents)--Continued  
 $\text{NH}_3$  as N (Ammonia as nitrogen) mg/L

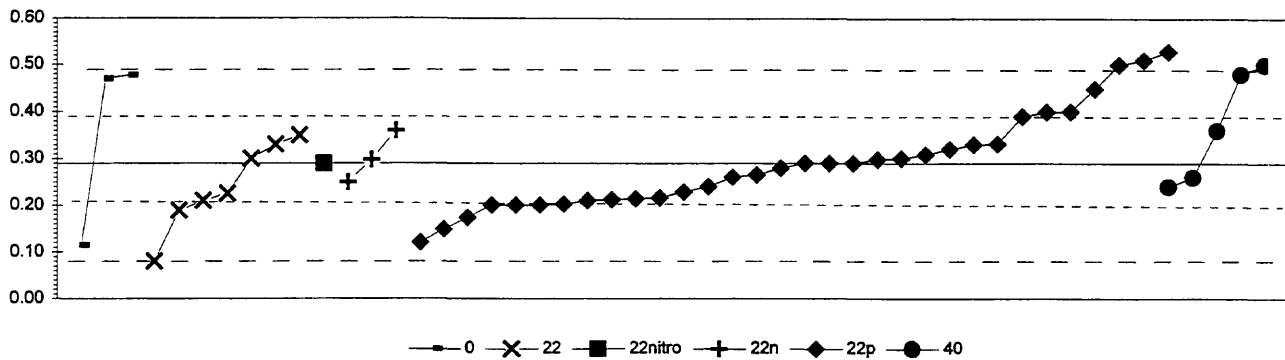


| 0. Other                      |        |                  | 22n. Color: Nesslerization  |        |         |        |        |       |
|-------------------------------|--------|------------------|-----------------------------|--------|---------|--------|--------|-------|
| 22. Colorimetric              |        |                  | 22p. Color: phenate         |        |         |        |        |       |
| 22nitro. Color: nitroprusside |        |                  | 40. Ion selective electrode |        |         |        |        |       |
|                               |        | N =              | 2                           | 5      | 1       | 2      | 39     | 10    |
|                               |        | Minimum =        | 0.08                        | 0.07   | 0.13    | 0.00   | 0.00   | 0.01  |
|                               |        | Maximum =        | 0.19                        | 0.15   |         | 0.11   | 0.34   | 0.09  |
|                               |        | Median =         |                             |        |         |        | 0.06   | 0.05  |
|                               |        | F-pseudostigma = |                             |        |         |        | 0.06   | 0.03  |
| Lab                           | Rating | Z-value          | 0                           | 22     | 22nitro | 22n    | 22p    | 40    |
| 1                             | 3      | -0.85            |                             |        |         |        | 0.03   |       |
| 2                             | 4      | -0.39            |                             |        |         |        |        | 0.05  |
| 5                             | 1      | 1.54             |                             |        |         |        | 0.15   |       |
| 7                             | 2      | 1.16             |                             |        | 0.13    |        |        |       |
| 10                            | 4      | 0.39             |                             |        |         |        |        | 0.09  |
| 11                            | 1      | 1.93             |                             |        |         |        | 0.17   |       |
| 13                            | NR     |                  |                             |        |         |        | < 0.02 |       |
| 15                            | NR     |                  |                             |        |         |        | < 0.05 |       |
| 16                            | 4      | 0.25             | 0.08                        |        |         |        |        |       |
| 18                            | 2      | 1.41             |                             |        |         |        | 0.14   |       |
| 21                            | 2      | -1.23            |                             |        |         |        | 0.01   |       |
| 23                            | NR     |                  |                             |        |         |        | < 0.1  |       |
| 25                            | 4      | 0.19             |                             | 0.08   |         |        |        |       |
| 28                            | 0      | 5.20             |                             |        |         |        | 0.34   |       |
| 33                            | 3      | -0.64            |                             |        |         |        | 0.04   |       |
| 38                            | 2      | -1.21            |                             |        |         |        | 0.01   |       |
| 39                            | 3      | 0.58             |                             |        |         |        | 0.10   |       |
| 48                            | 3      | 0.77             |                             |        |         |        | 0.11   |       |
| 53                            | 3      | 0.83             |                             |        |         | 0.11   |        |       |
| 55                            | 3      | 0.87             |                             |        |         |        | 0.12   |       |
| 56                            | 3      | -0.58            |                             |        |         |        |        | 0.04  |
| 58                            | 3      | -0.77            |                             |        |         |        |        | 0.03  |
| 59                            | 4      | -0.39            |                             |        |         |        | 0.05   |       |
| 64                            | 4      | -0.19            |                             |        |         |        | 0.06   |       |
| 68                            | 1      | 1.54             |                             | 0.15   |         |        |        |       |
| 70                            | NR     |                  |                             |        |         |        | < 0.1  |       |
| 80                            | NR     |                  |                             |        |         | < 0.02 |        |       |
| 81                            | NR     |                  |                             |        |         |        | < 0.05 |       |
| 83                            | NR     |                  |                             | < 0.01 |         |        |        |       |
| 85                            | 3      | -0.71            |                             |        |         |        | 0.03   |       |
| 87                            | 4      | 0.00             |                             |        |         |        | 0.07   |       |
| 88                            | 4      | -0.50            |                             |        |         |        | 0.04   |       |
| 89                            | 3      | -1.00            |                             |        |         |        | 0.02   |       |
| 90                            | 4      | 0.13             |                             |        |         |        | 0.08   |       |
| 91                            | NR     |                  |                             |        |         |        | < 0.03 |       |
| 96                            | 4      | 0.31             |                             |        |         |        | 0.09   |       |
| 97                            | 3      | 0.56             |                             |        |         |        | 0.10   |       |
| 104                           | 2      | -1.18            |                             |        |         |        | 0.01   |       |
| 105                           | 4      | 0.19             |                             | 0.08   |         |        |        |       |
| 110                           | 4      | 0.48             |                             |        |         |        | 0.10   |       |
| 114                           | NR     |                  |                             |        |         |        |        | < 0.1 |
| 118                           | 3      | -0.58            |                             |        |         |        | 0.04   |       |
| 119                           | 3      | -0.77            |                             |        |         |        |        | 0.03  |
| 127                           | 3      | -1.00            |                             |        |         |        | 0.02   |       |
| 128                           | 3      | 0.77             |                             |        |         |        | 0.11   |       |
| 129                           | NR     | -1.35            |                             |        |         | 0.00   |        |       |
| 132                           | 4      | 0.19             |                             |        |         |        | 0.08   |       |
| 133                           | 4      | 0.10             |                             |        |         |        |        | 0.08  |
| 134                           | 4      | -0.50            |                             |        |         |        | 0.04   |       |
| 138                           | 3      | -0.87            |                             |        |         |        | 0.03   |       |

MPV = 0.07  
 F-pseudostigma = 0.05  
 N = 59  
 Hu = 0.10  
 HI = 0.03

| Lab | Rating | Z-value | 0    | 22   | 22nitro | 22n | 22p | 40      |
|-----|--------|---------|------|------|---------|-----|-----|---------|
| 140 | 4      | 0.00    |      | 0.07 |         |     |     |         |
| 141 | 1      | 1.97    |      |      |         |     |     | 0.17    |
| 142 | 3      | -0.96   |      |      |         |     |     | 0.02    |
| 143 | 2      | -1.16   |      |      |         |     |     | 0.01    |
| 145 | NR     |         |      |      |         |     |     | < 0.02  |
| 146 | NR     |         |      |      |         |     |     | < 0.03  |
| 149 | 2      | -1.16   |      |      |         |     |     | 0.01    |
| 151 | 4      | -0.19   |      |      |         |     |     | 0.06    |
| 155 | 3      | 0.66    |      |      |         |     |     | 0.10    |
| 158 | 3      | -0.67   |      |      |         |     |     | 0.04    |
| 180 | NR     |         |      |      |         |     |     | < 0.02  |
| 190 | 3      | 0.58    |      |      |         |     |     | 0.10    |
| 197 | 2      | 1.16    |      | 0.13 |         |     |     |         |
| 203 | 4      | 0.19    |      |      |         |     |     | 0.08    |
| 204 | NR     |         |      |      |         |     |     | < 0.005 |
| 212 | NR     |         |      |      |         |     |     | < 0.1   |
| 213 | NR     |         | < 1  |      |         |     |     | < 0.01  |
| 215 | NR     |         |      |      |         |     |     | 0.00    |
| 220 | 2      | -1.27   |      |      |         |     |     |         |
| 221 | 3      | -0.54   |      |      |         |     |     | 0.04    |
| 224 | 2      | 1.02    |      |      |         |     |     | 0.12    |
| 234 | 4      | 0.06    |      |      |         |     |     | 0.07    |
| 240 | 0      | 2.31    | 0.19 |      |         |     |     |         |
| 241 | 2      | -1.23   |      |      |         |     |     | 0.01    |
| 243 | 3      | -0.58   |      |      |         |     |     | 0.04    |

Table 15. Statistical summary of reported data for standard reference water sample N-51 (nutrient constituents)—Continued  
 NH<sub>3</sub> + Org. N as N (Ammonia + Organic nitrogen as nitrogen) mg/L



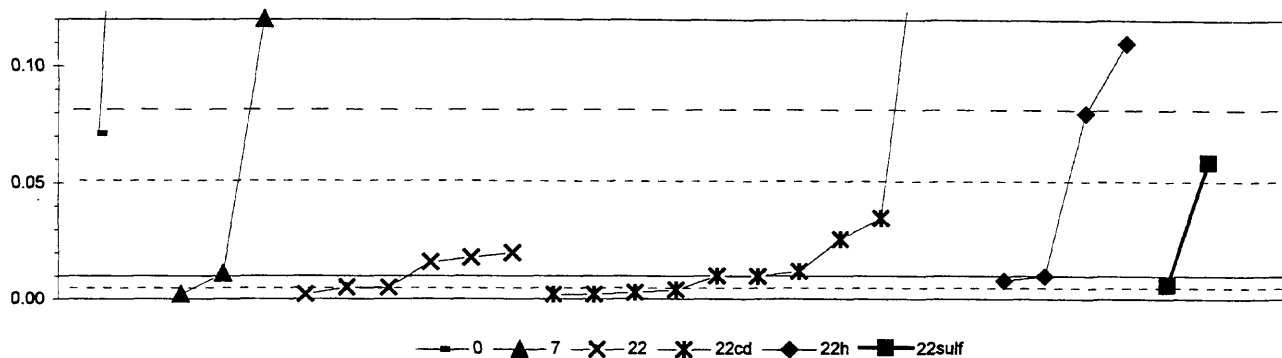
|                               |      |      |      |      |      |      |  |
|-------------------------------|------|------|------|------|------|------|--|
| 0. Other                      |      |      |      |      |      |      |  |
| 22. Colorimetric              |      |      |      |      |      |      |  |
| 22nitro. Color: nitroprusside |      |      |      |      |      |      |  |
| N =                           | 3    | 7    | 1    | 3    | 31   | 5    |  |
| Minimum =                     | 0.11 | 0.08 | 0.29 | 0.25 | 0.12 | 0.24 |  |
| Maximum =                     | 0.48 | 0.35 |      | 0.36 | 0.53 | 0.50 |  |
| Median =                      |      | 0.23 |      |      | 0.28 |      |  |
| F-pseudosigma =               |      | 0.09 |      |      | 0.09 |      |  |

MPV = 0.29  
 F-pseudosigma = 0.10  
 N = 51  
 Hu = 0.35  
 HI = 0.21

| Lab | Rating | Z-value | 0    | 22    | 22nitro | 22n  | 22p  | 40   |
|-----|--------|---------|------|-------|---------|------|------|------|
| 1   | 3      | -0.72   |      |       |         |      | 0.22 |      |
| 2   | 0      | 2.07    |      |       |         |      |      | 0.50 |
| 10  | 4      | -0.29   |      |       |         |      | 0.26 |      |
| 11  | 3      | 0.69    |      |       |         | 0.36 |      |      |
| 15  | 0      | 2.35    |      |       |         |      | 0.53 |      |
| 16  | 1      | -1.73   | 0.11 |       |         |      |      |      |
| 18  | 2      | -1.15   |      |       |         |      | 0.17 |      |
| 21  | 4      | 0.00    |      |       |         |      | 0.29 |      |
| 23  | 0      | 2.07    |      |       |         |      | 0.50 |      |
| 25  | 0      | -2.06   |      | 0.08  |         |      |      |      |
| 38  | 4      | -0.39   |      |       |         | 0.25 |      |      |
| 48  | 3      | 0.99    |      |       |         |      | 0.39 |      |
| 55  | 4      | 0.09    |      | 0.30  |         |      |      |      |
| 56  | 3      | -0.64   |      | 0.23  |         |      |      |      |
| 58  | 1      | 1.88    |      |       |         |      |      | 0.48 |
| 59  | 3      | -0.88   |      |       |         |      | 0.20 |      |
| 68  | 4      | 0.40    |      | 0.33  |         |      |      |      |
| 70  | 4      | 0.00    |      |       |         |      | 0.29 |      |
| 81  | 2      | 1.08    |      |       |         |      | 0.40 |      |
| 85  | 3      | -0.88   |      |       |         |      | 0.20 |      |
| 87  | 1      | -1.67   |      |       |         |      | 0.12 |      |
| 89  | 2      | -1.39   |      |       |         |      | 0.15 |      |
| 91  | 4      | 0.30    |      |       |         |      | 0.32 |      |
| 96  | 3      | -0.61   |      |       |         |      | 0.23 |      |
| 97  | 4      | 0.41    |      |       |         |      | 0.33 |      |
| 102 | 4      | 0.10    |      |       |         |      | 0.30 |      |
| 104 | 4      | -0.24   |      |       |         |      | 0.27 |      |
| 105 | NR     |         |      | < 0.2 |         |      |      |      |
| 118 | 4      | -0.49   |      |       |         |      | 0.24 |      |
| 119 | 3      | 0.69    |      |       |         |      |      | 0.36 |
| 127 | 4      | 0.18    |      |       |         |      | 0.31 |      |
| 128 | 3      | -0.88   |      |       |         |      | 0.20 |      |
| 129 | 4      | 0.07    |      |       |         | 0.30 |      |      |
| 133 | 4      | -0.49   |      |       |         |      |      | 0.24 |
| 134 | 4      | 0.08    |      |       |         |      | 0.30 |      |
| 138 | 4      | -0.10   |      |       |         |      | 0.28 |      |
| 140 | 3      | -0.78   |      | 0.21  |         |      |      |      |
| 141 | NR     |         |      |       |         | < 1  |      |      |
| 142 | 3      | -0.86   |      |       |         |      | 0.20 |      |
| 143 | 4      | 0.00    |      |       |         |      | 0.29 |      |
| 145 | 3      | -0.78   |      |       |         |      | 0.21 |      |
| 155 | 3      | -0.75   |      |       |         |      | 0.21 |      |
| 180 | 3      | -0.76   |      |       |         |      | 0.21 |      |
| 190 | 2      | 1.09    |      |       |         |      | 0.40 |      |
| 203 | 3      | 0.59    |      | 0.35  |         |      |      |      |
| 204 | 3      | -1.00   |      | 0.19  |         |      |      |      |
| 212 | 4      | 0.40    |      |       |         |      | 0.33 |      |
| 213 | NR     |         | < 1  |       |         |      |      |      |
| 215 | 0      | 2.17    |      |       |         |      | 0.51 |      |
| 221 | 1      | 1.85    | 0.48 |       |         |      |      |      |

| Lab | Rating | Z-value | 0    | 22 | 22nitro | 22n | 22p  | 40   |
|-----|--------|---------|------|----|---------|-----|------|------|
| 224 | 1      | -1.58   |      |    |         |     | 0.45 |      |
| 240 | 1      | 1.78    | 0.47 |    |         |     |      |      |
| 241 | 4      | -0.29   |      |    |         |     |      | 0.26 |
| 253 | 4      | 0.00    |      |    | 0.29    |     |      |      |

Table 15. *Statistical summary of reported data for standard reference water sample N-51 (nutrient constituents)—Continued*  
 $\text{NO}_3 + \text{NO}_2$  as N (Nitrate + nitrite as nitrogen) mg/L



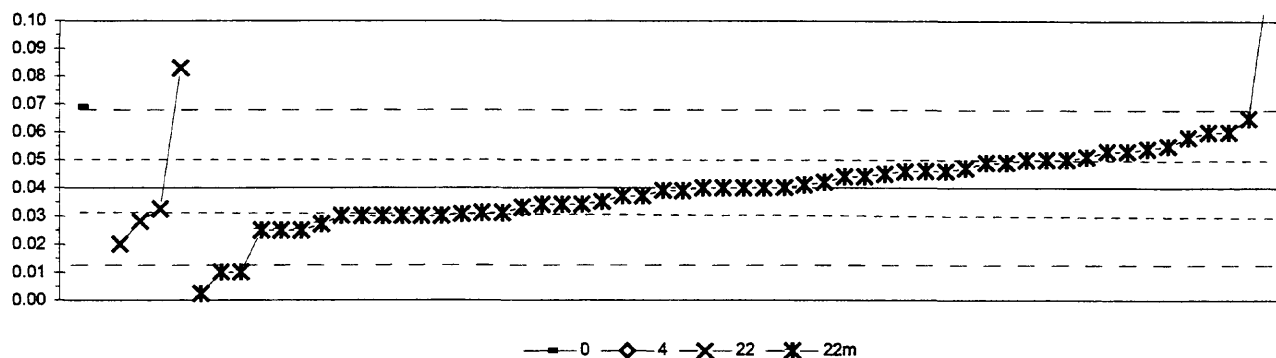
|                       |                 |      |      |      |      |      |
|-----------------------|-----------------|------|------|------|------|------|
| 0. Other              |                 |      |      |      |      |      |
| 7. Ion chromatography |                 |      |      |      |      |      |
| 22. Colorimetric      |                 |      |      |      |      |      |
|                       | N =             | 2    | 3    | 6    | 11   | 4    |
|                       | Minimum =       | 0.07 | 0.00 | 0.00 | 0.00 | 0.01 |
|                       | Maximum =       | 0.40 | 0.12 | 0.02 | 1.16 | 0.11 |
|                       | Median =        |      |      |      | 0.01 |      |
|                       | F-pseudosigma = |      |      |      | 0.02 |      |

