

REPORT OF
ANALYTICAL EVALUATION PROGRAM
STANDARD REFERENCE WATER SAMPLES NOS. 76, 77, and NUTRIENT NO. 5, and
WATER-SUSPENDED SEDIMENT MIXTURE NO. 1

June 1981

PURPOSE AND PLAN

As a means of providing an independent and objective evaluation of the water-quality data published by the U.S. Geological Survey and other cooperating laboratories, standard reference water samples are prepared and distributed at regular intervals. This report summarizes the analytical results submitted by 76 laboratories for Standard Reference Water Samples Nos. 76, 77, Nutrient No. 5 and Water-Suspended Sediment Mixture No. 1 distributed on April 24, 1981.

"Instructions for Analysis and Reporting Results," that accompanied standard reference water samples at the time of their distribution, did not specify any particular order for performing the determinations. Furthermore, each participating laboratory was asked to perform only those determinations that it routinely makes in the course of its normal operations and no restrictions were placed on the choice of methods to be used. This program serves primarily as a quality-control tool to alert participating laboratories to deficiencies in their analytical operations. Laboratories are identified in this report only by a preassigned code number.

PREPARATION OF SAMPLES

Approximately 300 gallons of Sample No. 76 and 77 were collected. Sample No. 77 was acidified to a pH of about 1.5 with nitric acid and then the trace elements were added. Thymol was added to both samples and each sample was then filtered through a 0.45- μ m membrane filter into a large polyethylene drum. Each sample was mixed overnight with a motor-driven stirrer, pumped through an ultraviolet (2537A) sterilizer and packaged in sterile teflon bottles under ultraviolet radiation.

Approximately 55 gallons of Sample No. 5 (Nutrients) were collected and filtered through a 0.45- μ m membrane filter. Mercuric chloride (50 mg/L) and sodium chloride (225 mg/L) were added. The sample was mixed overnight with a motor-driven stirrer, packaged without sterilization and stored at 4°C. The samples were packed in ice prior to distribution.

Approximately 55 gallons of Sample No. 1 (Water-Suspended Sediment Mixture) were collected. A clay suspension of less than 4 microns was added to the sample (approximately 110 mg of suspended material per liter). Trace elements were then added, and the sample mixed overnight with a motor-driven stirrer and packaged.

DETERMINATIONS - NO. 76 (results in mg/L¹)

Silica (SiO ₂)	Nitrite (NO ₂ -N)
Calcium (Ca)	Nitrate (NO ₃ -N)
Magnesium (Mg)	Phosphorus, total (P)
Sodium (Na)	Dissolved Solids (residue)
Potassium (K)	Specific Conductance
Alkalinity (as CaCO ₃)	pH
Sulfate (SO ₄)	Boron (B)
Chloride (Cl)	Strontium (Sr)
Fluoride (F)	Vanadium (V)

¹Except specific conductance (micromhos at 25°C), pH, and boron and strontium (μ g/L).

DETERMINATIONS - No. 77 (results in μ g/L)

Aluminum (Al)	Cadmium (Cd)	Molybdenum (Mo)
Iron (Fe)	Chromium, total (Cr)	Nickel (Ni)
Manganese (Mn)	Cobalt (Co)	Selenium (Se)
Antimony (Sb)	Copper (Cu)	Silver (Ag)
Arsenic (As)	Lead (Pb)	Strontium (Sr)
Barium (Ba)	Lithium (Li)	Thallium (Tl)
Beryllium (Be)	Mercury (Hg)	Zinc (Zn)

DETERMINATIONS - No. 5 (NUTRIENTS)—results in mg/L

Organic nitrogen (N)	Nitrate (NO ₃ -N)
Nitrite (NO ₂ -N)	Orthophosphate (PO ₄ -P)
Ammonia (NH ₃ -N)	Phosphorus, total (P)

DETERMINATIONS - No. 1 (Water-Suspended Sediment Mixture) - results in μ g/L

Aluminum (Al)	Cadmium (Cd)	Mercury (Hg)
Iron (Fe)	Chromium (Cr)	Molybdenum (Mo)
Manganese (Mn)	Cobalt (Co)	Nickel (Ni)
Arsenic (As)	Copper (Cu)	Selenium (Se)
Barium (Ba)	Lead (Pb)	Silver (Ag)
Beryllium (Be)	Lithium (Li)	Zinc (Zn)

STATISTICAL EVALUATION

A statistical evaluation of the data has established the most reliable estimate of the true value for each of the various constituents determined. Reported values of "less than" were considered as "not determined" and hence do not enter into the computation of the means, standard deviations, etc. Mathematical computations are the same as those used previously for similar Standard Reference Water Samples of this type.

The mean, average deviation, percent deviation from the mean, standard deviation, and total range were calculated for each determination. Confidence limits about the mean were also calculated in order to define the concentration range within which the true value may be expected to fall with a confidence level of 95 percent. Outlying values were rejected on the basis of statistical tests as outlined in ASTM Recommended Practice for Dealing with Outlying Observations (1980 Book of ASTM Standards, Part 31, p. 16-28).

REPORTED VALUES

The following section shows the reported value for each determination by each participating laboratory, and a graphical presentation of each reported value and the frequency of its occurrence. Each reported value has been rounded off, when necessary, to conform to official USGS policy on reporting analytical data; however, the mean, average deviation, standard deviation, total range, and confidence limits about the mean are computer generated to four decimals. These values should be used to only one significant figure beyond the individual reported values. Because the histograms are computer generated and cover a narrow range with the midpoint approximating the mean, many values, including rejected values are not shown. Statistical information for any method used by three or more laboratories for each determination is also included.

PARTICIPATING LABORATORIES

U.S. Geological Survey

ARIZONA, Yuma: Werho
CALIFORNIA, Menlo Park: Barnes
CALIFORNIA, Menlo Park: Zellweger
COLORADO, Denver: Miller, 070
COLORADO, Denver: Taylor, 071
FLORIDA, Ocala: Kirkland
GEORGIA, Doraville: Erdmann, 016
GEORGIA, Doraville: Jones, 024
LOUISIANA, Baton Rouge: Stallworth

Other

ALABAMA, Montgomery: Alabama Environmental Health
ALABAMA, University: Geological Survey of Alabama, Lloyd
ALABAMA, University: Geological Survey of Alabama, Malatino
ALASKA, College: Department of Natural Resources
ARKANSAS, Little Rock: Department of Pollution Control
CALIFORNIA, Bryte: California Department of Water Resources
CALIFORNIA, Castaic: California Department of Water Resources
CALIFORNIA, Davis: University of California
CALIFORNIA, La Mesa: Alvarado Filtration Plant
CALIFORNIA, La Verne: Metropolitan Water District of So. California
CALIFORNIA, Los Angeles: Water Quality Laboratory
CALIFORNIA, Los Gatos: Rinconada Water Treatment Plant
CALIFORNIA, Sacramento: Water & Power Resources Service
COLORADO, Denver: Denver Water Department
FLORIDA, Live Oak: Suwannee River Water Management District
FLORIDA, Tallahassee: Tallahassee Water Quality Laboratory
FLORIDA, Tampa: Hillsborough County Env. Protection Commission
FLORIDA, Orlando: Orlando Utilities Commission
GEORGIA, Athens: Department of Horticulture
GEORGIA, Athens: Soil Testing & Plant Tissue Analysis Laboratory
GEORGIA, Atlanta: Environmental Protection Division
ILLINOIS, Champaign: IL-EPA, Division of Laboratory Services
ILLINOIS, Chicago: IL-EPA, Division of Laboratories
ILLINOIS, Marion: IL-EPA, Division of Laboratories
IOWA, Des Moines: University Hygienic Laboratory
KANSAS, Lawrence: Kansas Geological Survey
KANSAS, Topeka: Department of Health & Environment
MAINE, Augusta: Maine Department of Environmental Protection
MARYLAND, Annapolis: Water Resources Administration Lab Services
MINNESOTA, Minneapolis: Minnesota Department of Health
MISSOURI, Columbia: Env. Trace Substances Research Center
MISSOURI, Jefferson City: Department of Natural Resources
MONTANA, Butte: Montana Bureau of Mines & Geology

Other—continued

NEVADA, Boulder City: Southern Nevada Water System
NEVADA, Reno: Bureau of Laboratories and Research
NEVADA, Sparks: Desert Research Institute
NEW HAMPSHIRE, Concord: NH Water Supply & Pollution Control Lab
NEW JERSEY, Trenton: New Jersey Department of Health
NEW MEXICO, Albuquerque: New Mexico State Scientific Laboratory
NEW MEXICO, Gallup: BIA, Soils, Water & Materials Testing Laboratory
NEW YORK, Hauppauge: Suffolk County Health Services
NEW YORK, Hempstead: Nassau County Department of Health
NEW YORK, Oakdale: Suffolk County Water Authority
NEW YORK, Rochester: Monroe County Env. Health Laboratory
NORTH CAROLINA, Charlotte: Mecklenburg County Env. Health Dept.
NORTH DAKOTA, Bismarck: North Dakota State Water Commission
OHIO, Dayton: The Miami Conservancy District
OHIO, Medina: Medina County Sanitary Engineering
OKLAHOMA, Norman: Oklahoma Geological Survey
OREGON, Corvallis: Forestry Science Laboratory
OREGON, Sandy: City of Portland Water Quality Laboratory
PENNSYLVANIA, Harrisburg: PA Department of Environmental Resources
PENNSYLVANIA, Pittsburgh: Department of Environmental Resources
PUERTO RICO, Puerta de Tierra: Department of Natural Resources
SOUTH CAROLINA, Columbia: South Carolina Water Resources Commission
SOUTH DAKOTA, Brookings: Water Quality Laboratory
SOUTH DAKOTA, Vermillion: South Dakota Geological Survey
TENNESSEE, Chattanooga: TVA Laboratory Branch
TENNESSEE, Knoxville: Department of Civil Engineering
VIRGINIA, Manassas: Occoquan Watershed Monitoring Laboratory
VIRGINIA, Richmond: Division of Consolidated Laboratories
WASHINGTON, Olympia: Olympia Department of Ecology
WASHINGTON, Redmond: Washington State Dept. of Ecology
WASHINGTON, Seattle: Metro Water Quality
WEST VIRGINIA, Morgantown: WV Geological & Economic Survey
BRAZIL, Belo Horizonte: Companhia de Pesquisa de Recursos Minerais
BRAZIL, Belo Horizonte: Fundacao Centro Tecnologico de Minas Gerais

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SI02
5-81	1	9.7	0.9	MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
5-81	2			NOT DETERMINED
5-81	3	10	2.1	ATOMIC ABS-DIRECT
5-81	4	4.6	53.0	OTHER
5-81	5			NOT DETERMINED
5-81	6			NOT DETERMINED
6-81	7	11	12.4	EMISSION-PLASMA
6-81	8			NOT DETERMINED
5-81	9	6.9	29.5	TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
5-81	10	7.0	28.5	TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
5-81	11			NOT DETERMINED
5-81	12			NOT DETERMINED
5-81	13	11	12.4	TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
5-81	14			NOT DETERMINED
5-81	15	11	12.4	MOLYBDOSILICATE, APHA STD METH, 14ED
5-81	16	11	12.4	MOLYBDATE BLUE, AUTO, I-2700, USGS TWRI BK5 CH A1
5-81	17	10	2.1	TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
6-81	18	10	2.1	MOLYBDOSILICATE, APHA STD METH, 14ED
5-81	19	5.8	40.8	MOLYBDOSILICATE, APHA STD METH, 14ED
5-81	20	12	22.6	MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
6-81	22	12	22.6	EMISSION-PLASMA
5-81	23	10	2.1	MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
5-81	24	10	2.1	EMISSION-PLASMA
5-81	25	9.6	1.9	OTHER
5-81	27	9.5	3.0	MOLYBDOSILICATE, APHA STD METH, 14ED
5-81	29	11	12.4	EMISSION-PLASMA
4-81	30	10	2.1	TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
5-81	31	10	2.1	EMISSION-PLASMA
6-81	32			NOT DETERMINED
5-81	33	11	12.4	MOLYBDOSILICATE, APHA STD METH, 14ED
5-81	35			NOT DETERMINED
5-81	36			NOT DETERMINED
5-81	37	11	12.4	MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
6-81	38			NOT DETERMINED
5-81	39			NOT DETERMINED
6-81	40	12	22.6	EMISSION-PLASMA
5-81	42			NOT DETERMINED
6-81	43			NOT DETERMINED
6-81	44			NOT DETERMINED
6-81	45			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SI02
5-81	46	7.5	23.4	MOLYBDOSILICATE, APHA STD METH, 14ED
4-81	47	11	12.4	HETEROPOLY BLUE, APHA STD METH, 14ED
5-81	48	9.9	1.1	MOLYBDOSILICATE, APHA STD METH, 14ED
5-81	49	9.8	0.1	EMISSION-PLASMA, ICP
5-81	50	11	12.4	MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
6-81	51			NOT DETERMINED
5-81	53	10	2.1	MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
5-81	54			NOT DETERMINED
5-81	55			NOT DETERMINED
5-81	56			NOT DETERMINED
5-81	57			NOT DETERMINED
5-81	58			NOT DETERMINED
5-81	59			NOT DETERMINED
5-81	60			NOT DETERMINED
5-81	61	10	2.1	MOLYBDOSILICATE, APHA STD METH, 14ED
5-81	62			NOT DETERMINED
5-81	63			NOT DETERMINED
5-81	64	11	12.4	OTHER
5-81	65	5.7	41.8	TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
5-81	66	11	12.4	MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
5-81	67	11	12.4	MOLYBDOSILICATE, APHA STD METH, 14ED
6-81	68	11	12.4	MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
5-81	69	10	2.1	MOLYBDATE BLUE, AUTO, I-2700, USGS TWRI BK5 CH A1
5-81	70	10	2.1	EMISSION-PLASMA, ICP
5-81	71	1.6	83.7	REJECT MOLYBDATE BLUE, AUTO, I-2700, USGS TWRI BK5 CH A1
5-81	72	11	12.4	ATOMIC ABS-DIRECT
6-81	73			NOT DETERMINED
5-81	75			NOT DETERMINED
5-81	76			NOT DETERMINED
6-81	77	8.4	14.2	ATOMIC ABS-DIRECT
6-81	78			NOT DETERMINED
6-81	79	11	12.4	MOLYBDOSILICATE, APHA STD METH, 14ED
6-81	81	10	2.1	ATOMIC ABS-DIRECT, I-1702, USGS TWRI BK5 CH A1
6-81	82	5.6	42.8	ATOMIC ABS-DIRECT

TOTAL RANGE	1.6000 -	12.0000				SAMPLE 76
MEAN	9.7907	AVERAGE DEVIATION	1.2743			
STANDARD DEVIATION	1.8109	95 PCT.CONF.INTVL OF MEAN	9.7907 +0R-	0.5562		SI02

9 10.7 ± 0.7
8 11.7 ±
5 9.00 ± 2.12
8 8.95 ± 2.08

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CA
5-81	1	190	1.2	EDTA TITRIMETRIC, APHA STD METH, 14ED
5-81	2	190	1.2	EMISSION-PLASMA ICP
5-81	3	190	1.2	EDTA TITRIMETRIC, APHA STD METH, 14ED
5-81	4	190	1.2	EDTA TITRIMETRIC, APHA STD METH, 14ED
5-81	5			NOT DETERMINED
5-81	6	180	4.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
6-81	7	190	1.2	EMISSION-PLASMA ICP
6-81	8	140	25.5	ATOMIC ABS-DIRECT
5-81	9	190	1.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
5-81	10	190	1.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
5-81	11	210	11.8	ATOMIC ABS-DIRECT
5-81	12	190	1.2	ATOMIC ABS-DIRECT
5-81	13	180	4.2	ATOMIC ABS-DIRECT
5-81	14			NOT DETERMINED
5-81	15	200	6.5	EDTA TITRIMETRIC, APHA STD METH, 14ED
5-81	16	180	4.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
5-81	17	170	9.5	ATOMIC ABS-DIRECT
6-81	18	290	54.4	REJECT ATOMIC ABS-DIRECT
5-81	19	190	1.2	EDTA TITRIMETRIC, APHA STD METH, 14ED
5-81	20	190	1.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
6-81	22	190	1.2	EMISSION-PLASMA ICP
5-81	23	190	1.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
5-81	24	170	9.5	EMISSION-PLASMA ICP
5-81	25	180	4.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
5-81	27	180	4.2	ATOMIC ABS-DIRECT
5-81	29	190	1.2	ATOMIC ABS-DIRECT
4-81	30	190	1.2	EMISSION-PLASMA ICP
5-81	31	190	1.2	EMISSION-PLASMA ICP
6-81	32	230	22.4	ATOMIC ABS-DIRECT
5-81	33	210	11.3	ATOMIC ABS-DIRECT
5-81	35	140	25.5	ATOMIC ABS-DIRECT
5-81	36	210	11.8	ATOMIC ABS-DIRECT
5-81	37	190	1.2	COMPLEXOMETRIC
6-81	38			NOT DETERMINED
5-81	39	140	25.5	ATOMIC ABS-DIRECT
6-81	40	200	6.5	EMISSION-PLASMA ICP
5-81	42	180	4.2	ATOMIC ABS-DIRECT
6-81	43	100	46.8	REJECT EDTA TITRIMETRIC, APHA STD METH, 14ED
6-81	44	200	6.5	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
6-81	45	180	4.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	CA
5-81	46	190	1.2	ATOMIC ABS-DIRECT	
4-81	47	180	4.2	ATOMIC ABS-DIRECT	
5-81	48	190	1.2	ATOMIC ABS-DIRECT	
5-81	49	160	14.8	EMISSION-PLASMA ICP	
5-81	50	180	4.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1	
6-81	51			NOT DETERMINED	
5-81	53	190	1.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1	
5-81	54	150	20.1	ATOMIC ABS-DIRECT	
5-81	55			NOT DETERMINED	
5-81	56	71	62.2	REJECT OTHER	
5-81	57			NOT DETERMINED	
5-81	58	190	1.2	EDTA TITRIMETRIC, APHA STD METH, 14ED	
5-81	59	180	4.2	ATOMIC ABS-DIRECT	
5-81	60	200	6.5	ATOMIC ABS-DIRECT	
5-81	61	180	4.2	ATOMIC ABS-DIRECT	
5-81	62			NOT DETERMINED	
5-81	63	210	11.8	EDTA TITRIMETRIC, APHA STD METH, 14ED	
5-81	64	170	9.5	OTHER	
5-81	65	58	69.1	REJECT ATOMIC ABS-DIRECT	
5-81	66	180	4.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1	
5-81	67	230	22.4	EMISSION-PLASMA DC	
6-81	68	180	4.2	ATOMIC ABS-DIRECT	
5-81	69	180	4.2	ATOMIC ABS-DIRECT	
5-81	70	190	1.2	EMISSION-PLASMA ICP	
5-81	71	190	1.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1	
5-81	72	210	11.8	EDTA TITRIMETRIC, APHA STD METH, 14ED	
6-81	73	200	6.5	EDTA TITRIMETRIC, APHA STD METH, 14ED	
5-81	75	100	46.8	REJECT EDTA TITRIMETRIC, APHA STD METH, 14ED	
5-81	76			NOT DETERMINED	
6-81	77	200	6.5	ATOMIC ABS-DIRECT	
6-81	78			NOT DETERMINED	
6-81	79	250	33.1	EDTA TITRIMETRIC, APHA STD METH, 14ED	
6-81	81	210	11.8	EDTA TITRIMETRIC, APHA STD METH, 14ED	
6-81	82	160	14.8	NEUTRON ACTIVATION	

TOTAL RANGE 58.0000 - 290.0000 SAMPLE 76
MEAN 187.8333 AVERAGE DEVIATION 13.3388
STANDARD DEVIATION 19.7520 95 PCT.CONF.INTVL OF MEAN 187.8333 +OR- 5.1101 CA

12 201.7 ± 17.5
11 197.3 ± 9.0
26 183.9 ± 19.0
38 183.7 ± 32.8
37 186.8 ± 25.6

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	MG
5-81	1	120	1.1	CALCULATION FROM CA PLUS MG	
5-81	2	120	1.1	EMISSION-PLASMA ICP	
5-81	3	120	1.1	CALCULATION FROM CA PLUS MG	
5-81	4	120	1.1	CALCULATION FROM CA PLUS MG	
5-81	5			NOT DETERMINED	
5-81	6	130	9.5	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	
6-81	7	120	1.1	EMISSION-PLASMA ICP	
6-81	8			NOT DETERMINED	
5-81	9	130	9.5	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	
5-81	10	130	9.5	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	
5-81	11	100	15.7	ATOMIC ABS-DIRECT	
5-81	12	240	102.2	REJECT ATOMIC ABS-DIRECT	
5-81	13	120	1.1	ATOMIC ABS-DIRECT	
5-81	14			NOT DETERMINED	
5-81	15	110	7.3	CALCULATION FROM CA PLUS MG	
5-81	16	110	7.3	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	
5-81	17	120	1.1	ATOMIC ABS-DIRECT	
6-81	18	110	7.3	ATOMIC ABS-DIRECT	
5-81	19	120	1.1	ATOMIC ABS-DIRECT	
5-81	20	120	1.1	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	
6-81	22	120	1.1	EMISSION-PLASMA ICP	
5-81	23	120	1.1	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	
5-81	24	110	7.3	EMISSION-PLASMA ICP	
5-81	25	120	1.1	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	
5-81	27	150	26.4	ATOMIC ABS-DIRECT	
5-81	29	120	1.1	ATOMIC ABS-DIRECT	
4-81	30	130	9.5	EMISSION-PLASMA ICP	
5-81	31	120	1.1	EMISSION-PLASMA ICP	
6-81	32	120	1.1	ATOMIC ABS-DIRECT	
5-81	33	120	1.1	ATOMIC ABS-DIRECT	
5-81	35	120	1.1	ATOMIC ABS-DIRECT	
5-81	36	120	1.1	ATOMIC ABS-DIRECT	
5-81	37	120	1.1	CALCULATION FROM CA PLUS MG	
6-81	38			NOT DETERMINED	
5-81	39	120	1.1	ATOMIC ABS-DIRECT	
6-81	40	120	1.1	EMISSION-PLASMA ICP	
5-81	42	120	1.1	ATOMIC ABS-DIRECT	
6-81	43	12	89.9	REJECT TITRIMETRIC-EDTA. ASTM METHOD B, D1126	
6-81	44	140	18.0	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	
6-81	45	120	1.1	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NA
5-81	1	160	2.4	ATOMIC ABS-DIRECT
5-81	2	160	2.4	EMISSION-PLASMA ICP
5-81	3	160	2.4	ATOMIC ABS-DIRECT
5-81	4	160	2.4	EMISSION-FLAME
5-81	5			NOT DETERMINED
5-81	6	150	4.0	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
6-81	7	160	2.4	EMISSION-PLASMA ICP
6-81	8			NOT DETERMINED
5-81	9	160	2.4	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
5-81	10	160	2.4	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
5-81	11	170	8.8	ATOMIC ABS-DIRECT
5-81	12	140	10.4	ATOMIC ABS-DIRECT
5-81	13	160	2.4	ATOMIC ABS-DIRECT
5-81	14			NOT DETERMINED
5-81	15	110	29.6	REJECT EMISSION-FLAME
5-81	16	160	2.4	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
5-81	17	200	28.0	REJECT ATOMIC ABS-DIRECT
6-81	18	140	10.4	ATOMIC ABS-DIRECT
5-81	19	150	4.0	EMISSION-FLAME
5-81	20			NOT DETERMINED
6-81	22	160	2.4	EMISSION-PLASMA ICP
5-81	23	160	2.4	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
5-81	24	150	4.0	EMISSION-PLASMA ICP
5-81	25			NOT DETERMINED
5-81	27	170	8.8	EMISSION-FLAME
5-81	29	150	4.0	EMISSION-PLASMA ICP
4-81	30	160	2.4	EMISSION-PLASMA ICP
5-81	31	130	16.8	EMISSION-PLASMA ICP
6-81	32	160	2.4	ATOMIC ABS-DIRECT
5-81	33	160	2.4	ATOMIC ABS-DIRECT
5-81	35	150	4.0	ATOMIC ABS-DIRECT
5-81	36	160	2.4	ATOMIC ABS-DIRECT
5-81	37	160	2.4	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
6-81	38	160	2.4	ATOMIC ABS-DIRECT
5-81	39	160	2.4	ATOMIC ABS-DIRECT
6-81	40	160	2.4	EMISSION-PLASMA ICP
5-81	42	150	4.0	ATOMIC ABS-DIRECT
6-81	43			NOT DETERMINED
6-81	44	190	21.6	REJECT EMISSION-FLAME
6-81	45	160	2.4	ATOMIC ABS-DIRECT

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	NA
5-81	46	170	8.8	ATOMIC ABS-DIRECT	
4-81	47	150	4.0	ATOMIC ABS-DIRECT	
5-81	48	160	2.4	ATOMIC ABS-DIRECT	
5-81	49	64	59.0	REJECT	EMISSION-PLASMA ICP
5-81	50	160	2.4	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1	
6-81	51	140	10.4	EMISSION-FLAME	
5-81	53	160	2.4	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1	
5-81	54	160	2.4	EMISSION-FLAME	
5-81	55	130	16.8	ATOMIC ABS-DIRECT	
5-81	56	130	16.8	OTHER	
5-81	57			NOT DETERMINED	
5-81	58	160	2.4	EMISSION-FLAME	
5-81	59	160	2.4	ATOMIC ABS-DIRECT	
5-81	60	160	2.4	ATOMIC ABS-DIRECT	
5-81	61	160	2.4	ATOMIC ABS-DIRECT	
5-81	62			NOT DETERMINED	
5-81	63	150	4.0	ATOMIC ABS-DIRECT	
5-81	64	170	8.8	OTHER	
5-81	65	110	29.6	REJECT	EMISSION-FLAME
5-81	66	160	2.4	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1	
5-81	67	180	15.2	EMISSION-PLASMA DC	
6-81	68	160	2.4	ATOMIC ABS-DIRECT	
5-81	69	150	4.0	ATOMIC ABS-DIRECT	
5-81	70	160	2.4	EMISSION-PLASMA ICP	
5-81	71	160	2.4	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1	
5-81	72	150	4.0	ATOMIC ABS-DIRECT	
6-81	73	160	2.4	EMISSION-FLAME	
5-81	75	160	2.4	EMISSION-FLAME	
5-81	76			NOT DETERMINED	
6-81	77	160	2.4	ATOMIC ABS-DIRECT	
6-81	78			NOT DETERMINED	
6-81	79	150	4.0	EMISSION-FLAME	
6-81	81	140	10.4	EMISSION-FLAME	
6-81	82	160	2.4	EMISSION-FLAME	

TOTAL RANGE 64.0000 - 200.0000
MEAN 156.2712 AVERAGE DEVIATION 7.2163 SAMPLE 76
STANDARD DEVIATION 9.6308 95 PCT.CONF.INTVL OF MEAN 156.2712 +OR- 2.5127 NA