MPV = 0.01  
F-pseudosigma = 0.04  
N = 28  
Hu = 0.05  
Hi = 0.01

| Lab | Rating | Z-value | 0      | 7      | 22     | 22cd    | 22h    | 22sulf |
|-----|--------|---------|--------|--------|--------|---------|--------|--------|
| 1   | NR     |         |        |        |        | < 0.005 |        |        |
| 2   | NR     |         |        | < 0.02 |        |         |        |        |
| 5   | NR     |         |        |        |        | < 0.03  |        |        |
| 7   | NR     |         |        |        |        |         | < 0.05 |        |
| 10  | NR     |         |        |        |        | < 0.01  |        |        |
| 13  | NR     |         |        | < 0.06 |        |         |        |        |
| 15  | NR     |         |        |        |        | < 0.02  |        |        |
| 16  | 1      | 1.69    | 0.07   |        |        |         |        |        |
| 18  | NR     |         |        |        |        | < 0.01  |        |        |
| 21  | 4      | -0.03   |        |        |        |         | 0.01   |        |
| 23  | NR     |         |        |        |        | < 0.05  |        |        |
| 25  | 4      | -0.17   |        |        | 0.01   |         |        |        |
| 36  | NR     |         |        |        |        | < 0.05  |        |        |
| 38  | 4      | -0.25   |        |        |        | 0.00    |        |        |
| 48  | NR     |         |        |        |        |         | < 0.08 |        |
| 53  | 0      | 10.79   | 0.40   |        |        |         |        |        |
| 56  | NR     |         |        |        | < 0.02 |         |        |        |
| 59  | NR     |         |        |        |        | < 0.04  |        |        |
| 64  | NR     |         |        |        |        | < 0.02  |        |        |
| 68  | 4      | -0.17   |        |        | 0.01   |         |        |        |
| 69  | NR     |         |        |        |        | < 0.05  |        |        |
| 70  | NR     |         |        |        |        | < 0.1   |        |        |
| 75  | NR     |         |        |        |        | < 0.1   |        |        |
| 80  | NR     |         | < 0.01 |        |        |         |        |        |
| 81  | 4      | -0.08   |        |        |        |         | 0.01   |        |
| 83  | NR     |         | < 0.02 |        |        |         |        |        |
| 85  | 3      | 0.67    |        |        |        | 0.04    |        |        |
| 87  | NR     |         |        |        |        | < 0.01  |        |        |
| 88  | 0      | 32.29   |        |        |        | 1.16    |        |        |
| 89  | NR     |         |        |        |        | < 0.05  |        |        |
| 91  | NR     |         |        |        |        |         | < 0.02 |        |
| 92  | 4      | -0.03   |        |        |        | 0.01    |        |        |
| 96  | NR     |         |        |        |        |         | < 0.05 |        |
| 97  | NR     |         |        |        |        | < 0.003 |        |        |
| 104 | 4      | -0.20   |        |        |        | 0.00    |        |        |
| 105 | NR     |         |        |        | < 0.04 |         |        |        |
| 113 | NR     |         |        |        |        | < 0.015 |        |        |
| 114 | NR     |         |        |        |        | < 0.04  |        |        |
| 118 | 1      | 1.94    |        |        |        |         | 0.08   |        |
| 119 | 4      | 0.00    |        |        | 0.01   |         |        |        |
| 127 | NR     |         |        |        | < 0.01 |         |        |        |
| 128 | NR     |         |        |        | < 0.01 |         |        |        |
| 129 | 4      | -0.25   |        |        | 0.00   |         |        |        |
| 132 | 0      | 2.78    |        |        |        |         | 0.11   |        |
| 133 | 0      | 4.64    |        |        |        | 0.18    |        |        |
| 134 | 4      | -0.25   |        |        |        | 0.00    |        |        |
| 138 | NR     |         |        |        |        | < 0.005 |        |        |
| 140 | 4      | -0.25   |        |        | 0.00   |         |        |        |
| 141 | NR     |         |        |        |        | < 0.05  |        |        |
| 142 | 4      | 0.20    |        |        | 0.02   |         |        |        |

| Lab | Rating | Z-value | 0      | 7    | 22     | 22cd   | 22h    | 22sulf |
|-----|--------|---------|--------|------|--------|--------|--------|--------|
| 143 | 4      | 0.42    |        |      |        | 0.03   |        |        |
| 145 | NR     |         |        |      |        | < 0.02 |        |        |
| 146 | NR     |         |        |      |        | < 0.05 |        |        |
| 149 | 0      | 3.06    |        | 0.12 |        |        |        |        |
| 151 | NR     |         |        |      |        | < 0.05 |        |        |
| 155 | 4      | -0.23   |        |      |        | 0.00   |        |        |
| 158 | NR     |         |        |      |        |        | < 0.02 |        |
| 180 | NR     |         |        |      |        | < 0.01 |        |        |
| 190 | 4      | 0.03    |        |      |        | 0.01   |        |        |
| 191 | NR     |         | < 0.01 |      |        |        |        |        |
| 193 | NR     |         |        |      |        | < 0.02 |        |        |
| 196 | NR     |         | < 0.05 |      |        |        |        |        |
| 197 | 4      | 0.25    |        |      | 0.02   |        |        |        |
| 203 | NR     |         |        |      |        |        |        | < 0.02 |
| 204 | NR     |         |        |      |        |        | < 0.02 |        |
| 212 | NR     |         |        |      |        | < 0.1  |        |        |
| 215 | NR     |         |        |      | < 0.01 |        |        |        |
| 220 | 4      | -0.14   |        |      |        |        | 0.01   |        |
| 221 | 4      | 0.14    |        |      | 0.02   |        |        |        |
| 224 | 2      | -1.23   |        |      |        |        |        | 0.06   |
| 234 | NR     |         | < 0.01 |      |        |        |        |        |
| 240 | NR     |         | < 0.1  |      |        |        |        |        |
| 241 | 4      | -0.03   |        |      |        | 0.01   |        |        |
| 243 | NR     |         |        |      |        | < 0.01 |        |        |
| 247 | NR     |         | < 0.01 |      |        |        |        |        |

Table 15. Statistical summary of reported data for standard reference water sample N-51 (nutrient constituents)—Continued  
total P as P (total Phosphorus as phosphorus) mg/L



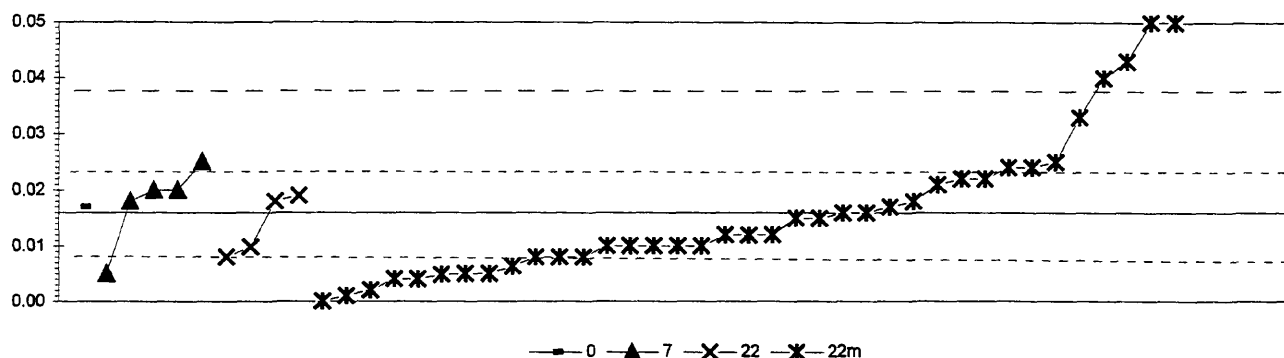
|                  |                 |                             |         |      |      |
|------------------|-----------------|-----------------------------|---------|------|------|
| 0. Other         |                 | 22m. Color:phosphomolybdate |         |      |      |
| 4. ICP           |                 |                             |         |      |      |
| 22. Colorimetric |                 |                             |         |      |      |
|                  | N =             | 1                           | 0       | 4    | 56   |
|                  | Minimum =       | 0.07                        | < 0.075 | 0.02 | 0.00 |
|                  | Maximum =       |                             |         | 0.08 | 0.14 |
|                  | Median =        |                             |         |      | 0.04 |
|                  | F-pseudosigma = |                             |         |      | 0.01 |

MPV = 0.04  
F-pseudosigma = 0.01  
N = 61  
Hu = 0.05  
Hl = 0.03

| Lab | Rating | Z-value | 0    | 4 | 22   | 22m    |
|-----|--------|---------|------|---|------|--------|
| 1   | 3      | -0.70   |      |   |      | 0.03   |
| 2   | 4      | 0.49    |      |   |      | 0.05   |
| 10  | 3      | 0.63    |      |   |      | 0.05   |
| 11  | 4      | -0.21   |      |   |      | 0.04   |
| 13  | NR     |         |      |   |      | < 0.05 |
| 15  | 0      | 5.48    |      |   |      | 0.12   |
| 16  | 1      | 2.04    | 0.07 |   |      |        |
| 18  | 3      | -0.70   |      |   |      | 0.03   |
| 21  | 4      | -0.21   |      |   |      | 0.04   |
| 22  | 2      | 1.26    |      |   |      | 0.06   |
| 23  | NR     |         |      |   |      | < 0.1  |
| 36  | NR     |         |      |   |      | < 0.05 |
| 38  | 2      | 1.05    |      |   |      | 0.06   |
| 39  | 0      | -2.65   |      |   |      | 0.00   |
| 46  | 3      | -0.91   |      |   |      | 0.03   |
| 48  | 4      | 0.00    |      |   |      | 0.04   |
| 55  | 4      | 0.07    |      |   |      | 0.04   |
| 56  | 3      | -0.53   |      |   | 0.03 |        |
| 58  | 0      | 6.32    |      |   |      | 0.13   |
| 59  | 3      | -0.70   |      |   |      | 0.03   |
| 68  | 0      | 3.02    |      |   | 0.08 |        |
| 70  | NR     |         |      |   |      | < 0.1  |
| 81  | 4      | -0.42   |      |   |      | 0.03   |
| 83  | NR     |         |      |   |      |        |
| 85  | 4      | -0.07   |      |   |      | 0.04   |
| 87  | 3      | 0.91    |      |   |      | 0.05   |
| 89  | 4      | 0.28    |      |   |      | 0.04   |
| 91  | 3      | 0.70    |      |   |      | 0.05   |
| 92  | 4      | -0.49   |      |   |      | 0.03   |
| 96  | 3      | -0.63   |      |   |      | 0.03   |
| 97  | 0      | -2.11   |      |   |      | 0.01   |
| 102 | 2      | -1.05   |      |   |      | 0.03   |
| 104 | 4      | 0.42    |      |   |      | 0.05   |
| 105 | 2      | -1.41   |      |   | 0.02 |        |
| 113 | 4      | -0.42   |      |   |      | 0.03   |
| 114 | 4      | 0.14    |      |   |      | 0.04   |
| 118 | 0      | -2.11   |      |   |      | 0.01   |
| 119 | 2      | 1.41    |      |   |      | 0.06   |
| 127 | NR     |         |      |   |      | < 0.01 |
| 129 | 4      | -0.07   |      |   |      | 0.04   |
| 132 | 3      | -0.70   |      |   |      | 0.03   |
| 133 | 4      | 0.00    |      |   |      | 0.04   |
| 134 | 4      | -0.35   |      |   |      | 0.04   |
| 138 | 3      | 0.70    |      |   |      | 0.05   |
| 140 | NR     |         |      |   |      | < 0.02 |
| 141 | 2      | 1.41    |      |   |      | 0.06   |
| 142 | 3      | 0.77    |      |   |      | 0.05   |
| 143 | 4      | 0.42    |      |   |      | 0.05   |
| 145 | 4      | 0.00    |      |   |      | 0.04   |
| 146 | NR     |         |      |   |      | < 0.1  |

| Lab | Rating | Z-value | 0 | 4 | 22   | 22m  |
|-----|--------|---------|---|---|------|------|
| 149 | 4      | 0.28    |   |   |      | 0.04 |
| 151 | 3      | 0.63    |   |   |      | 0.05 |
| 155 | 3      | -0.66   |   |   |      | 0.03 |
| 158 | 3      | -0.63   |   |   |      | 0.03 |
| 180 | 4      | 0.42    |   |   |      | 0.05 |
| 183 | 3      | 0.91    |   |   |      | 0.05 |
| 190 | 0      | 6.89    |   |   |      | 0.14 |
| 193 | 3      | -0.70   |   |   |      | 0.03 |
| 203 | 4      | 0.35    |   |   |      | 0.05 |
| 204 | 2      | -1.05   |   |   |      | 0.03 |
| 212 | 3      | 0.98    |   |   |      | 0.05 |
| 213 | 4      | 0.00    |   |   |      | 0.04 |
| 215 | 4      | 0.00    |   |   |      | 0.04 |
| 221 | 3      | -0.84   |   |   | 0.03 |      |
| 224 | 3      | -0.84   |   |   |      | 0.03 |
| 234 | 3      | -0.70   |   |   |      | 0.03 |
| 240 | 1      | 1.76    |   |   |      | 0.07 |
| 241 | 4      | -0.42   |   |   |      | 0.03 |
| 243 | 3      | 0.70    |   |   |      | 0.05 |

Table 15. Statistical summary of reported data for standard reference water sample N-51 (nutrient constituents)—Continued  
 PO<sub>4</sub> as P (orthophosphate as phosphorus) mg/L



|                       |                 |                             |      |      |      |
|-----------------------|-----------------|-----------------------------|------|------|------|
| 0. Other              |                 | 22m. Color:phosphomolybdate |      |      |      |
| 7. Ion chromatography |                 |                             |      |      |      |
| 22. Colorimetric      |                 |                             |      |      |      |
|                       | N =             | 1                           | 5    | 4    | 42   |
|                       | Minimum =       | 0.02                        | 0.01 | 0.01 | 0.00 |
|                       | Maximum =       |                             | 0.03 | 0.02 | 0.14 |
|                       | Median =        |                             |      |      | 0.02 |
|                       | F-pseudosiama = |                             |      |      | 0.01 |

MPV = 0.02  
 F-pseudosigma = 0.01  
 N = 52  
 Hu = 0.02  
 HI = 0.01

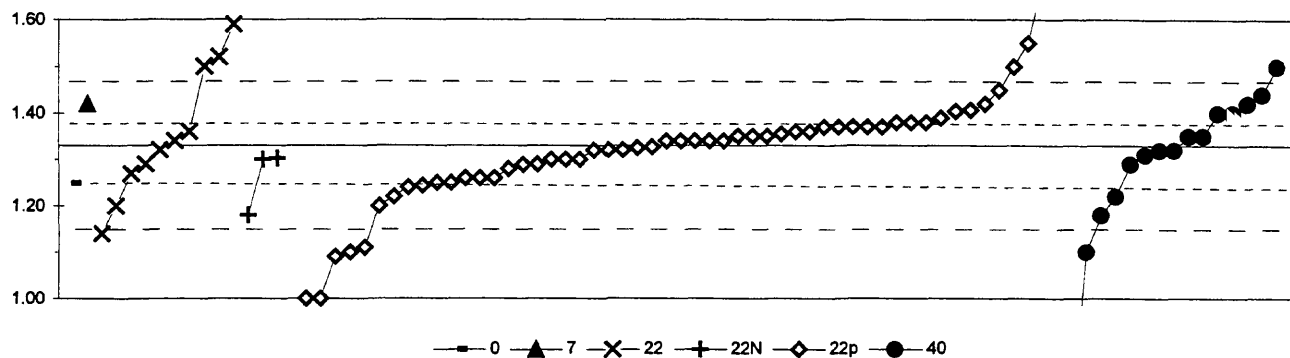
| Lab | Rating | Z-value | 0      | 7 | 22   | 22m     |
|-----|--------|---------|--------|---|------|---------|
| 1   | NR     |         |        |   |      | < 0.001 |
| 2   | 2      | -1.08   |        |   |      | 0.00    |
| 5   | 0      | 2.43    |        |   |      | 0.04    |
| 10  | 4      | 0.45    |        |   |      | 0.02    |
| 13  | NR     |         | < 0.05 |   |      |         |
| 15  | NR     |         |        |   |      | < 0.02  |
| 16  | 4      | 0.09    | 0.02   |   |      |         |
| 18  | 4      | 0.00    |        |   |      | 0.02    |
| 21  | 4      | -0.09   |        |   |      | 0.02    |
| 23  | NR     |         |        |   |      | < 0.1   |
| 25  | 4      | -0.09   |        |   |      | 0.02    |
| 28  | 0      | 2.16    |        |   |      | 0.04    |
| 33  | NR     |         | < 0.01 |   |      |         |
| 36  | NR     |         |        |   |      | < 0.05  |
| 38  | 3      | -0.54   |        |   |      | 0.01    |
| 39  | 3      | -0.72   |        |   |      | 0.01    |
| 46  | 3      | -0.99   |        |   |      | 0.01    |
| 48  | 4      | 0.09    |        |   |      | 0.02    |
| 53  | 0      | 9.08    |        |   |      | 0.12    |
| 55  | 0      | 5.49    |        |   |      | 0.08    |
| 56  | 4      | 0.18    |        |   | 0.02 |         |
| 58  | 0      | 7.55    |        |   |      | 0.10    |
| 59  | NR     |         |        |   |      | < 0.01  |
| 64  | 3      | -0.54   |        |   |      | 0.01    |
| 70  | NR     |         |        |   |      | < 0.1   |
| 80  | NR     |         |        |   |      | < 0.05  |
| 81  | NR     |         |        |   |      | < 0.005 |
| 83  | 3      | -0.56   |        |   | 0.01 |         |
| 85  | 4      | 0.00    |        |   |      | 0.02    |
| 87  | 3      | -0.72   |        |   |      | 0.01    |
| 88  | 0      | 3.06    |        |   |      | 0.05    |
| 89  | 3      | -0.72   |        |   |      | 0.01    |
| 92  | 3      | 0.72    |        |   |      | 0.02    |
| 96  | NR     |         |        |   |      | < 0.01  |
| 97  | 4      | -0.36   |        |   |      | 0.01    |
| 102 | 2      | -1.08   |        |   |      | 0.00    |
| 104 | 3      | -0.99   |        |   |      | 0.01    |
| 105 | 4      | 0.27    |        |   | 0.02 |         |
| 113 | NR     |         |        |   |      | < 0.004 |
| 118 | NR     |         |        |   |      | < 0.01  |
| 119 | NR     | -1.44   |        |   |      | 0.00    |
| 127 | NR     |         | < 0.05 |   |      |         |
| 128 | NR     |         | < 0.01 |   |      |         |
| 129 | 3      | 0.81    |        |   |      | 0.03    |
| 132 | 3      | -0.54   |        |   |      | 0.01    |
| 133 | 3      | -0.54   |        |   |      | 0.01    |
| 134 | 2      | -1.26   |        |   |      | 0.00    |
| 138 | 2      | -1.01   |        |   |      | 0.00    |
| 140 | NR     |         | < 0.01 |   |      |         |
| 141 | 0      | 3.06    |        |   |      | 0.05    |

| Lab | Rating | Z-value | 0      | 7    | 22   | 22m    |
|-----|--------|---------|--------|------|------|--------|
| 142 | 0      | 6.03    |        |      |      | 0.08   |
| 143 | 4      | -0.36   |        |      |      | 0.01   |
| 145 | NR     |         |        |      |      | < 0.01 |
| 146 | NR     |         |        |      |      | < 0.05 |
| 149 | 4      | 0.36    |        | 0.02 |      |        |
| 151 | 3      | 0.81    |        | 0.03 |      |        |
| 155 | 3      | -0.87   |        |      |      | 0.01   |
| 158 | 3      | 0.54    |        |      |      | 0.02   |
| 180 | NR     |         |        |      |      | < 0.01 |
| 183 | 1      | 1.53    |        |      |      | 0.03   |
| 190 | 0      | 11.33   |        |      |      | 0.14   |
| 191 | 4      | 0.36    |        | 0.02 |      |        |
| 196 | NR     |         | < 0.05 |      |      |        |
| 203 | 3      | 0.54    |        |      |      | 0.02   |
| 204 | 4      | -0.36   |        |      |      | 0.01   |
| 212 | 3      | -0.54   |        |      |      | 0.01   |
| 213 | NR     |         |        |      |      | < 0.02 |
| 215 | NR     |         |        |      |      | < 0.01 |
| 220 | 2      | -1.35   |        |      |      | 0.00   |
| 221 | 3      | -0.72   |        |      | 0.01 |        |
| 224 | 3      | 0.72    |        |      |      | 0.02   |
| 234 | 3      | -0.99   |        | 0.01 |      |        |
| 240 | NR     |         | < 0.1  |      |      |        |
| 241 | 4      | 0.18    |        |      |      | 0.02   |
| 247 | 4      | 0.18    |        | 0.02 |      |        |

Table 16. *Statistical summary of reported data for standard reference water sample N-52 (nutrients)*

| 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 <sub>3</sub> as N   | Ammonia as nitrogen              | <u>page</u><br>126                                |
| NH <sub>3</sub> +Org N as N                                  | Ammonia plus organic nitrogen    | 127   |
| NO <sub>3</sub> +NO <sub>2</sub> as N                        | Nitrate plus nitrite as nitrogen | 128   |
| Total P as P   | Total Phosphorus as phosphorus   | 129   |
| PO <sub>4</sub> as P   | Orthophosphate as phosphorus     | 130   |

Table 16. Statistical summary of reported data for standard reference water sample N-52 (nutrient constituents)--Continued  
NH<sub>3</sub> as N (Ammonia as nitrogen) mg/L