36 156.7 ± 7.9

14 151.4 ± 21.4

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR K
5-81	1	8.2	19.9	ATOMIC ABS-DIRECT
5-81	2	9.7	5.2	EMISSION-PLASMA ICP
5-81	3	10	2.3	ATOMIC ABS-DIRECT
5-81	4	10	2.3	EMISSION-FLAME
5-81	5			NOT DETERMINED
5-81	6	13	27.1	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1
6-81	7	9.6	6.2	EMISSION-PLASMA ICP
6-81	8	10	2.3	ATOMIC ABS-DIRECT
5-81	9	10	2.3	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1
5-81	10	10	2.3	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1
5-81	11	13	27.1	EMISSION-FLAME
5-81	12	10	2.3	ATOMIC ABS-DIRECT
5-81	13	9.6	6.2	ATOMIC ABS-DIRECT
5-81	14			NOT DETERMINED
5-81	15	26	154.1	REJECT ATOMIC ABS-DIRECT
5-81	16	10	2.3	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1
5-81	17	10	2.3	ATOMIC ABS-DIRECT
6-81	18	9.5	7.1	ATOMIC ABS-DIRECT
5-81	19	11	7.5	EMISSION-FLAME
5-81	20			NOT DETERMINED
6-81	22	9.3	9.1	EMISSION-PLASMA ICP
5-81	23	9.5	7.1	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1
5-81	24			NOT DETERMINED
5-81	25			NOT DETERMINED
5-81	27	12	17.3	EMISSION-FLAME
5-81	29	10	2.3	EMISSION-PLASMA ICP
4-81	30	11	7.5	EMISSION-PLASMA ICP
5-81	31	11	7.5	ATOMIC ABS-DIRECT
6-81	32	9.3	9.1	ATOMIC ABS-DIRECT
5-81	33	9.1	11.1	ATOMIC ABS-DIRECT
5-81	35	9.5	7.1	ATOMIC ABS-DIRECT
5-81	36	9.5	7.1	ATOMIC ABS-DIRECT
5-81	37	11	7.5	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1
6-81	38			NOT DETERMINED
5-81	39	10	2.3	ATOMIC ABS-DIRECT
6-81	40	9.4	8.1	EMISSION-PLASMA ICP
5-81	42	10	2.3	ATOMIC ABS-DIRECT
6-81	43			NOT DETERMINED
6-81	44	15	46.6	REJECT EMISSION-FLAME
6-81	45	12	17.3	ATOMIC ABS-DIRECT

DATE MO-YR	COUE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	K
5-81	46	10	2.3	ATOMIC ABS-DIRECT	
4-81	47	9.8	4.2	ATOMIC ABS-DIRECT	
5-81	48	9.5	7.1	ATOMIC ABS-DIRECT	
5-81	49	10	2.3	EMISSION-PLASMA ICP	
5-81	50	9.7	5.2	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	
6-81	51			NOT DETERMINED	
5-81	53	9.8	4.2	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	
5-81	54	14	36.8	EMISSION-FLAME	
5-81	55	14	36.8	EMISSION-FLAME	
5-81	56	130	*****	REJECT OTHER	
5-81	57			NOT DETERMINED	
5-81	58	12	17.3	EMISSION-FLAME	
5-81	59	9.2	10.1	ATOMIC ABS-DIRECT	
5-81	60	12	17.3	ATOMIC ABS-DIRECT	
5-81	61			NOT DETERMINED	
5-81	62			NOT DETERMINED	
5-81	63	10	2.3	ATOMIC ABS-DIRECT	
5-81	64	9.6	6.2	OTHER	
5-81	65	10	2.3	EMISSION-FLAME	
5-81	66	10	2.3	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	
5-81	67	9.6	6.2	EMISSION-PLASMA DC	
6-81	68	8.6	15.9	ATOMIC ABS-DIRECT	
5-81	69	9.2	10.1	ATOMIC ABS-DIRECT	
5-81	70			NOT DETERMINED	
5-81	71	9.2	10.1	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	
5-81	72	9.4	8.1	ATOMIC ABS-DIRECT	
6-81	73	10	2.3	EMISSION-FLAME	
5-81	75	11	7.5	ATOMIC ABS-DIRECT	
5-81	76			NOT DETERMINED	
6-81	77	9.4	8.1	ATOMIC ABS-DIRECT	
6-81	78			NOT DETERMINED	
6-81	79	9.4	8.1	EMISSION-FLAME	
6-81	81	12	17.3	EMISSION-FLAME	
6-81	82	9.6	6.2	EMISSION-FLAME	

TOTAL RANGE	8.2000	-	130.0000			SAMPLE 76
MEAN	10.2315		AVERAGE DEVIATION	0.9038		
STANDARD DEVIATION	1.2291		95 PCT.CONF.INTVL OF MEAN	10.2315 +0R-	0.3263	K

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR ALK.
5-81	1	370	21.8	REJECT ELECTROMETRIC TITRATION, AUTO, I-2030, USGS TWRI BK 5 CH A1
5-81	2			NOT DETERMINED
5-81	3	308	1.4	INDICATOR, APHA STD METH, 14ED
5-81	4	306	0.7	AUTOMATED ELECTROMETRIC TITRATION
5-81	5			NOT DETERMINED
5-81	6	271	10.8	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
6-81	7	307	1.1	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
6-81	8			NOT DETERMINED
5-81	9	304	0.1	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
5-81	10	303	0.2	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
5-81	11			NOT DETERMINED
5-81	12			NOT DETERMINED
5-81	13	330	8.6	INDICATOR, APHA STD METH, 14ED
5-81	14	302	0.6	POTENTIOMETRIC, APHA STD METH, 14ED
5-81	15	289	4.9	INDICATOR, APHA STD METH, 14ED
5-81	16	310	2.1	ELECTROMETRIC TITRATION, AUTO, I-2030, USGS TWRI BK 5 CH A1
5-81	17	300	1.2	POTENTIOMETRIC, APHA STD METH, 14ED
6-81	18	297	2.2	POTENTIOMETRIC, APHA STD METH, 14ED
5-81	19	296	2.6	POTENTIOMETRIC, APHA STD METH, 14ED
5-81	20			NOT DETERMINED
6-81	22	300	1.2	INDICATOR, APHA STD METH, 14ED
5-81	23			NOT DETERMINED
5-81	24			NOT DETERMINED
5-81	25	293	3.5	TECHNICON AUTOANALYZER, METHYL ORANGE
5-81	27	292	3.9	AUTOMATED ELECTROMETRIC TITRATION
5-81	29			NOT DETERMINED
4-81	30	293	3.5	TECHNICON AUTOANALYZER, METHYL ORANGE
5-81	31	300	1.2	POTENTIOMETRIC, APHA STD METH, 14ED
6-81	32	308	1.4	POTENTIOMETRIC, APHA STD METH, 14ED
5-81	33	315	3.7	POTENTIOMETRIC, APHA STD METH, 14ED
5-81	35	308	1.4	POTENTIOMETRIC, APHA STD METH, 14ED
5-81	36	307	1.1	POTENTIOMETRIC, APHA STD METH, 14ED
5-81	37	305	0.4	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
6-81	38	300	1.2	POTENTIOMETRIC, APHA STD METH, 14ED
5-81	39	302	0.6	POTENTIOMETRIC, APHA STD METH, 14ED
6-81	40	297	2.2	AUTOMATED ELECTROMETRIC TITRATION
5-81	42	306	0.7	INDICATOR, APHA STD METH, 14ED
6-81	43	316	4.0	INDICATOR, APHA STD METH, 14ED
6-81	44			NOT DETERMINED
6-81	45	305	0.4	POTENTIOMETRIC, APHA STD METH, 14ED

370
 310
 292
 306
 304
 302
 306
 298
 307
 310
 297

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR ALK.
5-81	46	308	1.4	POTENTIOMETRIC, APHA STD METH, 14ED
4-81	47	308	1.4	POTENTIOMETRIC, APHA STD METH, 14ED
5-81	48	302	0.6	INDICATOR, APHA STD METH, 14ED
5-81	49			NOT DETERMINED
5-81	50	177	41.7	REJECT ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
6-81	51			NOT DETERMINED
5-81	53	304	0.1	ELECTROMETRIC TITRATION, AUTO, I-2030, USGS TWRI BK 5 CH A1
5-81	54	312	2.7	POTENTIOMETRIC, APHA STD METH, 14ED
5-81	55	320	5.3	POTENTIOMETRIC, APHA STD METH, 14ED
5-81	56			NOT DETERMINED
5-81	57	55	81.9	REJECT INDICATOR, APHA STD METH, 14ED
5-81	58	302	0.6	POTENTIOMETRIC, APHA STD METH, 14ED
5-81	59	310	2.1	INDICATOR, APHA STD METH, 14ED
5-81	60	320	5.3	INDICATOR, APHA STD METH, 14ED
5-81	61	294	3.2	INDICATOR, APHA STD METH, 14ED
5-81	62	290	4.5	OTHER
5-81	63	296	2.6	INDICATOR, APHA STD METH, 14ED
5-81	64	309	1.7	OTHER
5-81	65	310	2.1	AUTOMATED ELECTROMETRIC TITRATION
5-81	66	302	0.6	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
5-81	67	305	0.4	POTENTIOMETRIC, APHA STD METH, 14ED
6-81	68	297	2.2	POTENTIOMETRIC, APHA STD METH, 14ED
5-81	69	305	0.4	POTENTIOMETRIC, APHA STD METH, 14ED
5-81	70			NOT DETERMINED
5-81	71	306	0.7	AUTOMATED ELECTROMETRIC TITRATION
5-81	72	298	1.9	AUTOMATED ELECTROMETRIC TITRATION
6-81	73			NOT DETERMINED
5-81	75	302	0.6	ELECTROMETRIC TITRATION, AUTO, I-2030, USGS TWRI BK 5 CH A1
5-81	76			NOT DETERMINED
6-81	77	307	1.1	AUTOMATED ELECTROMETRIC TITRATION
6-81	78	270	11.1	OTHER
6-81	79	335	10.3	POTENTIOMETRIC, APHA STD METH, 14ED
6-81	81	321	5.7	POTENTIOMETRIC, APHA STD METH, 14ED
6-81	82	612	101.5	REJECT INDICATOR, APHA STD METH, 14ED

24
28
306.2 ± 26.0
305.1 ± 10.6

-177 →

TOTAL RANGE 55.0000 - 612.0000 SAMPLE 76
 MEAN 303.7590 AVERAGE DEVIATION 7.6290
 STANDARD DEVIATION 11.1354 95 PCT.CONF.INTVL OF MEAN 303.7590 +OR- 3.0367 ALK.

28 305.2 ± 10.6

10 - 303.2 ± 5.9

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR S04
5-81	1	940	2.4	OTHER
5-81	2			NOT DETERMINED
5-81	3	960	4.5	TURBIDIMETRIC
5-81	4	960	4.5	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
5-81	5	900	2.0	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
5-81	6			NOT DETERMINED
6-81	7	940	2.4	OTHER
6-81	8			NOT DETERMINED
5-81	9	990	7.8	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
5-81	10	980	6.7	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
5-81	11	820	10.7	TURBIDIMETRIC
5-81	12	890	3.1	TURBIDIMETRIC
5-81	13	790	14.0	TURBIDIMETRIC
5-81	14			NOT DETERMINED
5-81	15	830	9.6	TURBIDIMETRIC
5-81	16	950	3.4	COMPLEXOMETRIC METHYLTHYMOL BLUE,AUTO, I-2822, USGS TWRI BK5
5-81	17	1000	8.9	TURBIDIMETRIC
6-81	18	720	21.6	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
5-81	19	900	2.0	TURBIDIMETRIC
5-81	20	780	15.1	THORIN TITRIMETRIC, I-1820, USGS TWRI BK5 CH A1
6-81	22	920	0.2	TURBIDIMETRIC
5-81	23	930	1.3	OTHER
5-81	24			NOT DETERMINED
5-81	25	970	5.6	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
5-81	27	880	4.2	TURBIDIMETRIC
5-81	29	920	0.2	TURBIDIMETRIC
4-81	30	940	2.4	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
5-81	31	950	3.4	TURBIDIMETRIC
6-81	32	1100	19.8	TURBIDIMETRIC
5-81	33	1000	8.9	TURBIDIMETRIC
5-81	35			NOT DETERMINED
5-81	36	1000	8.9	TURBIDIMETRIC
5-81	37	920	0.2	THORIN TITRIMETRIC, I-1820, USGS TWRI BK5 CH A1
6-81	38			NOT DETERMINED
5-81	39	960	4.5	TURBIDIMETRIC
6-81	40	940	2.4	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
5-81	42	920	0.2	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
6-81	43			NOT DETERMINED
6-81	44	840	8.5	TURBIDIMETRIC
6-81	45	780	15.1	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR S04
5-81	46	940 ✓	2.4	GRAVIMETRIC, APHA STD METH, 14ED
4-81	47	950	3.4	COMPLEXOMETRIC METHYLTHYMOL BLUE,AUTO, I-2822, USGS TWRI BK5
5-81	48	930	1.3	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
5-81	49			NOT DETERMINED
5-81	50	940	2.4	THORIN TITRIMETRIC, I-1820, USGS TWRI BK5 CH A1
6-81	51			NOT DETERMINED
5-81	53	920 ✓	0.2	GRAVIMETRIC, APHA STD METH, 14ED
5-81	54			NOT DETERMINED
5-81	55			NOT DETERMINED
5-81	56	1000	8.9	OTHER
5-81	57			NOT DETERMINED
5-81	58	900	2.0	TURBIDIMETRIC
5-81	59	910	0.9	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
5-81	60	900	2.0	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
5-81	61	760	17.2	TURBIDIMETRIC
5-81	62	940	2.4	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
5-81	63	900	2.0	TURBIDIMETRIC
5-81	64	920	0.2	OTHER
5-81	65			NOT DETERMINED
5-81	66	1000	8.9	THORIN TITRIMETRIC, I-1820, USGS TWRI BK5 CH A1
5-81	67	790	14.0	TURBIDIMETRIC
6-81	68	930	1.3	TURBIDIMETRIC
5-81	69	920	0.2	TURBIDIMETRIC
5-81	70			NOT DETERMINED
5-81	71	920	0.2	OTHER
5-81	72	960	4.5	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
6-81	73	950 ✓	3.4	GRAVIMETRIC, APHA STD METH, 14ED
5-81	75	940	2.4	TURBIDIMETRIC
5-81	76			NOT DETERMINED
6-81	77	1300	41.6	REJECT TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
6-81	78			NOT DETERMINED
6-81	79	900	2.0	TURBIDIMETRIC
6-81	81	1200	30.7	REJECT TURBIDIMETRIC
6-81	82	970	5.6	TURBIDIMETRIC

TOTAL RANGE	720.0000 - 1300.0000				SAMPLE 76
MEAN	918.3635	AVERAGE DEVIATION	48.7471		
STANDARD DEVIATION	69.3022	95 PCT.CONF.INTVL OF MEAN	918.3635 +0R-	18.7268	S04

-720
 -780
 17 920.0 ± 69.7
 16 938.5 ± 48.5
 15 942.7 ± 27.4

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CL
5-81	1	27	2.6	SILVER NITRATE, ASTM METHOD B, D512
5-81	2	23	12.6	ION-SELECTIVE ELECTRODE
5-81	3	30	14.0	ARGENTOMETRIC, APHA STD METH, 14ED
5-81	4	26	1.2	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
5-81	5	28	6.4	MERCURIC NITRATE, APHA STD METH, 14ED
5-81	6	25	5.0	MERCURIC NITRATE, APHA STD METH, 14ED
6-81	7	26	1.2	ION-SELECTIVE ELECTRODE
6-81	8			NOT DETERMINED
5-81	9	25	5.0	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
5-81	10	25	5.0	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
5-81	11	28	6.4	ARGENTOMETRIC, APHA STD METH, 14ED
5-81	12	25	5.0	ARGENTOMETRIC, APHA STD METH, 14ED
5-81	13	25	5.0	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
5-81	14			NOT DETERMINED
5-81	15	24	8.8	MERCURIC NITRATE, APHA STD METH, 14ED
5-81	16	25	5.0	FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1
5-81	17	26	1.2	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
6-81	18	26	1.2	ARGENTOMETRIC, APHA STD METH, 14ED
5-81	19	42	59.5	REJECT ION-SELECTIVE ELECTRODE
5-81	20	28	6.4	MOHR, I-1183, USGS TWRI BK5 CH A1
6-81	22	28	6.4	ARGENTOMETRIC, APHA STD METH, 14ED
5-81	23	28	6.4	MOHR, I-1183, USGS TWRI BK5 CH A1
5-81	24			NOT DETERMINED
5-81	25	25	5.0	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
5-81	27	24	8.8	MERCURIC NITRATE, APHA STD METH, 14ED
5-81	29			NOT DETERMINED
4-81	30	26	1.2	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
5-81	31	26	1.2	OTHER
6-81	32	32	21.5	MERCURIC NITRATE, APHA STD METH, 14ED
5-81	33	27	2.6	ARGENTOMETRIC, APHA STD METH, 14ED
5-81	35	28	6.4	MERCURIC NITRATE, APHA STD METH, 14ED
5-81	36	23	12.6	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
5-81	37	24	8.8	MOHR, I-1183, USGS TWRI BK5 CH A1
6-81	38	27	2.6	ARGENTOMETRIC, APHA STD METH, 14ED
5-81	39			NOT DETERMINED
6-81	40	26	1.2	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
5-81	42	30	14.0	MERCURIC NITRATE, APHA STD METH, 14ED
6-81	43	3	88.6	REJECT MERCURIC NITRATE, APHA STD METH, 14ED
6-81	44	26	1.2	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
6-81	45	28	6.4	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CL
5-81	46	36	36.7	REJECT 36 ARGENTOMETRIC, APHA STD METH, 14ED
4-81	47	26	1.2	FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1 ✓
5-81	48	30	14.0	30 ARGENTOMETRIC, APHA STD METH, 14ED
5-81	49			26 NOT DETERMINED
5-81	50	26	1.2	MOHR, I-1183, USGS TWRI BK5 CH A1 ✓
6-81	51	22	16.4	MERCURIC NITRATE, APHA STD METH, 14ED
5-81	53	26	1.2	FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1 ✓
5-81	54	34	29.1	REJECT 34 ARGENTOMETRIC, APHA STD METH, 14ED
5-81	55	38	44.3	38 REJECT MERCURIC NITRATE, APHA STD METH, 14ED
5-81	56	26	1.2	MERCURIC NITRATE, APHA STD METH, 14ED
5-81	57			NOT DETERMINED
5-81	58	27	2.6	27 ARGENTOMETRIC, APHA STD METH, 14ED
5-81	59	26	1.2	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE ✓
5-81	60	29	10.2	89 ARGENTOMETRIC, APHA STD METH, 14ED
5-81	61	26	1.2	FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1 ✓
5-81	62	27	2.6	OTHER
5-81	63	32	21.5	MERCURIC NITRATE, APHA STD METH, 14ED
5-81	64			NOT DETERMINED
5-81	65			NOT DETERMINED
5-81	66	22	16.4	MERCURIMETRIC, I-1184, USGS TWRI BK5 CH A1
5-81	67	26	1.2	MERCURIC NITRATE, APHA STD METH, 14ED
6-81	68	40	51.9	REJECT MERCURIC NITRATE, APHA STD METH, 14ED
5-81	69	25	5.0	FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1 ✓
5-81	70			NOT DETERMINED
5-81	71	24	8.8	OTHER
5-81	72	27	2.6	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE ✓
6-81	73	28	6.4	28 ARGENTOMETRIC, APHA STD METH, 14ED
5-81	75	28	6.4	ION-SELECTIVE ELECTRODE
5-81	76			NOT DETERMINED
6-81	77	27	2.6	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE ✓
6-81	78	22	16.4	MERCURIC NITRATE, APHA STD METH, 14ED
6-81	79	26	1.2	OTHER
6-81	81	36	36.7	REJECT 50 MERCURIMETRIC, I-1184, USGS TWRI BK5 CH A1
6-81	82	50	89.9	REJECT ARGENTOMETRIC, APHA STD METH, 14ED

22

18 28.2 ± 2.9
17 27.8 ± 2.3

TOTAL RANGE 3.0000 - 50.0000
 MEAN 26.3273 AVERAGE DEVIATION 1.6291 SAMPLE 76
 STANDARD DEVIATION 2.1778 95 PCT.CONF.INTVL OF MEAN 26.3273 +OR- 0.5885 CL

14 28.4 ± 5.5

19 25.74 ± 1.05
16 27.4 ± 1.6

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR F
5-81	1	0.9	17.7	MANUAL ION-SELECTIVE ELECTRODE
5-81	2			NOT DETERMINED
5-81	3	1.1	0.6	MANUAL ION-SELECTIVE ELECTRODE
5-81	4	1.1	0.6	MANUAL ION-SELECTIVE ELECTRODE
5-81	5			NOT DETERMINED
5-81	6	1.3	18.8	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
5-81	7	1.0	8.6	OTHER
6-81	8			NOT DETERMINED
5-81	9	1.1	0.6	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
5-81	10	1.1	0.6	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
5-81	11	1.3	18.8	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
5-81	12			NOT DETERMINED
5-81	13	0.7	36.0	MANUAL ION-SELECTIVE ELECTRODE
5-81	14			NOT DETERMINED
5-81	15	0.9	17.7	MANUAL ION-SELECTIVE ELECTRODE
5-81	16	1.1	0.6	ION-SELECTIVE ELECTRODE, AUTO, I-2327, USGS TWRI BK5 CH A1
5-81	17			NOT DETERMINED
6-81	18			NOT DETERMINED
5-81	19	1.2	9.7	MANUAL ION-SELECTIVE ELECTRODE
5-81	20	1.1	0.6	ZIRCONIUM-ERIOCHROME R, I-1325, USGS TWRI BK5 CH A1
6-81	22	1.1	0.6	MANUAL ION-SELECTIVE ELECTRODE
5-81	23			NOT DETERMINED
5-81	24			NOT DETERMINED
5-81	25	0.9	17.7	TECHNICON AUTOANALYZER, ION-SELECTIVE ELECTRODE
5-81	27	1.0	8.6	TECHNICON AUTOANALYZER, ION-SELECTIVE ELECTRODE
5-81	29			NOT DETERMINED
4-81	30	1.1	0.6	TECHNICON AUTOANALYZER, ALIZIRIN
5-81	31	1.0	8.6	MANUAL ION-SELECTIVE ELECTRODE
6-81	32	1.0	8.6	MANUAL ION-SELECTIVE ELECTRODE
5-81	33	1.1	0.6	MANUAL ION-SELECTIVE ELECTRODE
5-81	35	1.1	0.6	TECHNICON AUTOANALYZER, ALIZIRIN
5-81	36	1.1	0.6	MANUAL ION-SELECTIVE ELECTRODE
5-81	37	1.0	8.6	ZIRCONIUM-ERIOCHROME R, I-1325, USGS TWRI BK5 CH A1
6-81	38	1.6	46.3	REJECT MANUAL ION-SELECTIVE ELECTRODE
5-81	39			NOT DETERMINED
6-81	40	1.1	0.6	MANUAL ION-SELECTIVE ELECTRODE
5-81	42			NOT DETERMINED
6-81	43	1.0	8.6	MANUAL ION-SELECTIVE ELECTRODE
6-81	44	1.1	0.6	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
6-81	45	0.9	17.7	MANUAL ION-SELECTIVE ELECTRODE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR F
5-81	46	1.4	28.0	SPADNS, APHA STD METH, 14ED
4-81	47	1.1	0.6	MANUAL ION-SELECTIVE ELECTRODE
5-81	48	1.2	9.7	MANUAL ION-SELECTIVE ELECTRODE
5-81	49			NOT DETERMINED
5-81	50			NOT DETERMINED
6-81	51	1.1	0.6	MANUAL ION-SELECTIVE ELECTRODE
5-81	53	1.1	0.6	MANUAL ION-SELECTIVE ELECTRODE
5-81	54			NOT DETERMINED
5-81	55			NOT DETERMINED
5-81	56			NOT DETERMINED
5-81	57			NOT DETERMINED
5-81	58			NOT DETERMINED
5-81	59	1.1	0.6	TECHNICON AUTOANALYZER, ALIZIRIN
5-81	60	1.1	0.6	MANUAL ION-SELECTIVE ELECTRODE
5-81	61	1.1	0.6	ION-SELECTIVE ELECTRODE, AUTO, I-2327, USGS TWRI BK5 CH A1
5-81	62	1.1	0.6	OTHER
5-81	63	1.5	37.1	SPADNS, APHA STD METH, 14ED
5-81	64			NOT DETERMINED
5-81	65			NOT DETERMINED
5-81	66	1.2	9.7	ZIRCONIUM-ERIOCHROME R, I-1325, USGS TWRI BK5 CH A1
5-81	67	1.1	1.5	MANUAL ION-SELECTIVE ELECTRODE
6-81	68			NOT DETERMINED
5-81	69	1.0	8.6	MANUAL ION-SELECTIVE ELECTRODE
5-81	70			NOT DETERMINED
5-81	71	1.0	8.6	ION-SELECTIVE ELECTRODE, AUTO, I-2327, USGS TWRI BK5 CH A1
5-81	72	1.0	8.6	OTHER
6-81	73	1.2	9.7	MANUAL ION-SELECTIVE ELECTRODE
5-81	75	1.0	8.6	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
5-81	76			NOT DETERMINED
6-81	77	1.4	28.0	MANUAL ION-SELECTIVE ELECTRODE
6-81	78			NOT DETERMINED
6-81	79	1.2	9.7	MANUAL ION-SELECTIVE ELECTRODE
6-81	81	0.1	90.9	REJECT MANUAL ION-SELECTIVE ELECTRODE
6-81	82	1.1	0.6	MANUAL ION-SELECTIVE ELECTRODE

TOTAL RANGE	0.1000	-	1.6000				SAMPLE 76
MEAN		1.0938	AVERAGE DEVIATION	0.0897			
STANDARD DEVIATION		0.1390	95 PCT.CONF.INTVL OF MEAN	1.0938	+OR-	0.0407	F

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NO2-N
5-81	1			NOT DETERMINED
5-81	2			NOT DETERMINED
5-81	3			NOT DETERMINED
5-81	4	0.56	1.0	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	5			NOT DETERMINED
5-81	6			NOT DETERMINED
6-81	7			NOT DETERMINED
6-81	8			NOT DETERMINED
5-81	9	0.45	20.5	REJECT TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	10	0.48	15.2	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	11	0.56	1.0	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	12	0.80	41.4	REJECT OTHER
5-81	13	0.55	2.8	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	14			NOT DETERMINED
5-81	15	0.56	1.0	DIAZOTIZATION, APHA STD METH, 14ED
5-81	16	0.51	9.9	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
5-81	17			NOT DETERMINED
6-81	18	0.58	2.5	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	19	0.57	0.8	DIAZOTIZATION, EPA
5-81	20			NOT DETERMINED
6-81	22	0.57	0.8	DIAZOTIZATION, APHA STD METH, 14ED
5-81	23			NOT DETERMINED
5-81	24			NOT DETERMINED
5-81	25	0.40	29.3	REJECT TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	27	0.56	1.0	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	29			NOT DETERMINED
4-81	30			NOT DETERMINED
5-81	31	1.50	165.1	REJECT DIAZOTIZATION, EPA
6-81	32	0.57	0.8	DIAZOTIZATION, APHA STD METH, 14ED
5-81	33	0.59	4.3	DIAZOTIZATION, APHA STD METH, 14ED
5-81	35	0.64	13.1	DIAZOTIZATION, EPA
5-81	36			NOT DETERMINED
5-81	37			NOT DETERMINED
6-81	38			NOT DETERMINED
5-81	39			NOT DETERMINED
6-81	40	0.52	8.1	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	42	0.56	1.0	DIAZOTIZATION, EPA
6-81	43			NOT DETERMINED
6-81	44			NOT DETERMINED
6-81	45	0.56	1.0	TECHNICON AUTOANALYZER, DIAZOTIZATION