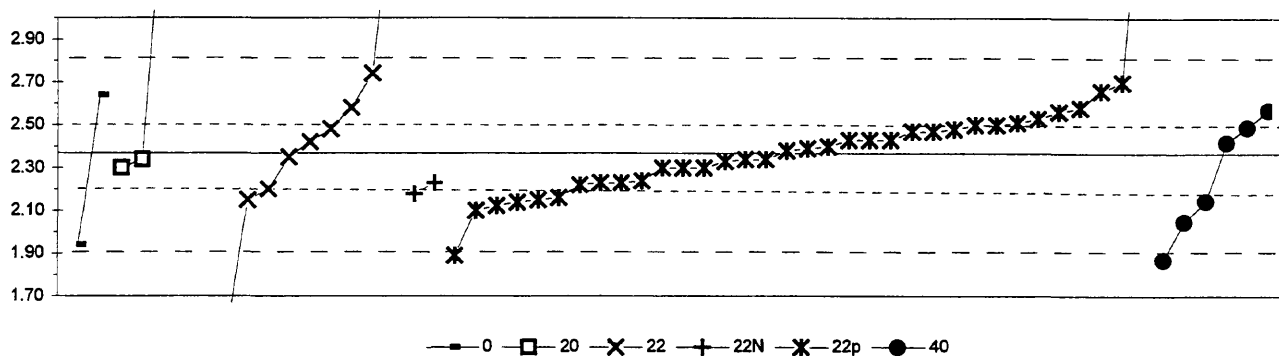


| 0. Other              |                 |         | 22n. Color: Nesslerization  |      |      |      |      |      |
|-----------------------|-----------------|---------|-----------------------------|------|------|------|------|------|
| 7. Ion chromatography |                 |         | 22p. Color: phenate         |      |      |      |      |      |
| 22. Colorimetric      |                 |         | 40. Ion selective electrode |      |      |      |      |      |
|                       | N =             |         | 1                           | 1    | 10   | 3    | 54   | 15   |
|                       | Minimum =       |         | 1.25                        | 1.42 | 1.14 | 1.18 | 0.93 | 0.74 |
|                       | Maximum =       |         |                             |      | 1.59 | 1.30 | 3.57 | 1.50 |
|                       | Median =        |         |                             |      | 1.33 |      | 1.34 | 1.32 |
|                       | F-pseudosigma = |         |                             |      | 0.17 |      | 0.08 | 0.11 |
| Lab                   | Rating          | Z-value | 0                           | 7    | 22   | 22N  | 22p  | 40   |
| 1                     | 4               | 0.40    |                             |      |      |      | 1.36 |      |
| 3                     | 3               | -0.66   |                             |      | 1.27 |      |      |      |
| 5                     | 3               | 0.63    |                             |      |      |      | 1.38 |      |
| 7                     | 0               | -2.65   |                             |      |      |      | 1.10 |      |
| 10                    | 4               | -0.07   |                             |      |      |      |      | 1.32 |
| 11                    | 2               | 1.10    |                             |      |      |      | 1.42 |      |
| 13                    | 4               | -0.30   |                             |      |      |      | 1.30 |      |
| 15                    | 0               | -2.53   |                             |      |      |      | 1.11 |      |
| 16                    | 3               | -0.89   | 1.25                        |      |      |      |      |      |
| 18                    | 3               | 0.52    |                             |      |      |      | 1.37 |      |
| 19                    | 4               | 0.16    |                             |      |      |      | 1.34 |      |
| 23                    | 0               | -4.65   |                             |      |      |      | 0.93 |      |
| 25                    | 0               | -2.18   |                             |      | 1.14 |      |      |      |
| 26                    | 2               | 1.10    |                             | 1.42 |      |      |      |      |
| 33                    | 2               | -1.24   |                             |      |      |      | 1.22 |      |
| 36                    | 2               | 1.34    |                             |      |      |      |      | 1.44 |
| 38                    | 4               | -0.01   |                             |      |      |      | 1.33 |      |
| 46                    | 4               | -0.07   |                             |      |      |      | 1.32 |      |
| 48                    | 2               | -1.48   |                             |      |      |      | 1.20 |      |
| 53                    | 4               | -0.27   |                             |      |      | 1.30 |      |      |
| 55                    | 3               | 0.52    |                             |      |      |      | 1.37 |      |
| 56                    | 1               | 2.04    |                             |      |      |      |      | 1.50 |
| 57                    | 2               | -1.24   |                             |      |      |      |      | 1.22 |
| 58                    | 1               | -1.71   |                             |      |      |      |      | 1.18 |
| 59                    | 4               | 0.28    |                             |      |      |      | 1.35 |      |
| 64                    | 4               | 0.16    |                             |      |      |      | 1.34 |      |
| 68                    | 0               | 3.10    |                             |      | 1.59 |      |      |      |
| 70                    | 2               | -1.01   |                             |      |      |      | 1.24 |      |
| 76                    | 4               | -0.42   |                             |      |      |      | 1.29 |      |
| 80                    | 4               | -0.30   |                             |      |      | 1.30 |      |      |
| 81                    | 1               | 2.04    |                             |      |      |      | 1.50 |      |
| 83                    | 2               | -1.48   |                             |      | 1.20 |      |      |      |
| 85                    | 3               | -0.89   |                             |      |      |      | 1.25 |      |
| 86                    | 3               | 0.52    |                             |      |      |      | 1.37 |      |
| 87                    | 0               | -3.82   |                             |      |      |      | 1.00 |      |
| 88                    | 0               | -2.77   |                             |      |      |      | 1.09 |      |
| 89                    | 4               | -0.07   |                             |      |      |      | 1.32 |      |
| 90                    | 3               | 0.63    |                             |      |      |      | 1.38 |      |
| 91                    | 4               | 0.16    |                             |      |      |      | 1.34 |      |
| 96                    | 3               | 0.52    |                             |      |      |      | 1.37 |      |
| 97                    | 4               | 0.16    |                             |      |      |      | 1.34 |      |
| 102                   | 0               | -3.82   |                             |      |      |      | 1.00 |      |
| 104                   | 4               | 0.01    |                             |      |      |      | 1.33 |      |
| 105                   | 4               | 0.40    |                             |      | 1.36 |      |      |      |
| 107                   | 3               | 0.75    |                             |      |      |      | 1.39 |      |
| 108                   | 4               | -0.42   |                             |      |      |      |      | 1.29 |
| 113                   | 3               | 0.63    |                             |      |      |      | 1.38 |      |
| 114                   | 0               | -2.65   |                             |      |      |      |      | 1.10 |
| 118                   | 3               | -0.77   |                             |      |      |      | 1.26 |      |
| 119                   | 2               | 1.10    |                             |      |      |      |      | 1.42 |

MPV = 1.33  
F-pseudosigma = 0.09  
N = 84  
Hu = 1.38  
Hi = 1.26

| Lab | Rating | Z-value | 0 | 7 | 22   | 22N  | 22p  | 40   |
|-----|--------|---------|---|---|------|------|------|------|
| 127 | 0      | 4.15    |   |   |      |      |      | 1.68 |
| 128 | 4      | -0.30   |   |   |      |      |      | 1.30 |
| 129 | 1      | -1.71   |   |   |      | 1.18 |      |      |
| 132 | 4      | -0.07   |   |   | 1.32 |      |      |      |
| 133 | 4      | 0.28    |   |   |      |      |      | 1.35 |
| 134 | 3      | 0.52    |   |   |      |      |      | 1.37 |
| 138 | 3      | -0.54   |   |   |      |      |      | 1.28 |
| 140 | 0      | 2.28    |   |   | 1.52 |      |      |      |
| 141 | 3      | -0.77   |   |   |      |      |      | 1.26 |
| 142 | 3      | -0.77   |   |   |      |      |      | 1.26 |
| 143 | 4      | 0.16    |   |   |      |      |      | 1.34 |
| 145 | 2      | 1.45    |   |   |      |      |      | 1.45 |
| 146 | 0      | 26.32   |   |   |      |      |      | 3.57 |
| 155 | 4      | -0.43   |   |   |      |      |      | 1.29 |
| 158 | 4      | 0.34    |   |   |      |      |      | 1.36 |
| 180 | 4      | -0.07   |   |   |      |      |      | 1.32 |
| 190 | 0      | 2.63    |   |   |      |      |      | 1.55 |
| 197 | 4      | 0.16    |   |   | 1.34 |      |      |      |
| 203 | 3      | 0.95    |   |   |      |      |      | 1.41 |
| 204 | 4      | 0.28    |   |   |      |      |      | 1.35 |
| 212 | 4      | -0.30   |   |   |      |      |      | 1.30 |
| 213 | 1      | 2.04    |   |   | 1.50 |      |      |      |
| 215 | 4      | 0.28    |   |   |      |      |      | 1.35 |
| 220 | 4      | 0.40    |   |   |      |      |      | 1.36 |
| 221 | 4      | -0.19   |   |   |      |      |      | 1.31 |
| 224 | 3      | 0.91    |   |   |      |      |      | 1.40 |
| 234 | 3      | 0.87    |   |   |      |      |      | 1.40 |
| 240 | 4      | -0.07   |   |   |      |      |      | 1.32 |
| 241 | 4      | 0.28    |   |   |      |      |      | 1.35 |
| 243 | 3      | -0.97   |   |   |      |      | 1.24 |      |
| 248 | 3      | 0.87    |   |   |      |      |      | 1.40 |
| 249 | 0      | -6.87   |   |   |      |      |      | 0.74 |
| 253 | 4      | -0.42   |   |   | 1.29 |      |      |      |
| 255 | 3      | -0.89   |   |   |      |      | 1.25 |      |

Table 16. Statistical summary of reported data for standard reference water sample N-52 (nutrient constituents)—Continued  
 NH<sub>3</sub> + Org N as N (Ammonia + Organic nitrogen as nitrogen) mg/L



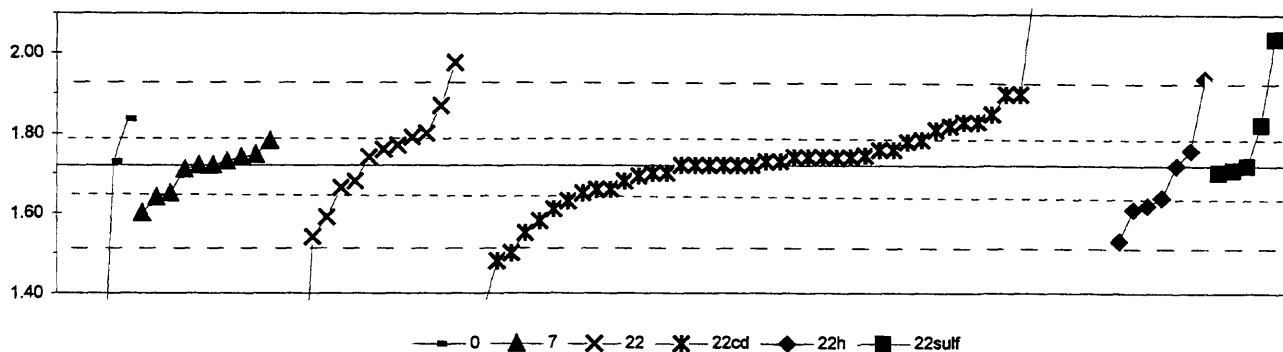
|                           |                             |      |      |      |      |      |
|---------------------------|-----------------------------|------|------|------|------|------|
| 0. Other                  | 22n. Color: Nesslerization  |      |      |      |      |      |
| 20. Titrate: colorimetric | 22p. Color: phenate         |      |      |      |      |      |
| 22. Colorimetric          | 40. Ion selective electrode |      |      |      |      |      |
| N =                       | 2                           | 4    | 10   | 2    | 34   | 6    |
| Minimum =                 | 1.94                        | 2.30 | 1.44 | 2.18 | 1.89 | 1.87 |
| Maximum =                 | 2.64                        | 4.00 | 3.62 | 2.23 | 3.70 | 2.57 |
| Median =                  |                             |      | 2.39 |      | 2.39 |      |
| F-pseudostigma =          |                             |      | 0.32 |      | 0.20 |      |

MPV = 2.37  
 F-pseudostigma = 0.22  
 N = 58  
 Hu = 2.50  
 HI = 2.20

| Lab | Rating | Z-value | 0    | 20   | 22   | 22N  | 22p  | 40   |
|-----|--------|---------|------|------|------|------|------|------|
| 1   | 3      | -0.92   |      |      |      |      | 2.16 |      |
| 3   | 3      | -0.74   |      |      | 2.20 |      |      |      |
| 10  | 3      | 0.52    |      |      |      |      | 2.48 |      |
| 11  | 3      | 0.97    |      |      | 2.58 |      |      |      |
| 15  | 3      | 0.97    |      |      |      |      | 2.58 |      |
| 16  | 1      | -1.91   | 1.94 |      |      |      |      |      |
| 18  | 0      | -2.14   |      |      |      |      | 1.89 |      |
| 25  | 2      | 1.24    | 2.64 |      |      |      |      |      |
| 36  | 3      | -0.97   |      |      | 2.15 |      |      |      |
| 38  | 3      | -0.61   |      |      |      | 2.23 |      |      |
| 46  | 3      | -0.56   |      |      |      |      | 2.24 |      |
| 48  | 4      | -0.29   |      |      |      |      | 2.30 |      |
| 55  | 4      | 0.16    |      |      |      |      | 2.40 |      |
| 56  | 1      | 1.69    |      |      | 2.74 |      |      |      |
| 57  | 0      | 5.55    |      | 3.60 |      |      |      |      |
| 58  | 3      | 0.56    |      |      |      |      |      | 2.49 |
| 59  | 4      | -0.29   |      |      |      |      | 2.30 |      |
| 68  | 4      | 0.25    |      |      | 2.42 |      |      |      |
| 70  | 4      | -0.11   |      |      |      |      | 2.34 |      |
| 81  | 3      | -0.97   |      |      |      |      | 2.15 |      |
| 85  | 4      | 0.29    |      |      |      |      | 2.43 |      |
| 87  | 2      | -1.19   |      |      |      |      | 2.10 |      |
| 89  | 3      | -0.65   |      |      |      |      | 2.22 |      |
| 91  | 4      | 0.29    |      |      |      |      | 2.43 |      |
| 96  | 4      | 0.11    |      |      |      |      | 2.39 |      |
| 97  | 3      | -0.61   |      |      |      |      | 2.23 |      |
| 102 | 3      | -0.61   |      |      |      |      | 2.23 |      |
| 104 | 4      | 0.29    |      |      |      |      | 2.43 |      |
| 105 | 0      | -3.89   |      |      | 1.50 |      |      |      |
| 108 | 4      | -0.11   |      | 2.34 |      |      |      |      |
| 113 | 2      | -1.01   |      |      |      |      | 2.14 |      |
| 118 | 4      | 0.47    |      |      |      |      | 2.47 |      |
| 119 | 0      | -2.23   |      |      |      |      |      | 1.87 |
| 127 | 2      | 1.33    |      |      |      |      | 2.66 |      |
| 128 | 3      | 0.61    |      |      |      |      | 2.50 |      |
| 129 | 3      | -0.84   |      |      |      | 2.18 |      |      |
| 133 | 2      | -1.42   |      |      |      |      |      | 2.05 |
| 134 | 4      | -0.29   |      |      |      |      | 2.30 |      |
| 138 | 4      | 0.07    |      |      |      |      | 2.38 |      |
| 140 | 4      | -0.07   |      |      | 2.35 |      |      |      |
| 141 | 3      | 0.88    |      |      |      |      | 2.56 |      |
| 142 | 4      | -0.16   |      |      |      |      | 2.33 |      |
| 143 | 3      | 0.74    |      |      |      |      | 2.53 |      |
| 145 | 4      | -0.11   |      |      |      |      | 2.34 |      |
| 155 | 2      | -1.09   |      |      |      |      | 2.12 |      |
| 180 | 4      | 0.47    |      |      |      |      | 2.47 |      |
| 190 | 1      | 1.51    |      |      |      |      | 2.70 |      |
| 203 | 0      | -4.15   |      |      | 1.44 |      |      |      |
| 204 | 3      | 0.52    |      |      | 2.48 |      |      |      |
| 212 | 3      | 0.61    |      |      |      |      | 2.50 |      |

| Lab | Rating | Z-value | 0 | 20   | 22   | 22N | 22p  | 40   |
|-----|--------|---------|---|------|------|-----|------|------|
| 213 | 0      | 7.35    |   | 4.00 |      |     |      |      |
| 215 | 3      | 0.65    |   |      |      |     | 2.51 |      |
| 221 | 4      | -0.29   |   | 2.30 |      |     |      |      |
| 224 | 0      | 6.02    |   |      |      |     | 3.70 |      |
| 240 | 4      | 0.25    |   |      |      |     |      | 2.42 |
| 241 | 3      | -0.98   |   |      |      |     |      | 2.15 |
| 249 | 3      | 0.92    |   |      |      |     |      | 2.57 |
| 253 | 0      | 5.64    |   |      | 3.62 |     |      |      |
| 255 | NR     |         |   |      | < 5  |     |      |      |

Table 16. Statistical summary of reported data for standard reference water sample N-52 (nutrient constituents)—Continued  
 $\text{NO}_3 + \text{NO}_2$  as N (Nitrate + nitrite as nitrogen) mg/L



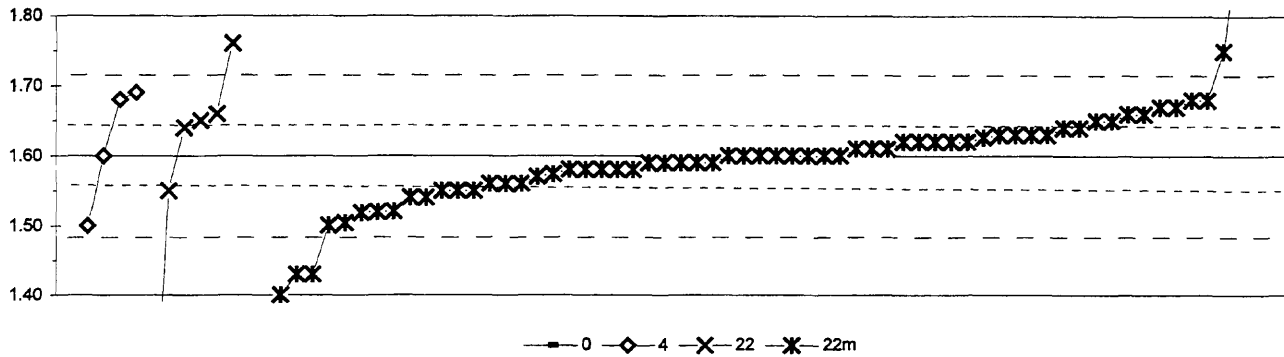
|                       |                                     |      |       |      |       |      |      |
|-----------------------|-------------------------------------|------|-------|------|-------|------|------|
| 0. Other              | 22cd. Cd diazotization              |      |       |      |       |      |      |
| 7. Ion chromatography | 22h. Color: hydrazine diazotization |      |       |      |       |      |      |
| 22. Colorimetric      | 22sulf. Color: sulfanilamide        |      |       |      |       |      |      |
|                       | N =                                 | 5    | 11    | 12   | 46    | 7    | 5    |
|                       | Minimum =                           | 0.15 | 1.60  | 0.92 | 1.30  | 1.53 | 1.70 |
|                       | Maximum =                           | 1.84 | 28.10 | 1.98 | 16.40 | 1.94 | 2.04 |
|                       | Median =                            |      | 1.72  | 1.75 | 1.74  | 1.64 |      |
|                       | F-pseudosigma =                     |      | 0.05  | 0.12 | 0.10  | 0.09 |      |

MPV = 1.72  
F-pseudosigma = 0.10  
N = 86  
Hu = 1.79  
HI = 1.65

| Lab | Rating | Z-value | 0    | 7     | 22   | 22cd | 22h  | 22sulf |
|-----|--------|---------|------|-------|------|------|------|--------|
| 1   | 4      | -0.24   |      |       |      | 1.70 |      |        |
| 3   | 3      | 0.73    |      |       | 1.80 |      |      |        |
| 5   | 0      | -4.09   |      |       |      | 1.30 |      |        |
| 7   | 1      | -1.78   |      |       | 1.54 |      |      |        |
| 10  | 4      | 0.15    |      |       |      | 1.74 |      |        |
| 11  | 4      | -0.14   |      |       |      |      | 1.71 |        |
| 13  | 4      | -0.04   |      | 1.72  |      |      |      |        |
| 15  | 4      | -0.04   |      |       |      |      | 1.72 |        |
| 16  | 4      | 0.04    | 1.73 |       |      |      |      |        |
| 18  | 2      | 1.02    |      |       |      | 1.83 |      |        |
| 19  | 3      | 0.53    |      |       |      | 1.78 |      |        |
| 25  | 4      | 0.44    |      |       | 1.77 |      |      |        |
| 30  | 4      | 0.15    |      | 1.74  |      |      |      |        |
| 36  | 1      | 1.69    |      |       |      | 1.90 |      |        |
| 38  | 4      | -0.23   |      |       |      | 1.70 |      |        |
| 42  | 0      | 254.15  |      | 28.10 |      |      |      |        |
| 46  | 0      | -2.36   |      |       |      | 1.48 |      |        |
| 48  | 2      | -1.10   |      |       |      |      | 1.61 |        |
| 53  | 2      | 1.07    | 1.84 |       |      |      |      |        |
| 55  | 4      | 0.05    |      |       |      | 1.73 |      |        |
| 56  | 3      | 0.63    |      |       | 1.79 |      |      |        |
| 57  | 1      | 1.89    |      |       |      | 1.90 |      |        |
| 59  | 4      | 0.15    |      |       |      | 1.74 |      |        |
| 64  | 4      | -0.04   |      |       |      | 1.72 |      |        |
| 68  | 4      | -0.43   |      |       | 1.68 |      |      |        |
| 69  | 4      | 0.34    |      |       |      | 1.76 |      |        |
| 70  | 2      | -1.39   |      |       |      | 1.58 |      |        |
| 75  | 2      | -1.10   |      |       |      | 1.81 |      |        |
| 80  | 0      | -8.33   | 0.86 |       |      |      |      |        |
| 81  | 4      | -0.04   |      |       |      |      | 1.72 |        |
| 83  | 2      | -1.30   |      |       | 1.59 |      |      |        |
| 85  | 1      | -1.68   |      |       |      | 1.55 |      |        |
| 86  | 4      | -0.04   |      |       |      | 1.72 |      |        |
| 87  | 4      | 0.15    |      |       |      | 1.74 |      |        |
| 88  | 0      | 7.38    |      |       |      | 2.49 |      |        |
| 89  | 4      | -0.04   |      |       |      | 1.72 |      |        |
| 91  | 2      | -1.01   |      |       |      |      | 1.62 |        |
| 92  | 3      | 0.58    |      |       |      | 1.79 |      |        |
| 96  | 3      | -0.81   |      |       |      |      | 1.64 |        |
| 97  | 3      | -0.72   |      |       |      | 1.65 |      |        |
| 102 | 2      | 1.02    |      |       |      | 1.83 |      |        |
| 104 | 4      | -0.29   |      |       |      | 1.69 |      |        |
| 105 | 4      | 0.34    |      |       | 1.76 |      |      |        |
| 107 | 4      | 0.15    |      |       |      | 1.74 |      |        |
| 108 | 4      | 0.20    |      |       |      | 1.75 |      |        |
| 113 | 0      | -2.16   |      |       |      | 1.50 |      |        |
| 114 | 0      | 5.45    |      |       |      | 2.29 |      |        |
| 118 | 0      | 2.08    |      |       |      |      | 1.94 |        |
| 119 | 3      | -0.81   |      | 1.64  |      |      |      |        |
| 127 | 4      | -0.14   |      | 1.71  |      |      |      |        |

| Lab | Rating | Z-value | 0    | 7    | 22   | 22cd | 22h | 22sulf |
|-----|--------|---------|------|------|------|------|-----|--------|
| 128 | 4      | -0.04   |      | 1.72 |      |      |     |        |
| 129 | 4      | 0.21    |      | 1.75 |      |      |     |        |
| 132 | 1      | -1.87   |      |      |      |      |     | 1.53   |
| 133 | 0      | 4.20    |      |      |      |      |     | 2.16   |
| 134 | 4      | 0.05    |      |      |      |      |     | 1.73   |
| 138 | 3      | -0.62   |      |      |      |      |     | 1.66   |
| 140 | 3      | -0.58   |      |      | 1.66 |      |     |        |
| 141 | 4      | -0.04   |      |      |      |      |     | 1.72   |
| 142 | 0      | 2.42    |      |      | 1.98 |      |     |        |
| 143 | 2      | 1.21    |      |      |      |      |     | 1.85   |
| 145 | 4      | -0.43   |      |      |      |      |     | 1.68   |
| 146 | 0      | 27.13   |      |      |      |      |     | 4.54   |
| 155 | 3      | -0.63   |      |      |      |      |     | 1.66   |
| 158 | 4      | 0.33    |      |      |      |      |     | 1.76   |
| 180 | 4      | 0.15    |      |      |      |      |     | 1.74   |
| 183 | 0      | -15.17  | 0.15 |      |      |      |     |        |
| 190 | 3      | 0.92    |      |      |      |      |     | 1.82   |
| 191 | 4      | 0.05    |      | 1.73 |      |      |     |        |
| 193 | 3      | -0.91   |      |      |      |      |     | 1.63   |
| 197 | 4      | 0.15    |      |      | 1.74 |      |     |        |
| 203 | 3      | 0.97    |      |      |      |      |     | 1.83   |
| 204 | 0      | -3.61   |      |      |      |      |     | 1.35   |
| 212 | 0      | 141.41  |      |      |      |      |     | 16.40  |
| 215 | 4      | -0.04   |      |      |      |      |     | 1.72   |
| 220 | 0      | 3.04    |      |      |      |      |     | 2.04   |
| 221 | 2      | 1.40    |      |      | 1.87 |      |     |        |
| 224 | 4      | -0.21   |      |      |      |      |     | 1.70   |
| 234 | 3      | -0.72   |      | 1.65 |      |      |     |        |
| 240 | 2      | -1.20   |      | 1.60 |      |      |     |        |
| 241 | 3      | 0.82    |      |      |      |      |     | 1.81   |
| 243 | 4      | 0.34    |      |      |      |      |     | 1.76   |
| 247 | 3      | 0.54    |      | 1.78 |      |      |     |        |
| 248 | 0      | -9.26   | 0.76 |      |      |      |     |        |
| 249 | 0      | 48.04   |      |      |      |      |     | 6.71   |
| 253 | 0      | -7.75   |      |      | 0.92 |      |     |        |
| 255 | 4      | -0.04   |      |      |      |      |     | 1.72   |

Table 16. Statistical summary of reported data for standard reference water sample N-52 (nutrient constituents)—Continued  
total P as P (total Phosphorus as phosphorus) mg/L



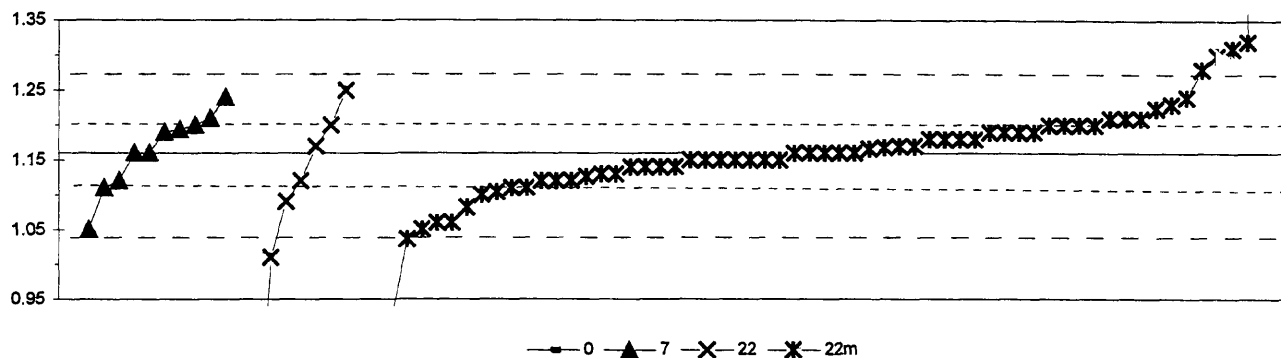
| 0. Other         |     | 22m. Color:phosphomolybdate |      |      |      |
|------------------|-----|-----------------------------|------|------|------|
| 4. ICP           |     |                             |      |      |      |
| 22. Colorimetric |     |                             |      |      |      |
|                  | N = | 1                           | 4    | 6    | 65   |
| Minimum =        |     | 1.97                        | 1.50 | 1.10 | 0.82 |
| Maximum =        |     |                             | 1.69 | 1.76 | 4.03 |
| Median =         |     |                             |      |      | 1.60 |
| F-pseudosigma =  |     |                             |      |      | 0.05 |

MPV = 1.60  
F-pseudosigma = 0.06  
N = 76  
Hu = 1.64  
HI = 1.56

| Lab | Rating | Z-value | 0    | 4    | 22   | 22m  |
|-----|--------|---------|------|------|------|------|
| 1   | 3      | -0.84   |      |      |      | 1.55 |
| 3   | 3      | -0.84   |      |      | 1.55 |      |
| 7   | 3      | 0.67    |      |      |      | 1.64 |
| 10  | 4      | 0.34    |      |      |      | 1.62 |
| 11  | 4      | -0.34   |      |      |      | 1.58 |
| 13  | 4      | 0.17    |      |      |      | 1.61 |
| 15  | 2      | 1.35    |      |      |      | 1.68 |
| 16  | 0      | 6.24    | 1.97 |      |      |      |
| 18  | 4      | -0.17   |      |      |      | 1.59 |
| 19  | 3      | 0.67    |      |      |      | 1.64 |
| 22  | 4      | -0.17   |      |      |      | 1.59 |
| 23  | 0      | -2.87   |      |      |      | 1.43 |
| 25  | 2      | 1.35    |      | 1.68 |      |      |
| 36  | 0      | -3.37   |      |      |      | 1.40 |
| 38  | 4      | -0.44   |      |      |      | 1.57 |
| 42  | 1      | -1.69   |      | 1.50 |      |      |
| 46  | 3      | -0.84   |      |      |      | 1.55 |
| 48  | 1      | -1.69   |      |      |      | 1.50 |
| 55  | 3      | -0.67   |      |      |      | 1.56 |
| 56  | 0      | -8.43   |      |      | 1.10 |      |
| 57  | 4      | 0.00    |      |      |      | 1.60 |
| 58  | 2      | -1.01   |      |      |      | 1.54 |
| 59  | 4      | 0.00    |      |      |      | 1.60 |
| 68  | 3      | 0.67    |      |      | 1.64 |      |
| 70  | 4      | 0.34    |      |      |      | 1.62 |
| 81  | 4      | -0.17   |      |      |      | 1.59 |
| 83  | 4      | 0.00    |      | 1.60 |      |      |
| 85  | 4      | 0.17    |      |      |      | 1.61 |
| 86  | 1      | 1.52    |      | 1.69 |      |      |
| 87  | 3      | 0.51    |      |      |      | 1.63 |
| 89  | 4      | 0.34    |      |      |      | 1.62 |
| 91  | 3      | 0.51    |      |      |      | 1.63 |
| 92  | 4      | 0.00    |      |      |      | 1.60 |
| 96  | 4      | -0.34   |      |      |      | 1.58 |
| 97  | 2      | -1.38   |      |      |      | 1.52 |
| 102 | 3      | -0.51   |      |      |      | 1.57 |
| 104 | 4      | 0.17    |      |      |      | 1.61 |
| 105 | 3      | 0.84    |      |      | 1.65 |      |
| 107 | 2      | 1.01    |      |      |      | 1.66 |
| 113 | 4      | 0.00    |      |      |      | 1.60 |
| 114 | 4      | 0.00    |      |      |      | 1.60 |
| 118 | 0      | 5.06    |      |      |      | 1.90 |
| 119 | 4      | 0.34    |      |      |      | 1.62 |
| 127 | 2      | -1.01   |      |      |      | 1.54 |
| 129 | 1      | -1.62   |      |      |      | 1.50 |
| 132 | 3      | 0.51    |      |      |      | 1.63 |
| 133 | 3      | 0.51    |      |      |      | 1.63 |
| 134 | 3      | 0.84    |      |      |      | 1.65 |
| 138 | 2      | -1.35   |      |      |      | 1.52 |
| 140 | 2      | 1.01    |      |      | 1.66 |      |

| Lab | Rating | Z-value | 0 | 4 | 22   | 22m  |
|-----|--------|---------|---|---|------|------|
| 141 | 4      | -0.17   |   |   |      | 1.59 |
| 142 | 3      | 0.84    |   |   |      | 1.65 |
| 143 | 4      | 0.00    |   |   |      | 1.60 |
| 145 | 2      | 1.01    |   |   |      | 1.66 |
| 146 | 0      | 40.98   |   |   |      | 4.03 |
| 155 | 2      | -1.37   |   |   |      | 1.52 |
| 158 | 4      | 0.00    |   |   |      | 1.60 |
| 180 | 2      | 1.35    |   |   |      | 1.68 |
| 183 | 4      | -0.34   |   |   |      | 1.58 |
| 190 | 0      | -6.41   |   |   |      | 1.22 |
| 193 | 2      | 1.18    |   |   |      | 1.67 |
| 203 | 4      | 0.44    |   |   |      | 1.63 |
| 204 | 4      | -0.17   |   |   |      | 1.59 |
| 212 | 4      | 0.00    |   |   |      | 1.60 |
| 213 | 4      | -0.34   |   |   |      | 1.58 |
| 215 | 0      | -13.15  |   |   |      | 0.82 |
| 221 | 0      | 2.70    |   |   | 1.76 |      |
| 224 | 3      | -0.84   |   |   |      | 1.55 |
| 234 | 4      | 0.34    |   |   |      | 1.62 |
| 240 | 0      | 7.25    |   |   |      | 2.03 |
| 241 | 3      | -0.67   |   |   |      | 1.56 |
| 243 | 2      | 1.18    |   |   |      | 1.67 |
| 248 | 3      | -0.67   |   |   |      | 1.56 |
| 249 | 0      | 2.53    |   |   |      | 1.75 |
| 253 | 0      | -2.87   |   |   |      | 1.43 |
| 255 | 4      | -0.34   |   |   |      | 1.58 |

Table 16. Statistical summary of reported data for standard reference water sample N-52 (nutrient constituents)—Continued  
PO<sub>4</sub> as P (orthophosphate as phosphorus) mg/L



| 0. Other              |     | 22m. Color:phosphomolybdate |      |      |      |
|-----------------------|-----|-----------------------------|------|------|------|
| 7. Ion chromatography |     |                             |      |      |      |
| 22. Colorimetric      |     |                             |      |      |      |
|                       | N = | 1                           | 10   | 8    | 62   |
| Minimum =             |     | 1.45                        | 1.05 | 0.58 | 0.12 |
| Maximum =             |     |                             | 1.24 | 1.25 | 3.49 |
| Median =              |     |                             | 1.18 | 1.11 | 1.16 |
| F-pseudosigma =       |     |                             | 0.06 | 0.26 | 0.05 |

MPV = 1.16  
F-pseudosigma = 0.06  
N = 81  
Hu = 1.20  
HI = 1.12

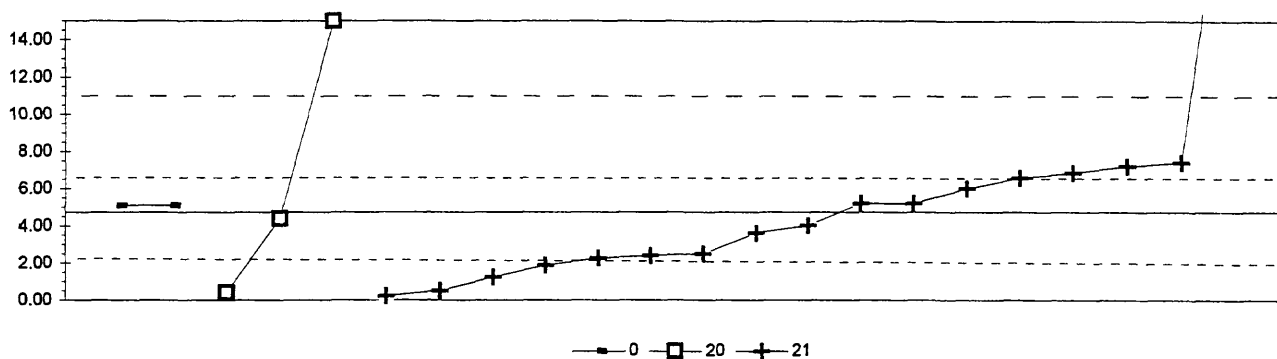
| Lab | Rating | Z-value | 0    | 7    | 22   | 22m  |
|-----|--------|---------|------|------|------|------|
| 1   | 3      | 0.67    |      |      |      | 1.20 |
| 3   | 3      | -0.67   |      |      | 1.12 |      |
| 5   | 3      | -0.67   |      |      |      | 1.12 |
| 7   | 1      | -1.85   |      | 1.05 |      |      |
| 10  | 3      | 0.67    |      |      |      | 1.20 |
| 11  | 3      | -0.51   |      |      |      | 1.13 |
| 13  | 3      | 0.67    |      | 1.20 |      |      |
| 15  | 4      | -0.17   |      |      |      | 1.15 |
| 16  | 0      | 4.89    | 1.45 |      |      |      |
| 18  | 3      | 0.51    |      |      |      | 1.19 |
| 19  | 4      | -0.34   |      |      |      | 1.14 |
| 23  | 4      | -0.34   |      |      |      | 1.14 |
| 25  | 4      | 0.17    |      |      |      | 1.17 |
| 26  | 2      | 1.35    |      | 1.24 |      |      |
| 30  | 4      | 0.00    |      | 1.16 |      |      |
| 33  | 3      | -0.67   |      | 1.12 |      |      |
| 36  | 4      | -0.17   |      |      |      | 1.15 |
| 38  | 3      | -0.57   |      |      |      | 1.13 |
| 42  | 0      | -9.80   |      |      | 0.58 |      |
| 46  | 0      | -17.54  |      |      |      | 0.12 |
| 48  | 1      | -1.85   |      |      |      | 1.05 |
| 53  | 0      | 39.32   |      |      |      | 3.49 |
| 55  | 3      | 0.84    |      |      |      | 1.21 |
| 56  | 0      | -8.38   |      |      | 0.66 |      |
| 57  | 0      | 2.36    |      |      |      | 1.30 |
| 58  | 0      | -4.05   |      |      |      | 0.92 |
| 59  | 4      | 0.00    |      |      |      | 1.16 |
| 64  | 4      | 0.10    |      |      |      | 1.17 |
| 70  | 4      | 0.00    |      |      |      | 1.16 |
| 80  | 2      | 1.35    |      |      |      | 1.24 |
| 81  | 1      | -1.69   |      |      |      | 1.06 |
| 83  | 3      | 0.67    |      |      | 1.20 |      |
| 85  | 4      | -0.17   |      |      |      | 1.15 |
| 87  | 3      | 0.51    |      |      |      | 1.19 |
| 88  | 3      | -0.84   |      |      |      | 1.11 |
| 89  | 4      | 0.00    |      |      |      | 1.16 |
| 92  | 4      | 0.34    |      |      |      | 1.18 |
| 96  | 4      | -0.34   |      |      |      | 1.14 |
| 97  | 4      | 0.00    |      |      |      | 1.16 |
| 102 | 3      | -0.84   |      |      |      | 1.11 |
| 104 | 4      | 0.13    |      |      |      | 1.17 |
| 105 | 4      | 0.17    |      |      | 1.17 |      |
| 107 | 3      | -0.67   |      |      |      | 1.12 |
| 108 | 1      | 2.02    |      |      |      | 1.28 |
| 113 | 4      | -0.17   |      |      |      | 1.15 |
| 118 | 4      | 0.34    |      |      |      | 1.18 |
| 119 | 4      | 0.34    |      |      |      | 1.18 |
| 127 | 4      | 0.00    |      | 1.16 |      |      |
| 128 | 3      | 0.51    |      | 1.19 |      |      |
| 129 | 0      | -2.09   |      |      |      | 1.04 |

| Lab | Rating | Z-value | 0 | 7    | 22   | 22m  |
|-----|--------|---------|---|------|------|------|
| 132 | 1      | 1.52    |   |      | 1.25 |      |
| 133 | 3      | -0.67   |   |      |      | 1.12 |
| 134 | 3      | 0.51    |   |      |      | 1.19 |
| 138 | 4      | -0.17   |   |      |      | 1.15 |
| 140 | 0      | -2.53   |   |      | 1.01 |      |
| 141 | 3      | 0.84    |   |      |      | 1.21 |
| 142 | 4      | -0.17   |   |      |      | 1.15 |
| 143 | 4      | -0.17   |   |      |      | 1.15 |
| 145 | 4      | 0.17    |   |      |      | 1.17 |
| 146 | 0      | 39.12   |   |      |      | 3.48 |
| 155 | 2      | -1.32   |   |      |      | 1.08 |
| 158 | 3      | -0.94   |   |      |      | 1.10 |
| 180 | 3      | 0.51    |   |      |      | 1.19 |
| 183 | 2      | -1.01   |   |      |      | 1.10 |
| 190 | 4      | -0.34   |   |      |      | 1.14 |
| 191 | 3      | 0.84    |   | 1.21 |      |      |
| 203 | 2      | 1.08    |   |      |      | 1.22 |
| 212 | 3      | 0.67    |   |      |      | 1.20 |
| 213 | 1      | -1.69   |   |      |      | 1.06 |
| 215 | 0      | -10.45  |   |      |      | 0.54 |
| 220 | 0      | 2.70    |   |      |      | 1.32 |
| 221 | 2      | -1.18   |   |      | 1.09 |      |
| 224 | 0      | 2.53    |   |      |      | 1.31 |
| 234 | 3      | -0.84   |   | 1.11 |      |      |
| 240 | 3      | 0.84    |   |      |      | 1.21 |
| 241 | 4      | 0.00    |   |      |      | 1.16 |
| 247 | 3      | 0.57    |   | 1.19 |      |      |
| 248 | 2      | 1.18    |   |      |      | 1.23 |
| 249 | 4      | 0.34    |   |      |      | 1.18 |
| 253 | 3      | 0.67    |   |      |      | 1.20 |
| 255 | 3      | -0.51   |   |      |      | 1.13 |

Table 17. *Statistical summary of reported data for standard reference water sample P-27 (low ionic strength constituents)*

| Definition of analytical methods, abbreviations, and symbols |                              |   |
|--|------------------------------|---|
| <u>Analytical methods</u>                                    |                              |   |
| 0 Other/Not reported   |                              |   |
| 1 AA: direct, air  | =                            | atomic absorption: direct,air                     |
| 2 AA: direct, N <sub>2</sub> 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   | =                            | mass spectrometry/inductively coupled plasma      |
| 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]            |
| <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                              |
|  | μS/cm =                      | microsiemens per centimeter at 25° C              |
|  | Lab =                        | laboratory code number                            |
|  | NR =                         | not rated, less than value reported               |
|  | < =                          | less than   |
| <u>Constituent</u>   |                              |   |
| Acid   | Acidity as CaCO <sub>3</sub> | 132   |
| Ca   | Calcium                      | 133   |
| Cl   | Chloride                     | 134   |
| F  | Fluoride                     | 135   |
| K  | Potassium                    | 136   |
| Mg   | Magnesium                    | 137   |
| Na   | Sodium                       | 138   |
| pH   |                              | 139   |
| PO <sub>4</sub> as P   | Orthophosphate as Phosphorus | 140   |
| SO <sub>4</sub>  | Sulfate                      | 141   |
| Sp Cond  | Specific Conductance         | 142   |