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NO2-N
5-81	46	0.52	8.1	DIAZOTIZATION, APHA STD METH, 14ED 8
4-81	47	0.56	1.0	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
5-81	48	0.56	1.0	TECHNICON AUTOANALYZER, DIAZOTIZATION 9
5-81	49			NOT DETERMINED
5-81	50			NOT DETERMINED
6-81	51			NOT DETERMINED
5-81	53	0.55	2.8	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	54			NOT DETERMINED
5-81	55	0.60	6.1	DIAZOTIZATION, APHA STD METH, 14ED 10
5-81	56			NOT DETERMINED
5-81	57			NOT DETERMINED
5-81	58	0.58	2.5	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	59			NOT DETERMINED
5-81	60	0.57	0.8	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	61	0.59	4.3	DIAZOTIZATION, EPA 11
5-81	62			NOT DETERMINED
5-81	63			NOT DETERMINED
5-81	64			NOT DETERMINED
5-81	65	0.36	36.4	REJECT TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	66	0.57	0.8	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
5-81	67	0.60	6.1	DIAZOTIZATION, EPA 12
6-81	68	0.56	1.0	DIAZOTIZATION, EPA 13
5-81	69	0.58	2.5	DIAZOTIZATION, APHA STD METH, 14ED 14
5-81	70			NOT DETERMINED
5-81	71	0.16	71.7	REJECT DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
5-81	72	0.60	6.1	TECHNICON AUTOANALYZER, DIAZOTIZATION
6-81	73			NOT DETERMINED
5-81	75	0.69	22.0	REJECT DIAZOTIZATION, APHA STD METH, 14ED 15
5-81	76	0.56	1.0	TECHNICON AUTOANALYZER, DIAZOTIZATION
6-81	77	0.60	6.1	TECHNICON AUTOANALYZER, DIAZOTIZATION
6-81	78			NOT DETERMINED
6-81	79	0.55	2.8	DIAZOTIZATION, EPA 15
6-81	81	1.20	112.1	REJECT DIAZOTIZATION, APHA STD METH, 14ED
6-81	82	0.58	2.5	DIAZOTIZATION, APHA STD METH, 14ED 16

TOTAL RANGE 0.1600 - 1.5000
 MEAN 0.5658 AVERAGE DEVIATION 0.0205 SAMPLE 76
 STANDARD DEVIATION 0.0296 95 PCT.CONF.INTVL OF MEAN 0.5658 +0R- 0.0105 NO2-N

5658 ± .0296
 ± 33
 .683

15 = .5760 ± .027
 16 = .583 ± .039

18 = .5572 ± .029
 17 = .562 ± .023
 21 = .535 ± .063
 20 = .544 ± .049
 19 = .552 ± .038

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR N03-N
5-81	1	5.5	20.5	OTHER
5-81	2	3.5	23.3	OTHER
5-81	3	4.8 .56	5.2	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	4	5.2	14.0	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	5	5.7	24.9	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	6			NOT DETERMINED
6-81	7	7.2	57.8	REJECT OTHER
6-81	8			NOT DETERMINED
5-81	9	4.7 .45	3.0	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	10	4.8 .48	5.2	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	11	4.6 .56	0.8	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-81	12	55.0	*****	REJECT OTHER
5-81	13	5.2 .55	14.0	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	14			NOT DETERMINED
5-81	15	5.5	20.5	① BRUCINE, APHA STD METH, 14ED
5-81	16	4.0 .51	12.3	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-81	17			NOT DETERMINED
6-81	18	4.6 - .58	0.8	TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION
5-81	19	4.6	0.8	MANUAL, CADMIUM REDUCTION
5-81	20			NOT DETERMINED
6-81	22	4.3	5.8	② BRUCINE, APHA STD METH, 14ED
5-81	23			NOT DETERMINED
5-81	24			NOT DETERMINED
5-81	25	4.6 .40	0.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	27	4.5 .56	1.4	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	29			NOT DETERMINED
4-81	30	4.8	5.2	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	31	3.5 1.5	23.3	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-81	32	4.4	3.6	MANUAL, CADMIUM REDUCTION
5-81	33	3.8	16.7	③ BRUCINE, APHA STD METH, 14ED
5-81	35	4.2 - .59	7.9	TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION
5-81	36	3.9 .64	14.5	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	37			NOT DETERMINED
6-81	38			NOT DETERMINED
5-81	39			NOT DETERMINED
6-81	40	4.3 .52	5.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	42	4.7 .56	3.0	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-81	43			NOT DETERMINED
6-81	44	5.4	18.4	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-81	45	4.5 .56	1.4	TECHNICON AUTOANALYZER, CADMIUM REDUCTION

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NO3-N
5-81	46	4.4	3.6	(4) BRUCINE, APHA STD METH, 14ED
4-81	47	4.6	0.8	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-81	48	5.1	11.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	49			NOT DETERMINED
5-81	50			NOT DETERMINED
6-81	51			NOT DETERMINED
5-81	53	4.5	1.4	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	54	6.0	31.5	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	55	4.1	10.1	(5) BRUCINE, APHA STD METH, 14ED
5-81	56			NOT DETERMINED
5-81	57			NOT DETERMINED
5-81	58	3.2	29.9	TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION
5-81	59	4.9	7.4	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	60	4.4	3.6	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	61	4.3	5.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	62	5.0	9.6	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	63	5.2	14.0	BRUCINE, APHA STD METH, 14ED
5-81	64			NOT DETERMINED
5-81	65	3.8	16.7	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	66	4.0	12.3	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-81	67	4.4	3.6	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-81	68	2.1	54.0	REJECT (6) MANUAL, CADMIUM REDUCTION
5-81	69	5.1	11.8	BRUCINE, APHA STD METH, 14ED
5-81	70			NOT DETERMINED
5-81	71	4.1	10.1	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-81	72	4.9	7.4	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-81	73	4.1	10.1	OTHER
5-81	75	20.0	338.4	REJECT BRUCINE, APHA STD METH, 14ED
5-81	76	4.5	1.4	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-81	77	4.6	0.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-81	78			NOT DETERMINED
6-81	79	4.2	7.9	MANUAL, CADMIUM REDUCTION
6-81	81	1.6	64.9	REJECT MANUAL, CADMIUM REDUCTION
6-81	82			NOT DETERMINED

TOTAL RANGE	1.6000	-	55.0000			SAMPLE 76
MEAN	4.5625		AVERAGE DEVIATION	0.4417		
STANDARD DEVIATION	0.5804		95 PCT.CONF.INTVL OF MEAN	4.5625 +OR-	0.1682	NO3-N

5 3.38 ± 1.41
32 4.634 ± 0.534

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN
5-81	1		
5-81	2	3.2	22.7
5-81	3		
5-81	4	2.6 ✓	0.3
5-81	5	2.7	3.5
5-81	6		
6-81	7		
6-81	8		
5-81	9		
5-81	10		
5-81	11	2.5 ✓	4.1
5-81	12	2.4	8.0
5-81	13	4.8	84.1
5-81	14		
5-81	15	2.1	19.5
5-81	16	3.2	22.7
5-81	17		
6-81	18	2.6	0.3
5-81	19	2.8 ✓	7.4
5-81	20		
6-81	22	2.6 ✓	0.3
5-81	23		
5-81	24		
5-81	25		
5-81	27	2.4	8.0
5-81	29	2.9	11.2
4-81	30	2.7	3.5
5-81	31	2.6 ✓	0.3
6-81	32	2.8 ✓	7.4
5-81	33	2.5	4.1
5-81	35	2.8	7.4
5-81	36	1.9 ✓	27.1
5-81	37		
6-81	38		
5-81	39		
6-81	40		
5-81	42	2.6	0.3
6-81	43	0.9 <	66.6
6-81	44		
6-81	45	2.8	7.4

METHODS FOR P, TOTAL

NOT DETERMINED
 OTHER
 NOT DETERMINED
 DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
 TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
 NOT DETERMINED
 NOT DETERMINED
 NOT DETERMINED
 NOT DETERMINED
 NOT DETERMINED
 DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
 TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
 PHOSPHOMOLYBDATE-ASCORBIC ACID, AUTO, EPA
 NOT DETERMINED
 EMISSION-PLASMA DC
 PHOSPHOMOLYBDATE, AUTO, I-2600, USGS TWRI BK5 CH A1
 NOT DETERMINED
 PHOSPHOMOLYBDATE-ASCORBIC ACID, AUTO, EPA
 PHOSPHOMOLYBDATE, EPA
 NOT DETERMINED
 DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
 NOT DETERMINED
 NOT DETERMINED
 NOT DETERMINED
 PHOSPHOMOLYBDATE-ASCORBIC ACID, AUTO, EPA
 OTHER
 PHOSPHOMOLYBDATE-ASCORBIC ACID, AUTO, EPA
 OTHER
 DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
 OTHER
 PHOSPHOMOLYBDATE-ASCORBIC ACID, AUTO, EPA
 PHOSPHOMOLYBDATE, EPA
 NOT DETERMINED
 NOT DETERMINED
 NOT DETERMINED
 NOT DETERMINED
 PHOSPHOMOLYBDATE-ASCORBIC ACID, AUTO, EPA
 PHOSPHOMOLYBDATE, EPA
 NOT DETERMINED
 TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE

2.673 ± .127
 2.608 ± .254
 2.700 ± .410
 2.571 ± .622
 2.427 ± .821
 11 -1.9
 12 -3.8
 13 -1.9
 14 -1.4
 15
 2.700
 1.9
 .8
 3.2
 1.1

2.427 ± .821
 2.59 ± .506
 2.79 ±
 14

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR P,TOTAL
5-81	46	2.6	0.3	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
4-81	47	2.6	0.3	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
5-81	48	2.5	4.1	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	49	3.9	49.6	OTHER
5-81	50			NOT DETERMINED
6-81	51			NOT DETERMINED
5-81	53	2.6	0.3	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	54			NOT DETERMINED
5-81	55	2.6	0.3	PHOSPHOMOLYBDATE, EPA
5-81	56			NOT DETERMINED
5-81	57			NOT DETERMINED
5-81	58	2.6	0.3	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	59	2.6	0.3	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	60			NOT DETERMINED
5-81	61	2.7	3.5	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	62			NOT DETERMINED
5-81	63	2.6	0.3	EMISSION-PLASMA DC
5-81	64			NOT DETERMINED
5-81	65	2.9	11.2	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
5-81	66	2.6	0.3	PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
5-81	67	2.6	0.3	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-81	68	2.6	0.3	PHOSPHOMOLYBDATE, EPA
5-81	69	-0.4	82.7	PHOSPHOMOLYBDATE, EPA
5-81	70			NOT DETERMINED
5-81	71	2.9	11.2	PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
5-81	72	0.4	84.7	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-81	73			NOT DETERMINED
5-81	75			NOT DETERMINED
5-81	76			NOT DETERMINED
6-81	77	30.0	*****	REJECT TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-81	78			NOT DETERMINED
6-81	79	2.8	7.4	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
6-81	81	-3.8	45.7	PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
6-81	82	2.8	7.4	OTHER

1.4
3.8
2.427 ± 0.821
15

TOTAL RANGE 0.4000 - 30.0000 SAMPLE 76
 MEAN 2.6076 AVERAGE DEVIATION 0.3891
 STANDARD DEVIATION 0.7413 95 PCT.CONF.INTVL OF MEAN 2.6076 +0R- 0.2304 P,TOTAL

15 2.427 ± 0.821

19 2.658 ± 0.755
 18 2.783 ± 0.532

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR DSRD180
5-81	1	1710	2.9	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-81	2			NOT DETERMINED
5-81	3			NOT DETERMINED
5-81	4	1690	4.0	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-81	5	1770	0.5	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-81	6	1710	2.9	RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-81	7			NOT DETERMINED
6-81	8			NOT DETERMINED
5-81	9			NOT DETERMINED
5-81	10			NOT DETERMINED
5-81	11	1730	1.7	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-81	12	1500	14.8	REJECT RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-81	13	1800	2.2	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-81	14			NOT DETERMINED
5-81	15	1840	4.5	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-81	16	1790	1.7	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-81	17	1790	1.7	RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-81	18	1650	6.3	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-81	19	1850	5.1	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-81	20	1810	2.8	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
6-81	22	1760	0.0	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-81	23			NOT DETERMINED
5-81	24			NOT DETERMINED
5-81	25			NOT DETERMINED
5-81	27	1820	3.4	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-81	29			NOT DETERMINED
4-81	30	1700	3.4	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-81	31	1750	0.6	RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-81	32	1790	1.7	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-81	33	1820	3.4	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-81	35	1760	0.0	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-81	36	1630	7.4	RESIDUE-FILTERABLE, APHA STD METH, 14ED
5-81	37	1800	2.2	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
6-81	38	1820	3.4	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-81	39	1820	3.4	RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-81	40	1700	3.4	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
5-81	42	1750	0.6	RESIDUE-FILTERABLE, APHA STD METH, 14ED
6-81	43			NOT DETERMINED
6-81	44	1780	1.1	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
6-81	45			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SP.COND
5-81	1	2150	3.3	WHEATSTONE BRIDGE
5-81	2	1730	16.9	REJECT DIRECT READING INSTRUMENT
5-81	3	1940	6.8	DIRECT READING INSTRUMENT
5-81	4	2010	3.4	WHEATSTONE BRIDGE
5-81	5	2140	2.8	DIRECT READING INSTRUMENT
5-81	6	1830	12.1	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
6-81	7	1100	47.2	REJECT WHEATSTONE BRIDGE, I-1780, USGS TWRI BK5 CH A1
6-81	8			NOT DETERMINED
5-81	9	1940	6.8	WHEATSTONE BRIDGE, I-1780, USGS TWRI BK5 CH A1
5-81	10	1940	6.8	WHEATSTONE BRIDGE, I-1780, USGS TWRI BK5 CH A1
5-81	11	2060	1.0	DIRECT READING INSTRUMENT
5-81	12	2080	0.1	DIRECT READING INSTRUMENT
5-81	13	2020	3.0	DIRECT READING INSTRUMENT
5-81	14			NOT DETERMINED
5-81	15	2160	3.8	DIRECT READING INSTRUMENT
5-81	16	2190	5.2	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
5-81	17	2100	0.9	WHEATSTONE BRIDGE
6-81	18	1300	37.5	REJECT WHEATSTONE BRIDGE
5-81	19	2200	5.7	DIRECT READING INSTRUMENT
5-81	20	2130	2.3	WHEATSTONE BRIDGE, I-1780, USGS TWRI BK5 CH A1
6-81	22	2060	1.0	WHEATSTONE BRIDGE
5-81	23			NOT DETERMINED
5-81	24			NOT DETERMINED
5-81	25	2190	5.2	WHEATSTONE BRIDGE
5-81	27	2020	3.0	DIRECT READING INSTRUMENT
5-81	29			NOT DETERMINED
4-81	30	2100	0.9	DIRECT READING INSTRUMENT
5-81	31	2100	0.9	DIRECT READING INSTRUMENT
6-81	32	2020	3.0	DIRECT READING INSTRUMENT
5-81	33	2110	1.4	DIRECT READING INSTRUMENT
5-81	35	2030	2.5	DIRECT READING INSTRUMENT
5-81	36	2040	2.0	WHEATSTONE BRIDGE
5-81	37	2130	2.3	DIRECT READING INSTRUMENT
6-81	38			NOT DETERMINED
5-81	39			NOT DETERMINED
6-81	40	2140	2.8	DIRECT READING INSTRUMENT
5-81	42	3350	60.9	REJECT DIRECT READING INSTRUMENT
6-81	43	1490	28.4	REJECT DIRECT READING INSTRUMENT
6-81	44	2130	2.3	WHEATSTONE BRIDGE, I-1780, USGS TWRI BK5 CH A1
6-81	45	2150	3.3	WHEATSTONE BRIDGE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SP.COND
5-81	46	2100	0.9	WHEATSTONE BRIDGE
4-81	47	2110	1.4	WHEATSTONE BRIDGE
5-81	48	2140	2.8	DIRECT READING INSTRUMENT
5-81	49			NOT DETERMINED
5-81	50	2200	5.7	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
6-81	51	1920	7.8	WHEATSTONE BRIDGE
5-81	53	2090	0.4	WHEATSTONE BRIDGE
5-81	54	1500	27.9	REJECT DIRECT READING INSTRUMENT
5-81	55			NOT DETERMINED
5-81	56	2060	1.0	DIRECT READING INSTRUMENT
5-81	57	2300	10.5	DIRECT READING INSTRUMENT
5-81	58			NOT DETERMINED
5-81	59	2000	3.9	WHEATSTONE BRIDGE
5-81	60	2780	33.5	REJECT DIRECT READING INSTRUMENT
5-81	61	2000	3.9	DIRECT READING INSTRUMENT
5-81	62	2200	5.7	WHEATSTONE BRIDGE
5-81	63	2130	2.3	DIRECT READING INSTRUMENT
5-81	64	2090	0.4	OTHER
5-81	65	2130	2.3	WHEATSTONE BRIDGE
5-81	66	2150	3.3	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
5-81	67	2100	0.9	DIRECT READING INSTRUMENT
6-81	68	2150	3.3	OTHER
5-81	69	2100	0.9	DIRECT READING INSTRUMENT
5-81	70			NOT DETERMINED
5-81	71	2110	1.4	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
5-81	72	1890	9.2	WHEATSTONE BRIDGE
6-81	73	2070	0.6	WHEATSTONE BRIDGE
5-81	75	2200	5.7	WHEATSTONE BRIDGE
5-81	76			NOT DETERMINED
6-81	77	2100	0.9	DIRECT READING INSTRUMENT
6-81	78	1930	7.3	DIRECT READING INSTRUMENT
6-81	79	2140	2.8	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
6-81	81	1800	13.5	DIRECT READING INSTRUMENT
6-81	82	2170	4.2	DIRECT READING INSTRUMENT

TOTAL RANGE 1100.0000 - 3350.0000

SAMPLE 76

MEAN 2081.6362 AVERAGE DEVIATION 74.7041
STANDARD DEVIATION 97.6152 95 PCT.CONF.INTVL OF MEAN 2081.6362 +OR- 26.3775 SP.COND

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR PH
5-81	1	8.3	0.1	ELECTROMETRIC
5-81	2	8.3	0.1	ELECTROMETRIC
5-81	3	8.2	1.1	ELECTROMETRIC
5-81	4	8.3	0.1	ELECTROMETRIC
5-81	5	8.3	0.1	ELECTROMETRIC
5-81	6	8.4	1.3	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
6-81	7	8.3	0.1	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
6-81	8			NOT DETERMINED
5-81	9	8.2	1.1	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
5-81	10	8.2	1.1	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
5-81	11	8.1	2.3	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
5-81	12	8.4	1.3	ELECTROMETRIC
5-81	13	8.3	0.1	ELECTROMETRIC
5-81	14	8.3	0.1	ELECTROMETRIC
5-81	15	8.2	1.1	ELECTROMETRIC
5-81	16	8.3	0.1	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
5-81	17	8.2	1.1	ELECTROMETRIC
6-81	18	8.6	3.7	ELECTROMETRIC
5-81	19	8.1	2.3	ELECTROMETRIC
5-81	20	8.0	3.5	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
6-81	22	8.5	2.5	ELECTROMETRIC
5-81	23			NOT DETERMINED
5-81	24			NOT DETERMINED
5-81	25	8.2	1.1	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
5-81	27	8.4	1.3	ELECTROMETRIC
5-81	29			NOT DETERMINED
4-81	30	8.2	1.1	ELECTROMETRIC
5-81	31	8.5	2.5	ELECTROMETRIC
6-81	32	8.1	2.3	ELECTROMETRIC
5-81	33	8.3	0.1	ELECTROMETRIC
5-81	35	8.3	0.1	ELECTROMETRIC
5-81	36	8.3	0.1	ELECTROMETRIC
5-81	37	8.1	2.3	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
6-81	38	8.1	2.3	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
5-81	39	8.6	3.7	ELECTROMETRIC
6-81	40	8.3	0.1	ELECTROMETRIC
5-81	42	8.4	1.3	ELECTROMETRIC
6-81	43	8.4	1.3	ELECTROMETRIC
6-81	44	8.4	1.3	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
6-81	45	8.1	2.3	ELECTROMETRIC

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	PH
5-81	46	8.3	0.1	ELECTROMETRIC	
4-81	47	8.3	0.1	ELECTROMETRIC	
5-81	48	8.3	0.1	ELECTROMETRIC	
5-81	49			NOT DETERMINED	
5-81	50	8.3	0.1	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1	
6-81	51	8.4	1.3	ELECTROMETRIC	
5-81	53	8.4	1.3	ELECTROMETRIC	
5-81	54	8.3	0.1	ELECTROMETRIC	
5-81	55	8.1	2.3	ELECTROMETRIC	
5-81	56	8.4	1.3	ELECTROMETRIC	
5-81	57	8.1	2.3	ELECTROMETRIC	
5-81	58	8.1	2.3	ELECTROMETRIC	
5-81	59	8.3	0.1	ELECTROMETRIC	
5-81	60	8.4	1.3	ELECTROMETRIC	
5-81	61	8.4	1.3	ELECTROMETRIC	
5-81	62	8.3	0.1	ELECTROMETRIC	
5-81	63	8.2	1.1	ELECTROMETRIC	
5-81	64	8.3	0.1	OTHER	
5-81	65	8.2	1.1	ELECTROMETRIC	
5-81	66	8.3	0.1	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1	
5-81	67	8.4	1.3	ELECTROMETRIC	
6-81	68	8.4	1.3	ELECTROMETRIC	
5-81	69	8.4	1.3	ELECTROMETRIC	
5-81	70			NOT DETERMINED	
5-81	71	8.2	1.1	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1	
5-81	72	8.3	0.1	ELECTROMETRIC	
6-81	73	8.3	0.1	ELECTROMETRIC	
5-81	75	8.4	1.3	ELECTROMETRIC	
5-81	76			NOT DETERMINED	
6-81	77	8.3	0.1	ELECTROMETRIC	
6-81	78	8.3	0.1	ELECTROMETRIC	
6-81	79	8.2	1.1	ELECTROMETRIC	
6-81	81	8.9	7.4	REJECT	
6-81	82	8.3	0.1	ELECTROMETRIC	

TOTAL RANGE	8.0000	-	8.9000						SAMPLE 76
MEAN	8.2893		AVERAGE DEVIATION	0.0902					
STANDARD DEVIATION	0.1217		95 PCT.CONF.INTVL OF MEAN	8.2893 +0R-	0.0300				PH

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR B
5-81	1			NOT DETERMINED
5-81	2	390	6.5	EMISSION-PLASMA ICP
5-81	3			NOT DETERMINED
5-81	4	440	5.5	OTHER
5-81	5			NOT DETERMINED
5-81	6			NOT DETERMINED
6-81	7	390	6.5	EMISSION-PLASMA ICP
6-81	8			NOT DETERMINED
5-81	9	430	3.1	DIANTHRIMIDE, I-1110, USGS TWRI BK5 CH A1
5-81	10	430	3.1	DIANTHRIMIDE, I-1110, USGS TWRI BK5 CH A1
5-81	11			NOT DETERMINED
5-81	12			NOT DETERMINED
5-81	13			NOT DETERMINED
5-81	14			NOT DETERMINED
5-81	15	370	11.3	CURCUMIN, APHA STD METH, 14ED
5-81	16	410	1.7	DIANTHRIMIDE, I-1110, USGS TWRI BK5 CH A1
5-81	17			NOT DETERMINED
6-81	18			NOT DETERMINED
5-81	19			NOT DETERMINED
5-81	20			NOT DETERMINED
6-81	22	370	11.3	EMISSION-PLASMA ICP
5-81	23			NOT DETERMINED
5-81	24			NOT DETERMINED
5-81	25			NOT DETERMINED
5-81	27	310	25.7	CURCUMIN, APHA STD METH, 14ED
5-81	29	380	8.9	EMISSION-PLASMA ICP
4-81	30	380	8.9	EMISSION-PLASMA ICP
5-81	31	390	6.5	EMISSION-PLASMA ICP
6-81	32			NOT DETERMINED
5-81	33			NOT DETERMINED
5-81	35			NOT DETERMINED
5-81	36			NOT DETERMINED
5-81	37			NOT DETERMINED
6-81	38			NOT DETERMINED
5-81	39			NOT DETERMINED
6-81	40	380	8.9	EMISSION-PLASMA ICP
5-81	42			NOT DETERMINED
6-81	43			NOT DETERMINED
6-81	44			NOT DETERMINED
6-81	45			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	B
5-81	46	430	3.1	CARMINE, APHA STD METH, 14ED	
4-81	47			NOT DETERMINED	
5-81	48			NOT DETERMINED	
5-81	49	420	0.7	EMISSION-PLASMA ICP	
5-81	50	1000	139.8	REJECT CARMINIC ACID, I-1111, USGS TWRI BK5 CH A1	
6-81	51			NOT DETERMINED	
5-81	53	400	4.1	CARMINE, APHA STD METH, 14ED	
5-81	54			NOT DETERMINED	
5-81	55			NOT DETERMINED	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58			NOT DETERMINED	
5-81	59	560	34.3	TECHNICON AUTOANALYZER, CARMINIC ACID	
5-81	60			NOT DETERMINED	
5-81	61			NOT DETERMINED	
5-81	62			NOT DETERMINED	
5-81	63	400	4.1	OTHER	
5-81	64			NOT DETERMINED	
5-81	65			NOT DETERMINED	
5-81	66			NOT DETERMINED	
5-81	67	360	13.7	EMISSION-PLASMA DC	
6-81	68			NOT DETERMINED	
5-81	69	430	3.1	CURCUMIN, APHA STD METH, 14ED	
5-81	70			NOT DETERMINED	
5-81	71	380	8.9	EMISSION-PLASMA DC	
5-81	72			NOT DETERMINED	
6-81	73	520	24.7	CARMINE, APHA STD METH, 14ED	
5-81	75			NOT DETERMINED	
5-81	76			NOT DETERMINED	
6-81	77	500	19.9	CURCUMIN, APHA STD METH, 14ED	
6-81	78			NOT DETERMINED	
6-81	79	540	29.5	CURCUMIN, APHA STD METH, 14ED	
6-81	81			NOT DETERMINED	
6-81	82			NOT DETERMINED	

TOTAL RANGE	310.0000	-	1000.0000						SAMPLE 76
MEAN	417.0833		AVERAGE DEVIATION	44.0972					
STANDARD DEVIATION	59.5986		95 PCT.CONF.INTVL OF MEAN	417.0833	+OR-	25.1704			B