Table 17. Statistical summary of reported data for standard reference water sample P-27 (low ionic strength constituents)—Continued  
Acidity (as CaCO<sub>3</sub>) mg/L

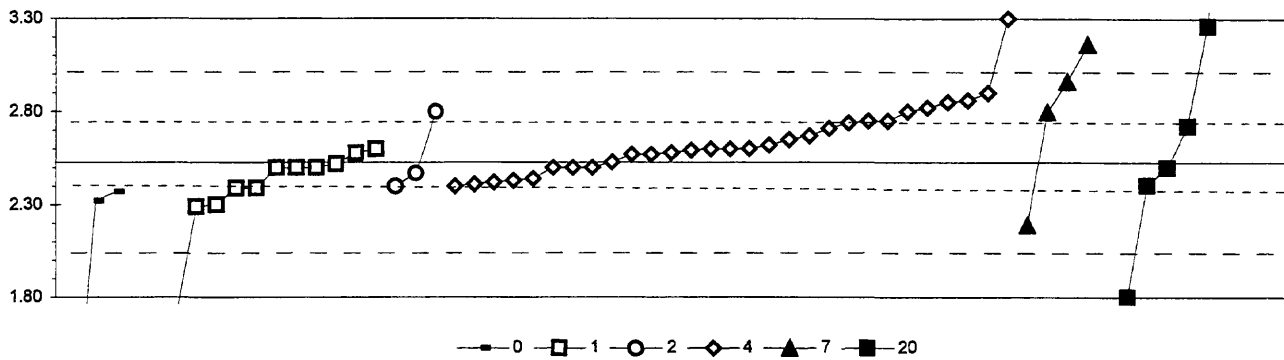


|                            |                 |      |       |       |
|----------------------------|-----------------|------|-------|-------|
| 0. Other                   |                 |      |       |       |
| 20. Titrate: colorimetric  |                 |      |       |       |
| 21. Titrate: electrometric |                 |      |       |       |
|                            | N =             | 2    | 3     | 17    |
|                            | Minimum =       | 5.08 | 0.42  | 0.20  |
|                            | Maximum =       | 5.10 | 15.00 | 27.00 |
|                            | Median =        |      |       | 4.01  |
|                            | F-pseudosigma = |      |       | 3.19  |

MPV = 4.74  
F-pseudosigma = 3.19  
N = 22  
Hu = 6.57  
HI = 2.26

| Lab | Rating | Z-value | 0    | 20    | 21    |
|-----|--------|---------|------|-------|-------|
| 1   | 3      | -0.70   |      |       | 2.50  |
| 3   | NR     |         |      |       | < 10  |
| 5   | 3      | 0.84    |      |       | 7.42  |
| 7   | 4      | 0.14    |      |       | 5.20  |
| 15  | NR     |         |      |       | < 2   |
| 25  | 0      | 6.97    |      |       | 27.00 |
| 38  | 3      | 0.66    |      |       | 6.85  |
| 81  | 2      | -1.33   |      |       | 0.50  |
| 83  | 4      | 0.11    | 5.10 |       |       |
| 89  | 3      | -0.78   |      |       | 2.26  |
| 105 | 2      | -1.35   |      | 0.42  |       |
| 109 | 3      | 0.57    |      |       | 6.57  |
| 132 | 4      | 0.11    | 5.08 |       |       |
| 141 | 3      | -0.73   |      |       | 2.40  |
| 146 | NR     |         |      |       | < 10  |
| 190 | 4      | 0.39    |      |       | 6.00  |
| 215 | 4      | -0.36   |      |       | 3.60  |
| 220 | 3      | 0.77    |      |       | 7.21  |
| 224 | 4      | -0.23   |      |       | 4.01  |
| 240 | 3      | -0.90   |      |       | 1.88  |
| 247 | 2      | -1.42   |      |       | 0.20  |
| 257 | 2      | -1.09   |      |       | 1.25  |
| 272 | 0      | 3.21    |      | 15.00 |       |
| 273 | 4      | 0.14    |      |       | 5.20  |
| 276 | 4      | -0.11   |      | 4.40  |       |

Table 17. Statistical summary of reported data for standard reference water sample P-27 (low ionic strength constituents)—Continued  
Ca (Calcium) mg/L

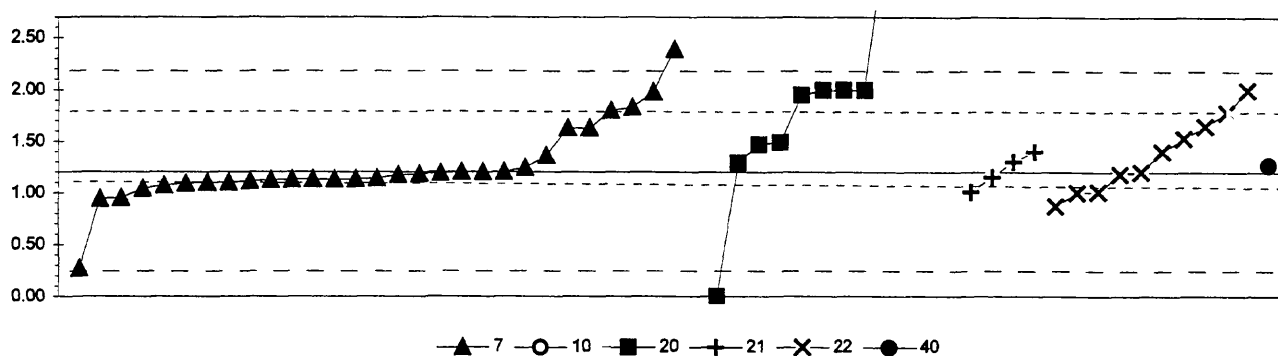


| 10. Other                   |        |                 | 4. ICP                    |      |      |      |      |      |
|-----------------------------|--------|-----------------|---------------------------|------|------|------|------|------|
| 1. AA: direct air           |        |                 | 7. Ion chromatography     |      |      |      |      |      |
| 2. AA: direct nitrous oxide |        |                 | 20. Titrate: colorimetric |      |      |      |      |      |
|                             |        | N =             | 3                         | 13   | 3    | 29   | 4    | 7    |
|                             |        | Minimum =       | 1.06                      | 1.42 | 2.40 | 2.40 | 2.19 | 1.60 |
|                             |        | Maximum =       | 2.37                      | 2.60 | 2.80 | 3.30 | 3.16 | 4.28 |
|                             |        | Median =        |                           | 2.39 |      | 2.60 |      | 2.50 |
|                             |        | F-pseudosigma = |                           | 0.16 |      | 0.19 |      | 0.66 |
| Lab                         | Rating | Z-value         | 0                         | 1    | 2    | 4    | 7    | 20   |
| 1                           | 4      | -0.12           |                           |      |      | 2.50 |      |      |
| 2                           | 2      | 1.09            |                           |      |      |      | 2.80 |      |
| 3                           | 3      | -0.53           |                           |      |      | 2.40 |      |      |
| 5                           | 4      | -0.49           |                           |      |      | 2.41 |      |      |
| 15                          | 2      | 1.19            |                           |      |      | 2.82 |      |      |
| 23                          | 4      | 0.29            |                           | 2.60 |      |      |      |      |
| 25                          | 4      | -0.12           |                           |      |      | 2.50 |      |      |
| 26                          | 1      | 1.77            |                           |      |      |      | 2.96 |      |
| 28                          | 2      | 1.31            |                           |      |      | 2.85 |      |      |
| 33                          | 3      | -0.66           | 2.37                      |      |      |      |      |      |
| 36                          | 3      | -0.53           |                           |      | 2.40 |      |      |      |
| 38                          | 4      | -0.25           |                           |      | 2.47 |      |      |      |
| 42                          | 0      | 3.16            |                           |      |      | 3.30 |      |      |
| 46                          | 4      | -0.37           |                           |      |      | 2.44 |      |      |
| 48                          | 4      | 0.00            |                           |      |      | 2.53 |      |      |
| 58                          | 0      | -3.41           |                           | 1.70 |      |      |      |      |
| 59                          | NR     |                 |                           |      |      | < 5  |      |      |
| 64                          | 4      | -0.12           |                           | 2.50 |      |      |      |      |
| 81                          | 4      | -0.45           |                           |      |      | 2.42 |      |      |
| 83                          | 4      | -0.12           |                           |      |      | 2.50 |      |      |
| 89                          | 3      | -0.99           |                           | 2.29 |      |      |      |      |
| 105                         | 4      | 0.21            |                           |      |      | 2.58 |      |      |
| 107                         | 3      | -0.57           |                           | 2.39 |      |      |      |      |
| 109                         | 4      | 0.21            |                           | 2.58 |      |      |      |      |
| 110                         | 0      | -4.43           |                           | 1.45 |      |      |      |      |
| 113                         | 2      | 1.35            |                           |      |      | 2.86 |      |      |
| 119                         | 4      | 0.16            |                           |      |      | 2.57 |      |      |
| 132                         | 3      | 0.74            |                           |      |      | 2.71 |      |      |
| 134                         | 4      | 0.30            |                           |      |      | 2.60 |      |      |
| 138                         | 4      | 0.29            |                           |      |      | 2.60 |      |      |
| 140                         | 3      | -0.57           |                           | 2.39 |      |      |      |      |
| 141                         | 3      | 0.86            |                           |      |      | 2.74 |      |      |
| 145                         | 3      | 0.57            |                           |      |      | 2.67 |      |      |
| 146                         | 4      | -0.41           |                           |      |      | 2.43 |      |      |
| 155                         | 3      | 0.79            |                           |      |      |      |      | 2.72 |
| 158                         | 0      | 2.59            |                           |      |      |      | 3.16 |      |
| 180                         | 4      | 0.37            |                           |      |      | 2.62 |      |      |
| 190                         | 2      | -1.40           |                           |      |      |      | 2.19 |      |
| 191                         | 3      | -0.86           | 2.32                      |      |      |      |      |      |
| 204                         | 3      | 0.90            |                           |      |      | 2.75 |      |      |
| 215                         | 4      | 0.29            |                           |      |      | 2.60 |      |      |
| 220                         | 4      | -0.12           |                           | 2.50 |      |      |      |      |
| 221                         | 4      | -0.04           |                           | 2.52 |      |      |      |      |
| 224                         | 4      | 0.26            |                           |      |      | 2.59 |      |      |
| 235                         | 3      | 0.90            |                           |      |      | 2.75 |      |      |
| 240                         | 4      | 0.49            |                           |      |      | 2.65 |      |      |
| 241                         | 3      | -0.94           |                           | 2.30 |      |      |      |      |
| 255                         | 4      | 0.16            |                           |      |      | 2.57 |      |      |
| 256                         | 4      | -0.12           |                           |      |      |      |      | 2.50 |
| 257                         | 2      | 1.11            |                           |      | 2.80 |      |      |      |

MPV = 2.53  
F-pseudosigma = 0.24  
N = 59  
Hu = 2.73  
Hi = 2.40

| Lab | Rating | Z-value | 0    | 1    | 2 | 4    | 7 | 20   |
|-----|--------|---------|------|------|---|------|---|------|
| 258 | 0      | -3.82   |      |      |   |      |   | 1.60 |
| 261 | 0      | 3.00    |      |      |   |      |   | 3.26 |
| 262 | 4      | -0.12   |      | 2.50 |   |      |   |      |
| 265 | 1      | 1.52    |      |      |   | 2.90 |   |      |
| 268 | 0      | -4.56   |      | 1.42 |   |      |   |      |
| 270 | 0      | -6.03   | 1.06 |      |   |      |   |      |
| 271 | 0      | 7.18    |      |      |   |      |   | 4.28 |
| 272 | 3      | -0.51   |      |      |   |      |   | 2.41 |
| 273 | 2      | 1.11    |      |      |   | 2.80 |   |      |
| 276 | 0      | -3.00   |      |      |   |      |   | 1.80 |

Table 17. Statistical summary of reported data for standard reference water sample P-27 (low ionic strength constituents)—Continued  
Cl (Chloride) mg/L



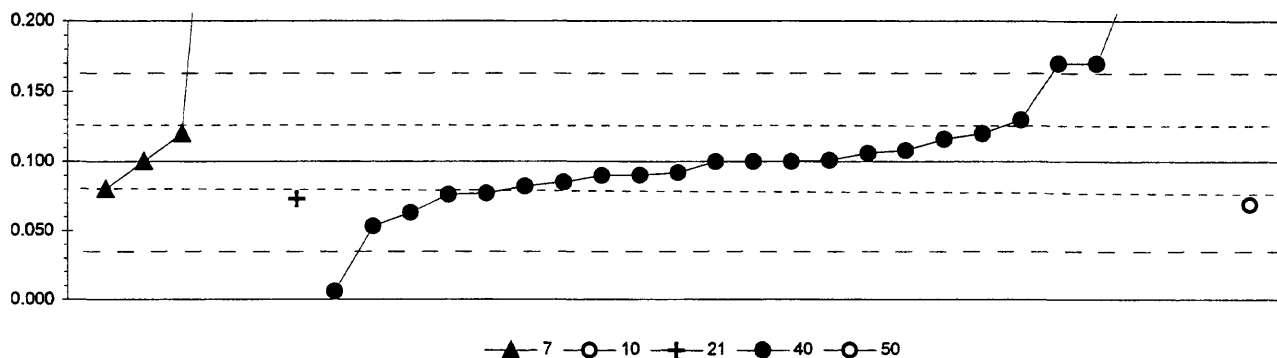
|                           |                             |
|---------------------------|-----------------------------|
| 7. Ion chromatography     | 21. Titrate: electrometric  |
| 8. AA: cold vapor         | 22. Colorimetric            |
| 20. Titrate: colorimetric | 40. Ion selective electrode |
| N = 29                    | 1 12 4 10 1                 |
| Minimum = 0.27            | 13.00 0.00 1.01 0.87 1.27   |
| Maximum = 2.39            | 8.40 1.40 2.00              |
| Median = 1.14             | 2.00 1.30                   |
| F-pseudosigma = 0.10      | 1.50 0.47                   |

MPV = 1.20  
F-pseudosigma = 0.49  
N = 57  
Hu = 1.78  
Hi = 1.13

| Lab | Rating | Z-value | 7    | 10   | 20   | 21    | 22   | 40 |
|-----|--------|---------|------|------|------|-------|------|----|
| 1   | 4      | 0.00    | 1.20 |      |      |       |      |    |
| 2   | 4      | -0.15   | 1.13 |      |      |       |      |    |
| 3   | 2      | 1.19    |      |      |      | 1.78  |      |    |
| 5   | 0      | 2.45    | 2.39 |      |      |       |      |    |
| 7   | 4      | -0.14   | 1.13 |      |      |       |      |    |
| 15  | 3      | 0.89    | 1.63 |      |      |       |      |    |
| 23  | 4      | 0.14    |      |      |      |       | 1.27 |    |
| 25  | 4      | 0.00    | 1.20 |      |      |       |      |    |
| 26  | 4      | -0.14   | 1.13 |      |      |       |      |    |
| 33  | 4      | 0.08    | 1.24 |      |      |       |      |    |
| 36  | NR     |         |      | < 5  |      |       |      |    |
| 39  | 1      | 1.65    |      | 2.00 |      |       |      |    |
| 42  | 4      | -0.21   | 1.10 |      |      |       |      |    |
| 46  | 3      | 0.92    |      |      |      |       | 1.65 |    |
| 48  | 1      | 1.65    |      |      |      |       | 2.00 |    |
| 58  | 3      | 0.60    |      |      | 1.49 |       |      |    |
| 59  | 4      | -0.21   | 1.10 |      |      |       |      |    |
| 64  | 4      | 0.00    | 1.20 |      |      |       |      |    |
| 81  | 4      | -0.10   |      |      |      | 1.15  |      |    |
| 83  | NR     |         |      |      |      | < 5   |      |    |
| 89  | 4      | 0.19    |      |      | 1.29 |       |      |    |
| 105 | 4      | -0.12   | 1.14 |      |      |       |      |    |
| 107 | NR     |         |      |      |      | < 0.6 |      |    |
| 109 | 4      | -0.39   |      |      |      | 1.01  |      |    |
| 110 | 4      | -0.15   | 1.13 |      |      |       |      |    |
| 113 | 1      | 1.61    | 1.98 |      |      |       |      |    |
| 119 | 4      | -0.04   | 1.18 |      |      |       |      |    |
| 134 | 4      | -0.05   | 1.17 |      |      |       |      |    |
| 138 | 4      | -0.27   | 1.07 |      |      |       |      |    |
| 140 | 3      | -0.68   |      |      |      |       | 0.87 |    |
| 141 | 4      | 0.41    |      |      |      |       | 1.40 |    |
| 143 | 4      | 0.00    |      |      |      |       | 1.20 |    |
| 145 | 4      | -0.33   | 1.04 |      |      |       |      |    |
| 146 | 3      | 0.68    |      |      |      |       | 1.53 |    |
| 158 | 1      | -1.92   | 0.27 |      |      |       |      |    |
| 180 | 4      | -0.41   |      |      |      |       | 1.00 |    |
| 183 | 4      | -0.39   |      |      |      |       | 1.01 |    |
| 190 | 4      | -0.23   | 1.09 |      |      |       |      |    |
| 191 | 2      | 1.30    | 1.83 |      |      |       |      |    |
| 196 | 4      | -0.02   | 1.19 |      |      |       |      |    |
| 197 | 3      | -0.54   | 0.94 |      |      |       |      |    |
| 203 | NR     |         |      |      |      | < 2   |      |    |
| 204 | 4      | 0.41    |      |      |      | 1.40  |      |    |
| 215 | 1      | 1.65    |      |      | 2.00 |       |      |    |
| 220 | 4      | -0.04   |      |      |      |       | 1.18 |    |
| 221 | 3      | 0.56    |      |      | 1.47 |       |      |    |
| 224 | 4      | 0.33    | 1.36 |      |      |       |      |    |
| 240 | 4      | -0.14   | 1.13 |      |      |       |      |    |
| 241 | 0      | 4.74    |      |      | 3.50 |       |      |    |
| 247 | 2      | 1.24    | 1.80 |      |      |       |      |    |

| Lab | Rating | Z-value | 7    | 10    | 20   | 21   | 22  | 40 |
|-----|--------|---------|------|-------|------|------|-----|----|
| 255 | NR     |         |      |       |      |      | < 5 |    |
| 256 | 1      | 1.54    |      |       | 1.95 |      |     |    |
| 257 | 3      | 0.89    | 1.63 |       |      |      |     |    |
| 258 | 0      | 14.83   |      |       | 8.40 |      |     |    |
| 261 | 0      | -2.47   |      |       | 0.00 |      |     |    |
| 262 | 4      | 0.21    |      |       |      | 1.30 |     |    |
| 265 | 3      | -0.51   | 0.95 |       |      |      |     |    |
| 268 | 4      | -0.19   | 1.11 |       |      |      |     |    |
| 271 | 1      | 1.65    |      |       | 2.00 |      |     |    |
| 272 | 0      | 12.13   |      |       | 7.09 |      |     |    |
| 273 | 0      | 24.30   |      | 13.00 |      |      |     |    |
| 276 | 0      | 4.74    |      |       | 3.50 |      |     |    |

Table 17. Statistical summary of reported data for standard reference water sample P-27 (low ionic strength constituents)—Continued  
F (Fluoride) mg/L

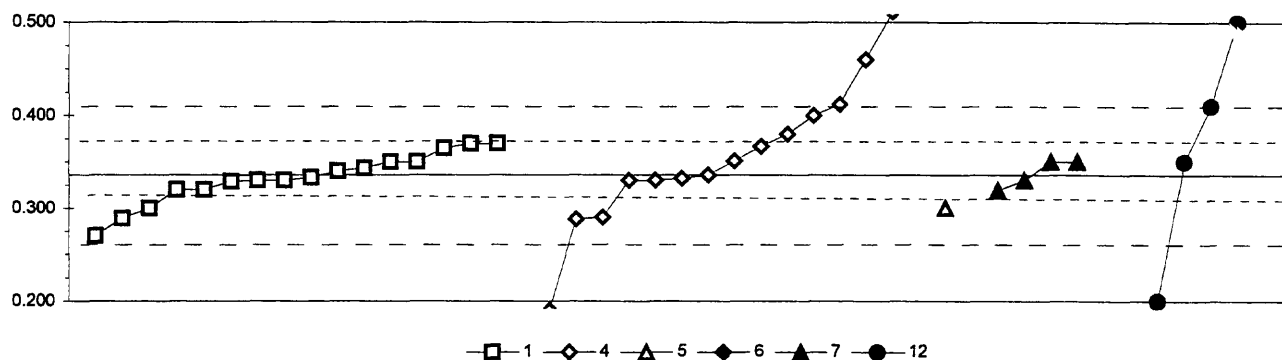


|                            |  |                             |      |      |      |      |
|----------------------------|--|-----------------------------|------|------|------|------|
| 7. Ion chromatography      |  | 40. Ion selective electrode |      |      |      |      |
| 8. AA: cold vapor          |  | 50. Gravimetric             |      |      |      |      |
| 21. Titrate: electrometric |  | N =                         | 4    | 1    | 1    | 24   |
|                            |  | Minimum =                   | 0.08 | 0.40 | 0.07 | 0.01 |
|                            |  | Maximum =                   | 0.45 |      |      | 0.54 |
|                            |  | Median =                    |      |      |      | 0.10 |
|                            |  | F-pseudosigma =             |      |      |      | 0.03 |

MPV = 0.100  
F-pseudosigma = 0.033  
N = 31  
Hu = 0.125  
Hi = 0.081

| Lab | Rating | Z-value | 7     | 10    | 21    | 40    | 50    |
|-----|--------|---------|-------|-------|-------|-------|-------|
| 1   | NR     |         |       |       |       | < 0.1 |       |
| 3   | 2      | -1.13   |       |       |       | 0.063 |       |
| 7   | NR     |         |       | < 0.5 |       |       |       |
| 15  | 4      | 0.25    |       |       |       | 0.108 |       |
| 23  | NR     |         |       |       |       | < 0.1 |       |
| 25  | 4      | 0.00    |       |       |       | 0.100 |       |
| 26  | 3      | 0.61    | 0.120 |       |       |       |       |
| 36  | NR     |         |       |       |       | < 0.1 |       |
| 39  | 0      | -2.88   |       |       |       | 0.006 |       |
| 48  | 0      | 4.29    |       |       |       | 0.240 |       |
| 58  | 4      | -0.25   |       |       |       | 0.092 |       |
| 59  | NR     |         |       |       |       | < 0.2 |       |
| 81  | 3      | -0.95   |       |       |       |       | 0.069 |
| 83  | 0      | 2.15    |       |       |       | 0.170 |       |
| 89  | 0      | 13.40   |       |       |       | 0.537 |       |
| 105 | NR     |         | < 0.2 |       |       |       |       |
| 107 | 3      | -0.71   |       |       |       | 0.077 |       |
| 109 | 4      | -0.31   |       |       |       | 0.090 |       |
| 113 | 4      | -0.30   |       |       |       | 0.090 |       |
| 119 | 4      | 0.00    |       |       |       | 0.100 |       |
| 134 | 3      | 0.61    |       |       |       | 0.120 |       |
| 138 | 4      | 0.03    |       |       |       | 0.101 |       |
| 140 | 2      | -1.44   |       |       |       | 0.053 |       |
| 141 | 3      | 0.92    |       |       |       | 0.130 |       |
| 145 | 3      | -0.61   | 0.080 |       |       |       |       |
| 146 | NR     |         |       |       |       | < 0.2 |       |
| 190 | 3      | -0.83   |       |       | 0.073 |       |       |
| 196 | 4      | 0.18    |       |       |       | 0.106 |       |
| 215 | 4      | 0.00    |       |       |       | 0.100 |       |
| 224 | 0      | 10.73   | 0.450 |       |       |       |       |
| 240 | 3      | -0.74   |       |       |       | 0.076 |       |
| 241 | 4      | 0.49    |       |       |       | 0.116 |       |
| 247 | 4      | 0.00    | 0.100 |       |       |       |       |
| 255 | NR     |         |       |       |       | < 0.2 |       |
| 257 | 4      | -0.46   |       |       |       | 0.085 |       |
| 258 | 0      | 2.15    |       |       |       | 0.170 |       |
| 262 | 3      | -0.55   |       |       |       | 0.082 |       |
| 265 | NR     |         |       |       |       | < 0.1 |       |
| 272 | 0      | 9.35    |       |       |       | 0.405 |       |
| 273 | 0      | 9.20    |       | 0.400 |       |       |       |

Table 17. Statistical summary of reported data for standard reference water sample P-27 (low ionic strength constituents)—Continued  
K (Potassium) mg/L

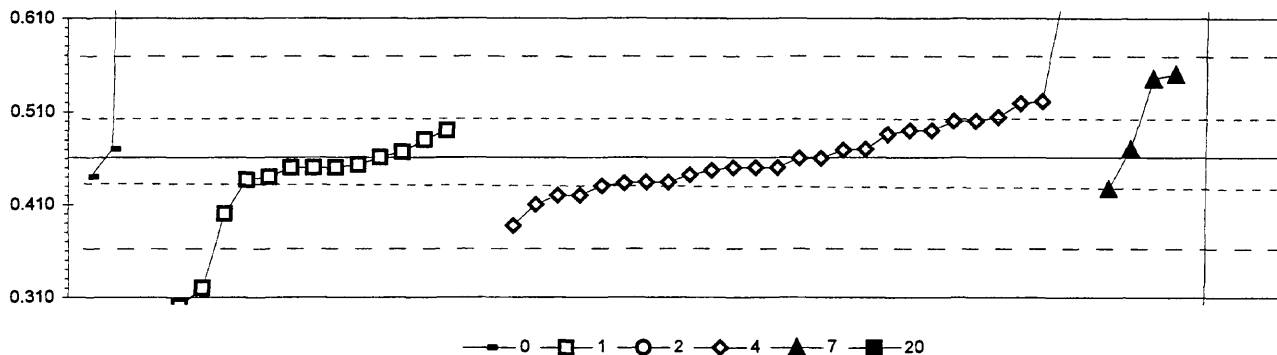


|                   |                 |         |                       |        |       |       |       |        |
|-------------------|-----------------|---------|-----------------------|--------|-------|-------|-------|--------|
| 1. AA: direct air |                 |         | 6. ICP/MS             |        |       |       |       |        |
| 4. ICP            |                 |         | 7. Ion chromatography |        |       |       |       |        |
| 5. DCP            |                 |         | 12. Flame emission    |        |       |       |       |        |
|                   | N =             |         | 16                    | 16     | 1     | 1     | 4     | 7      |
|                   | Minimum =       |         | 0.270                 | 0.000  | 0.300 | 1.110 | 0.319 | 0.000  |
|                   | Maximum =       |         | 0.370                 | 0.550  |       |       | 0.350 | 0.900  |
|                   | Median =        |         | 0.332                 | 0.344  |       |       |       | 0.350  |
|                   | F-pseudosigma = |         | 0.022                 | 0.071  |       |       |       | 0.263  |
| Lab               | Rating          | Z-value | 1                     | 4      | 5     | 6     | 7     | 12     |
| 1                 | 4               | -0.16   | 0.330                 |        |       |       |       |        |
| 2                 | 4               | -0.16   |                       |        |       |       | 0.330 |        |
| 3                 | 4               | -0.16   |                       | 0.330  |       |       |       |        |
| 5                 | NR              |         |                       | < 1    |       |       |       |        |
| 15                | 0               | 4.63    |                       | 0.511  |       |       |       |        |
| 23                | 4               | 0.37    | 0.350                 |        |       |       |       |        |
| 26                | 4               | 0.37    |                       |        |       |       | 0.350 |        |
| 28                | 0               | -3.86   |                       | 0.190  |       |       |       |        |
| 33                | 3               | -0.95   |                       |        | 0.300 |       |       |        |
| 36                | NR              |         | < 0.5                 |        |       |       |       |        |
| 38                | 4               | -0.42   | 0.320                 |        |       |       |       |        |
| 42                | 1               | 1.69    |                       | 0.400  |       |       |       |        |
| 46                | 4               | -0.16   | 0.330                 |        |       |       |       |        |
| 48                | 2               | 1.16    |                       | 0.380  |       |       |       |        |
| 58                | 4               | 0.37    | 0.350                 |        |       |       |       |        |
| 59                | NR              |         |                       | < 5    |       |       |       |        |
| 64                | 4               | -0.42   | 0.320                 |        |       |       |       |        |
| 81                | 4               | 0.00    |                       | 0.336  |       |       |       |        |
| 83                | NR              |         |                       | < 2    |       |       |       |        |
| 89                | 4               | -0.08   | 0.333                 |        |       |       |       |        |
| 105               | NR              |         |                       | < 0.5  |       |       |       |        |
| 107               | 4               | 0.11    | 0.340                 |        |       |       |       |        |
| 109               | 1               | -1.75   | 0.270                 |        |       |       |       |        |
| 113               | 2               | -1.27   |                       | 0.288  |       |       |       |        |
| 119               | 0               | -8.89   |                       | 0.000  |       |       |       |        |
| 132               | 0               | 5.66    |                       | 0.550  |       |       |       |        |
| 134               | 4               | 0.19    | 0.343                 |        |       |       |       |        |
| 138               | 4               | -0.16   |                       | 0.330  |       |       |       |        |
| 140               | 2               | -1.24   | 0.289                 |        |       |       |       |        |
| 141               | 4               | 0.40    |                       | 0.351  |       |       |       |        |
| 145               | 2               | -1.22   |                       | 0.290  |       |       |       |        |
| 146               | NR              |         |                       | < 1    |       |       |       |        |
| 158               | 4               | 0.37    |                       |        |       |       | 0.350 |        |
| 180               | NR              |         |                       | < 1.26 |       |       |       |        |
| 190               | 4               | -0.45   |                       |        |       |       | 0.319 |        |
| 191               | 0               | 20.47   |                       |        | 1.110 |       |       |        |
| 215               | NR              |         |                       | < 1    |       |       |       |        |
| 220               | 3               | -0.95   | 0.300                 |        |       |       |       |        |
| 221               | 4               | -0.19   | 0.329                 |        |       |       |       |        |
| 224               | 4               | -0.11   |                       | 0.332  |       |       |       |        |
| 235               | 0               | 3.28    |                       | 0.460  |       |       |       |        |
| 241               | 3               | 0.90    | 0.370                 |        |       |       |       |        |
| 255               | 3               | 0.82    |                       | 0.367  |       |       |       |        |
| 256               | 0               | -8.89   |                       |        |       |       |       | 0.000  |
| 257               | 0               | -3.60   |                       |        |       |       |       | 0.200  |
| 258               | 0               | 4.34    |                       |        |       |       |       | 0.500  |
| 261               | NR              |         |                       |        |       |       |       | < 0.39 |
| 262               | 4               | 0.37    |                       |        |       |       |       | 0.350  |
| 265               | 3               | 0.90    | 0.370                 |        |       |       |       |        |
| 268               | 3               | 0.77    | 0.365                 |        |       |       |       |        |

MPV = 0.336  
F-pseudosigma = 0.038  
N = 45  
Hu = 0.370  
Hi = 0.319

| Lab | Rating | Z-value | 1 | 4     | 5 | 6 | 7 | 12    |
|-----|--------|---------|---|-------|---|---|---|-------|
| 270 | 1      | 1.96    |   |       |   |   |   | 0.410 |
| 271 | 0      | 14.92   |   |       |   |   |   | 0.900 |
| 272 | 0      | -8.89   |   |       |   |   |   | 0.000 |
| 273 | 1      | 2.01    |   | 0.412 |   |   |   |       |

Table 17. Statistical summary of reported data for standard reference water sample P-27 (low ionic strength constituents)—Continued  
Mg (Magnesium) mg/L



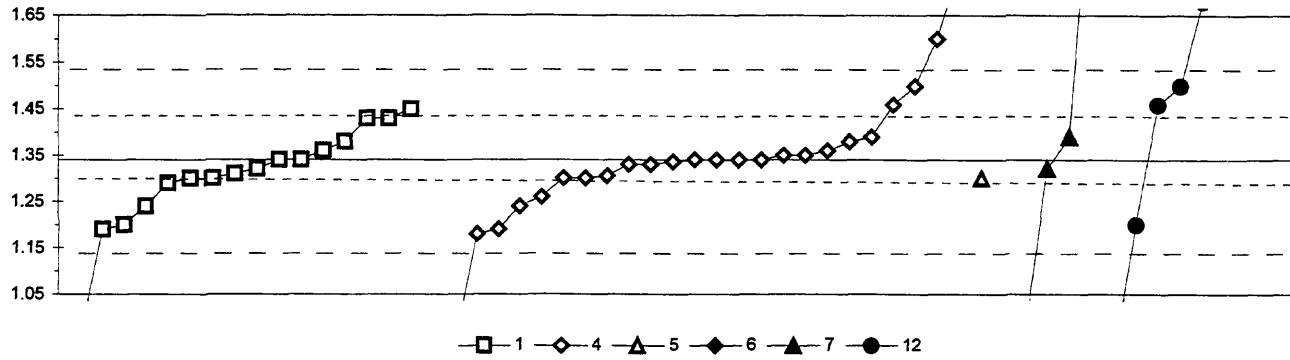
|                             |                                      |
|-----------------------------|--------------------------------------|
| 0. Other                    | 4. ICP                               |
| 1. AA: direct air           | 7. Ion chromatography                |
| 2. AA: direct nitrous oxide | 20. Titrate: colorimetric            |
| N =                         | 4 13 2 27 4 4                        |
| Minimum =                   | 0.440 0.300 0.630 0.387 0.427 0.000  |
| Maximum =                   | 1.940 0.490 0.720 3.580 0.550 10.370 |
| Median =                    | 0.450 0.460                          |
| F-pseudosigma =             | 0.018 0.045                          |

MPV = 0.461  
F-pseudosigma = 0.050  
N = 54  
Hu = 0.504  
HI = 0.437

| Lab | Rating | Z-value | 0     | 1     | 2     | 4     | 7 | 20 |
|-----|--------|---------|-------|-------|-------|-------|---|----|
| 1   | 4      | -0.21   |       |       | 0.450 |       |   |    |
| 2   | 1      | 1.70    |       |       |       | 0.545 |   |    |
| 3   | 3      | -0.82   |       |       | 0.420 |       |   |    |
| 5   | 3      | -0.53   |       |       | 0.434 |       |   |    |
| 15  | 0      | 3.59    |       |       | 0.639 |       |   |    |
| 23  | NR     |         | < 0.5 |       |       |       |   |    |
| 25  | 3      | -0.82   |       |       | 0.420 |       |   |    |
| 26  | 4      | 0.19    |       |       |       | 0.470 |   |    |
| 28  | 4      | -0.21   |       |       | 0.450 |       |   |    |
| 33  | 4      | -0.41   | 0.440 |       |       |       |   |    |
| 36  | NR     |         | < 0.5 |       |       |       |   |    |
| 38  | 4      | -0.47   |       | 0.437 |       |       |   |    |
| 42  | 3      | 0.80    |       |       | 0.500 |       |   |    |
| 46  | 4      | -0.37   |       |       | 0.442 |       |   |    |
| 48  | 3      | 0.80    |       |       | 0.500 |       |   |    |
| 58  | 0      | -2.83   |       | 0.320 |       |       |   |    |
| 59  | NR     |         |       |       |       | < 5   |   |    |
| 64  | 4      | -0.21   |       | 0.450 |       |       |   |    |
| 81  | 3      | -0.55   |       |       | 0.433 |       |   |    |
| 83  | 3      | -0.53   |       |       | 0.434 |       |   |    |
| 89  | 4      | -0.15   |       | 0.453 |       |       |   |    |
| 105 | 2      | -1.48   |       |       | 0.387 |       |   |    |
| 107 | 4      | -0.21   |       | 0.450 |       |       |   |    |
| 109 | 3      | 0.59    |       | 0.490 |       |       |   |    |
| 110 | 4      | -0.21   |       | 0.450 |       |       |   |    |
| 113 | 3      | 0.88    |       |       | 0.504 |       |   |    |
| 119 | 2      | -1.02   |       |       | 0.410 |       |   |    |
| 132 | 4      | -0.21   |       |       | 0.450 |       |   |    |
| 134 | 4      | -0.27   |       |       | 0.447 |       |   |    |
| 138 | 4      | -0.01   |       |       | 0.460 |       |   |    |
| 140 | 4      | 0.13    |       | 0.467 |       |       |   |    |
| 141 | 3      | 0.51    |       |       | 0.486 |       |   |    |
| 145 | 3      | 0.59    |       |       | 0.490 |       |   |    |
| 146 | NR     |         |       |       | < 0.5 |       |   |    |
| 158 | 1      | 1.80    |       |       |       | 0.550 |   |    |
| 180 | 4      | 0.17    |       |       | 0.469 |       |   |    |
| 190 | 3      | -0.67   |       |       |       | 0.427 |   |    |
| 191 | 4      | 0.19    | 0.470 |       |       |       |   |    |
| 204 | 0      | 62.81   |       |       | 3.580 |       |   |    |
| 215 | 4      | -0.01   |       |       | 0.460 |       |   |    |
| 220 | 2      | -1.22   |       | 0.400 |       |       |   |    |
| 221 | 4      | 0.01    |       | 0.461 |       |       |   |    |
| 224 | 2      | 1.18    |       |       | 0.519 |       |   |    |
| 235 | 3      | 0.59    |       |       | 0.490 |       |   |    |
| 240 | 3      | -0.61   |       |       | 0.430 |       |   |    |
| 241 | 0      | -3.23   |       | 0.300 |       |       |   |    |
| 255 | 4      | 0.19    |       |       | 0.470 |       |   |    |
| 256 | 0      | 20.93   | 1.500 |       |       |       |   |    |
| 257 | 0      | 3.41    |       | 0.630 |       |       |   |    |
| 258 | 0      | 29.79   | 1.940 |       |       |       |   |    |

| Lab | Rating | Z-value | 0 | 1     | 2     | 4     | 7 | 20     |
|-----|--------|---------|---|-------|-------|-------|---|--------|
| 261 | 0      | 29.99   |   |       |       |       |   | 1.950  |
| 262 | 4      | -0.41   |   | 0.440 |       |       |   |        |
| 265 | 0      | 5.22    |   |       | 0.720 |       |   |        |
| 268 | 4      | 0.39    |   | 0.480 |       |       |   |        |
| 271 | 0      | 199.52  |   |       |       |       |   | 10.370 |
| 272 | 0      | -9.27   |   |       |       |       |   | 0.000  |
| 273 | 2      | 1.22    |   |       |       | 0.521 |   |        |
| 276 | 0      | 18.92   |   |       |       |       |   | 1.400  |

Table 17. Statistical summary of reported data for standard reference water sample P-27 (low ionic strength constituents)—Continued  
Na (Sodium) mg/L



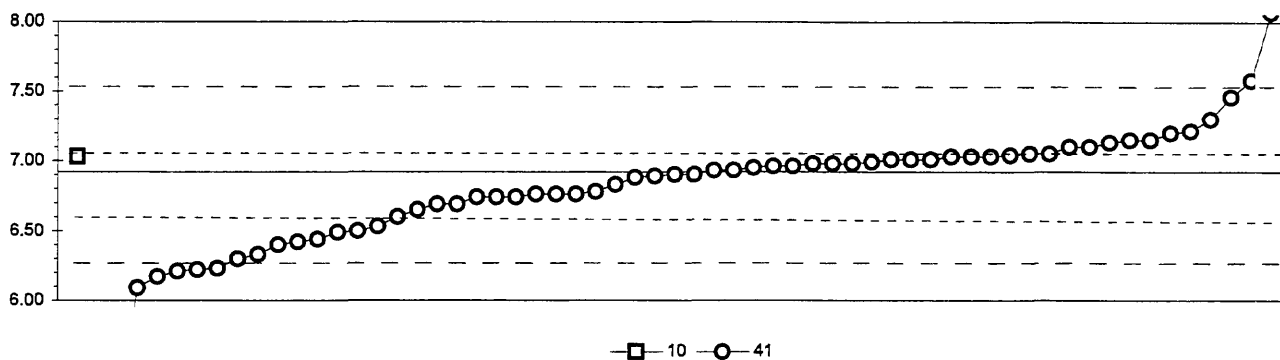
|                   |   |
|-------------------|---|
| 1. AA: direct air | 6. ICP/MS                               |
| 4. ICP            | 7. Ion chromatography                   |
| 5. DCP            | 12. Flame emission                      |
|                   | N = 16 25 1 1 4 8                       |
|                   | Minimum = 0.96 0.78 1.30 2.07 0.96 0.92 |
|                   | Maximum = 1.45 1.76 2.02 4.30           |
|                   | Median = 1.32 1.34 1.59                 |
|                   | F-pseudosigma = 0.08 0.04 0.61          |