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SR
5-81	1			NOT DETERMINED
5-81	2			NOT DETERMINED
5-81	3			NOT DETERMINED
5-81	4			NOT DETERMINED
5-81	5			NOT DETERMINED
5-81	6			NOT DETERMINED
6-81	7	2700	2.8	EMISSION PLASMA ICP
6-81	8			NOT DETERMINED
5-81	9	2900	4.4	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
5-81	10	2900	4.4	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
5-81	11			NOT DETERMINED
5-81	12			NOT DETERMINED
5-81	13			NOT DETERMINED
5-81	14			NOT DETERMINED
5-81	15	2500	10.0	ATOMIC ABS-DIRECT
5-81	16	2900	4.4	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
5-81	17			NOT DETERMINED
6-81	18			NOT DETERMINED
5-81	19			NOT DETERMINED
5-81	20			NOT DETERMINED
6-81	22			NOT DETERMINED
5-81	23			NOT DETERMINED
5-81	24	2700	2.8	EMISSION PLASMA ICP
5-81	25			NOT DETERMINED
5-81	27			NOT DETERMINED
5-81	29	2700	2.8	EMISSION PLASMA ICP
4-81	30	2600	6.4	EMISSION PLASMA ICP
5-81	31			NOT DETERMINED
6-81	32			NOT DETERMINED
5-81	33			NOT DETERMINED
5-81	35			NOT DETERMINED
5-81	36			NOT DETERMINED
5-81	37			NOT DETERMINED
6-81	38			NOT DETERMINED
5-81	39			NOT DETERMINED
6-81	40	2900	4.4	EMISSION PLASMA ICP
5-81	42			NOT DETERMINED
6-81	43			NOT DETERMINED
6-81	44			NOT DETERMINED
6-81	45			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	SR
5-81	46	2800	0.8	ATOMIC ABS-DIRECT	
4-81	47			NOT DETERMINED	
5-81	48			NOT DETERMINED	
5-81	49	2700	2.8	EMISSION PLASMA ICP	
5-81	50	1500	46.0	REJECT ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	
6-81	51			NOT DETERMINED	
5-81	53	2600	6.4	ATOMIC ABS-DIRECT	
5-81	54			NOT DETERMINED	
5-81	55			NOT DETERMINED	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58			NOT DETERMINED	
5-81	59			NOT DETERMINED	
5-81	60			NOT DETERMINED	
5-81	61	2900	4.4	OTHER	
5-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	65			NOT DETERMINED	
5-81	66	2800	0.8	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	
5-81	67			NOT DETERMINED	
6-81	68			NOT DETERMINED	
5-81	69	2900	4.4	ATOMIC ABS-DIRECT	
5-81	70	2900	4.4	EMISSION PLASMA ICP	
5-81	71	2800	0.8	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	
5-81	72			NOT DETERMINED	
6-81	73			NOT DETERMINED	
5-81	75			NOT DETERMINED	
5-81	76			NOT DETERMINED	
6-81	77			NOT DETERMINED	
6-81	78			NOT DETERMINED	
6-81	79			NOT DETERMINED	
6-81	81			NOT DETERMINED	
6-81	82			NOT DETERMINED	

TOTAL RANGE	1500.0000 - 2900.0000					SAMPLE 76
MEAN	2776.4705	AVERAGE DEVIATION	110.0346			
STANDARD DEVIATION	130.0451	95 PCT.CONF.INTVL OF MEAN	2776.4705 +0R-	66.8660		SR

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	V
5-81	1			NOT DETERMINED	
5-81	2			NOT DETERMINED	
5-81	3			NOT DETERMINED	
5-81	4			NOT DETERMINED	
5-81	5			NOT DETERMINED	
5-81	6			NOT DETERMINED	
6-81	7	5	43.9	EMISSION-PLASMA ICP	
6-81	8			NOT DETERMINED	
5-81	9	4	55.1	ATOMIC ASB-FLAMELESS	
5-81	10	4	55.1	ATOMIC ASB-FLAMELESS	
5-81	11			NOT DETERMINED	
5-81	12			NOT DETERMINED	
5-81	13			NOT DETERMINED	
5-81	14			NOT DETERMINED	
5-81	15			NOT DETERMINED	
5-81	16	9	0.9	CATALYTIC OXIDATION, I-1880, USGS TWRI BK5 CH A1	
5-81	17			NOT DETERMINED	
6-81	18			NOT DETERMINED	
5-81	19			NOT DETERMINED	
5-81	20			NOT DETERMINED	
6-81	22			NOT DETERMINED	
5-81	23			NOT DETERMINED	
5-81	24			NOT DETERMINED	
5-81	25			NOT DETERMINED	
5-81	27	8	10.3	ATOMIC ASB-FLAMELESS	
5-81	29			NOT DETERMINED	
4-81	30	6	32.7	EMISSION-PLASMA ICP	
5-81	31	6	32.7	EMISSION-PLASMA ICP	
6-81	32			NOT DETERMINED	
5-81	33			NOT DETERMINED	
5-81	35			NOT DETERMINED	
5-81	36			NOT DETERMINED	
5-81	37			NOT DETERMINED	
6-81	38			NOT DETERMINED	
5-81	39			NOT DETERMINED	
6-81	40	6	32.7	EMISSION-PLASMA ICP	
5-81	42			NOT DETERMINED	
6-81	43			NOT DETERMINED	
6-81	44			NOT DETERMINED	
6-81	45			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	V
5-81	46	8	10.3	GALLIC ACID, ALPHA STD METH, 14ED	
4-81	47			NOT DETERMINED	
5-81	48			NOT DETERMINED	
5-81	49			NOT DETERMINED	
5-81	50			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	53			NOT DETERMINED	
5-81	54			NOT DETERMINED	
5-81	55			NOT DETERMINED	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58			NOT DETERMINED	
5-81	59			NOT DETERMINED	
5-81	60			NOT DETERMINED	
5-81	61	10	12.1	ATOMIC ASB-FLAMELESS	
5-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	65			NOT DETERMINED	
5-81	66			NOT DETERMINED	
5-81	67			NOT DETERMINED	
6-81	68			NOT DETERMINED	
5-81	69			NOT DETERMINED	
5-81	70			NOT DETERMINED	
5-81	71	21	135.5	CATALYTIC OXIDATION, AUTO, I-2880, USGS TWRI BK 5 CH A1	
5-81	72			NOT DETERMINED	
6-81	73			NOT DETERMINED	
5-81	75			NOT DETERMINED	
5-81	76			NOT DETERMINED	
6-81	77	20	124.3	OTHER	
6-81	78			NOT DETERMINED	
6-81	79			NOT DETERMINED	
6-81	81	40	348.6	REJECT OTHER	
6-81	82			NOT DETERMINED	

TOTAL RANGE	4.0000	-	40.0000			SAMPLE 76
MEAN	8.9167		AVERAGE DEVIATION	4.0556		
STANDARD DEVIATION	5.7281		95 PCT.CONF.INTVL OF MEAN	8.9167 +0R-	3.6395	V

DETERMINATION	NO. LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN		
			95 PCT. CI	X +OR- STD	X +OR- 2STD
SI02	44	2	40	77	91
CA	65	8	37	75	90
MG	65	6	62	77	92
NA	64	8	0	80	93
K	60	5	30	81	93
ALK.	58	7	30	78	93
SU4	57	4	33	71	95
CL	63	13	29	73	96
F	49	4	47	79	91
NO2-N	41	20	45	73	94
NO3-N	53	9	33	71	96
P, TOTAL	43	2	69	86	90
DSRU180	51	4	22	59	96
SP. COND	62	11	25	73	95
PH	67	1	39	79	95
B	25	4	38	79	92
SR	18	6	18	82	94
V	13	8	58	83	92

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR AL
5-81	1			NOT DETERMINED
5-81	2	750	0.9	EMISSION PLASMA ICP
5-81	3	800	5.7	ATOMIC ABS-DIRECT
5-81	4	950	25.6	ATOMIC ABS-DIRECT
5-81	5			NOT DETERMINED
5-81	6			NOT DETERMINED
6-81	7	1300	71.8	EMISSION PLASMA ICP
6-81	8	780	3.1	ATOMIC ABS-DIRECT
6-81	9	600	20.7	ATOMIC ABS-DIRECT, I-1051, USGS TWRI BK5 CH A1
6-81	10	600	20.7	ATOMIC ABS-DIRECT, I-1051, USGS TWRI BK5 CH A1
5-81	11			NOT DETERMINED
5-81	12			NOT DETERMINED
5-81	13	730	3.5	ATOMIC ABS-FLAMELESS
5-81	15	960	26.9	ATOMIC ABS-FLAMELESS
5-81	16	750	0.9	FERRON-ORTHOPHENANTHROLINE, I-1050, USGS TWRI BK5 CH A1
5-81	17			NOT DETERMINED
6-81	18	820	8.4	ATOMIC ABS-DIRECT
5-81	19			NOT DETERMINED
6-81	21	80	89.4	ATOMIC ABS-FLAMELESS
5-81	22	670	11.4	EMISSION PLASMA ICP
5-81	23			NOT DETERMINED
5-81	24			NOT DETERMINED
5-81	27	640	15.4	ATOMIC ABS-FLAMELESS
5-81	28	950	25.6	ATOMIC ABS-DIRECT
5-81	29	570	24.7	OTHER
4-81	30			NOT DETERMINED
5-81	31	930	22.9	EMISSION PLASMA ICP
6-81	32			NOT DETERMINED
5-81	33	740	2.2	ATOMIC ABS-DIRECT
5-81	35	600	20.7	ATOMIC ABS-DIRECT
5-81	36	1400	85.0	ATOMIC ABS-FLAMELESS
5-81	37			NOT DETERMINED
6-81	38			NOT DETERMINED
5-81	39	1000	32.2	ATOMIC ABS-DIRECT
6-81	40	760	0.5	EMISSION PLASMA ICP
5-81	42			NOT DETERMINED
6-81	43	800	5.7	ATOMIC ABS-DIRECT
6-81	44			NOT DETERMINED
6-81	45			NOT DETERMINED
4-81	47			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	AL
5-81	48			NOT DETERMINED	
5-29	49	770	1.8	EMISSION PLASMA ICP	
5-81	50			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	53			NOT DETERMINED	
5-81	54	690	8.8	ATOMIC ABS-DIRECT	
5-81	55	5100	574.1	REJECT OTHER	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58	260	65.6	ATOMIC ABS-DIRECT	
5-81	59	730	3.5	ATOMIC ABS-DIRECT	
5-81	60			NOT DETERMINED	
6-81	61	930	22.9	ATOMIC ABS-FLAMELESS	
6-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	67	960	26.9	EMISSION-PLASMA DC	
6-81	68			NOT DETERMINED	
5-81	69	700	7.5	ATOMIC ABS-DIRECT	
5-81	70			NOT DETERMINED	
5-81	71	470	37.9	ATOMIC ABS-CHELATION/EXTRACTION, I-1052, USGS PROVISIONAL	
5-81	72	740	2.2	ATOMIC ABS-DIRECT	
6-81	73			NOT DETERMINED	
5-81	75			NOT DETERMINED	
6-81	77	640	15.4	ATOMIC ABS-DIRECT	
6-81	78			NOT DETERMINED	
6-81	79			NOT DETERMINED	
6-81	81	1300	71.8	ATOMIC ABS-DIRECT	
6-81	82	110	85.5	ATOMIC ABS-DIRECT	

TOTAL RANGE 80.0000 - 5100.0000

MEAN 756.5713

AVERAGE DEVIATION

188.8485

SAMPLE 77

STANDARD DEVIATION

279.0415

95 PCT.CONF.INTVL OF MEAN

756.5713 +OR-

95.7482

AL

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR FE
5-81	1	730	13.9	ATOMIC ABS-DIRECT
5-81	2	650	1.4	EMISSION-PLASMA ICP
5-81	3	650	1.4	ATOMIC ABS-DIRECT
5-81	4	620	3.3	ATOMIC ABS-DIRECT, EPA
5-81	5	590	7.9	ATOMIC ABS-DIRECT, EPA
5-81	6	580	9.5	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1
6-81	7	640	0.1	EMISSION-PLASMA ICP
6-81	8	630	1.7	ATOMIC ABS-DIRECT
6-81	9			NOT DETERMINED
6-81	10			NOT DETERMINED
5-81	11	60	90.6	REJECT ATOMIC ABS-DIRECT, EPA
5-81	12	1000	56.0	REJECT ATOMIC ABS-DIRECT, EPA
5-81	13	710	10.8	ATOMIC ABS-DIRECT
5-81	15			NOT DETERMINED
5-81	16	700	9.2	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1
5-81	17	590	7.9	ATOMIC ABS-DIRECT
6-81	18	680	6.1	ATOMIC ABS-DIRECT, EPA
5-81	19	570	11.1	ATOMIC ABS-DIRECT, EPA
6-81	21	70	89.1	REJECT ATOMIC ABS-FLAMELESS
5-81	22	660	3.0	EMISSION-PLASMA ICP
5-81	23			NOT DETERMINED
5-81	24	660	3.0	EMISSION-PLASMA ICP
5-81	27	620	3.3	ATOMIC ABS-DIRECT, EPA
5-81	28	700	9.2	ATOMIC ABS-DIRECT, EPA
5-81	29	60	90.6	REJECT ATOMIC ABS-DIRECT
4-81	30	680	6.1	EMISSION-PLASMA ICP
5-81	31	670	4.5	EMISSION-PLASMA ICP
6-81	32	160	75.0	REJECT ATOMIC ABS-FLAMELESS
5-81	33	550	14.2	ATOMIC ABS-FLAMELESS
5-81	35	600	6.4	ATOMIC ABS-DIRECT, EPA
5-81	36	3200	399.3	REJECT ATOMIC ABS-DIRECT
5-81	37	680	6.1	OTHER
6-81	38	700	9.2	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1
5-81	39	700	9.2	ATOMIC ABS-DIRECT
6-81	40	650	1.4	EMISSION-PLASMA ICP
5-81	42	640	0.1	ATOMIC ABS-FLAMELESS
6-81	43	510	20.4	ATOMIC ABS-DIRECT, EPA
6-81	44	490	23.5	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1
6-81	45	710	10.8	ATOMIC ABS-DIRECT, EPA
4-81	47	640	0.1	ATOMIC ABS-FLAMELESS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR FE
5-81	48	390	39.1	REJECT	ATOMIC ABS-DIRECT
5-29	49	590	7.9		EMISSION-PLASMA ICP
5-81	50	530	17.3		ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1
6-81	51	600	6.4		ATOMIC ABS-DIRECT
5-81	53	690	7.7		ATOMIC ABS-DIRECT, EPA
5-81	54	540	15.7		ATOMIC ABS-DIRECT, EPA
5-81	55	670	4.5		ATOMIC ABS-DIRECT, EPA
5-81	56	620	3.3		ATOMIC ABS-DIRECT
5-81	57	660	3.0		ATOMIC ABS-DIRECT
5-81	58	640	0.1		ATOMIC ABS-DIRECT, EPA
5-81	59				NOT DETERMINED
5-81	60	580	9.5		ATOMIC ABS-DIRECT
6-81	61	770	20.1		ATOMIC ABS-FLAMELESS
6-81	62	700	9.2		ATOMIC ABS-DIRECT
5-81	63	870	35.7	REJECT	PHENANTHROLINE, APHA STD METH, 14ED
5-81	64	800	24.8		OTHER
5-81	67	680	6.1		EMISSION-PLASMA DC
6-81	68	600	0.4		OTHER
5-81	69	480	25.1		ATOMIC ABS-DIRECT, EPA
5-81	70	660	3.0		EMISSION-PLASMA ICP
5-81	71	670	4.5		ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1
5-81	72	660	3.0		ATOMIC ABS-DIRECT
6-81	73	700	9.2		ATOMIC ABS-DIRECT
5-81	75	720	12.3		ATOMIC ABS-DIRECT
6-81	77	600	6.4		ATOMIC ABS-DIRECT
6-81	78	620	3.3		ATOMIC ABS-DIRECT
6-81	79	620	3.3		ATOMIC ABS-DIRECT, EPA
6-81	81	650	1.4		ATOMIC ABS-DIRECT
6-81	82	170	73.5	REJECT	ATOMIC ABS-DIRECT

TOTAL RANGE 60.0000 - 3200.0000
MEAN 640.9089 AVERAGE DEVIATION 49.9504 SAMPLE 77
STANDARD DEVIATION 64.6434 95 PCT.CONF.INTVL OF MEAN 640.9089 +OR- 17.4679 FE

38 632.4 ± 66.1

6 471.7 ± 286.5

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR MN
5-81	1	570	15.6	ATOMIC ABS-DIRECT
5-81	2	480	2.7	EMISSION-PLASMA ICP
5-81	3	520	5.5	ATOMIC ABS-DIRECT
5-81	4	500	1.4	ATOMIC ABS-DIRECT, EPA
5-81	5	490	0.6	ATOMIC ABS-DIRECT, EPA
5-81	6	490	0.6	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1
6-81	7	480	2.7	EMISSION-PLASMA ICP
6-81	8			NOT DETERMINED
6-81	9	480	2.7	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1
6-81	10	480	2.7	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1
5-81	11	440	10.8	ATOMIC ABS-DIRECT, EPA
5-81	12	540	9.5	ATOMIC ABS-DIRECT, EPA
5-81	13	500	1.4	ATOMIC ABS-DIRECT
5-81	15			NOT DETERMINED
5-81	16	510	3.4	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1
5-81	17	470	4.7	ATOMIC ABS-DIRECT
6-81	18	520	5.5	ATOMIC ABS-DIRECT, EPA
5-81	19	520	5.5	ATOMIC ABS-DIRECT, EPA
6-81	21	50	89.9	REJECT ATOMIC ABS-FLAMELESS
5-81	22	500	1.4	EMISSION-PLASMA ICP
5-81	23			NOT DETERMINED
5-81	24	510	3.4	EMISSION-PLASMA ICP
5-81	27	530	7.5	ATOMIC ABS-DIRECT, EPA
5-81	28	470	4.7	ATOMIC ABS-DIRECT, EPA
5-81	29	480	2.7	EMISSION-PLASMA ICP
4-81	30	500	1.4	EMISSION-PLASMA ICP
5-81	31	500	1.4	EMISSION-PLASMA ICP
6-81	32	410	16.9	ATOMIC ABS-FLAMELESS
5-81	33	550	11.5	ATOMIC ABS-DIRECT, EPA
5-81	35	480	2.7	ATOMIC ABS-DIRECT, EPA
5-81	36	530	7.5	ATOMIC ABS-DIRECT
5-81	37	570	15.6	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1
6-81	38			NOT DETERMINED
5-81	39	520	5.5	ATOMIC ABS-DIRECT
6-81	40	490	0.6	EMISSION-PLASMA ICP
5-81	42	450	8.7	ATOMIC ABS-FLAMELESS
6-81	43	0	100.0	REJECT ATOMIC ABS-DIRECT, EPA
6-81	44	500	1.4	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1
6-81	45	500	1.4	EMISSION-PLASMA ICP
4-81	47	450	8.7	ATOMIC ABS-FLAMELESS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR MN
5-81	48	490	0.6	ATOMIC ABS-DIRECT
5-29	49	480	2.7	EMISSION-PLASMA ICP
5-81	50			NOT DETERMINED
6-81	51			NOT DETERMINED
5-81	53	520	5.5	ATOMIC ABS-DIRECT, EPA
5-81	54	390	20.9	ATOMIC ABS-DIRECT, EPA
5-81	55			NOT DETERMINED
5-81	56	560	13.6	ATOMIC ABS-DIRECT
5-81	57	440	10.8	ATOMIC ABS-DIRECT
5-81	58	390	20.9	ATOMIC ABS-DIRECT, EPA
5-81	59	500	1.4	ATOMIC ABS-DIRECT
5-81	60	490	0.6	ATOMIC ABS-DIRECT
6-81	61	540	9.5	ATOMIC ABS-DIRECT
6-81	62	500	1.4	ATOMIC ABS-FLAMELESS
5-81	63	450	8.7	ATOMIC ABS-DIRECT
5-81	64	550	11.5	ATOMIC ABS-DIRECT
5-81	67	530	7.5	OTHER
6-81	68	400	18.9	EMISSION-PLASMA DC
5-81	69	410	16.9	OTHER
5-81	70	510	3.4	ATOMIC ABS-DIRECT, EPA
5-81	71	510	3.4	EMISSION-PLASMA ICP
5-81	72	500	1.4	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BKS CH A1
6-81	73			ATOMIC ABS-DIRECT
5-81	75	550	11.5	NOT DETERMINED
6-81	77	470	4.7	ATOMIC ABS-DIRECT
6-81	78	500	1.4	ATOMIC ABS-DIRECT
5-81	79	490	0.6	ATOMIC ABS-DIRECT
6-81	81	500	1.4	ATOMIC ABS-DIRECT, EPA
6-81	82	60	87.8	REJECT ATOMIC ABS-DIRECT
				ATOMIC ABS-FLAMELESS

TOTAL RANGE	0.0	-	570.0000		
MEAN	493.1033	AVERAGE DEVIATION	30.3686		SAMPLE 77
STANDARD DEVIATION	41.3884	95 PCT.CONF.INTVL OF MEAN	493.1033 +OR-	10.8909	MN

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	SB
5-81	1			NOT DETERMINED	
5-81	2			NOT DETERMINED	
5-81	3			NOT DETERMINED	
5-81	4	3	91.6	ATOMIC ABS-FLAMELESS	
5-81	5			NOT DETERMINED	
5-81	6			NOT DETERMINED	
6-81	7			NOT DETERMINED	
6-81	8			NOT DETERMINED	
6-81	9			NOT DETERMINED	
6-81	10			NOT DETERMINED	
5-81	11			NOT DETERMINED	
5-81	12			NOT DETERMINED	
5-81	13			NOT DETERMINED	
5-81	15			NOT DETERMINED	
5-81	16	5	86.0	ATOMIC ABS-HYDRIDE, I-1055, USGS TWRI BKS CH A1	
5-81	17			NOT DETERMINED	
6-81	18			NOT DETERMINED	
5-81	19			NOT DETERMINED	
6-81	21			NOT DETERMINED	
5-81	22			NOT DETERMINED	
5-81	23			NOT DETERMINED	
5-81	24			NOT DETERMINED	
5-81	27	5	86.0	ATOMIC ABS-FLAMELESS	
5-81	28			NOT DETERMINED	
5-81	29			NOT DETERMINED	
4-81	30			NOT DETERMINED	
5-81	31	5	86.0	ATOMIC ABS-HYDRIDE (SODIUM BOROHYDRIDE)	
6-81	32			NOT DETERMINED	
5-81	33			NOT DETERMINED	
5-81	35			NOT DETERMINED	
5-81	36			NOT DETERMINED	
5-81	37			NOT DETERMINED	
6-81	38			NOT DETERMINED	
5-81	39			NOT DETERMINED	
6-81	40			NOT DETERMINED	
5-81	42			NOT DETERMINED	
6-81	43			NOT DETERMINED	
6-81	44			NOT DETERMINED	
6-81	45			NOT DETERMINED	
4-81	47			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	SB
5-81	48			NOT DETERMINED	
5-29	49			NOT DETERMINED	
5-81	50			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	53			NOT DETERMINED	
5-81	54	89	148.8	OTHER	
5-81	55			NOT DETERMINED	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58			NOT DETERMINED	
5-81	59			NOT DETERMINED	
5-81	60			NOT DETERMINED	
6-81	61	5	86.0	ATOMIC ABS-FLAMELESS	
6-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	67			NOT DETERMINED	
6-81	68			NOT DETERMINED	
5-81	69			NOT DETERMINED	
5-81	70			NOT DETERMINED	
5-81	71	3	91.6	ATOMIC ABS-HYDRIDE, I-1055, USGS TWRI BKS CH A1	
5-81	72			NOT DETERMINED	
6-81	73			NOT DETERMINED	
5-81	75			NOT DETERMINED	
6-81	77	107	199.1	ATOMIC ABS-FLAMELESS	
6-81	78			NOT DETERMINED	
6-81	79			NOT DETERMINED	
6-81	81	100	179.5	OTHER	
6-81	82			NOT DETERMINED	

TOTAL RANGE	3.0000	-	107.0000			
MEAN	35.7778		AVERAGE DEVIATION	41.9259		SAMPLE 77
STANDARD DEVIATION	47.3914		95 PCT.CONF.INTVL OF MEAN	35.7778 +OR-	36.4282	SB

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR AS
5-81	1			NOT DETERMINED
5-81	2	12	11.5	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
5-81	3	10	7.0	ATOMIC ABS-FLAMELESS
5-81	4	11	2.3	ATOMIC ABS-FLAMELESS
5-81	5	22	104.5	ATOMIC ABS-FLAMELESS
5-81	6			NOT DETERMINED
6-81	7	9	16.3	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
6-81	8			NOT DETERMINED
6-81	9	16	48.7	ATOMIC ABS-FLAMELESS
6-81	10	16	48.7	ATOMIC ABS-FLAMELESS
5-81	11			NOT DETERMINED
5-81	12			NOT DETERMINED
5-81	13	7	34.9	ATOMIC ABS-FLAMELESS
5-81	15			NOT DETERMINED
5-81	16	1	90.7	ATOMIC ABS-HYDRIDE,AUTO, I-2062, USGS TWRI BK5 CH A1
5-81	17			NOT DETERMINED
6-81	18	5	53.5	ATOMIC ABS-FLAMELESS
5-81	19	26	141.7	ATOMIC ABS-FLAMELESS
6-81	21			NOT DETERMINED
5-81	22	11	2.3	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
5-81	23			NOT DETERMINED
5-81	24			NOT DETERMINED
5-81	27	7	34.9	ATOMIC ABS-FLAMELESS
5-81	28	12	11.5	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
5-81	29	13	20.8	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
4-81	30	11	2.3	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
5-81	31	11	2.3	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
6-81	32	10	7.0	ATOMIC ABS-HYDRIDE(ZINC), APHA STD METH, 14ED
5-81	33	1	90.7	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
5-81	35	10	7.0	ATOMIC ABS-FLAMELESS
5-81	36	9	16.3	ATOMIC ABS-FLAMELESS
5-81	37			NOT DETERMINED
6-81	38	11	2.3	ATOMIC ABS-FLAMELESS
5-81	39			NOT DETERMINED
6-81	40			NOT DETERMINED
5-81	42	10	7.0	ATOMIC ABS-FLAMELESS
6-81	43			NOT DETERMINED
6-81	44			NOT DETERMINED
6-81	45			NOT DETERMINED
4-81	47			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	AS
5-81	48			NOT DETERMINED	
5-29	49			NOT DETERMINED	
5-81	50			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	53			NOT DETERMINED	
5-81	54	10	7.0	ATOMIC	ABS-FLAMELESS
5-81	55			NOT DETERMINED	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58	19	76.6	ATOMIC	ABS-FLAMELESS
5-81	59			NOT DETERMINED	
5-81	60			NOT DETERMINED	
6-81	61	4	62.8	ATOMIC	ABS-FLAMELESS
6-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	67			NOT DETERMINED	
6-81	68	3	72.1	ATOMIC	ABS-FLAMELESS
5-81	69	18	67.3	ATOMIC	ABS-HYDRIDE(SODIUM BOROHYDRIDE)
5-81	70			NOT DETERMINED	
5-81	71	2	81.4	ATOMIC	ABS-HYDRIDE,AUTO, I-2062, USGS TWRI BK5 CH A1
5-81	72	10	7.0	ATOMIC	ABS-FLAMELESS
6-81	73	11	2.3	ATOMIC	ABS-FLAMELESS
5-81	75	64	494.9	REJECT	ATOMIC ABS-HYDRIDE(ZINC), APHA STD METH, 14ED
6-81	77	8	25.6	ATOMIC	ABS-FLAMELESS
6-81	78	19	76.6	ATOMIC	ABS-FLAMELESS
6-81	79			NOT DETERMINED	
6-81	81			NOT DETERMINED	
6-81	82			NOT DETERMINED	