MPV = 1.34  
F-pseudosigma = 0.10  
N = 55  
Hu = 1.43  
Hi = 1.30

| Lab | Rating | Z-value | 1    | 4    | 5    | 6    | 7    | 12   |
|-----|--------|---------|------|------|------|------|------|------|
| 1   | 4      | 0.00    | 1.34 |      |      |      |      |      |
| 2   | 0      | 6.77    |      |      |      |      | 2.02 |      |
| 3   | 0      | -5.60   |      | 0.78 |      |      |      |      |
| 5   | 4      | 0.00    |      | 1.34 |      |      |      |      |
| 15  | 0      | 4.20    |      | 1.76 |      |      |      |      |
| 23  | 3      | 0.90    | 1.43 |      |      |      |      |      |
| 25  | 4      | 0.20    |      | 1.36 |      |      |      |      |
| 26  | 4      | -0.20   |      |      |      |      | 1.32 |      |
| 28  | 0      | -4.00   |      | 0.94 |      |      |      |      |
| 33  | 4      | -0.40   |      |      | 1.30 |      |      |      |
| 36  | 2      | -1.40   | 1.20 |      |      |      |      |      |
| 38  | 3      | -1.00   | 1.24 |      |      |      |      |      |
| 42  | 4      | -0.40   |      | 1.30 |      |      |      |      |
| 46  | 4      | -0.35   |      | 1.31 |      |      |      |      |
| 48  | 4      | 0.40    |      | 1.38 |      |      |      |      |
| 58  | 0      | -3.80   | 0.96 |      |      |      |      |      |
| 59  | NR     |         |      | < 5  |      |      |      |      |
| 64  | 4      | -0.50   | 1.29 |      |      |      |      |      |
| 81  | 3      | -1.00   |      | 1.24 |      |      |      |      |
| 83  | 4      | -0.10   |      | 1.33 |      |      |      |      |
| 89  | 4      | -0.30   | 1.31 |      |      |      |      |      |
| 105 | 1      | -1.60   |      | 1.18 |      |      |      |      |
| 107 | 4      | 0.00    | 1.34 |      |      |      |      |      |
| 109 | 4      | 0.20    | 1.36 |      |      |      |      |      |
| 110 | 4      | -0.20   | 1.32 |      |      |      |      |      |
| 113 | 4      | -0.40   |      | 1.30 |      |      |      |      |
| 119 | 4      | 0.10    |      | 1.35 |      |      |      |      |
| 132 | 1      | 1.60    |      | 1.50 |      |      |      |      |
| 134 | 4      | 0.00    | 1.34 |      |      |      |      |      |
| 138 | 4      | 0.10    |      | 1.35 |      |      |      |      |
| 140 | 3      | 0.90    | 1.43 |      |      |      |      |      |
| 141 | 4      | 0.50    |      | 1.39 |      |      |      |      |
| 145 | 4      | 0.00    |      | 1.34 |      |      |      |      |
| 146 | 3      | -0.80   |      | 1.26 |      |      |      |      |
| 158 | 0      | -3.80   |      |      |      | 0.96 |      |      |
| 180 | 4      | 0.00    |      | 1.34 |      |      |      |      |
| 190 | 4      | 0.50    |      |      |      |      | 1.39 |      |
| 191 | 0      | 7.29    |      |      | 2.07 |      |      |      |
| 215 | 0      | 2.60    |      | 1.60 |      |      |      |      |
| 220 | 4      | -0.40   | 1.30 |      |      |      |      |      |
| 221 | 2      | 1.10    | 1.45 |      |      |      |      |      |
| 224 | 4      | -0.04   |      | 1.34 |      |      |      |      |
| 235 | 2      | -1.50   |      | 1.19 |      |      |      |      |
| 241 | 4      | -0.40   | 1.30 |      |      |      |      |      |
| 255 | 4      | -0.10   |      | 1.33 |      |      |      |      |
| 256 | 0      | -4.20   |      |      |      |      |      | 0.92 |
| 257 | 2      | -1.40   |      |      |      |      |      | 1.20 |
| 258 | 1      | 1.60    |      |      |      |      |      | 1.50 |
| 261 | 0      | 9.59    |      |      |      |      |      | 2.30 |
| 262 | 2      | 1.20    |      |      |      |      |      | 1.46 |

| Lab | Rating | Z-value | 1    | 4    | 5 | 6 | 7 | 12   |
|-----|--------|---------|------|------|---|---|---|------|
| 265 | 2      | -1.50   | 1.19 |      |   |   |   |      |
| 268 | 4      | 0.40    | 1.38 |      |   |   |   |      |
| 270 | 0      | 3.40    |      |      |   |   |   | 1.68 |
| 271 | 0      | 29.58   |      |      |   |   |   | 4.30 |
| 272 | 0      | 6.60    |      |      |   |   |   | 2.00 |
| 273 | 2      | 1.20    |      | 1.46 |   |   |   |      |

Table 17. Statistical summary of reported data for standard reference water sample P-27 (low ionic strength constituents)—Continued  
pH



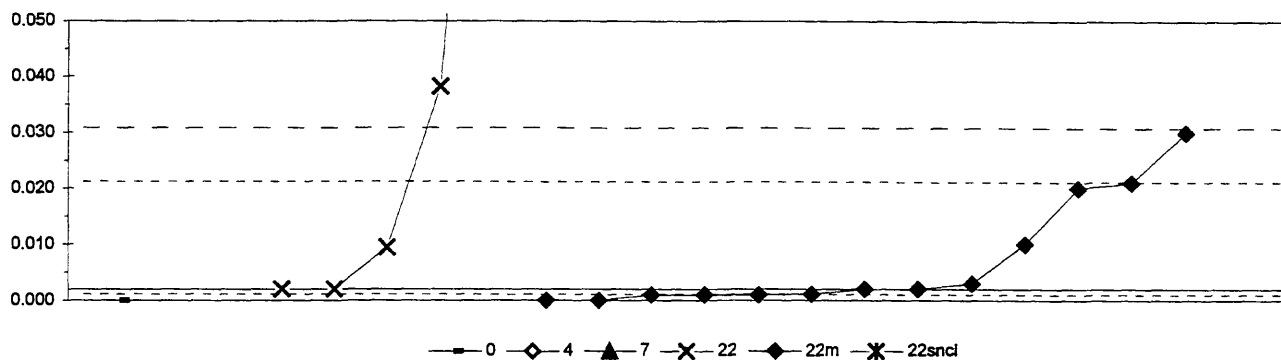
8. AA: cold vapor  
41. Direct reading

|     |        | N =             | 1    | 61   |
|-----|--------|-----------------|------|------|
|     |        | Minimum =       | 7.03 | 4.69 |
|     |        | Maximum =       |      | 8.23 |
|     |        | Median =        |      | 6.90 |
|     |        | F-pseudosigma = |      | 0.32 |
| Lab | Rating | Z-value         | 10   | 41   |
| 1   | 4      | 0.23            |      | 6.99 |
| 2   | 1      | -1.83           |      | 6.33 |
| 3   | 0      | -2.18           |      | 6.22 |
| 5   | 0      | -2.21           |      | 6.21 |
| 7   | 4      | 0.20            |      | 6.98 |
| 15  | 0      | -2.14           |      | 6.23 |
| 23  | 4      | 0.05            |      | 6.93 |
| 25  | 3      | 0.67            |      | 7.13 |
| 26  | 4      | 0.11            |      | 6.95 |
| 33  | 3      | -0.55           |      | 6.74 |
| 36  | 4      | 0.14            |      | 6.96 |
| 38  | 3      | 0.58            |      | 7.10 |
| 39  | 4      | -0.05           |      | 6.90 |
| 46  | 0      | 2.08            |      | 7.58 |
| 48  | 1      | -1.61           |      | 6.40 |
| 58  | 0      | 3.62            |      | 8.07 |
| 59  | 3      | -0.70           |      | 6.69 |
| 64  | 4      | 0.30            |      | 7.01 |
| 81  | 4      | -0.11           |      | 6.88 |
| 89  | 4      | 0.30            |      | 7.01 |
| 92  | 4      | 0.36            |      | 7.03 |
| 105 | 3      | -0.83           |      | 6.65 |
| 107 | 3      | 0.74            |      | 7.15 |
| 109 | 0      | -2.33           |      | 6.17 |
| 110 | 4      | 0.36            |      | 7.03 |
| 113 | 4      | 0.42            |      | 7.05 |
| 119 | 2      | -1.33           |      | 6.49 |
| 132 | 3      | 0.74            |      | 7.15 |
| 134 | 4      | 0.05            |      | 6.93 |
| 138 | 4      | -0.42           |      | 6.78 |
| 140 | 1      | -1.55           |      | 6.42 |
| 141 | 4      | 0.14            |      | 6.96 |
| 143 | 3      | -0.70           |      | 6.69 |
| 145 | 2      | 1.21            |      | 7.30 |
| 146 | 4      | -0.05           |      | 6.90 |
| 155 | 2      | -1.21           |      | 6.53 |
| 158 | 0      | -6.96           |      | 4.69 |
| 180 | 3      | 0.58            |      | 7.10 |
| 183 | 1      | 1.71            |      | 7.46 |
| 190 | 3      | -0.99           |      | 6.60 |
| 203 | 2      | -1.30           |      | 6.50 |
| 204 | 3      | -0.55           |      | 6.74 |
| 215 | 4      | 0.42            |      | 7.05 |
| 221 | 0      | -2.58           |      | 6.09 |
| 224 | 4      | -0.49           |      | 6.76 |
| 240 | 3      | -0.55           |      | 6.74 |
| 241 | 4      | -0.27           |      | 6.83 |
| 243 | 0      | 4.12            |      | 8.23 |
| 244 | 4      | 0.20            |      | 6.98 |
| 247 | 4      | 0.30            |      | 7.01 |

MPV = 6.92  
F-pseudosigma = 0.32  
N = 62  
Hu = 7.03  
Hi = 6.60

| Lab | Rating | Z-value | 10   | 41   |
|-----|--------|---------|------|------|
| 255 | 3      | 0.89    |      | 7.20 |
| 256 | 4      | 0.39    |      | 7.04 |
| 257 | 4      | 0.36    |      | 7.03 |
| 258 | 1      | -1.92   |      | 6.30 |
| 261 | 2      | -1.49   |      | 6.44 |
| 262 | 0      | -5.43   |      | 5.18 |
| 265 | 4      | -0.49   |      | 6.76 |
| 268 | 4      | -0.49   |      | 6.76 |
| 271 | 4      | 0.20    |      | 6.98 |
| 272 | 3      | 0.93    |      | 7.21 |
| 273 | 4      | 0.36    | 7.03 |      |
| 276 | 4      | -0.08   |      | 6.89 |

Table 17. Statistical summary of reported data for standard reference water sample P-27 (low ionic strength constituents)—Continued  
 $\text{PO}_4$  as P (orthophosphate as phosphorus) mg/L

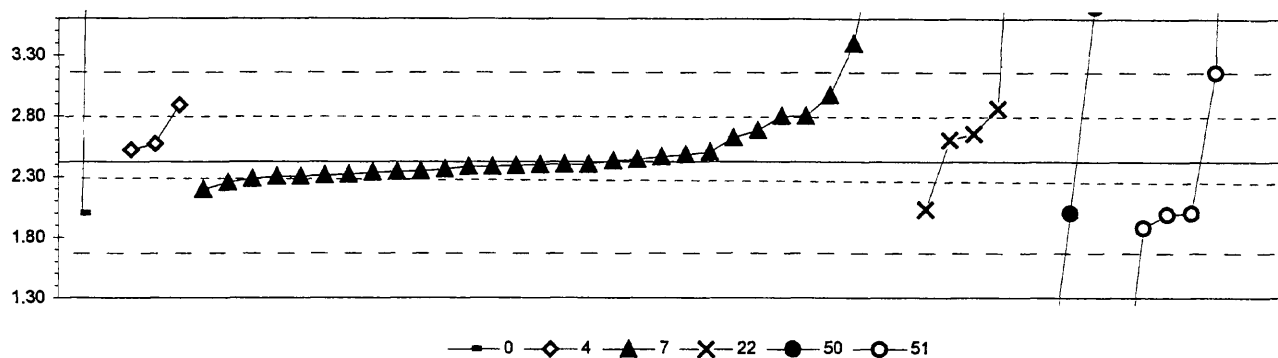


|                       |                                  |
|-----------------------|----------------------------------|
| 0. Other              | 22. Colorimetric                 |
| 4. ICP                | 22m. Color:phosphomolybdate      |
| 7. Ion chromatography | 22sncl. Color: stannous fluoride |
| N =                   | 1 0 1 5 13 0                     |
| Minimum =             | 0.000 0.400 0.002 0.000          |
| Maximum =             | 0.150 0.030                      |
| Median =              | 0.002                            |
| F-pseudosigma =       | 0.007                            |

MPV = 0.002  
F-pseudosigma = 0.014  
N = 20  
Hu = 0.021  
HI = 0.001

| Lab | Rating | Z-value | 0      | 4     | 7       | 22     | 22m     | 22sncl |
|-----|--------|---------|--------|-------|---------|--------|---------|--------|
| 1   | NR     |         |        |       |         |        | < 0.001 |        |
| 3   | NR     |         |        |       |         | < 0.01 |         |        |
| 7   | NR     |         |        |       | < 0.16  |        |         |        |
| 15  | NR     |         |        |       |         |        | < 0.02  |        |
| 23  | NR     |         |        |       |         |        | < 0.01  |        |
| 26  | NR     |         |        |       | < 0.5   |        |         |        |
| 28  | 4      | 0.00    |        |       |         |        | 0.002   |        |
| 33  | NR     |         |        |       | < 0.01  |        |         |        |
| 36  | NR     |         |        |       |         |        | < 0.025 |        |
| 38  | 4      | -0.07   |        |       |         |        | 0.001   |        |
| 39  | NR     |         |        |       |         |        | < 0.005 |        |
| 42  | 4      | 0.00    |        |       |         | 0.002  |         |        |
| 48  | NR     |         |        |       |         |        | < 0.005 |        |
| 58  | 3      | 0.55    |        |       |         |        | 0.010   |        |
| 64  | 4      | -0.07   |        |       |         |        | 0.001   |        |
| 81  | NR     |         |        |       |         |        | < 0.005 |        |
| 83  | 3      | 0.51    |        |       |         | 0.009  |         |        |
| 89  | NR     |         |        |       |         |        | < 0.002 |        |
| 92  | NR     |         |        |       |         |        | < 0.005 |        |
| 105 | 4      | 0.00    |        |       |         | 0.002  |         |        |
| 107 | NR     |         |        |       |         |        | < 0.002 |        |
| 113 | NR     |         |        |       |         |        | < 0.004 |        |
| 119 | NR     | -0.14   |        |       |         |        | 0.000   |        |
| 132 | NR     |         |        |       |         |        |         | < 0.01 |
| 134 | NR     | -0.14   |        |       |         |        | 0.000   |        |
| 138 | NR     |         |        |       |         |        | < 0.004 |        |
| 140 | NR     |         |        |       |         |        | < 0.01  |        |
| 141 | NR     |         |        |       |         |        | < 0.05  |        |
| 143 | 4      | 0.00    |        |       |         |        | 0.002   |        |
| 145 | NR     |         |        |       |         |        | < 0.01  |        |
| 146 | NR     |         |        |       |         |        | < 0.05  |        |
| 155 | 4      | -0.06   |        |       |         |        | 0.001   |        |
| 180 | NR     |         |        |       |         |        | < 0.01  |        |
| 190 | 2      | 1.31    |        |       |         |        | 0.021   |        |
| 191 | 0      | 27.53   |        |       | 0.400   |        |         |        |
| 196 | NR     |         |        |       | < 0.05  |        |         |        |
| 204 | NR     |         |        |       |         |        | < 0.002 |        |
| 215 | 1      | 1.94    |        |       |         |        | 0.030   |        |
| 224 | 4      | -0.07   |        |       |         |        | 0.001   |        |
| 235 | NR     |         |        | < 0.5 |         |        |         |        |
| 240 | NR     |         |        |       | < 0.1   |        |         |        |
| 241 | 4      | 0.07    |        |       |         |        | 0.003   |        |
| 247 | NR     |         |        |       | < 0.001 |        |         |        |
| 257 | 2      | 1.25    |        |       |         |        | 0.020   |        |
| 258 | 0      | 2.50    |        |       |         | 0.038  |         |        |
| 261 | NR     |         | < 0.05 |       |         |        |         |        |
| 271 | 0      | 10.24   |        |       |         | 0.150  |         |        |
| 273 | NR     | -0.14   | 0.000  |       |         |        |         |        |

Table 17. Statistical summary of reported data for standard reference water sample P-27 (low ionic strength constituents)—Continued  
SO<sub>4</sub> (Sulfate) mg/L

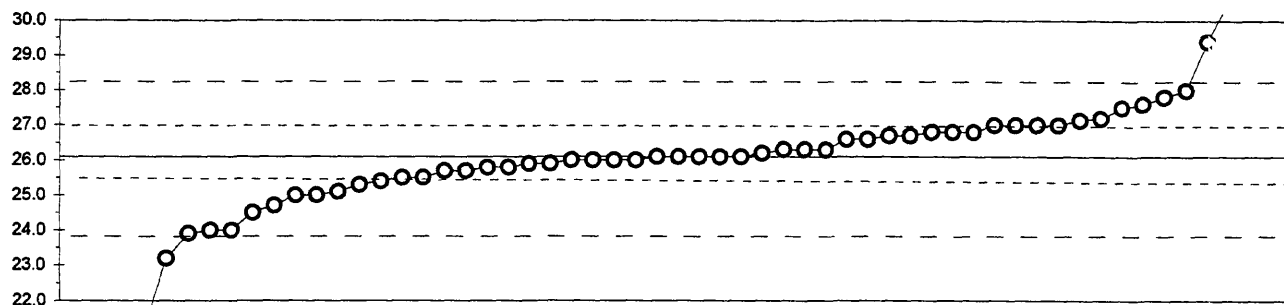


| 0. Other              |                  |         | 22. Colorimetric  |      |       |       |      |       |       |
|-----------------------|------------------|---------|-------------------|------|-------|-------|------|-------|-------|
| 4. ICP                |                  |         | 50. Gravimetric   |      |       |       |      |       |       |
| 7. Ion chromatography |                  |         | 51. Turbidimetric |      |       |       |      |       |       |
|                       | N =              |         | 2                 | 3    | 30    | 5     | 3    | 7     |       |
|                       | Minimum =        |         | 2.00              | 2.52 | 2.19  | 2.03  | 0.41 | 0.00  |       |
|                       | Maximum =        |         | 17.04             | 2.89 | 30.50 | 6.38  | 3.70 | 60.00 |       |
|                       | Median =         |         |                   |      | 2.40  |       |      | 2.00  |       |
|                       | F-pseudostigma = |         |                   |      | 0.21  |       |      | 3.04  |       |
| Lab                   | Rating           | Z-value | 0                 | 4    | 7     | 22    | 50   | 51    |       |
| 1                     | 4                | 0.04    |                   |      | 2.43  |       |      |       |       |
| 2                     | 4                | -0.27   |                   |      | 2.32  |       |      |       |       |
| 3                     | 0                | 2.66    |                   |      | 3.40  |       |      |       |       |
| 5                     | 0                | 5.27    |                   |      | 4.37  |       |      |       |       |
| 7                     | 4                | -0.04   |                   |      | 2.40  |       |      |       |       |
| 15                    | 4                | 0.23    |                   |      | 2.50  |       |      |       |       |
| 23                    | NR               |         |                   |      |       | < 2.5 |      |       |       |
| 26                    | 4                | 0.12    |                   |      | 2.46  |       |      |       |       |
| 33                    | 4                | -0.20   |                   |      | 2.34  |       |      |       |       |
| 36                    | NR               |         |                   |      |       |       |      |       | < 5   |
| 39                    | 4                | -0.31   |                   |      | 2.30  |       |      |       |       |
| 42                    | NR               |         |                   |      |       | < 2.5 |      |       |       |
| 46                    | 4                | -0.05   |                   |      | 2.40  |       |      |       |       |
| 48                    | 0                | 155.36  |                   |      |       |       |      |       | 60.00 |
| 58                    | 2                | -1.12   |                   |      |       |       | 2.00 |       |       |
| 59                    | 4                | -0.31   |                   |      | 2.30  |       |      |       |       |
| 64                    | 4                | 0.07    |                   |      | 2.44  |       |      |       |       |
| 81                    | 3                | 0.63    |                   |      |       | 2.65  |      |       |       |
| 83                    | 4                | 0.28    |                   | 2.52 |       |       |      |       |       |
| 89                    | 4                | 0.18    |                   |      | 2.48  |       |      |       |       |
| 92                    | 2                | -1.44   |                   |      |       |       |      |       | 1.88  |
| 105                   | 4                | -0.36   |                   |      | 2.28  |       |      |       |       |
| 109                   | 0                | 3.47    |                   |      |       |       | 3.70 |       |       |
| 110                   | 4                | -0.22   |                   |      | 2.34  |       |      |       |       |
| 113                   | NR               |         |                   |      | < 1   |       |      |       |       |
| 119                   | 4                | -0.09   |                   |      | 2.38  |       |      |       |       |
| 134                   | 4                | -0.19   |                   |      | 2.35  |       |      |       |       |
| 138                   | 4                | -0.28   |                   |      | 2.31  |       |      |       |       |
| 140                   | 2                | -1.12   | 2.00              |      |       |       |      |       |       |
| 141                   | 4                | 0.42    |                   | 2.57 |       |       |      |       |       |
| 145                   | 3                | -0.61   |                   |      | 2.19  |       |      |       |       |
| 146                   | NR               |         |                   |      |       |       |      |       | < 5   |
| 158                   | 0                | 75.77   |                   |      | 30.50 |       |      |       |       |
| 180                   | 4                | 0.50    |                   |      |       | 2.60  |      |       |       |
| 190                   | 2                | 1.04    |                   |      | 2.80  |       |      |       |       |
| 191                   | 4                | -0.09   |                   |      | 2.38  |       |      |       |       |
| 196                   | 4                | -0.04   |                   |      | 2.40  |       |      |       |       |
| 197                   | 4                | -0.15   |                   |      | 2.36  |       |      |       |       |
| 203                   | 2                | 1.20    |                   |      |       | 2.86  |      |       |       |
| 204                   | 2                | -1.04   |                   |      |       | 2.03  |      |       |       |
| 215                   | 1                | 2.01    |                   |      |       |       |      |       | 3.16  |
| 220                   | 0                | 17.50   |                   |      |       |       |      |       | 8.90  |
| 221                   | 0                | -5.40   |                   |      |       |       | 0.41 |       |       |
| 224                   | 3                | 0.55    |                   |      | 2.62  |       |      |       |       |
| 235                   | 2                | 1.28    |                   | 2.89 |       |       |      |       |       |
| 240                   | 3                | 0.71    |                   |      | 2.68  |       |      |       |       |
| 241                   | 2                | -1.12   |                   |      |       |       |      |       | 2.00  |
| 247                   | 2                | 1.04    |                   |      | 2.80  |       |      |       |       |
| 256                   | 0                | 39.46   | 17.04             |      |       |       |      |       |       |
| 257                   | 2                | 1.50    |                   |      | 2.97  |       |      |       |       |