TOTAL RANGE	1.0000	-	64.0000			
MEAN	10.7576		AVERAGE DEVIATION	4.0533		SAMPLE 77
STANDARD DEVIATION	5.7610		95 PCT.CONF.INTVL OF MEAN	10.7576 +OR-	2.0358	AS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	BA
5-81	1			NOT DETERMINED	
5-81	2			NOT DETERMINED	
5-81	3	100	26.0	ATOMIC ABS-DIRECT	
5-81	4	90	13.4	ATOMIC ABS-DIRECT	
5-81	5			NOT DETERMINED	
5-81	6			NOT DETERMINED	
6-81	7	160	101.6	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1	
6-81	8			NOT DETERMINED	
6-81	9	490	517.5	REJECT ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1	
6-81	10	490	517.5	REJECT ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1	
5-81	11			NOT DETERMINED	
5-81	12			NOT DETERMINED	
5-81	13	130	63.8	ATOMIC ABS-FLAMELESS	
5-81	15			NOT DETERMINED	
5-81	16	100	26.0	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1	
5-81	17			NOT DETERMINED	
6-81	18	50	37.0	ATOMIC ABS-DIRECT	
5-81	19	3900	*****	REJECT ATOMIC ABS-DIRECT	
6-81	21	10	87.4	ATOMIC ABS-FLAMELESS	
5-81	22	60	24.4	EMISSION PLASMA ICP	
5-81	23			NOT DETERMINED	
5-81	24	70	11.8	EMISSION PLASMA ICP	
5-81	27	30	62.2	ATOMIC ABS-DIRECT	
5-81	28			NOT DETERMINED	
5-81	29	60	24.4	EMISSION PLASMA ICP	
4-81	30	320	303.3	REJECT EMISSION PLASMA ICP	
5-81	31	70	11.8	EMISSION PLASMA ICP	
6-81	32	70	11.8	ATOMIC ABS-FLAMELESS	
5-81	33	90	13.4	ATOMIC ABS-FLAMELESS	
5-81	35			NOT DETERMINED	
5-81	36	170	114.2	ATOMIC ABS-FLAMELESS	
5-81	37			NOT DETERMINED	
6-81	38			NOT DETERMINED	
5-81	39			NOT DETERMINED	
6-81	40	70	11.8	EMISSION PLASMA ICP	
5-81	42			NOT DETERMINED	
6-81	43	80	0.8	ATOMIC ABS-DIRECT	
6-81	44			NOT DETERMINED	
6-81	45			NOT DETERMINED	
4-81	47			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	BA
5-81	48			NOT DETERMINED	
5-29	49				
5-81	50	60	24.4	EMISSION PLASMA ICP	
6-81	51			NOT DETERMINED	
5-81	53			NOT DETERMINED	
5-81	54	50	37.0	NOT DETERMINED	
5-81	55	0	100.0	ATOMIC ABS-DIRECT	
5-81	56			ATOMIC ABS-DIRECT	
5-81	57			NOT DETERMINED	
5-81	58			NOT DETERMINED	
5-81	59	220	177.2	REJECT ATOMIC ABS-FLAMELESS	
5-81	60			NOT DETERMINED	
6-81	61	80	0.8	NOT DETERMINED	
6-81	62			ATOMIC ABS-FLAMELESS	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	67	90	13.4	NOT DETERMINED	
6-81	68			EMISSION PLASMA DC	
5-81	69	120	51.2	NOT DETERMINED	
5-81	70	70	11.8	ATOMIC ABS-DIRECT	
5-81	71	100	26.0	EMISSION PLASMA ICP	
5-81	72	60	24.4	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1	
6-81	73	90	13.4	ATOMIC ABS-DIRECT	
5-81	75	80	0.8	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1	
6-81	77	60	24.4	ATOMIC ABS-DIRECT	
6-81	78			ATOMIC ABS-DIRECT	
6-81	79	90	13.4	NOT DETERMINED	
6-81	81	100	26.0	ATOMIC ABS-FLAMELESS	
6-81	82			ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1	
				NOT DETERMINED	

TOTAL RANGE	0.0	- 3900.0000			
MEAN		79.3548	AVERAGE DEVIATION	25.8272	SAMPLE 77
STANDARD DEVIATION		35.9569	95 PCT.CONF.INTVL OF MEAN	79.3548 +OR- 13.1873	BA

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	BE
5-81	1			NOT DETERMINED	
5-81	2			NOT DETERMINED	
5-81	3			NOT DETERMINED	
5-81	4	0	100.0	ATOMIC ABS-DIRECT	
5-81	5			NOT DETERMINED	
5-81	6			NOT DETERMINED	
6-81	7			NOT DETERMINED	
6-81	8			NOT DETERMINED	
6-81	9			NOT DETERMINED	
6-81	10			NOT DETERMINED	
5-81	11			NOT DETERMINED	
5-81	12			NOT DETERMINED	
5-81	13			NOT DETERMINED	
5-81	15	38	578.6	REJECT ATOMIC ABS-FLAMELESS	
5-81	16	10	78.6	ATOMIC ABS-DIRECT, I-1095, TWRI BK5 CH A1	
5-81	17			NOT DETERMINED	
6-81	18			NOT DETERMINED	
5-81	19			NOT DETERMINED	
6-81	21			NOT DETERMINED	
5-81	22			NOT DETERMINED	
5-81	23			NOT DETERMINED	
5-81	24	4	28.6	EMISSION-PLASMA ICP	
5-81	27	13	132.1	ATOMIC ABS-FLAMELESS	
5-81	28			NOT DETERMINED	
5-81	29	5	10.7	EMISSION-PLASMA ICP	
4-81	30	3	46.4	EMISSION-PLASMA ICP	
5-81	31	5	10.7	EMISSION-PLASMA ICP	
6-81	32			NOT DETERMINED	
5-81	33			NOT DETERMINED	
5-81	35			NOT DETERMINED	
5-81	36			NOT DETERMINED	
5-81	37			NOT DETERMINED	
6-81	38			NOT DETERMINED	
5-81	39			NOT DETERMINED	
6-81	40			NOT DETERMINED	
5-81	42			NOT DETERMINED	
6-81	43			NOT DETERMINED	
6-81	44			NOT DETERMINED	
6-81	45			NOT DETERMINED	
4-81	47			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	BE
5-81	48			NOT DETERMINED	
5-29	49			NOT DETERMINED	
5-81	50			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	53			NOT DETERMINED	
5-81	54	5	10.7	ATOMIC ABS-DIRECT	
5-81	55			NOT DETERMINED	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58	3	46.4	ATOMIC ABS-DIRECT	
5-81	59			NOT DETERMINED	
5-81	60			NOT DETERMINED	
6-81	61	5	10.7	ATOMIC ABS-FLAMELESS	
6-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	67			NOT DETERMINED	
6-81	68			NOT DETERMINED	
5-81	69	6	7.1	ATOMIC ABS-DIRECT	
5-81	70	6	7.1	EMISSION-PLASMA ICP	
5-81	71	7	25.0	ATOMIC ABS-DIRECT, I-1095, TWRI BK5 CH A1	
5-81	72	6	7.1	ATOMIC ABS-DIRECT	
6-81	73			NOT DETERMINED	
5-81	75			NOT DETERMINED	
6-81	77	6	7.1	ATOMIC ABS-DIRECT	
6-81	78			NOT DETERMINED	
6-81	79			NOT DETERMINED	
6-81	81			NOT DETERMINED	
6-81	82			NOT DETERMINED	

TOTAL RANGE	0.0	-	38.0000				
MEAN		5.6000	AVERAGE DEVIATION	1.9733			SAMPLE 77
STANDARD DEVIATION		2.9952	95 PCT.CONF.INTVL OF MEAN	5.6000 +OR-	1.6589		BE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	CD
5-81	1			NOT DETERMINED	
5-81	2	18	61.8	EMISSION-PLASMA ICP	
5-81	3	8	28.1	ATOMIC ABS-DIRECT	
5-81	4	8	28.1	ATOMIC ABS-FLAMELESS	
5-81	5	10	10.1	ATOMIC ABS-DIRECT, EPA	
5-81	6			NOT DETERMINED	
6-81	7	14	25.9	EMISSION-PLASMA ICP	
6-81	8			NOT DETERMINED	
6-81	9	8	28.1	ATOMIC ABS-FLAMELESS	
6-81	10	8	28.1	ATOMIC ABS-FLAMELESS	
5-81	11	10	10.1	ATOMIC ABS-DIRECT	
5-81	12			NOT DETERMINED	
5-81	13	7	37.1	ATOMIC ABS-FLAMELESS	
5-81	15			NOT DETERMINED	
5-81	16	10	10.1	ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1	
5-81	17			NOT DETERMINED	
6-81	18	15	34.9	ATOMIC ABS-DIRECT, EPA	
5-81	19	11	1.1	ATOMIC ABS-FLAMELESS	
6-81	21			NOT DETERMINED	
5-81	22	8	28.1	ATOMIC ABS-FLAMELESS	
5-81	23			NOT DETERMINED	
5-81	24	12	7.9	EMISSION-PLASMA ICP	
5-81	27	7	37.1	ATOMIC ABS-FLAMELESS	
5-81	28	13	16.9	ATOMIC ABS-DIRECT, EPA	
5-81	29	16	43.9	ATOMIC ABS-FLAMELESS	
4-81	30	9	19.1	EMISSION-PLASMA ICP	
5-81	31	6	46.1	ATOMIC ABS-FLAMELESS	
6-81	32	10	10.1	ATOMIC ABS-FLAMELESS	
5-81	33	7	37.1	ATOMIC ABS-FLAMELESS	
5-81	35	9	19.1	ATOMIC ABS-FLAMELESS	
5-81	36	9	19.1	ATOMIC ABS-FLAMELESS	
5-81	37			NOT DETERMINED	
6-81	38	16	43.9	ATOMIC ABS-FLAMELESS	
5-81	39	10	10.1	ATOMIC ABS-FLAMELESS	
6-81	40	13	16.9	EMISSION-PLASMA ICP	
5-81	42	9	19.1	ATOMIC ABS-FLAMELESS	
6-81	43	14	25.9	ATOMIC ABS-DIRECT	
6-81	44			NOT DETERMINED	
6-81	45	20	79.8	ATOMIC ABS-DIRECT	
4-81	47	8	28.1	ATOMIC ABS-FLAMELESS	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	CD
5-81	48			NOT DETERMINED	
5-29	49	8	28.1	EMISSION-PLASMA ICP	
5-81	50			NOT DETERMINED	
6-81	51	17	52.8	ATOMIC ABS-DIRECT, EPA	
5-81	53	16	43.9	ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1	
5-81	54	11	1.1	ATOMIC ABS-DIRECT, EPA	
5-81	55	16	43.9	ATOMIC ABS-DIRECT, EPA	
5-81	56	20	79.8	ATOMIC ABS-DIRECT	
5-81	57			NOT DETERMINED	
5-81	58	9	19.1	ATOMIC ABS-DIRECT, EPA	
5-81	59	10	10.1	ATOMIC ABS-DIRECT	
5-81	60			NOT DETERMINED	
6-81	61	8	28.1	ATOMIC ABS-FLAMELESS	
6-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	67			NOT DETERMINED	
6-81	68	140	*****	REJECT	
5-81	69	10	10.1	ATOMIC ABS-FLAMELESS	
5-81	70	10	10.1	ATOMIC ABS-DIRECT, EPA	
5-81	71	9	19.1	EMISSION-PLASMA ICP	
5-81	72	8	28.1	ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1	
6-81	73	8	28.1	ATOMIC ABS-DIRECT	
5-81	75	14	25.9	ATOMIC ABS-DIRECT, EPA	
6-81	77	7	37.1	ATOMIC ABS-DIRECT	
6-81	78	11	1.1	ATOMIC ABS-FLAMELESS	
6-81	79	8	28.1	ATOMIC ABS-FLAMELESS	
6-81	81	22	97.8	ATOMIC ABS-FLAMELESS	
6-81	82			ATOMIC ABS-DIRECT	
				NOT DETERMINED	

TOTAL RANGE	6.0000	-	140.0000			
MEAN	11.1224		AVERAGE DEVIATION	3.1853		SAMPLE 77
STANDARD DEVIATION	3.9244		95 PCT.CONF.INTVL OF MEAN	11.1224 +0R-	1.1258	CD

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CR TOT
5-81	1			NOT DETERMINED
5-81	2	30	39.0	EMISSION-PLASMA ICP
5-81	3	10	53.7	ATOMIC ABS-DIRECT
5-81	4	27	25.1	ATOMIC ABS-FLAMELESS
5-81	5	42	94.6	ATOMIC ABS-FLAMELESS
5-81	6			NOT DETERMINED
6-81	7	20	7.3	EMISSION-PLASMA ICP
6-81	8			NOT DETERMINED
6-81	9	23	6.6	ATOMIC ABS-FLAMELESS
6-81	10	23	6.6	ATOMIC ABS-FLAMELESS
5-81	11	12	44.4	ATOMIC ABS-DIRECT
5-81	12	20	7.3	ATOMIC ABS-DIRECT, EPA
5-81	13	31	43.7	ATOMIC ABS-FLAMELESS
5-81	15			NOT DETERMINED
5-81	16	2	90.7	ATOMIC ABS-CHELATION/EXTRACTION, I-1238, USGS TWRI BKS CH A1
5-81	17	40	85.4	ATOMIC ABS-DIRECT
6-81	18	20	7.3	ATOMIC ABS-DIRECT, EPA
5-81	19	26	20.5	ATOMIC ABS-FLAMELESS
6-81	21	23	6.6	ATOMIC ABS-FLAMELESS
5-81	22	23	6.6	ATOMIC ABS-FLAMELESS
5-81	23			NOT DETERMINED
5-81	24			NOT DETERMINED
5-81	27	17	21.2	ATOMIC ABS-DIRECT
5-81	28			NOT DETERMINED
5-81	29	17	21.2	EMISSION-PLASMA ICP
4-81	30	17	21.2	EMISSION-PLASMA ICP
5-81	31	18	16.6	ATOMIC ABS-FLAMELESS
6-81	32	41	90.0	ATOMIC ABS-FLAMELESS
5-81	33	28	29.7	ATOMIC ABS-FLAMELESS
5-81	35	21	2.7	ATOMIC ABS-DIRECT, EPA
5-81	36	39	80.7	ATOMIC ABS-FLAMELESS
5-81	37			NOT DETERMINED
6-81	38			NOT DETERMINED
5-81	39	26	20.5	ATOMIC ABS-FLAMELESS
6-81	40	17	21.2	EMISSION-PLASMA ICP
5-81	42	19	12.0	ATOMIC ABS-FLAMELESS
6-81	43	5	76.8	ATOMIC ABS-DIRECT
6-81	44			NOT DETERMINED
6-81	45	30	39.0	ATOMIC ABS-DIRECT
4-81	47	27	25.1	ATOMIC ABS-FLAMELESS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CR TOT
5-81	48			NOT DETERMINED
5-29	49	14	35.1	EMISSION-PLASMA ICP
5-81	50			NOT DETERMINED
6-81	51	20	7.3	ATOMIC ABS-DIRECT
5-81	53	24	11.2	ATOMIC ABS-CHELATION/EXTRACTION, I-1238, USGS TWRI BK5 CH A1
5-81	54	19	12.0	ATOMIC ABS-DIRECT, EPA
5-81	55	0	100.0	ATOMIC ABS-DIRECT, EPA
5-81	56	25	15.8	ATOMIC ABS-DIRECT
5-81	57	20	7.3	ATOMIC ABS-DIRECT
5-81	58	20	7.3	ATOMIC ABS-DIRECT, EPA
5-81	59			NOT DETERMINED
5-81	60	22	1.9	ATOMIC ABS-FLAMELESS
6-81	61	20	7.3	ATOMIC ABS-FLAMELESS
6-81	62			NOT DETERMINED
5-81	63			NOT DETERMINED
5-81	64			NOT DETERMINED
5-81	67	20	7.3	EMISSION-PLASMA DC
6-81	68	210	873.1	REJECT OTHER
5-81	69	20	7.3	ATOMIC ABS-DIRECT, EPA
5-81	70			NOT DETERMINED
5-81	71	23	6.6	ATOMIC ABS-DIRECT, I-1236, USGS TWRI BK5 CH A1
5-81	72	18	16.6	ATOMIC ABS-DIRECT
6-81	73	2	90.7	ATOMIC ABS-DIRECT
5-81	75	20	7.3	ATOMIC ABS-DIRECT
6-81	77	20	7.3	ATOMIC ABS-DIRECT
6-81	78	23	6.6	ATOMIC ABS-DIRECT
6-81	79	30	39.0	ATOMIC ABS-FLAMELESS
6-81	81	25	15.8	ATOMIC ABS-DIRECT
6-81	82			NOT DETERMINED

TOTAL RANGE	0.0	-	210.0000			SAMPLE 77
MEAN	21.5800	AVERAGE DEVIATION	6.1864			
STANDARD DEVIATION	8.8758	95 PCT.CONF.INTVL OF MEAN	21.5800 +OR-	2.5205	CR TOT,	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	CO
5-81	1			NOT DETERMINED	
5-81	2			NOT DETERMINED	
5-81	3			NOT DETERMINED	
5-81	4	0	100.0	ATOMIC ABS-FLAMELESS	
5-81	5			NOT DETERMINED	
5-81	6			NOT DETERMINED	
6-81	7			NOT DETERMINED	
6-81	8			NOT DETERMINED	
6-81	9	6	39.1	ATOMIC ABS-FLAMELESS	
6-81	10	6	39.1	ATOMIC ABS-FLAMELESS	
5-81	11			NOT DETERMINED	
5-81	12			NOT DETERMINED	
5-81	13			NOT DETERMINED	
5-81	15			NOT DETERMINED	
5-81	16	2	53.6	ATOMIC ABS-CHELATION/EXTRACTION, I-1240, USGS TWRI BKS CH A1	
5-81	17			NOT DETERMINED	
6-81	18	30	595.7	REJECT OTHER	
5-81	19			NOT DETERMINED	
6-81	21			NOT DETERMINED	
5-81	22			NOT DETERMINED	
5-81	23			NOT DETERMINED	
5-81	24	9	108.7	EMISSION-PLASMA ICP	
5-81	27	4	7.2	ATOMIC ABS-FLAMELESS	
5-81	28			NOT DETERMINED	
5-81	29			NOT DETERMINED	
4-81	30	0	100.0	EMISSION-PLASMA ICP	
5-81	31	3	30.4	ATOMIC ABS-FLAMELESS	
6-81	32			NOT DETERMINED	
5-81	33			NOT DETERMINED	
5-81	35			NOT DETERMINED	
5-81	36			NOT DETERMINED	
5-81	37			NOT DETERMINED	
6-81	38			NOT DETERMINED	
5-81	39	4	7.2	ATOMIC ABS-FLAMELESS	
6-81	40	3	30.4	EMISSION-PLASMA ICP	
5-81	42			NOT DETERMINED	
6-81	43			NOT DETERMINED	
6-81	44			NOT DETERMINED	
6-81	45			NOT DETERMINED	
4-81	47			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	CO
5-81	48			NOT DETERMINED	
5-29	49	2	53.6	EMISSION-PLASMA ICP	
5-81	50			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	53			NOT DETERMINED	
5-81	54	10	131.9	ATOMIC ABS-DIRECT, EPA	
5-81	55			NOT DETERMINED	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58	60	*****	REJECT ATOMIC ABS-DIRECT, EPA	
5-81	59			NOT DETERMINED	
5-81	60			NOT DETERMINED	
6-81	61	3	30.4	ATOMIC ABS-FLAMELESS	
6-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	67			NOT DETERMINED	
6-81	68	210	*****	REJECT OTHER	
5-81	69			NOT DETERMINED	
5-81	70			NOT DETERMINED	
5-81	71	2	53.6	ATOMIC ABS-CHELATION/EXTRACTION, I-1240, USGS TWRI BK5 CH A1	
5-81	72	12	178.3	ATOMIC ABS-DIRECT, EPA	
6-81	73			NOT DETERMINED	
5-81	75			NOT DETERMINED	
6-81	77	3	30.4	ATOMIC ABS-DIRECT, EPA	
6-81	78			NOT DETERMINED	
6-81	79			NOT DETERMINED	
6-81	81	35	711.6	REJECT ATOMIC ABS-DIRECT, EPA	
6-81	82			NOT DETERMINED	

TOTAL RANGE	0.0	-	210.0000				
MEAN		4.3125	AVERAGE DEVIATION	2.6797			SAMPLE 77
STANDARD DEVIATION		3.4587	95 PCT.CONF.INTVL OF MEAN	4.3125 +OR-	1.8426		CO

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CU
5-81	1			NOT DETERMINED
5-81	2	480	1.6	EMISSION-PLASMA ICP
5-81	3	510	4.5	ATOMIC ABS-DIRECT
5-81	4	520	6.5	ATOMIC ABS-DIRECT, EPA
5-81	5	500	2.5	ATOMIC ABS-DIRECT, EPA
5-81	6	530	8.6	ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1
6-81	7	480	1.6	EMISSION-PLASMA ICP
6-81	8			NOT DETERMINED
6-81	9	510	4.5	ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1
6-81	10	510	4.5	ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1
5-81	11	460	5.7	ATOMIC ABS-DIRECT, EPA
5-81	12	500	2.5	ATOMIC ABS-DIRECT, EPA
5-81	13	530	8.6	ATOMIC ABS-DIRECT
5-81	15			NOT DETERMINED
5-81	16	490	0.4	ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1
5-81	17	460	5.7	ATOMIC ABS-DIRECT
6-81	18	500	2.5	ATOMIC ABS-DIRECT, EPA
5-81	19	470	3.7	ATOMIC ABS-DIRECT
6-81	21	310	36.5	REJECT ATOMIC ABS-FLAMELESS
5-81	22	450	7.8	EMISSION-PLASMA ICP
5-81	23			NOT DETERMINED
5-81	24	490	0.4	EMISSION-PLASMA ICP
5-81	27	540	10.6	ATOMIC ABS-DIRECT
5-81	28	490	0.4	ATOMIC ABS-DIRECT, EPA
5-81	29	520	6.5	ATOMIC ABS-DIRECT
4-81	30	460	5.7	EMISSION-PLASMA ICP
5-81	31	450	7.8	ATOMIC ABS-DIRECT
6-81	32	310	36.5	REJECT ATOMIC ABS-FLAMELESS
5-81	33	520	6.5	ATOMIC ABS-DIRECT, EPA
5-81	35	520	6.5	ATOMIC ABS-DIRECT, EPA
5-81	36	540	10.6	ATOMIC ABS-DIRECT, EPA
5-81	37			NOT DETERMINED
6-81	38	520	6.5	ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1
5-81	39	520	6.5	ATOMIC ABS-FLAMELESS
6-81	40	500	2.5	EMISSION-PLASMA ICP
5-81	42	480	1.6	ATOMIC ABS-DIRECT
6-81	43	150	69.3	REJECT ATOMIC ABS-DIRECT, EPA
6-81	44			NOT DETERMINED
6-81	45	500	2.5	ATOMIC ABS-DIRECT
4-81	47	680	39.3	REJECT ATOMIC ABS-FLAMELESS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CU
5-81	48	500	2.5	ATOMIC ABS-DIRECT
5-29	49	400	18.0	EMISSION-PLASMA ICP
5-81	50			NOT DETERMINED
6-81	51	460	5.7	ATOMIC ABS-DIRECT, EPA
5-81	53	470	3.7	ATOMIC ABS-DIRECT, EPA
5-81	54	440	9.8	ATOMIC ABS-DIRECT, EPA
5-81	55	480	1.6	ATOMIC ABS-DIRECT, EPA
5-81	56	510	4.5	ATOMIC ABS-DIRECT
5-81	57	440	9.8	ATOMIC ABS-DIRECT
5-81	58	490	0.4	ATOMIC ABS-DIRECT, EPA
5-81	59	480	1.6	ATOMIC ABS-DIRECT
5-81	60	500	2.5	ATOMIC ABS-DIRECT
6-81	61	500	2.5	ATOMIC ABS-DIRECT
6-81	62	440	9.8	ATOMIC ABS-FLAMELESS
5-81	63			ATOMIC ABS-DIRECT
5-81	64	550	12.7	NOT DETERMINED
5-81	67	480	1.6	OTHER
6-81	68	470	3.7	EMISSION-PLASMA DC
5-81	69	510	4.5	OTHER
5-81	70	500	2.5	ATOMIC ABS-DIRECT, EPA
5-81	71	400	18.0	EMISSION-PLASMA ICP
5-81	72	500	2.5	ATOMIC ABS-CHELATION/EXTRACTION, I-1271, USGS TWRI BK5 CH A1
6-81	73			ATOMIC ABS-DIRECT
5-81	75	480	1.6	NOT DETERMINED
6-81	77	520	6.5	ATOMIC ABS-DIRECT
6-81	78	500	2.5	ATOMIC ABS-DIRECT
6-81	79	430	11.9	ATOMIC ABS-FLAMELESS
6-81	81	450	7.8	ATOMIC ABS-FLAMELESS
6-81	82	480	1.6	ATOMIC ABS-DIRECT
				EMISSION-PLASMA DC

TOTAL RANGE	150.0000	-	680.0000		
MEAN	488.0356				SAMPLE 77
STANDARD DEVIATION	32.6646		AVERAGE DEVIATION	25.8163	
			95 PCT.CONF.INTVL OF MEAN	488.0356 +OR-	8.7475
					CU

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR PB
5-81	1			NOT DETERMINED
5-81	2	91	79.2	EMISSION-PLASMA ICP
5-81	3	15	70.5	ATOMIC ABS-FLAMELESS
5-81	4	12	76.4	ATOMIC ABS-FLAMELESS
5-81	5	31	38.9	ATOMIC ABS-FLAMELESS
5-81	6			NOT DETERMINED
6-81	7	70	37.9	ATOMIC ABS-DIRECT
6-81	8			NOT DETERMINED
6-81	9	29	42.9	ATOMIC ABS-FLAMELESS
6-81	10	29	42.9	ATOMIC ABS-FLAMELESS
5-81	11	160	215.2	ATOMIC ABS-DIRECT
5-81	12	40	21.2	ATOMIC ABS-DIRECT, EPA
5-81	13	9	82.3	ATOMIC ABS-FLAMELESS
5-81	15			NOT DETERMINED
5-81	16	46	9.4	ATOMIC ABS-CHELATION/EXTRACTION, I-1400, USGS TWRI BKS CH A1
5-81	17	110	116.7	ATOMIC ABS-DIRECT
6-81	18	160	215.2	ATOMIC ABS-DIRECT, EPA
5-81	19	37	27.1	ATOMIC ABS-FLAMELESS
6-81	21	78	53.6	ATOMIC ABS-FLAMELESS
5-81	22	38	25.2	ATOMIC ABS-FLAMELESS
5-81	23			NOT DETERMINED
5-81	24	66	30.0	EMISSION-PLASMA ICP
5-81	27	12	76.4	ATOMIC ABS-FLAMELESS
5-81	28	9	82.3	ATOMIC ABS-DIRECT, EPA
5-81	29	49	3.5	ATOMIC ABS-FLAMELESS
4-81	30	46	9.4	ATOMIC ABS-DIRECT, EPA
5-81	31	34	33.0	ATOMIC ABS-FLAMELESS
6-81	32	15	70.5	ATOMIC ABS-FLAMELESS
5-81	33	23	54.7	ATOMIC ABS-FLAMELESS
5-81	35	34	33.0	ATOMIC ABS-FLAMELESS
5-81	36	80	57.6	ATOMIC ABS-DIRECT, EPA
5-81	37			NOT DETERMINED
6-81	38	61	20.2	ATOMIC ABS-FLAMELESS
5-81	39	45	11.4	ATOMIC ABS-FLAMELESS
6-81	40	41	19.2	EMISSION-PLASMA ICP
5-81	42	38	25.2	ATOMIC ABS-FLAMELESS
6-81	43	0	100.0	ATOMIC ABS-DIRECT, EPA
6-81	44			NOT DETERMINED
6-81	45			NOT DETERMINED
4-81	47	11	78.3	ATOMIC ABS-FLAMELESS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	PB
5-81	48			NOT DETERMINED	
5-29	49	18	64.5	EMISSION-PLASMA ICP	
5-81	50			NOT DETERMINED	
6-81	51	100	97.0	ATOMIC ABS-DIRECT	
5-81	53	37	27.1	ATOMIC ABS-CHELATION/EXTRACTION, I-1400, USGS TWRI BK5 CH A1	
5-81	54	70	37.9	ATOMIC ABS-DIRECT, EPA	
5-81	55	280	451.5	REJECT ATOMIC ABS-DIRECT, EPA	
5-81	56	94	85.2	ATOMIC ABS-DIRECT	
5-81	57	130	156.1	ATOMIC ABS-DIRECT	
5-81	58	80	57.6	ATOMIC ABS-CHELATION/EXTRACTION, EPA	
5-81	59	57	12.3	ATOMIC ABS-DIRECT	
5-81	60	8	84.2	ATOMIC ABS-FLAMELESS	
6-81	61	45	11.4	ATOMIC ABS-FLAMELESS	
6-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	67	44	13.3	ANODIC STRIPPING VOLTAMMETRY	
6-81	68	750	*****	REJECT ATOMIC ABS-DIRECT, EPA	
5-81	69			NOT DETERMINED	
5-81	70	44	13.3	EMISSION-PLASMA ICP	
5-81	71	40	21.2	ATOMIC ABS-CHELATION/EXTRACTION, I-1400, USGS TWRI BK5 CH A1	
5-81	72	42	17.3	ATOMIC ABS-DIRECT	
6-81	73	100	97.0	ATOMIC ABS-DIRECT	
5-81	75	100	97.0	ATOMIC ABS-DIRECT	
6-81	77	7	86.2	ATOMIC ABS-FLAMELESS	
6-81	78	19	62.6	ATOMIC ABS-FLAMELESS	
6-81	79	8	84.2	ATOMIC ABS-FLAMELESS	
6-81	81	78	53.6	ATOMIC ABS-DIRECT	
6-81	82			NOT DETERMINED	

TOTAL RANGE	0.0	-	750.0000						SAMPLE 77
MEAN	50.7692		AVERAGE DEVIATION	29.6596					
STANDARD DEVIATION	37.9817		95 PCT.CONF.INTVL OF MEAN	50.7692 +OR-	10.5553				PB

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR LI
5-81	1			NOT DETERMINED
5-81	2			NOT DETERMINED
5-81	3			NOT DETERMINED
5-81	4	170	4.7	EMISSION-FLAME
5-81	5			NOT DETERMINED
5-81	6			NOT DETERMINED
6-81	7	160	10.3	EMISSION PLASMA ICP
6-81	8			NOT DETERMINED
6-81	9	190	6.5	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
6-81	10	190	6.5	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
5-81	11			NOT DETERMINED
5-81	12			NOT DETERMINED
5-81	13			NOT DETERMINED
5-81	15			NOT DETERMINED
5-81	16	190	6.5	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
5-81	17			NOT DETERMINED
6-81	18			NOT DETERMINED
5-81	19			NOT DETERMINED
6-81	21			NOT DETERMINED
5-81	22	180	0.9	EMISSION-FLAME
5-81	23			NOT DETERMINED
5-81	24	190	6.5	EMISSION PLASMA ICP
5-81	27			NOT DETERMINED
5-81	28			NOT DETERMINED
5-81	29	160	10.3	EMISSION PLASMA ICP
4-81	30			NOT DETERMINED
5-81	31	220	23.3	ATOMIC ABS-DIRECT
6-81	32			NOT DETERMINED
5-81	33			NOT DETERMINED
5-81	35			NOT DETERMINED
5-81	36			NOT DETERMINED
5-81	37			NOT DETERMINED
6-81	38			NOT DETERMINED
5-81	39			NOT DETERMINED
6-81	40	170	4.7	EMISSION PLASMA ICP
5-81	42			NOT DETERMINED
6-81	43	140	21.5	ATOMIC ABS-DIRECT
6-81	44			NOT DETERMINED
6-81	45			NOT DETERMINED
4-81	47			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	LI
5-81	48			NOT DETERMINED	
5-29	49			NOT DETERMINED	
5-81	50	220	23.3	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1	
6-81	51			NOT DETERMINED	
5-81	53			NOT DETERMINED	
5-81	54			NOT DETERMINED	
5-81	55			NOT DETERMINED	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58			NOT DETERMINED	
5-81	59			NOT DETERMINED	
5-81	60			NOT DETERMINED	
6-81	61	150	15.9	ATOMIC ABS-FLAMELESS	
6-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	67			NOT DETERMINED	
6-81	68			NOT DETERMINED	
5-81	69	180	0.9	ATOMIC ABS-DIRECT	
5-81	70	190	6.5	EMISSION PLASMA ICP	
5-81	71	180	0.9	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1	
5-81	72	130	27.1	ATOMIC ABS-DIRECT	
6-81	73			NOT DETERMINED	
5-81	75			NOT DETERMINED	
6-81	77	180	0.9	ATOMIC ABS-DIRECT	
6-81	78			NOT DETERMINED	
6-81	79			NOT DETERMINED	
6-81	81	1500	740.7	REJECT ATOMIC ABS-DIRECT	
6-81	82	200	12.1	EMISSION-ARC/SPARK	

TOTAL RANGE	130.0000 - 1500.0000					
MEAN	178.4211	AVERAGE DEVIATION	17.7839			SAMPLE 77
STANDARD DEVIATION	23.6322	95 PCT.CONF.INTVL OF MEAN	178.4211 +0R-	11.3908		LI

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR HG
5-81	1			NOT DETERMINED
5-81	2			NOT DETERMINED
5-81	3	1.7	9.3	ATOMIC ABS-FLAMELESS, EPA
5-81	4	1.6	14.7	ATOMIC ABS-FLAMELESS, EPA
5-81	5			NOT DETERMINED
5-81	6			NOT DETERMINED
6-81	7	180.0	*****	REJECT OTHER
6-81	8			NOT DETERMINED
6-81	9			NOT DETERMINED
6-81	10			NOT DETERMINED
5-81	11	5.5	193.3	REJECT ATOMIC ABS-FLAMELESS, EPA
5-81	12			NOT DETERMINED
5-81	13	1.9	1.3	ATOMIC ABS-FLAMELESS, EPA
5-81	15	0.2	89.3	REJECT ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED
5-81	16	1.9	1.3	ATOMIC ABS-FLAMELESS, AUTO, I-2462, USGS TWRI BKS CH A1
5-81	17	2.0	6.7	ATOMIC ABS-FLAMELESS, EPA
6-81	18	1.8	4.0	ATOMIC ABS-FLAMELESS, EPA
5-81	19	2.2	17.3	ATOMIC ABS-FLAMELESS, EPA
6-81	21	20.0	966.7	REJECT ATOMIC ABS-FLAMELESS, EPA
5-81	22	1.5	20.0	ATOMIC ABS-FLAMELESS, EPA
5-81	23	2.0	6.7	ATOMIC ABS-FLAMELESS, EPA
5-81	24			NOT DETERMINED
5-81	27	1.7	9.3	ATOMIC ABS-FLAMELESS, EPA
5-81	28	1.7	9.3	ATOMIC ABS-FLAMELESS, EPA
5-81	29			NOT DETERMINED
4-81	30	2.1	12.0	ATOMIC ABS-FLAMELESS, EPA
5-81	31	1.9	1.3	ATOMIC ABS-FLAMELESS, EPA
6-81	32	1.9	1.3	ATOMIC ABS-FLAMELESS, EPA
5-81	33	2.5	33.3	ATOMIC ABS-FLAMELESS, EPA
5-81	35			NOT DETERMINED
5-81	36	1.7	9.3	ATOMIC ABS-FLAMELESS, EPA
5-81	37			NOT DETERMINED
6-81	38	1.5	20.0	ATOMIC ABS-FLAMELESS, I-1462, USGS TWRI BKS CH A1
5-81	39			NOT DETERMINED
6-81	40			NOT DETERMINED
5-81	42			NOT DETERMINED
6-81	43			NOT DETERMINED
6-81	44			NOT DETERMINED
6-81	45			NOT DETERMINED
4-81	47	2.7	44.0	ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	HG
5-81	48			NOT DETERMINED	
5-29	49			NOT DETERMINED	
5-81	50			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	53			NOT DETERMINED	
5-81	54	2.0	6.7	ATOMIC ABS-FLAMELESS, EPA	
5-81	55	0.2	88.8	REJECT ATOMIC ABS-FLAMELESS, EPA	
5-81	56	1.8	4.0	ATOMIC ABS-FLAMELESS, EPA	
5-81	57			NOT DETERMINED	
5-81	58	1.8	4.0	ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED	
5-81	59			NOT DETERMINED	
5-81	60	2.0	6.7	ATOMIC ABS-FLAMELESS, EPA	
6-81	61	1.7	9.3	ATOMIC ABS-FLAMELESS, EPA	
6-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	67	1.7	9.3	ATOMIC ABS-FLAMELESS, EPA	
6-81	68	2.5	33.3	ATOMIC ABS-FLAMELESS, EPA	
5-81	69	1.5	20.0	ATOMIC ABS-FLAMELESS, EPA	
5-81	70			NOT DETERMINED	
5-81	71	1.8	4.0	ATOMIC ABS-FLAMELESS,AUTO, I-2462, USGS TWRI BK5 CH A1	
5-81	72	1.6	14.7	ATOMIC ABS-FLAMELESS, EPA	
6-81	73	1.7	9.3	ATOMIC ABS-FLAMELESS, EPA	
5-81	75	1.4	25.3	ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED	
6-81	77	1940.0	*****	REJECT ATOMIC ABS-FLAMELESS, EPA	
6-81	78	2.3	22.7	ATOMIC ABS-FLAMELESS, EPA	
6-81	79	1.9	1.3	ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED	
6-81	81			NOT DETERMINED	
6-81	82			NOT DETERMINED	

TOTAL RANGE	0.2000	-	1940.0000					SAMPLE 77
MEAN	1.8750		AVERAGE DEVIATION	0.2297				
STANDARD DEVIATION	0.3059		95 PCT.CONF.INTVL OF MEAN	1.8750	+OR-	0.1098		HG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	MO
5-81	1			NOT DETERMINED	
5-81	2	35	86.5	EMISSION-PLASMA ICP	
5-81	3			NOT DETERMINED	
5-81	4			NOT DETERMINED	
5-81	5			NOT DETERMINED	
5-81	6			NOT DETERMINED	
6-81	7			NOT DETERMINED	
6-81	8			NOT DETERMINED	
6-81	9			NOT DETERMINED	
6-81	10			NOT DETERMINED	
5-81	11			NOT DETERMINED	
5-81	12			NOT DETERMINED	
5-81	13			NOT DETERMINED	
5-81	15			NOT DETERMINED	
5-81	16	15	20.1	ATOMIC ABS-CHELATION/EXTRACTION, I-1490, USGS TWRI BK5 CH A1	
5-81	17			NOT DETERMINED	
6-81	18			NOT DETERMINED	
5-81	19			NOT DETERMINED	
6-81	21			NOT DETERMINED	
5-81	22			NOT DETERMINED	
5-81	23			NOT DETERMINED	
5-81	24	6	68.0	EMISSION-PLASMA ICP	
5-81	27	25	33.2	ATOMIC ABS-FLAMELESS	
5-81	28			NOT DETERMINED	
5-81	29			NOT DETERMINED	
4-81	30			NOT DETERMINED	
5-81	31	21	11.9	EMISSION-PLASMA ICP	
6-81	32			NOT DETERMINED	
5-81	33			NOT DETERMINED	
5-81	35			NOT DETERMINED	
5-81	36			NOT DETERMINED	
5-81	37			NOT DETERMINED	
6-81	38	14	25.4	ATOMIC ABS-FLAMELESS	
5-81	39			NOT DETERMINED	
6-81	40	12	36.1	EMISSION-PLASMA ICP	
5-81	42			NOT DETERMINED	
6-81	43	75	299.6	REJECT OTHER	
6-81	44			NOT DETERMINED	
6-81	45			NOT DETERMINED	
4-81	47			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	MO
5-81	48			NOT DETERMINED	
5-29	49	131	598.0	REJECT EMISSION-PLASMA ICP	
5-81	50			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	53			NOT DETERMINED	
5-81	54			NOT DETERMINED	
5-81	55			NOT DETERMINED	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58			NOT DETERMINED	
5-81	59			NOT DETERMINED	
5-81	60			NOT DETERMINED	
6-81	61	20	6.6	ATOMIC ABS-FLAMELESS	
6-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	67			NOT DETERMINED	
6-81	68			NOT DETERMINED	
5-81	69			NOT DETERMINED	
5-81	70	16	14.8	EMISSION-PLASMA ICP	
5-81	71	13	30.7	ATOMIC ABS-CHELATION/EXTRACTION, I-1490, USGS TWRI BK5 CH A1	
5-81	72	22	17.2	ATOMIC ABS-DIRECT	
6-81	73			NOT DETERMINED	
5-81	75			NOT DETERMINED	
6-81	77	20	6.6	ATOMIC ABS-DIRECT	
6-81	78			NOT DETERMINED	
6-81	79			NOT DETERMINED	
6-81	81	25	33.2	ATOMIC ABS-DIRECT	
6-81	82			NOT DETERMINED	

TOTAL RANGE	6.0000	-	131.0000			
MEAN	18.7692		AVERAGE DEVIATION	5.6331		SAMPLE 77
STANDARD DEVIATION	7.3389		95 PCT.CONF.INTVL OF MEAN	18.7692 +OR-	4.4352	MO

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	NI
5-81	48			NOT DETERMINED	
5-29	49	1	96.5	EMISSION-PLASMA ICP	
5-81	50			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	53			NOT DETERMINED	
5-81	54	31	8.0	ATOMIC ABS-DIRECT, EPA	
5-81	55	48	67.2	ATOMIC ABS-DIRECT, EPA	
5-81	56	30	4.5	ATOMIC ABS-DIRECT	
5-81	57	50	74.2	ATOMIC ABS-DIRECT	
5-81	58	50	74.2	ATOMIC ABS-DIRECT, EPA	
5-81	59			NOT DETERMINED	
5-81	60			NOT DETERMINED	
6-81	61	18	37.3	ATOMIC ABS-FLAMELESS	
6-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	67	40	39.3	EMISSION-PLASMA DC	
6-81	68	400	*****	REJECT OTHER	
5-81	69	10	65.2	ATOMIC ABS-DIRECT, EPA	
5-81	70			NOT DETERMINED	
5-81	71	9	68.6	ATOMIC ABS-CHELATION-EXTRACTION, I-1500, USGS TWRI BK5 CH A1	
5-81	72	32	11.5	ATOMIC ABS-DIRECT	
6-81	73			NOT DETERMINED	
5-81	75			NOT DETERMINED	
6-81	77	30	4.5	ATOMIC ABS-DIRECT	
6-81	78			NOT DETERMINED	
6-81	79	22	23.4	ATOMIC ABS-FLAMELESS	
6-81	81	55	91.6	ATOMIC ABS-DIRECT	
6-81	82			NOT DETERMINED	

TOTAL RANGE	0.0	-	400.0000			SAMPLE 77
MEAN	28.7059	AVERAGE DEVIATION	13.2006			
STANDARD DEVIATION	16.1668	95 PCT.CONF.INTVL OF MEAN	28.7059 +0R-	5.6283		NI

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NI
5-81	1			NOT DETERMINED
5-81	2	25	12.9	EMISSION-PLASMA ICP
5-81	3	0	100.0	ATOMIC ABS-DIRECT
5-81	4	20	30.3	ATOMIC ABS-FLAMELESS
5-81	5			NOT DETERMINED
5-81	6			NOT DETERMINED
6-81	7			NOT DETERMINED
6-81	8			NOT DETERMINED
6-81	9	26	9.4	ATOMIC ABS-FLAMELESS
6-81	10	26	9.4	ATOMIC ABS-FLAMELESS
5-81	11	28	2.5	ATOMIC ABS-DIRECT, EPA
5-81	12	14	51.2	ATOMIC ABS-DIRECT, EPA
5-81	13			NOT DETERMINED
5-81	15			NOT DETERMINED
5-81	16	18	37.3	ATOMIC ABS-CHELATION-EXTRACTION, I-1500, USGS TWRI BK5 CH A1
5-81	17	60	109.0	ATOMIC ABS-DIRECT
6-81	18	40	39.3	ATOMIC ABS-DIRECT, EPA
5-81	19			NOT DETERMINED
6-81	21			NOT DETERMINED
5-81	22			NOT DETERMINED
5-81	23			NOT DETERMINED
5-81	24			NOT DETERMINED
5-81	27	40	39.3	ATOMIC ABS-DIRECT
5-81	28			NOT DETERMINED
5-81	29	19	33.8	ATOMIC ABS-FLAMELESS
4-81	30	15	47.7	EMISSION-PLASMA ICP
5-81	31			NOT DETERMINED
6-81	32			NOT DETERMINED
5-81	33	15	47.7	ATOMIC ABS-FLAMELESS
5-81	35			NOT DETERMINED
5-81	36	21	26.8	ATOMIC ABS-DIRECT, EPA
5-81	37			NOT DETERMINED
6-81	38			NOT DETERMINED
5-81	39	18	37.3	ATOMIC ABS-FLAMELESS
6-81	40	16	44.3	EMISSION-PLASMA ICP
5-81	42			NOT DETERMINED
6-81	43	61	112.5	ATOMIC ABS-DIRECT, EPA
6-81	44			NOT DETERMINED
6-81	45	40	39.3	ATOMIC ABS-DIRECT
4-81	47	48	67.2	ATOMIC ABS-DIRECT

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	SE
5-81	1			NOT DETERMINED	
5-81	2			NOT DETERMINED	
5-81	3	7	57.0	ATOMIC ABS-FLAMELESS	
5-81	4	15	7.9	ATOMIC ABS-FLAMELESS	
5-81	5	4	75.4	ATOMIC ABS-FLAMELESS	
5-81	6			NOT DETERMINED	
6-81	7	24	47.4	ATOMIC ABS-HYDRIDE (NABH4)	
6-81	8			NOT DETERMINED	
6-81	9			NOT DETERMINED	
6-81	10			NOT DETERMINED	
5-81	11			NOT DETERMINED	
5-81	12			NOT DETERMINED	
5-81	13	3	81.6	ATOMIC ABS-FLAMELESS	
5-81	15			NOT DETERMINED	
5-81	16	32	96.6	ATOMIC ABS-HYDRIDE,AUTO, I-2667, USGS	
5-81	17			NOT DETERMINED	
6-81	18			NOT DETERMINED	
5-81	19	14	14.0	ATOMIC ABS-FLAMELESS	
6-81	21			NOT DETERMINED	
5-81	22	29	78.1	ATOMIC ABS-FLAMELESS	
5-81	23			NOT DETERMINED	
5-81	24			NOT DETERMINED	
5-81	27	7	57.0	ATOMIC ABS-FLAMELESS	
5-81	28			NOT DETERMINED	
5-81	29			NOT DETERMINED	
4-81	30	25	53.6	ATOMIC ABS-HYDRIDE (NABH4)	
5-81	31	26	59.7	OTHER	
6-81	32	3	81.6	ATOMIC ABS-HYDRIDE (NABH4)	
5-81	33	6	63.1	ATOMIC ABS-FLAMELESS	
5-81	35	26	59.7	ATOMIC ABS-FLAMELESS	
5-81	36	2	87.7	ATOMIC ABS-FLAMELESS	
5-81	37			NOT DETERMINED	
6-81	38			NOT DETERMINED	
5-81	39			NOT DETERMINED	
6-81	40			NOT DETERMINED	
5-81	42	20	22.9	ATOMIC ABS-FLAMELESS	
6-81	43			NOT DETERMINED	
6-81	44			NOT DETERMINED	
6-81	45			NOT DETERMINED	
4-81	47			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	SE
5-81	48			NOT DETERMINED	
5-29	49			NOT DETERMINED	
5-81	50			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	53			NOT DETERMINED	
5-81	54	15	7.9	ATOMIC	ABS-FLAMELESS
5-81	55			NOT DETERMINED	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58	30	84.3	ATOMIC	ABS-FLAMELESS
5-81	59			NOT DETERMINED	
5-81	60	20	22.9	ATOMIC	ABS-FLAMELESS
6-81	61	24	47.4	ATOMIC	ABS-FLAMELESS
6-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	67			NOT DETERMINED	
6-81	68			NOT DETERMINED	
5-81	69			NOT DETERMINED	
5-81	70			NOT DETERMINED	
5-81	71	30	84.3	ATOMIC	ABS-HYDRIDE,AUTO, I-2667, USGS
5-81	72	10	38.6	ATOMIC	ABS-FLAMELESS
6-81	73	9	44.7	ATOMIC	ABS-FLAMELESS
5-81	75	19	16.7	ATOMIC	ABS-HYDRIDE, I-1667, USGS TWRI BKS CH A1
6-81	77	7	57.0	ATOMIC	ABS-FLAMELESS
6-81	78			NOT DETERMINED	
6-81	79			NOT DETERMINED	
6-81	81			NOT DETERMINED	
6-81	82			NOT DETERMINED	

TOTAL RANGE	2.0000	-	32.0000				
MEAN	16.2800		AVERAGE DEVIATION	8.7712			SAMPLE 77
STANDARD DEVIATION	9.9520		95 PCT.CONF.INTVL OF MEAN	16.2800 +0R-	4.1082		SE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	AG
5-81	1			NOT DETERMINED	
5-81	2			NOT DETERMINED	
5-81	3	10	197.9	ATOMIC ABS-DIRECT	
5-81	4	0	100.0	ATOMIC ABS-FLAMELESS	
5-81	5			NOT DETERMINED	
5-81	6			NOT DETERMINED	
6-81	7			NOT DETERMINED	
6-81	8			NOT DETERMINED	
6-81	9			NOT DETERMINED	
6-81	10			NOT DETERMINED	
5-81	11			NOT DETERMINED	
5-81	12			NOT DETERMINED	
5-81	13	3	10.6	ATOMIC ABS-FLAMELESS	
5-81	15			NOT DETERMINED	
5-81	16	0	100.0	ATOMIC ABS-CHELATION/EXTRACTION, I-1720, USGS TWRI BK5 A1	
5-81	17			NOT DETERMINED	
6-81	18	5	48.9	ATOMIC ABS-DIRECT, EPA	
5-81	19	4	19.1	ATOMIC ABS-FLAMELESS	
6-81	21	1	70.2	ATOMIC ABS-FLAMELESS	
5-81	22	1	70.2	ATOMIC ABS-FLAMELESS	
5-81	23			NOT DETERMINED	
5-81	24			NOT DETERMINED	
5-81	27	3	10.6	ATOMIC ABS-DIRECT	
5-81	28			NOT DETERMINED	
5-81	29			NOT DETERMINED	
4-81	30	2	40.4	EMISSION-PLASMA ICP	
5-81	31			NOT DETERMINED	
6-81	32	1	70.2	ATOMIC ABS-FLAMELESS	
5-81	33	1	70.2	ATOMIC ABS-FLAMELESS	
5-81	35			NOT DETERMINED	
5-81	36	7	108.5	ATOMIC ABS-DIRECT, EPA	
5-81	37			NOT DETERMINED	
6-81	38			NOT DETERMINED	
5-81	39			NOT DETERMINED	
6-81	40			NOT DETERMINED	
5-81	42			NOT DETERMINED	
6-81	43	0	100.0	ATOMIC ABS-DIRECT	
6-81	44			NOT DETERMINED	
6-81	45	6	78.7	ATOMIC ABS-DIRECT	
4-81	47	0	100.0	ATOMIC ABS-FLAMELESS	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	AG
5-81	48			NOT DETERMINED	
5-29	49			NOT DETERMINED	
5-81	50			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	53			NOT DETERMINED	
5-81	54	6	78.7	ATOMIC	ABS-DIRECT, EPA
5-81	55			NOT DETERMINED	
5-81	56	10	197.9	ATOMIC	ABS-DIRECT
5-81	57			NOT DETERMINED	
5-81	58	5	48.9	ATOMIC	ABS-DIRECT, EPA
5-81	59			NOT DETERMINED	
5-81	60			NOT DETERMINED	
6-81	61	0	100.0	ATOMIC	ABS-FLAMELESS
6-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	67			NOT DETERMINED	
6-81	68			NOT DETERMINED	
5-81	69	6	78.7	ATOMIC	ABS-DIRECT, EPA
5-81	70			NOT DETERMINED	
5-81	71	0	100.0	ATOMIC	ABS-CHELATION/EXTRACTION, I-1720, USGS TWRI BK5 A1
5-81	72	0	100.0	ATOMIC	ABS-FLAMELESS
6-81	73	2	40.4	ATOMIC	ABS-DIRECT, EPA
5-81	75	5	48.9	ATOMIC	ABS-DIRECT
6-81	77	10	197.9	ATOMIC	ABS-DIRECT
6-81	78	1	70.2	ATOMIC	ABS-FLAMELESS
6-81	79	5	48.9	ATOMIC	ABS-FLAMELESS
6-81	81	30	793.6	REJECT	ATOMIC ABS-DIRECT
6-81	82			NOT DETERMINED	

TOTAL RANGE	0.0	-	30.0000			SAMPLE 77
MEAN		3.3571	AVERAGE DEVIATION	2.7653		
STANDARD DEVIATION		3.2684	95 PCT.CONF.INTVL OF MEAN	3.3571 +OR-	1.2675	AG