MPV = 2.42  
F-pseudostigma = 0.37  
N = 50  
Hu = 2.80  
HI = 2.30

| Lab | Rating | Z-value | 0     | 4 | 7    | 22   | 50 | 51   |
|-----|--------|---------|-------|---|------|------|----|------|
| 258 | 2      | -1.15   |       |   |      |      |    | 1.99 |
| 261 | 0      | -5.18   | < 0.5 |   |      |      |    |      |
| 262 | 0      | 10.70   |       |   |      | 6.38 |    |      |
| 265 | 4      | -0.07   |       |   | 2.39 |      |    |      |
| 268 | 4      | -0.45   |       |   | 2.25 |      |    |      |
| 271 | 0      | -6.52   |       |   |      |      |    | 0.00 |

Table 17. Statistical summary of reported data for standard reference water sample P-27 (low ionic strength constituents)—Continued  
Sp Cond (Specific Conductance)  $\mu\text{S}/\text{cm}$



|                    |  |                 |      |       |
|--------------------|--|-----------------|------|-------|
| 0. Other           |  |                 |      |       |
| 41. Direct reading |  |                 |      |       |
|                    |  | N =             | 1    | 56    |
|                    |  | Minimum =       | 50.7 | 20.0  |
|                    |  | Maximum =       |      | 263.0 |
|                    |  | Median =        |      | 26.1  |
|                    |  | F-pseudosigma = |      | 1.07  |

| Lab | Rating | Z-value | 0 | 41    |
|-----|--------|---------|---|-------|
| 1   | 3      | 0.63    |   | 26.8  |
| 2   | 0      | -4.33   |   | 21.3  |
| 3   | 4      | 0.45    |   | 26.6  |
| 5   | 4      | 0.18    |   | 26.3  |
| 7   | 3      | -0.72   |   | 25.3  |
| 15  | 4      | 0.00    |   | 26.1  |
| 23  | 3      | 0.81    |   | 27.0  |
| 25  | 3      | 0.81    |   | 27.0  |
| 26  | 3      | 0.99    |   | 27.2  |
| 33  | 4      | -0.27   |   | 25.8  |
| 36  | 1      | -1.98   |   | 23.9  |
| 38  | 4      | 0.00    |   | 26.1  |
| 39  | 2      | 1.26    |   | 27.5  |
| 48  | 2      | -1.44   |   | 24.5  |
| 58  | 4      | 0.00    |   | 26.1  |
| 59  | 3      | -0.63   |   | 25.4  |
| 64  | 3      | -0.54   |   | 25.5  |
| 81  | 4      | 0.18    |   | 26.3  |
| 89  | 4      | -0.27   |   | 25.8  |
| 105 | 3      | 0.81    |   | 27.0  |
| 107 | 4      | -0.09   |   | 26.0  |
| 109 | 3      | 0.81    |   | 27.0  |
| 113 | 4      | -0.09   |   | 26.0  |
| 119 | 4      | -0.09   |   | 26.0  |
| 132 | 0      | -5.04   |   | 20.5  |
| 134 | 4      | 0.45    |   | 26.6  |
| 138 | 3      | 0.54    |   | 26.7  |
| 140 | 0      | 5.76    |   | 32.5  |
| 141 | 3      | 0.63    |   | 26.8  |
| 143 | 4      | -0.18   |   | 25.9  |
| 145 | 1      | 1.71    |   | 28.0  |
| 146 | 0      | 4.05    |   | 30.6  |
| 155 | 1      | 1.53    |   | 27.8  |
| 158 | 4      | 0.00    |   | 26.1  |
| 180 | 4      | -0.09   |   | 26.0  |
| 183 | 0      | -2.61   |   | 23.2  |
| 190 | 2      | 1.35    |   | 27.6  |
| 193 | 3      | 0.63    |   | 26.8  |
| 203 | 0      | 213.05  |   | 263.0 |
| 204 | 4      | 0.18    |   | 26.3  |
| 215 | 3      | 0.54    |   | 26.7  |
| 224 | 3      | -0.99   |   | 25.0  |
| 240 | 2      | -1.26   |   | 24.7  |
| 241 | 0      | -5.53   |   | 20.0  |
| 243 | 4      | -0.36   |   | 25.7  |
| 244 | 4      | -0.18   |   | 25.9  |
| 247 | 3      | 0.94    |   | 27.1  |
| 255 | 4      | 0.09    |   | 26.2  |
| 257 | 3      | -0.54   |   | 25.5  |
| 258 | 0      | 2.97    |   | 29.4  |

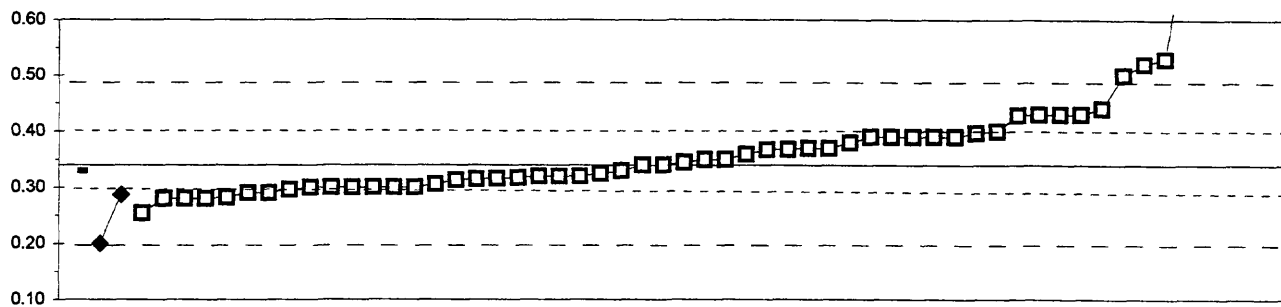
MPV = 26.1  
F-pseudosigma = 1.1  
N = 57  
Hu = 27.0  
HI = 25.5

| Lab | Rating | Z-value | 0    | 41   |
|-----|--------|---------|------|------|
| 261 | 4      | 0.00    |      | 26.1 |
| 262 | 1      | -1.89   |      | 24.0 |
| 268 | 1      | -1.89   |      | 24.0 |
| 271 | 4      | -0.36   |      | 25.7 |
| 272 | 3      | -0.99   |      | 25.0 |
| 273 | 0      | 22.12   | 50.7 |      |
| 276 | 3      | -0.90   |      | 25.1 |

Table 18. *Statistical summary of reported data for standard reference water sample Hg-23 (mercury)*

| Definition of analytical methods, abbreviations, and symbols |         |  |
|--|---------|--|
| <u>Analytical methods</u>                                    |         |  |
| 0 Other/Not reported   |         |  |
| 6 ICP/MS   | =       | mass spectrometry/inductively coupled plasma |
| 8 AA: cold vapor   | =       | atomic absorption: cold vapor                |
| <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                            |
| µg/L   | =       | micrograms per liter                         |
| Lab  | =       | laboratory code number                       |
| NR   | =       | not rated, less than value reported          |
| <  | =       | less than                                    |
| <u>Constituent</u>   |         |  |
| Hg   | Mercury | <u>page</u>                                  |
|  |         | 144  |

Table 18. Statistical summary of reported data for standard reference water sample Hg-23 (mercury)--Continued  
Hg (Mercury)  $\mu\text{g/L}$



|                   |                 |      |      |      |
|-------------------|-----------------|------|------|------|
| 0. Other          |                 |      |      |      |
| 6. ICP/MS         |                 |      |      |      |
| 8. AA: cold vapor |                 |      |      |      |
|                   | N =             | 1    | 2    | 55   |
|                   | Minimum =       | 0.33 | 0.20 | 0.25 |
|                   | Maximum =       |      | 0.29 | 4.40 |
|                   | Median =        |      |      | 0.35 |
|                   | F-pseudosigma = |      |      | 0.07 |

MPV = 0.34  
F-pseudosigma = 0.07  
N = 58  
Hu = 0.40  
HI = 0.30

| Lab | Rating | Z-value | 0    | 6    | 8      |
|-----|--------|---------|------|------|--------|
| 1   | 3      | -0.59   |      |      | 0.30   |
| 3   | 0      | 56.43   |      |      | 4.40   |
| 7   | 4      | -0.03   |      |      | 0.34   |
| 10  | 4      | -0.24   |      |      | 0.33   |
| 11  | 3      | -0.87   |      |      | 0.28   |
| 13  | NR     |         |      |      | < 0.4  |
| 15  | 3      | -0.73   |      |      | 0.29   |
| 16  | 4      | 0.10    |      |      | 0.35   |
| 18  | 3      | 0.52    |      |      | 0.38   |
| 26  | 4      | 0.38    |      |      | 0.37   |
| 28  | 0      | 28.61   |      |      | 2.40   |
| 32  | 3      | -0.73   |      |      | 0.29   |
| 34  | 4      | -0.37   |      |      | 0.32   |
| 36  | 3      | -0.59   |      |      | 0.30   |
| 39  | 3      | -0.59   |      |      | 0.30   |
| 42  | 4      | -0.31   |      |      | 0.32   |
| 46  | 4      | -0.41   |      |      | 0.31   |
| 48  | 4      | 0.38    |      |      | 0.37   |
| 50  | 0      | 2.47    |      |      | 0.52   |
| 51  | 3      | 0.66    |      |      | 0.39   |
| 55  | 3      | -0.65   |      |      | 0.30   |
| 58  | NR     |         |      |      | < 0.5  |
| 59  | 4      | -0.31   |      |      | 0.32   |
| 68  | 2      | -1.23   |      |      | 0.25   |
| 69  | 4      | -0.17   |      |      | 0.33   |
| 70  | 3      | 0.76    |      |      | 0.40   |
| 76  | 3      | -0.77   |      | 0.29 |        |
| 81  | 3      | -0.59   |      |      | 0.30   |
| 86  | 3      | -0.51   |      |      | 0.31   |
| 87  | 0      | 2.19    |      |      | 0.50   |
| 89  | 3      | 0.66    |      |      | 0.39   |
| 96  | 4      | 0.35    |      |      | 0.37   |
| 97  | NR     |         |      |      | < 0.42 |
| 105 | 4      | 0.34    |      |      | 0.37   |
| 108 | 0      | 2.61    |      |      | 0.53   |
| 113 | 3      | 0.66    |      |      | 0.39   |
| 119 | 3      | 0.66    |      |      | 0.39   |
| 127 | 4      | -0.38   |      |      | 0.32   |
| 133 | 4      | -0.17   | 0.33 |      |        |
| 134 | 3      | -0.87   |      |      | 0.28   |
| 138 | 4      | -0.31   |      |      | 0.32   |
| 141 | 2      | 1.19    |      |      | 0.43   |
| 142 | 2      | 1.36    |      |      | 0.44   |
| 144 | 4      | 0.03    |      |      | 0.35   |
| 145 | 2      | 1.22    |      |      | 0.43   |
| 146 | 4      | 0.23    |      |      | 0.36   |
| 149 | 4      | 0.10    |      |      | 0.35   |
| 193 | 2      | 1.22    |      |      | 0.43   |
| 212 | 3      | -0.87   |      |      | 0.28   |
| 213 | 0      | 5.67    |      |      | 0.75   |

| Lab | Rating | Z-value | 0 | 6    | 8    |
|-----|--------|---------|---|------|------|
| 215 | 0      | 8.03    |   |      | 0.92 |
| 219 | 3      | -0.59   |   |      | 0.30 |
| 221 | 3      | -0.59   |   |      | 0.30 |
| 234 | 4      | -0.03   |   |      | 0.34 |
| 235 | 2      | 1.22    |   |      | 0.43 |
| 241 | 3      | 0.66    |   |      | 0.39 |
| 245 | 3      | -0.84   |   |      | 0.28 |
| 255 | 4      | -0.35   |   |      | 0.32 |
| 257 | 0      | 9.14    |   |      | 1.00 |
| 259 | 3      | 0.80    |   |      | 0.40 |
| 265 | 1      | -1.98   |   | 0.20 |      |

Table 19. *Most probable values for constituents and properties in standard reference samples distributed in September 1996*

[MPV, most probable value; µg/L, microgram per liter; mg/L, milligram per liter; µS/cm, microsiemen per centimeter at 25 degrees Celsius]

**T-143 (trace constituents)**

| Analyte | MPV       | F-pseudosigma | N  | Analyte          | MPV       | F-pseudosigma | N  |
|---------|-----------|---------------|----|------------------|-----------|---------------|----|
| Ag      | 19.8 µg/L | 1.4           | 65 | Mg               | 10.4 mg/L | 0.5           | 88 |
| Al      | 22.1 µg/L | 8.3           | 50 | Mn               | 18.2 µg/L | 1.9           | 86 |
| As      | 15.2 µg/L | 1.2           | 66 | Mo               | 36.1 µg/L | 4.3           | 54 |
| B       | 35.0 µg/L | 5.2           | 35 | Na               | 34.0 mg/L | 1.6           | 88 |
| Ba      | 81.9 µg/L | 4.5           | 68 | Ni               | 71.0 µg/L | 5.0           | 81 |
| Be      | 8.50 µg/L | 0.66          | 61 | Pb               | 83.4 µg/L | 7.1           | 84 |
| Ca      | 53.7 mg/L | 2.2           | 86 | Sb               | 16.6 µg/L | 1.5           | 46 |
| Cd      | 19.1 µg/L | 1.5           | 81 | Se               | 9.63 µg/L | 1.64          | 60 |
| Co      | 17.0 µg/L | 1.2           | 53 | SiO <sub>2</sub> | 23.4 mg/L | 1.7           | 56 |
| Cr      | 37.0 µg/L | 2.6           | 79 | Sr               | 306 µg/L  | 15            | 45 |
| Cu      | 22.3 µg/L | 1.9           | 90 | Ti               | 10.0 µg/L | 1.0           | 33 |
| Fe      | 222 µg/L  | 14            | 93 | U                | 12.0 µg/L | 0.9           | 9  |
| K       | 2.50 mg/L | 0.21          | 84 | V                | 30.0 µg/L | 3.0           | 54 |
| Li      | 18.0 µg/L | 2.1           | 34 | Zn               | 20.0 µg/L | 2.2           | 75 |

**T-145 (trace constituents)**

| Analyte | MPV       | F-pseudosigma | N  | Analyte          | MPV       | F-pseudosigma | N  |
|---------|-----------|---------------|----|------------------|-----------|---------------|----|
| Ag      | 7.55 µg/L | 0.92          | 61 | Mg               | 8.68 mg/L | 0.45          | 85 |
| Al      | 67.6 µg/L | 11.0          | 64 | Mn               | 20.9 µg/L | 1.5           | 85 |
| As      | 9.88 µg/L | 1.04          | 66 | Mo               | 9.23 µg/L | 1.29          | 43 |
| B       | 45.6 µg/L | 5.8           | 36 | Na               | 41.2 mg/L | 1.9           | 84 |
| Ba      | 37.1 µg/L | 1.9           | 63 | Ni               | 11.0 µg/L | 1.3           | 66 |
| Be      | 9.04 µg/L | 0.70          | 62 | Pb               | 12.7 µg/L | 1.2           | 80 |
| Ca      | 30.7 mg/L | 1.3           | 84 | Sb               | 8.80 µg/L | 0.96          | 39 |
| Cd      | 9.33 µg/L | 0.82          | 80 | Se               | 10.1 µg/L | 1.3           | 60 |
| Co      | 10.0 µg/L | 0.9           | 53 | SiO <sub>2</sub> | 11.3 mg/L | 0.7           | 53 |
| Cr      | 15.3 µg/L | 1.4           | 78 | Sr               | 203 µg/L  | 9             | 44 |
| Cu      | 11.0 µg/L | 1.4           | 84 | Ti               | 15.3 µg/L | 2.7           | 37 |
| Fe      | 101 µg/L  | 8             | 89 | U                | 1.10 µg/L | 0.10          | 9  |
| K       | 2.13 mg/L | 0.16          | 83 | V                | 11.7 µg/L | 1.7           | 46 |
| Li      | 27.3 µg/L | 2.5           | 36 | Zn               | 10.0 µg/L | 2.4           | 70 |

**M-140 (major constituents)**

| Analyte    | MPV        | F-pseudosigma | N   | Analyte          | MPV        | F-pseudosigma | N   |
|------------|------------|---------------|-----|------------------|------------|---------------|-----|
| Alkalinity | 114 mg/L   | 3             | 103 | Na               | 39.0 mg/L  | 1.9           | 92  |
| B          | 41.6 mg/L  | 5.2           | 40  | total P          | 0.032 mg/L | 0.011         | 57  |
| Ca         | 60.7 mg/L  | 3.1           | 96  | pH               | 8.28 units | 0.17          | 108 |
| Cl         | 25.8 mg/L  | 1.4           | 104 | SiO <sub>2</sub> | 7.35 mg/L  | 0.46          | 66  |
| DSRD       | 382 mg/L   | 16            | 67  | SO <sub>4</sub>  | 150 mg/L   | 7             | 98  |
| F          | 0.530 mg/L | 0.037         | 71  | Sp Cond          | 600 µS/cm  | 19            | 100 |
| K          | 2.58 mg/L  | 0.14          | 87  | Sr               | 671 µg/L   | 31            | 43  |
| Mg         | 18.0 mg/L  | 1.0           | 96  | V                | 3.42 µg/L  | 3.01          | 19  |

**N-51 (nutrients)**

| Analyte                               | MPV       | F-pseudosigma | N  |
|---------------------------------------|-----------|---------------|----|
| NH <sub>3</sub> as N                  | 0.07 mg/L | 0.05          | 59 |
| NH <sub>3</sub> +OrgN as N            | 0.29 mg/L | 0.10          | 51 |
| NO <sub>3</sub> +NO <sub>2</sub> as N | 0.01 mg/L | 0.04          | 28 |
| Total P as P                          | 0.04 mg/L | 0.01          | 61 |
| PO <sub>4</sub> as P                  | 0.02 mg/L | 0.01          | 52 |

**N-52 (nutrients)**

| Analyte                               | MPV       | F-pseudosigma | N  |
|---------------------------------------|-----------|---------------|----|
| NH <sub>3</sub> as N                  | 1.33 mg/L | 0.09          | 84 |
| NH <sub>3</sub> +OrgN as N            | 2.37 mg/L | 0.22          | 58 |
| NO <sub>3</sub> +NO <sub>2</sub> as N | 1.72 mg/L | 0.10          | 86 |
| total P as P                          | 1.60 mg/L | 0.06          | 76 |
| PO <sub>4</sub> as P                  | 1.16 mg/L | 0.06          | 81 |

**P-27 (low ionic strength constituents)**

| Analyte | MPV        | F-pseudosigma | N  | Analyte              | MPV        | F-pseudosigma | N  |
|---------|------------|---------------|----|----------------------|------------|---------------|----|
| Acidity | 4.74 mg/L  | 3.19          | 22 | Na                   | 1.34 mg/L  | 0.10          | 55 |
| Ca      | 2.53 mg/L  | 0.24          | 59 | pH                   | 6.92 units | 0.32          | 62 |
| Cl      | 1.20 mg/L  | 0.49          | 57 | PO <sub>4</sub> as P | 0.002 mg/L | 0.014         | 20 |
| F       | 0.100 mg/L | 0.033         | 31 | SO <sub>4</sub>      | 2.42 mg/L  | 0.37          | 50 |
| K       | 0.336 mg/L | 0.038         | 45 | Sp Cond              | 26.1 µS/cm | 1.1           | 57 |
| Mg      | 0.461 mg/L | 0.050         | 54 |                      |            |               |    |

**Hg-23 (mercury)**

| Analyte | MPV       | F-pseudosigma | N  |
|---------|-----------|---------------|----|
| Hg      | 0.34 µg/L | 0.07          | 58 |