13 5.77

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	SR
5-81	1			NOT DETERMINED	
5-81	2			NOT DETERMINED	
5-81	3			NOT DETERMINED	
5-81	4			NOT DETERMINED	
5-81	5			NOT DETERMINED	
5-81	6			NOT DETERMINED	
6-81	7	2200	7.8	EMISSION PLASMA ICP	
6-81	8			NOT DETERMINED	
6-81	9	2400	0.6	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	
6-81	10	2400	0.6	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	
5-81	11			NOT DETERMINED	
5-81	12			NOT DETERMINED	
5-81	13			NOT DETERMINED	
5-81	15	2200	7.8	ATOMIC ABS-DIRECT	
5-81	16	2500	4.7	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	
5-81	17			NOT DETERMINED	
6-81	18			NOT DETERMINED	
5-81	19			NOT DETERMINED	
6-81	21			NOT DETERMINED	
5-81	22			NOT DETERMINED	
5-81	23			NOT DETERMINED	
5-81	24	2400	0.6	EMISSION PLASMA ICP	
5-81	27			NOT DETERMINED	
5-81	28			NOT DETERMINED	
5-81	29			NOT DETERMINED	
4-81	30	2300	3.6	EMISSION PLASMA ICP	
5-81	31			NOT DETERMINED	
6-81	32			NOT DETERMINED	
5-81	33			NOT DETERMINED	
5-81	35			NOT DETERMINED	
5-81	36			NOT DETERMINED	
5-81	37			NOT DETERMINED	
6-81	38			NOT DETERMINED	
5-81	39			NOT DETERMINED	
6-81	40			NOT DETERMINED	
5-81	42			NOT DETERMINED	
6-81	43	1000	58.1	REJECT ATOMIC ABS-DIRECT	
6-81	44			NOT DETERMINED	
6-81	45			NOT DETERMINED	
4-81	47			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	SR
5-81	48	2600	8.9	ATOMIC ABS-DIRECT	
5-29	49	2400	0.6	EMISSION PLASMA ICP	
5-81	50	1300	45.5	REJECT ATOMIC ABS-DIRECT, I-1800, USGS TWRI BKS CH A1	
6-81	51			NOT DETERMINED	
5-81	53	2200	7.8	ATOMIC ABS-DIRECT	
5-81	54			NOT DETERMINED	
5-81	55			NOT DETERMINED	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58			NOT DETERMINED	
5-81	59			NOT DETERMINED	
5-81	60			NOT DETERMINED	
6-81	61	2400	0.6	OTHER	
6-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64			NOT DETERMINED	
5-81	67	2400	0.6	EMISSION PLASMA DC	
6-81	68			NOT DETERMINED	
5-81	69	2500	4.7	ATOMIC ABS-DIRECT	
5-81	70	2500	4.7	EMISSION PLASMA ICP	
5-81	71	2400	0.6	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BKS CH A1	
5-81	72			NOT DETERMINED	
6-81	73			NOT DETERMINED	
5-81	75			NOT DETERMINED	
6-81	77			NOT DETERMINED	
6-81	78			NOT DETERMINED	
6-81	79			NOT DETERMINED	
6-81	81			NOT DETERMINED	
6-81	82			NOT DETERMINED	

TOTAL RANGE	1000.0000 - 2600.0000					SAMPLE 77
MEAN	2386.6665	AVERAGE DEVIATION	86.2223			
STANDARD DEVIATION	118.7232	95 PCT.CONF.INTVL OF MEAN	2386.6665 +0R-	65.7533		SR

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	TL
5-81	1			NOT DETERMINED	
5-81	2			NOT DETERMINED	
5-81	3			NOT DETERMINED	
5-81	4			NOT DETERMINED	
5-81	5			NOT DETERMINED	
5-81	6			NOT DETERMINED	
6-81	7			NOT DETERMINED	
6-81	8			NOT DETERMINED	
6-81	9			NOT DETERMINED	
6-81	10			NOT DETERMINED	
5-81	11			NOT DETERMINED	
5-81	12			NOT DETERMINED	
5-81	13			NOT DETERMINED	
5-81	15			NOT DETERMINED	
5-81	16			NOT DETERMINED	
5-81	17			NOT DETERMINED	
6-81	18			NOT DETERMINED	
5-81	19			NOT DETERMINED	
6-81	21			NOT DETERMINED	
5-81	22			NOT DETERMINED	
5-81	23			NOT DETERMINED	
5-81	24			NOT DETERMINED	
5-81	27			NOT DETERMINED	
5-81	28			NOT DETERMINED	
5-81	29			NOT DETERMINED	
4-81	30			NOT DETERMINED	
5-81	31			NOT DETERMINED	
6-81	32			NOT DETERMINED	
5-81	33			NOT DETERMINED	
5-81	35			NOT DETERMINED	
5-81	36			NOT DETERMINED	
5-81	37			NOT DETERMINED	
6-81	38			NOT DETERMINED	
5-81	39			NOT DETERMINED	
6-81	40			NOT DETERMINED	
5-81	42			NOT DETERMINED	
6-81	43			NOT DETERMINED	
6-81	44			NOT DETERMINED	
6-81	45			NOT DETERMINED	
4-81	47			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR TL
5-81	48			NOT DETERMINED
5-29	49			NOT DETERMINED
5-81	50			NOT DETERMINED
6-81	51			NOT DETERMINED
5-81	53			NOT DETERMINED
5-81	54			NOT DETERMINED
5-81	55			NOT DETERMINED
5-81	56			NOT DETERMINED
5-81	57			NOT DETERMINED
5-81	58			NOT DETERMINED
5-81	59			NOT DETERMINED
5-81	60			NOT DETERMINED
6-81	61	5	0.0	ATOMIC ABS - FLAMELESS
6-81	62			NOT DETERMINED
5-81	63			NOT DETERMINED
5-81	64			NOT DETERMINED
5-81	67			NOT DETERMINED
6-81	68			NOT DETERMINED
5-81	69			NOT DETERMINED
5-81	70			NOT DETERMINED
5-81	71	5	0.0	ATOMIC ABS - FLAMELESS
5-81	72			NOT DETERMINED
6-81	73			NOT DETERMINED
5-81	75			NOT DETERMINED
6-81	77			NOT DETERMINED
6-81	78			NOT DETERMINED
6-81	79			NOT DETERMINED
6-81	81			NOT DETERMINED
6-81	82			NOT DETERMINED

TOTAL RANGE	5.0000	-	5.0000				SAMPLE 77
MEAN	5.0000		AVERAGE DEVIATION	0.0			
STANDARD DEVIATION	0.0		95 PCT.CONF.INTVL OF MEAN	5.0000	+OR-	0.0	TL

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR ZN
5-81	1			NOT DETERMINED
5-81	2	570	4.8	EMISSION-PLASMA ICP
5-81	3	580	3.1	ATOMIC ABS-DIRECT
5-81	4	580	3.1	ATOMIC ABS-DIRECT, EPA
5-81	5	720	20.3	REJECT ATOMIC ABS-DIRECT, EPA
5-81	6	640	6.9	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BKS CH A1
6-81	7	570	4.8	EMISSION-PLASMA ICP
6-81	8			NOT DETERMINED
6-81	9	600	0.3	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BKS CH A1
6-81	10	600	0.3	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BKS CH A1
5-81	11	590	1.4	ATOMIC ABS-DIRECT, EPA
5-81	12	70	88.3	REJECT ATOMIC ABS-DIRECT, EPA
5-81	13	580	3.1	ATOMIC ABS-DIRECT
5-81	15	600	0.3	ATOMIC ABS-DIRECT
5-81	16	600	0.3	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BKS CH A1
5-81	17	610	1.9	ATOMIC ABS-DIRECT
6-81	18			NOT DETERMINED
5-81	19			NOT DETERMINED
6-81	21			NOT DETERMINED
5-81	22	580	3.1	EMISSION-PLASMA ICP
5-81	23			NOT DETERMINED
5-81	24	600	0.3	EMISSION-PLASMA ICP
5-81	27	620	3.6	ATOMIC ABS-DIRECT
5-81	28	630	5.3	ATOMIC ABS-DIRECT, EPA
5-81	29	620	3.6	EMISSION-PLASMA DC
4-81	30	560	6.4	EMISSION-PLASMA ICP
5-81	31	540	9.8	EMISSION-PLASMA ICP
6-81	32	580	3.1	ATOMIC ABS-DIRECT, EPA
5-81	33	660	10.3	ATOMIC ABS-DIRECT, EPA
5-81	35	610	1.9	ATOMIC ABS-DIRECT, EPA
5-81	36	650	8.6	ATOMIC ABS-DIRECT, EPA
5-81	37			NOT DETERMINED
6-81	38			NOT DETERMINED
5-81	39	610	1.9	ATOMIC ABS-DIRECT
6-81	40	590	1.4	EMISSION-PLASMA ICP
5-81	42	580	3.1	ATOMIC ABS-DIRECT
6-81	43	580	3.1	ATOMIC ABS-DIRECT
6-81	44			NOT DETERMINED
6-81	45	650	8.6	ATOMIC ABS-DIRECT
4-81	47	620	3.6	ATOMIC ABS-DIRECT

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	ZN
5-81	48	620	3.6	ATOMIC ABS-DIRECT	
5-29	49	550	8.1	EMISSION-PLASMA ICP	
5-81	50			NOT DETERMINED	
6-81	51	590	1.4	ATOMIC ABS-DIRECT	
5-81	53	580	3.1	ATOMIC ABS-DIRECT, EPA	
5-81	54	550	8.1	ATOMIC ABS-DIRECT, EPA	
5-81	55	630	5.3	ATOMIC ABS-DIRECT, EPA	
5-81	56	590	1.4	ATOMIC ABS-DIRECT	
5-81	57	380	36.5	REJECT ATOMIC ABS-DIRECT	
5-81	58	630	5.3	ATOMIC ABS-DIRECT, EPA	
5-81	59	620	3.6	ATOMIC ABS-DIRECT	
5-81	60	600	0.3	ATOMIC ABS-DIRECT	
6-81	61	590	1.4	OTHER	
6-81	62			NOT DETERMINED	
5-81	63			NOT DETERMINED	
5-81	64	610	1.9	OTHER	
5-81	67	650	8.6	EMISSION-PLASMA DC	
6-81	68	600	0.3	OTHER	
5-81	69	640	6.9	ATOMIC ABS-DIRECT, EPA	
5-81	70	590	1.4	EMISSION-PLASMA ICP	
5-81	71	610	1.9	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
5-81	72	600	0.3	ATOMIC ABS-DIRECT	
6-81	73			NOT DETERMINED	
5-81	75	240	59.9	REJECT ATOMIC ABS-DIRECT	
6-81	77	590	1.4	ATOMIC ABS-DIRECT	
6-81	78	600	0.3	ATOMIC ABS-DIRECT, EPA	
6-81	79	530	11.4	ATOMIC ABS-DIRECT	
6-81	81	530	11.4	ATOMIC ABS-DIRECT	
6-81	82	620	3.6	NEUTRON ACTIVATION	

TOTAL RANGE	70.0000	-	720.0000			SAMPLE 77
MEAN	598.4614		AVERAGE DEVIATION	22.8698		
STANDARD DEVIATION	29.8614		95 PCT.CONF.INTVL OF MEAN	598.4614 +OR-	8.2986	ZN

DETERMINATION	NO. LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN		
			95 PCT. CI	X +OR- STD	X +OR- 2STD
AL	36	3	43	80	91
FE	64	14	16	76	93
MN	61	5	31	69	91
SB	9	0	67	67	100
AS	34	3	48	70	97
BA	36	14	42	77	90
BE	16	6	67	80	93
CD	50	2	24	71	94
CR TOT	51	2	40	78	88
CO	20	20	50	69	94
CU	60	7	21	75	96
PB	54	4	21	65	94
LI	20	5	32	74	95
HG	38	16	28	72	91
MO	15	13	46	85	92
NI	35	3	24	68	100
SE	25	0	24	64	100
AG	29	3	11	61	89
SR	17	12	47	73	100
TL	2	0	100	100	100
ZN	56	7	17	71	94

SAMPLE NO. 1 (WATER-SUSPENDED SEDIMENT MIXTURE)

<u>Code</u>	<u>Method Used for Digestion</u>
2	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
3	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
4	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
5	NOT SPECIFIED
6	EXTRACTION, I-3485: USGS TWRI BK5 CH A1
7	EXTRACTION, I-3485: USGS TWRI BK5 CH A1
9	NOT SPECIFIED
10	NOT SPECIFIED
11	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
16	EXTRACTION, I-3485: USGS TWRI BK5 CH A1
18	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
22	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
27	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
28	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
29	EXTRACTION, I-3485: USGS TWRI BK5 CH A1
31	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
32	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
35	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
36	NOT SPECIFIED
42	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
45	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
51	NOT SPECIFIED
54	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
55	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
56	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
57	NOT SPECIFIED
58	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
59	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
61	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
67	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
68	EXTRACTION, I-3485: USGS TWRI BK5 CH A1
69	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
71	EXTRACTION, I-3485: USGS TWRI BK5 CH A1
72	TOTAL RECOVERABLE METALS - EXTRACTION: EPA
79	NOT SPECIFIED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	AL
5-81	2	4800	0.8		
5-81	3	3200	32.8	EMISSION PLASMA ICP	
5-81	4	4100	13.9	ATOMIC ABS-DIRECT	
5-81	5			ATOMIC ABS-DIRECT	
5-81	6			NOT DETERMINED	
6-81	7	4200	11.8	NOT DETERMINED	
5-81	9	4300	9.7	EMISSION PLASMA ICP	
5-81	10	4300	9.7	ATOMIC ABS-DIRECT, I-1051, USGS TWRI BKS CH A1	
5-81	11			ATOMIC ABS-DIRECT, I-1051, USGS TWRI BKS CH A1	
5-81	16	3700	22.3	NOT DETERMINED	
6-81	18	6800	42.7	ATOMIC ABS-DIRECT, I-1051, USGS TWRI BKS CH A1	
6-81	22	3500	26.5	ATOMIC ABS-DIRECT	
5-81	27			EMISSION PLASMA ICP	
5-81	28	5700	19.7	NOT DETERMINED	
5-81	29	5700	19.7	ATOMIC ABS-DIRECT	
5-81	31	4000	16.0	OTHER	
6-81	32			EMISSION PLASMA ICP	
5-81	35	4000	16.0	NOT DETERMINED	
5-81	36	4900	2.9	ATOMIC ABS-DIRECT	
5-81	42			ATOMIC ABS-FLAMELESS	
6-81	45			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	54	20	99.6	NOT DETERMINED	
5-81	55	5900	23.9	REJECT ATOMIC ABS-DIRECT	
5-81	56			OTHER	
5-81	57			NOT DETERMINED	
5-81	58	3700	22.3	NOT DETERMINED	
5-81	59	3000	37.0	ATOMIC ABS-DIRECT	
5-81	61	7600	59.5	ATOMIC ABS-DIRECT	
5-81	67	6300	32.3	ATOMIC ABS-FLAMELESS	
6-81	68			EMISSION-PLASMA DC	
5-81	69	5400	13.4	NOT DETERMINED	
5-81	71	4500	5.5	ATOMIC ABS-DIRECT	
5-81	72	5200	9.2	ATOMIC ABS-CHELATION/EXTRACTION, I-1052, USGS PROVISIONAL	
6-81	79			ATOMIC ABS-DIRECT	
				NOT DETERMINED	

TOTAL RANGE 20.0000 - 7600.0000

MEAN 4763.6328

AVERAGE DEVIATION

969.4211

SAMPLE 1

STANDARD DEVIATION 1196.2412

95 PCT.CONF.INTVL OF MEAN

4763.6328 +0R- 530.4819

AL

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR FE
5-81	2	10000	29.9	EMISSION-PLASMA ICP
5-81	3	7000	9.1	ATOMIC ABS-DIRECT
5-81	4	8200	6.5	ATOMIC ABS-DIRECT, EPA
5-81	5	8500	10.4	ATOMIC ABS-DIRECT, EPA
5-81	6	1200	84.4	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1
6-81	7	7300	5.2	EMISSION-PLASMA ICP
5-81	9	8900	15.6	BIPYRIDINE,AUTO, I-2379, USGS TWRI BK5 CH A1
5-81	10	9100	18.2	BIPYRIDINE,AUTO, I-2379, USGS TWRI BK5 CH A1
5-81	11	930	87.9	ATOMIC ABS-DIRECT, EPA
5-81	16	7900	2.6	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1
6-81	18	10000	29.9	ATOMIC ABS-DIRECT, EPA
6-81	22	5700	26.0	EMISSION-PLASMA ICP
5-81	27	8400	9.1	ATOMIC ABS-DIRECT, EPA
5-81	28	1000	87.0	ATOMIC ABS-DIRECT, EPA
5-81	29	1100	85.7	ATOMIC ABS-DIRECT
5-81	31	7500	2.6	EMISSION-PLASMA ICP
6-81	32	12000	55.9	ATOMIC ABS-FLAMELESS
5-81	35	12000	55.9	ATOMIC ABS-DIRECT, EPA
5-81	36	11000	42.9	ATOMIC ABS-DIRECT
5-81	42	7300	5.2	ATOMIC ABS-FLAMELESS
6-81	45	10000	29.9	ATOMIC ABS-DIRECT
6-81	51	10000	29.9	ATOMIC ABS-DIRECT
5-81	54			NOT DETERMINED
5-81	55	8800	14.3	ATOMIC ABS-DIRECT, EPA
5-81	56	9800	27.3	ATOMIC ABS-DIRECT
5-81	57	5000	35.0	ATOMIC ABS-DIRECT
5-81	58	1200	84.4	ATOMIC ABS-DIRECT, EPA
5-81	59			NOT DETERMINED
5-81	61	9500	23.4	ATOMIC ABS-DIRECT, EPA
5-81	67	9200	19.5	EMISSION-PLASMA DC
6-81	68	6600	14.3	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1
5-81	69	10000	29.9	ATOMIC ABS-DIRECT, EPA
5-81	71	7900	2.6	ATOMIC ABS-DIRECT
5-81	72	10000	29.9	ATOMIC ABS-DIRECT
6-81	79	11000	42.9	ATOMIC ABS-DIRECT, EPA

TOTAL RANGE	930.0000	- 12000.0000			SAMPLE 1
MEAN	7697.8750	AVERAGE DEVIATION	2457.2461		
STANDARD DEVIATION	3252.8916	95 PCT.CONF.INTVL OF MEAN	7697.8750 +OR-	1149.4985	FE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	MN
5-81	2	320	1.7	EMISSION-PLASMA ICP	
5-81	3	280	11.0	ATOMIC ABS-DIRECT	
5-81	4	300	4.6	ATOMIC ABS-DIRECT, EPA	
5-81	5	340	8.1	ATOMIC ABS-DIRECT, EPA	
5-81	6	320	1.7	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1	
6-81	7	310	1.4	EMISSION-PLASMA ICP	
5-81	9	340	8.1	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1	
5-81	10	350	11.3	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1	
5-81	11	300	4.6	ATOMIC ABS-DIRECT, EPA	
5-81	16	290	7.8	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1	
6-81	18	300	4.6	ATOMIC ABS-DIRECT, EPA	
6-81	22	280	11.0	EMISSION-PLASMA ICP	
5-81	27	330	4.9	ATOMIC ABS-DIRECT, EPA	
5-81	28	330	4.9	ATOMIC ABS-DIRECT, EPA	
5-81	29	320	1.7	EMISSION-PLASMA ICP	
5-81	31	310	1.4	EMISSION-PLASMA ICP	
6-81	32	340	8.1	ATOMIC ABS-FLAMELESS	
5-81	35	170	45.9	REJECT ATOMIC ABS-DIRECT, EPA	
5-81	36	320	1.7	ATOMIC ABS-DIRECT	
5-81	42	310	1.4	ATOMIC ABS-FLAMELESS	
6-81	45	330	4.9	ATOMIC ABS-DIRECT	
6-81	51			NOT DETERMINED	
5-81	54			NOT DETERMINED	
5-81	55			NOT DETERMINED	
5-81	56	320	1.7	ATOMIC ABS-DIRECT	
5-81	57	290	7.8	ATOMIC ABS-DIRECT	
5-81	58	290	7.8	ATOMIC ABS-DIRECT, EPA	
5-81	59	320	1.7	ATOMIC ABS-DIRECT	
5-81	61	310	1.4	ATOMIC ABS-DIRECT, EPA	
5-81	67	300	4.6	EMISSION-PLASMA DC	
6-81	68	290	7.8	OTHER	
5-81	69	330	4.9	ATOMIC ABS-DIRECT, EPA	
5-81	71	330	4.9	ATOMIC ABS-DIRECT	
5-81	72	340	8.1	ATOMIC ABS-DIRECT	
6-81	79	310	1.4	ATOMIC ABS-DIRECT, EPA	

TOTAL RANGE	170.0000	-	350.0000				
MEAN	314.5161		AVERAGE DEVIATION	15.9834			SAMPLE 1
STANDARD DEVIATION	19.1204		95 PCT.CONF.INTVL OF MEAN	314.5161 +OR-	7.0125		MN

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR AS
5-81	2	19	45.7	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
5-81	3	11	15.7	ATOMIC ABS-FLAMELESS
5-81	4	14	7.3	ATOMIC ABS-FLAMELESS
5-81	5	12	8.0	ATOMIC ABS-FLAMELESS
5-81	6			NOT DETERMINED
6-81	7	14	7.3	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
5-81	9	9	31.0	ATOMIC ABS-FLAMELESS
5-81	10	9	31.0	ATOMIC ABS-FLAMELESS
5-81	11			NOT DETERMINED
5-81	16	4	69.3	ATOMIC ABS-HYDRIDE,AUTO, I-2062, USGS TWRI BKS CH A1
6-81	18	6	54.0	ATOMIC ABS-FLAMELESS
6-81	22	11	15.7	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
5-81	27	12	8.0	ATOMIC ABS-FLAMELESS
5-81	28	16	22.7	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
5-81	29	21	61.0	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
5-81	31	17	30.4	ATOMIC ABS-HYDRIDE(ZINC), APHA STD METH, 14ED
6-81	32	15	15.0	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
5-81	35	0	100.0	ATOMIC ABS-FLAMELESS
5-81	36	12	8.0	ATOMIC ABS-FLAMELESS
5-81	42	14	7.3	ATOMIC ABS-FLAMELESS
6-81	45			NOT DETERMINED
6-81	51			NOT DETERMINED
5-81	54	13	0.3	ATOMIC ABS-FLAMELESS
5-81	55			NOT DETERMINED
5-81	56			NOT DETERMINED
5-81	57			NOT DETERMINED
5-81	58	20	53.4	ATOMIC ABS-FLAMELESS
5-81	59			NOT DETERMINED
5-81	61	14	7.3	ATOMIC ABS-FLAMELESS
5-81	67			NOT DETERMINED
6-81	68	20	53.4	ATOMIC ABS-FLAMELESS
5-81	69			NOT DETERMINED
5-81	71	13	0.3	ATOMIC ABS-HYDRIDE,AUTO, I-2062, USGS TWRI BKS CH A1
5-81	72	17	30.4	ATOMIC ABS-FLAMELESS
6-81	79			NOT DETERMINED

TOTAL RANGE	0.0	-	21.0000			SAMPLE 1
MEAN	13.0417		AVERAGE DEVIATION	3.7083		
STANDARD DEVIATION	5.0603		95 PCT.CONF.INTVL OF MEAN	13.0417 +OR-	2.1371	AS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	BA
5-81	2			NOT DETERMINED	
5-81	3	100	18.3	ATOMIC ABS-DIRECT	
5-81	4	100	18.3	ATOMIC ABS-DIRECT	
5-81	5			NOT DETERMINED	
5-81	6			NOT DETERMINED	
6-81	7			NOT DETERMINED	
5-81	9	250	195.9	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BKS CH A1	
5-81	10	240	184.0	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BKS CH A1	
5-81	11			NOT DETERMINED	
5-81	16	100	18.3	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BKS CH A1	
5-81	18	60	29.0	ATOMIC ABS-DIRECT	
6-81	22	490	479.9	REJECT EMISSION PLASMA ICP	
5-81	27	40	52.7	ATOMIC ABS-DIRECT	
5-81	28			NOT DETERMINED	
5-81	29	50	40.8	EMISSION PLASMA ICP	
5-81	31	50	40.8	EMISSION PLASMA ICP	
6-81	32	100	18.3	ATOMIC ABS-FLAMELESS	
5-81	35			NOT DETERMINED	
5-81	36	100	18.3	ATOMIC ABS-FLAMELESS	
5-81	42			NOT DETERMINED	
6-81	45			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	54	0	100.0	ATOMIC ABS-DIRECT	
5-81	55	0	100.0	ATOMIC ABS-DIRECT	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58	100	18.3	ATOMIC ABS-FLAMELESS	
5-81	59			NOT DETERMINED	
5-81	61	80	5.3	ATOMIC ABS-FLAMELESS	
5-81	67	60	29.0	EMISSION PLASMA DC	
6-81	68			NOT DETERMINED	
5-81	69	70	17.2	ATOMIC ABS-DIRECT	
5-81	71	80	5.3	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BKS CH A1	
5-81	72	60	29.0	ATOMIC ABS-DIRECT	
6-81	79	50	40.8	ATOMIC ABS-FLAMELESS	

TOTAL RANGE	0.0	-	490.0000			SAMPLE 1
MEAN		84.5000	AVERAGE DEVIATION	41.4000		
STANDARD DEVIATION		62.7841	95 PCT.CONF.INTVL OF MEAN	84.5000 +OR-	29.3835	BA

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR BE
5-81	2			NOT DETERMINED
5-81	3			NOT DETERMINED
5-81	4	16	39.6	ATOMIC ABS-DIRECT
5-81	5			NOT DETERMINED
5-81	6			NOT DETERMINED
6-81	7			NOT DETERMINED
5-81	9			NOT DETERMINED
5-81	10			NOT DETERMINED
5-81	11			NOT DETERMINED
5-81	16	20	24.5	ATOMIC ABS-DIRECT, I-1095, TWRI BKS CH A1
6-81	18			NOT DETERMINED
6-81	22			NOT DETERMINED
5-81	27	36	35.8	ATOMIC ABS-FLAMELESS
5-81	28			NOT DETERMINED
5-81	29	32	20.8	EMISSION-PLASMA ICP
5-81	31	28	5.7	EMISSION-PLASMA ICP
6-81	32			NOT DETERMINED
5-81	35			NOT DETERMINED
5-81	36			NOT DETERMINED
5-81	42			NOT DETERMINED
6-81	45			NOT DETERMINED
6-81	51			NOT DETERMINED
5-81	54	0	100.0	REJECT ATOMIC ABS-CHELATION/EXTRACTION, APHA STD METH, 14ED
5-81	55			NOT DETERMINED
5-81	56			NOT DETERMINED
5-81	57			NOT DETERMINED
5-81	58	20	24.5	ATOMIC ABS-DIRECT
5-81	59			NOT DETERMINED
5-81	61	28	5.7	ATOMIC ABS-FLAMELESS
5-81	67			NOT DETERMINED
6-81	68			NOT DETERMINED
5-81	69	30	13.2	ATOMIC ABS-DIRECT
5-81	71	31	17.0	ATOMIC ABS-DIRECT, I-1095, TWRI BKS CH A1
5-81	72	24	9.4	ATOMIC ABS-DIRECT
6-81	79			NOT DETERMINED

TOTAL RANGE	0.0	-	36.0000			SAMPLE 1
MEAN		26.5000	AVERAGE DEVIATION	5.2000		
STANDARD DEVIATION		6.3114	95 PCT.CONF.INTVL OF MEAN	26.5000 +OR-	4.5146	BE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	CD
5-81	2			NOT DETERMINED	
5-81	3	5	12.2	ATOMIC ABS-DIRECT	
5-81	4	7	23.0	ATOMIC ABS-FLAMELESS	
5-81	5	7	23.0	ATOMIC ABS-DIRECT, EPA	
5-81	6			NOT DETERMINED	
6-81	7			NOT DETERMINED	
5-81	9	7	23.0	ATOMIC ABS-FLAMELESS	
5-81	10	7	23.0	ATOMIC ABS-FLAMELESS	
5-81	11	7	23.0	ATOMIC ABS-DIRECT	
5-81	16	6	5.4	ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1	
6-81	18	6	5.4	ATOMIC ABS-DIRECT, EPA	
6-81	22	6	5.4	ATOMIC ABS-FLAMELESS	
5-81	27	7	23.0	ATOMIC ABS-FLAMELESS	
5-81	28	4	29.7	ATOMIC ABS-DIRECT, EPA	
5-81	29	7	23.0	ATOMIC ABS-FLAMELESS	
5-81	31	6	5.4	ATOMIC ABS-FLAMELESS	
6-81	32	6	5.4	ATOMIC ABS-FLAMELESS	
5-81	35	5	12.2	ATOMIC ABS-FLAMELESS	
5-81	36	5	12.2	ATOMIC ABS-FLAMELESS	
5-81	42	5	12.2	ATOMIC ABS-FLAMELESS	
6-81	45	8	40.5	ATOMIC ABS-DIRECT	
6-81	51	3	47.3	ATOMIC ABS-DIRECT, EPA	
5-81	54	1	82.4	ATOMIC ABS-DIRECT, EPA	
5-81	55	5	12.2	ATOMIC ABS-DIRECT, EPA	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58	5	12.2	ATOMIC ABS-DIRECT, EPA	
5-81	59	10	75.7	ATOMIC ABS-DIRECT	
5-81	61			NOT DETERMINED	
5-81	67			NOT DETERMINED	
6-81	68	90	*****	REJECT OTHER	
5-81	69	5	12.2	ATOMIC ABS-DIRECT, EPA	
5-81	71	4	29.7	ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1	
5-81	72	4	29.7	ATOMIC ABS-DIRECT	
6-81	79	13	128.4	REJECT ATOMIC ABS-FLAMELESS	

TOTAL RANGE	1.0000	-	90.0000			
MEAN	5.6923		AVERAGE DEVIATION	1.3314		SAMPLE 1
STANDARD DEVIATION	1.7611		95 PCT.CONF.INTVL OF MEAN	5.6923 +0R-	0.7115	CD

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR CR TOT
5-81	2	110	263.3	REJECT	EMISSION-PLASMA ICP
5-81	3	30	0.9		ATOMIC ABS-DIRECT
5-81	4	26	14.1		ATOMIC ABS-FLAMELESS
5-81	5	61	101.5		ATOMIC ABS-FLAMELESS
5-81	6			NOT DETERMINED	
6-81	7	29	4.2		EMISSION-PLASMA ICP
5-81	9	25	17.4		ATOMIC ABS-FLAMELESS
5-81	10	18	40.5		ATOMIC ABS-FLAMELESS
5-81	11	28	7.5		ATOMIC ABS-DIRECT
5-81	16	30	0.9		ATOMIC ABS-DIRECT, I-1236, USGS TWRI BK5 CH A1
6-81	18	40	32.1		ATOMIC ABS-DIRECT, EPA
6-81	22	39	28.8		ATOMIC ABS-FLAMELESS
5-81	27	46	51.9		ATOMIC ABS-DIRECT
5-81	28			NOT DETERMINED	
5-81	29	33	9.0		EMISSION-PLASMA ICP
5-81	31	18	40.5		ATOMIC ABS-FLAMELESS
6-81	32	16	47.2		ATOMIC ABS-FLAMELESS
5-81	35	15	50.5		ATOMIC ABS-DIRECT, EPA
5-81	36	41	35.4		ATOMIC ABS-FLAMELESS
5-81	42	27	10.8		ATOMIC ABS-FLAMELESS
6-81	45	35	15.6		ATOMIC ABS-DIRECT
6-81	51	30	0.9		ATOMIC ABS-DIRECT
5-81	54	2	93.4		ATOMIC ABS-DIRECT, EPA
5-81	55	24	20.7		ATOMIC ABS-DIRECT, EPA
5-81	56	25	17.4		ATOMIC ABS-DIRECT
5-81	57	25	17.4		ATOMIC ABS-DIRECT
5-81	58	30	0.9		ATOMIC ABS-DIRECT, EPA
5-81	59			NOT DETERMINED	
5-81	61	38	25.5		ATOMIC ABS-FLAMELESS
5-81	67	30	0.9		EMISSION-PLASMA DC
6-81	68	340	*****	REJECT	OTHER
5-81	69	40	32.1		ATOMIC ABS-DIRECT, EPA
5-81	71	75	147.7	REJECT	ATOMIC ABS-DIRECT, I-1236, USGS TWRI BK5 CH A1
5-81	72	34	12.3		ATOMIC ABS-DIRECT
6-81	79	43	42.0		ATOMIC ABS-FLAMELESS

TOTAL RANGE	2.0000	-	340.0000			
MEAN	30.2758		AVERAGE DEVIATION	8.0666		SAMPLE 1
STANDARD DEVIATION	11.2342		95 PCT.CONF.INTVL OF MEAN	30.2758 +OR-	4.2724	CR TOT

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	CO
5-81	2			NOT DETERMINED	
5-81	3			NOT DETERMINED	
5-81	4	13	3.0	ATOMIC ABS-FLAMELESS	
5-81	5			NOT DETERMINED	
5-81	6			NOT DETERMINED	
6-81	7			NOT DETERMINED	
5-81	9			NOT DETERMINED	
5-81	10			NOT DETERMINED	
5-81	11			NOT DETERMINED	
5-81	16	12	10.4	ATOMIC ABS-CHELATION/EXTRACTION, I-1240, USGS TWRI BK5 CH A1	
6-81	18			NOT DETERMINED	
6-81	22			NOT DETERMINED	
5-81	27	21	56.7	ATOMIC ABS-FLAMELESS	
5-81	28			NOT DETERMINED	
5-81	29	17	26.9	EMISSION-PLASMA ICP	
5-81	31	11	17.9	ATOMIC ABS-FLAMELESS	
6-81	32			NOT DETERMINED	
5-81	35			NOT DETERMINED	
5-81	36			NOT DETERMINED	
5-81	42			NOT DETERMINED	
6-81	45			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	54	2	85.1	ATOMIC ABS-DIRECT, EPA	
5-81	55			NOT DETERMINED	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58	60	347.8	REJECT ATOMIC ABS-DIRECT, EPA	
5-81	59			NOT DETERMINED	
5-81	61	14	4.5	ATOMIC ABS-FLAMELESS	
5-81	67			NOT DETERMINED	
6-81	68	280	*****	REJECT OTHER	
5-81	69	10	25.4	ATOMIC ABS-DIRECT, EPA	
5-81	71	18	34.3	ATOMIC ABS-CHELATION/EXTRACTION, I-1240, USGS TWRI BK5 CH A1	
5-81	72	16	19.4	ATOMIC ABS-DIRECT, EPA	
6-81	79			NOT DETERMINED	

TOTAL RANGE	2.0000 - 280.0000				SAMPLE 1
MEAN	13.4000	AVERAGE DEVIATION	3.8000		
STANDARD DEVIATION	5.2536	95 PCT.CONF.INTVL OF MEAN	13.4000 +OR- 3.7579		CO

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR CU
5-81	2	110	16.3		EMISSION-PLASMA ICP
5-81	3	340	158.7	REJECT	ATOMIC ABS-DIRECT
5-81	4	140	6.5		ATOMIC ABS-DIRECT, EPA
5-81	5	140	6.5		ATOMIC ABS-DIRECT, EPA
5-81	6	130	1.1		ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1
6-81	7	150	14.1		EMISSION-PLASMA ICP
5-81	9	140	6.5		ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1
5-81	10	160	21.7		ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1
5-81	11	140	6.5		ATOMIC ABS-DIRECT, EPA
5-81	16	140	6.5		ATOMIC ABS-CHELATION/EXTRACTION, I-1271, USGS TWRI BK5 CH A1
6-81	18	140	6.5		ATOMIC ABS-DIRECT, EPA
6-81	22	150	14.1		EMISSION-PLASMA ICP
5-81	27	340	158.7	REJECT	ATOMIC ABS-DIRECT
5-81	28	130	1.1		ATOMIC ABS-DIRECT, EPA
5-81	29	150	14.1		ATOMIC ABS-DIRECT
5-81	31	78	40.7		ATOMIC ABS-DIRECT
6-81	32	440	234.7	REJECT	ATOMIC ABS-FLAMELESS
5-81	35	80	39.1		ATOMIC ABS-DIRECT, EPA
5-81	36	130	1.1		ATOMIC ABS-DIRECT, EPA
5-81	42	130	1.1		ATOMIC ABS-DIRECT
6-81	45	150	14.1		ATOMIC ABS-DIRECT
6-81	51	130	1.1		ATOMIC ABS-DIRECT, EPA
5-81	54	3	97.7	REJECT	ATOMIC ABS-DIRECT, EPA
5-81	55	120	8.7		ATOMIC ABS-DIRECT, EPA
5-81	56	140	6.5		ATOMIC ABS-DIRECT
5-81	57	130	1.1		ATOMIC ABS-DIRECT
5-81	58	140	6.5		ATOMIC ABS-DIRECT, EPA
5-81	59	140	6.5		ATOMIC ABS-DIRECT
5-81	61	91	30.8		ATOMIC ABS-DIRECT, EPA
5-81	67	120	8.7		EMISSION-PLASMA DC
6-81	68	130	1.1		OTHER
5-81	69	150	14.1		ATOMIC ABS-DIRECT, EPA
5-81	71	160	21.7		ATOMIC ABS-CHELATION/EXTRACTION, I-1271, USGS TWRI BK5 CH A1
5-81	72	140	6.5		ATOMIC ABS-DIRECT
6-81	79	96	27.0		ATOMIC ABS-FLAMELESS

TOTAL RANGE	3.0000 - 440.0000				
MEAN	131.4516	AVERAGE DEVIATION	15.1820		SAMPLE 1
STANDARD DEVIATION	20.9886	95 PCT.CONF.INTVL OF MEAN	131.4516 +OR-	7.6977	CU

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	PB
5-81	2	22	38.2	EMISSION-PLASMA ICP	
5-81	3	34	4.5	ATOMIC ABS-FLAMELESS	
5-81	4	26	27.0	ATOMIC ABS-FLAMELESS	
5-81	5	21	41.0	ATOMIC ABS-FLAMELESS	
5-81	6			NOT DETERMINED	
6-81	7			NOT DETERMINED	
5-81	9	27	24.1	ATOMIC ABS-FLAMELESS	
5-81	10	25	29.8	ATOMIC ABS-FLAMELESS	
5-81	11	33	7.3	ATOMIC ABS-DIRECT	
5-81	16	88	147.2	ATOMIC ABS-CHELATION/EXTRACTION, I-1400, USGS TWRI BK5 CH A1	
6-81	18	60	68.6	ATOMIC ABS-DIRECT, EPA	
6-81	22	31	12.9	ATOMIC ABS-FLAMELESS	
5-81	27	16	55.0	ATOMIC ABS-FLAMELESS	
5-81	28	19	46.6	ATOMIC ABS-DIRECT, EPA	
5-81	29	53	48.9	ATOMIC ABS-FLAMELESS	
5-81	31	33	7.3	ATOMIC ABS-FLAMELESS	
6-81	32	19	46.6	ATOMIC ABS-FLAMELESS	
5-81	35	24	32.6	ATOMIC ABS-FLAMELESS	
5-81	36	65	82.6	ATOMIC ABS-DIRECT, EPA	
5-81	42	37	4.0	ATOMIC ABS-FLAMELESS	
6-81	45			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	54	2	94.4	ATOMIC ABS-DIRECT, EPA	
5-81	55	60	68.6	ATOMIC ABS-DIRECT, EPA	
5-81	56	75	110.7	ATOMIC ABS-DIRECT	
5-81	57			NOT DETERMINED	
5-81	58	20	43.8	ATOMIC ABS-CHELATION/EXTRACTION, EPA	
5-81	59	49	37.7	ATOMIC ABS-DIRECT	
5-81	61			NOT DETERMINED	
5-81	67	43	20.8	ANODIC STRIPPING VOLTAMMETRY	
6-81	68	620	*****	REJECT ATOMIC ABS-DIRECT, EPA	
5-81	69			NOT DETERMINED	
5-81	71	45	26.4	ATOMIC ABS-CHELATION/EXTRACTION, I-1400, USGS TWRI BK5 CH A1	
5-81	72	34	4.5	ATOMIC ABS-DIRECT	
6-81	79	0	100.0	ATOMIC ABS-FLAMELESS	

TOTAL RANGE	0.0	-	620.0000			SAMPLE 1
MEAN		35.5926	AVERAGE DEVIATION	16.2276		
STANDARD DEVIATION		20.9454	95 PCT.CONF.INTVL OF MEAN	35.5926 +OR-	8.2876	PB

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR LI
5-81	2			NOT DETERMINED
5-81	3			NOT DETERMINED
5-81	4	100	11.3	EMISSION-FLAME
5-81	5			NOT DETERMINED
5-81	6			NOT DETERMINED
6-81	7	110	2.4	EMISSION PLASMA ICP
5-81	9	150	33.1	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
5-81	10	120	6.5	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
5-81	11			NOT DETERMINED
5-81	16	110	2.4	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
6-81	18			NOT DETERMINED
6-81	22	10	91.1	REJECT EMISSION-FLAME
5-81	27			NOT DETERMINED
5-81	28			NOT DETERMINED
5-81	29	110	2.4	EMISSION PLASMA ICP
5-81	31	130	15.3	ATOMIC ABS-DIRECT
6-81	32			NOT DETERMINED
5-81	35			NOT DETERMINED
5-81	36			NOT DETERMINED
5-81	42			NOT DETERMINED
6-81	45			NOT DETERMINED
6-81	51			NOT DETERMINED
5-81	54			NOT DETERMINED
5-81	55			NOT DETERMINED
5-81	56			NOT DETERMINED
5-81	57			NOT DETERMINED
5-81	58			NOT DETERMINED
5-81	59			NOT DETERMINED
5-81	61	110	2.4	ATOMIC ABS-FLAMELESS
5-81	67			NOT DETERMINED
6-81	68			NOT DETERMINED
5-81	69	100	11.3	ATOMIC ABS-DIRECT
5-81	71	110	2.4	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
5-81	72	90	20.2	ATOMIC ABS-DIRECT
6-81	79			NOT DETERMINED

TOTAL RANGE	10.0000	-	150.0000						
MEAN	112.7273		AVERAGE DEVIATION	11.2397					SAMPLE 1
STANDARD DEVIATION	16.1808		95 PCT.CONF.INTVL OF MEAN	112.7273 +0R-	10.8697				LI

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR HG
5-81	2			NOT DETERMINED
5-81	3	11	4.2	ATOMIC ABS-FLAMELESS, EPA
5-81	4	10	12.9	ATOMIC ABS-FLAMELESS, EPA
5-81	5			NOT DETERMINED
5-81	6			NOT DETERMINED
6-81	7	280	*****	REJECT OTHER
5-81	9			NOT DETERMINED
5-81	10			NOT DETERMINED
5-81	11	15	30.6	ATOMIC ABS-FLAMELESS, EPA
5-81	16	12	4.5	ATOMIC ABS-FLAMELESS,AUTO, I-2462, USGS TWRI BK5 CH A1
6-81	18	11	4.2	ATOMIC ABS-FLAMELESS, EPA
6-81	22	14	21.9	ATOMIC ABS-FLAMELESS, EPA
5-81	27	13	13.2	ATOMIC ABS-FLAMELESS, EPA
5-81	28	12	4.5	ATOMIC ABS-FLAMELESS, EPA
5-81	29			NOT DETERMINED
5-81	31	1	88.7	ATOMIC ABS-FLAMELESS, EPA
6-81	32	15	30.6	ATOMIC ABS-FLAMELESS, EPA
5-81	35			NOT DETERMINED
5-81	36	14	21.9	ATOMIC ABS-FLAMELESS, EPA
5-81	42			NOT DETERMINED
6-81	45			NOT DETERMINED
6-81	51			NOT DETERMINED
5-81	54	12	4.5	ATOMIC ABS-FLAMELESS, EPA
5-81	55	1	87.8	ATOMIC ABS-FLAMELESS, EPA
5-81	56	10	12.9	ATOMIC ABS-FLAMELESS, EPA
5-81	57			NOT DETERMINED
5-81	58	11	4.2	ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED
5-81	59			NOT DETERMINED
5-81	61	19	65.4	ATOMIC ABS-FLAMELESS, EPA
5-81	67	14	21.9	ATOMIC ABS-FLAMELESS, EPA
6-81	68	10	12.9	ATOMIC ABS-FLAMELESS, EPA
5-81	69	11	4.2	ATOMIC ABS-FLAMELESS, EPA
5-81	71	13	13.2	ATOMIC ABS-FLAMELESS, I-1462, USGS TWRI BK5 CH A1
5-81	72	11	4.2	ATOMIC ABS-FLAMELESS, EPA
6-81	79	12	4.5	ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED

TOTAL RANGE	1.3000 - 280.0000				SAMPLE 1
MEAN	11.4864	AVERAGE DEVIATION	2.4694		
STANDARD DEVIATION	3.8978	95 PCT.CONF.INTVL OF MEAN	11.4864 +0R-	1.7285	HG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	MO
5-81	2	88	4.1	EMISSION-PLASMA ICP	
5-81	3			NOT DETERMINED	
5-81	4			NOT DETERMINED	
5-81	5			NOT DETERMINED	
5-81	6			NOT DETERMINED	
6-81	7			NOT DETERMINED	
5-81	9			NOT DETERMINED	
5-81	10			NOT DETERMINED	
5-81	11			NOT DETERMINED	
5-81	16	58	36.8	ATOMIC ABS-CHELATION/EXTRACTION, I-1490, USGS TWRI BK5 CH A1	
6-81	18	80	12.8	ATOMIC ABS-DIRECT	
6-81	22			NOT DETERMINED	
5-81	27	120	30.8	ATOMIC ABS-FLAMELESS	
5-81	28			NOT DETERMINED	
5-81	29			NOT DETERMINED	
5-81	31	90	1.9	EMISSION-PLASMA ICP	
6-81	32			NOT DETERMINED	
5-81	35			NOT DETERMINED	
5-81	36			NOT DETERMINED	
5-81	42			NOT DETERMINED	
6-81	45			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	54			NOT DETERMINED	
5-81	55			NOT DETERMINED	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58			NOT DETERMINED	
5-81	59			NOT DETERMINED	
5-81	61	120	30.8	ATOMIC ABS-FLAMELESS	
5-81	67			NOT DETERMINED	
6-81	68			NOT DETERMINED	
5-81	69	100	9.0	ATOMIC ABS-DIRECT	
5-81	71	74	19.4	ATOMIC ABS-CHELATION/EXTRACTION, I-1490, USGS TWRI BK5 CH A1	
5-81	72	96	4.6	ATOMIC ABS-DIRECT	
6-81	79			NOT DETERMINED	

TOTAL RANGE	58.0000 - 120.0000				SAMPLE 1
MEAN	91.7778	AVERAGE DEVIATION	15.3086		
STANDARD DEVIATION	20.2841	95 PCT.CONF.INTVL OF MEAN	91.7778 +0R-	15.5917	MO

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	NI
5-81	2	68	129.1	EMISSION-PLASMA ICP	
5-81	3	300	910.6	REJECT ATOMIC ABS-DIRECT	
5-81	4	28	5.7	ATOMIC ABS-FLAMELESS	
5-81	5			NOT DETERMINED	
5-81	6			NOT DETERMINED	
6-81	7			NOT DETERMINED	
5-81	9	35	17.9	ATOMIC ABS-FLAMELESS	
5-81	10	36	21.3	ATOMIC ABS-FLAMELESS	
5-81	11	28	5.7	ATOMIC ABS-DIRECT, EPA	
5-81	16	20	32.6	ATOMIC ABS-CHELATION-EXTRACTION, I-1500, USGS TWRI BK5 CH A1	
6-81	18	20	32.6	ATOMIC ABS-DIRECT, EPA	
6-81	22			NOT DETERMINED	
5-81	27	60	102.1	ATOMIC ABS-DIRECT	
5-81	28			NOT DETERMINED	
5-81	29	27	9.0	ATOMIC ABS-FLAMELESS	
5-81	31			NOT DETERMINED	
6-81	32			NOT DETERMINED	
5-81	35			NOT DETERMINED	
5-81	36	29	2.3	ATOMIC ABS-DIRECT, EPA	
5-81	42			NOT DETERMINED	
6-81	45	24	19.1	ATOMIC ABS-DIRECT	
6-81	51			NOT DETERMINED	
5-81	54	2	93.3	ATOMIC ABS-DIRECT, EPA	
5-81	55	17	42.7	ATOMIC ABS-DIRECT, EPA	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58	40	34.8	ATOMIC ABS-DIRECT, EPA	
5-81	59			NOT DETERMINED	
5-81	61	90	203.2	REJECT ATOMIC ABS-DIRECT, EPA	
5-81	67	20	32.6	EMISSION-PLASMA DC	
6-81	68	130	337.9	REJECT OTHER	
5-81	69	20	32.6	ATOMIC ABS-DIRECT, EPA	
5-81	71	20	32.6		
5-81	72	22	25.9	ATOMIC ABS-DIRECT	
6-81	79	48	61.7	ATOMIC ABS-FLAMELESS	

TOTAL RANGE	2.0000 - 300.0000				SAMPLE 1
MEAN	29.6842	AVERAGE DEVIATION	11.4626		
STANDARD DEVIATION	15.6313	95 PCT.CONF.INTVL OF MEAN	29.6842 +OR-	7.5343	NI

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	SE
5-81	2			NOT DETERMINED	
5-81	3	3	59.7	ATOMIC ABS-FLAMELESS	
5-81	4	5	32.8	ATOMIC ABS-FLAMELESS	
5-81	5	9	21.0	ATOMIC ABS-FLAMELESS	
5-81	6			NOT DETERMINED	
6-81	7	10	34.5	ATOMIC ABS-HYDRIDE (NABH4)	
5-81	9			NOT DETERMINED	
5-81	10			NOT DETERMINED	
5-81	11			NOT DETERMINED	
5-81	16	12	61.3	ATOMIC ABS-HYDRIDE,AUTO, I-2667, USGS	
6-81	18			NOT DETERMINED	
6-81	22	7	5.9	ATOMIC ABS-FLAMELESS	
5-81	27	1	86.6	ATOMIC ABS-FLAMELESS	
5-81	28			NOT DETERMINED	
5-81	29			NOT DETERMINED	
5-81	31	9	21.0	OTHER	
6-81	32	3	59.7	ATOMIC ABS-HYDRIDE (NABH4)	
5-81	35	6	19.3	ATOMIC ABS-FLAMELESS	
5-81	36	0	100.0	ATOMIC ABS-FLAMELESS	
5-81	42			NOT DETERMINED	
6-81	45			NOT DETERMINED	
6-81	51			NOT DETERMINED	
5-81	54	7	5.9	ATOMIC ABS-FLAMELESS	
5-81	55			NOT DETERMINED	
5-81	56			NOT DETERMINED	
5-81	57			NOT DETERMINED	
5-81	58	8	7.6	ATOMIC ABS-FLAMELESS	
5-81	59			NOT DETERMINED	
5-81	61	7	5.9	ATOMIC ABS-FLAMELESS	
5-81	67			NOT DETERMINED	
6-81	68			NOT DETERMINED	
5-81	69			NOT DETERMINED	
5-81	71	12	61.3	ATOMIC ABS-HYDRIDE,AUTO, I-2667, USGS	
5-81	72	20	168.9	ATOMIC ABS-FLAMELESS	
6-81	79			NOT DETERMINED	

TOTAL RANGE	0.0	-	20.0000				
MEAN		7.4375	AVERAGE DEVIATION	3.4922			SAMPLE 1
STANDARD DEVIATION		4.8713	95 PCT.CONF.INTVL OF MEAN	7.4375 +OR-	2.5952		SE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	AG
5-81	2			NOT DETERMINED	
5-81	3	10	61.9	ATOMIC ABS-DIRECT	
5-81	4	4	35.2	ATOMIC ABS-FLAMELESS	
5-81	5			NOT DETERMINED	
5-81	6			NOT DETERMINED	
6-81	7	6	2.9	EMISSION-PLASMA ICP	
5-81	9			NOT DETERMINED	
5-81	10			NOT DETERMINED	
5-81	11			NOT DETERMINED	
5-81	16	4	35.2	ATOMIC ABS-CHELATION/EXTRACTION, I-1720, USGS TWRI BK5 A1	
6-81	18	6	2.9	ATOMIC ABS-DIRECT, EPA	
6-81	22	22	256.2	REJECT ATOMIC ABS-FLAMELESS	
5-81	27	12	94.3	ATOMIC ABS-DIRECT	
5-81	28			NOT DETERMINED	
5-81	29			NOT DETERMINED	
5-81	31			NOT DETERMINED	
6-81	32	4	35.2	ATOMIC ABS-FLAMELESS	
5-81	35	5	19.0	ATOMIC ABS-FLAMELESS	
5-81	36	8	29.5	ATOMIC ABS-DIRECT, EPA	
5-81	42	4	35.2	ATOMIC ABS-FLAMELESS	
6-81	45	8	29.5	ATOMIC ABS-DIRECT	
6-81	51			NOT DETERMINED	
5-81	54			NOT DETERMINED	
5-81	55			NOT DETERMINED	
5-81	56	10	61.9	ATOMIC ABS-DIRECT	
5-81	57			NOT DETERMINED	
5-81	58	5	19.0	ATOMIC ABS-DIRECT, EPA	
5-81	59			NOT DETERMINED	
5-81	61	4	35.2	ATOMIC ABS-FLAMELESS	
5-81	67			NOT DETERMINED	
6-81	68			NOT DETERMINED	
5-81	69	6	2.9	ATOMIC ABS-DIRECT, EPA	
5-81	71	5	19.0	ATOMIC ABS-CHELATION/EXTRACTION, I-1720, USGS TWRI BK5 A1	
5-81	72	4	35.2	ATOMIC ABS-FLAMELESS	
6-81	79	16	159.0	REJECT ATOMIC ABS-FLAMELESS	

TOTAL RANGE	4.0000 -	22.0000				SAMPLE 1
MEAN	6.1765	AVERAGE DEVIATION	2.0138			
STANDARD DEVIATION	2.5307	95 PCT.CONF.INTVL OF MEAN	6.1765 +OR-	1.3012		AG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	ZN
5-81	2	120	26.5	EMISSION-PLASMA ICP	
5-81	3	260	59.2	ATOMIC ABS-DIRECT	
5-81	4	180	10.2	ATOMIC ABS-DIRECT, EPA	
5-81	5	160	2.0	ATOMIC ABS-DIRECT, EPA	
5-81	6	180	10.2	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
6-81	7	120	26.5	EMISSION-PLASMA ICP	
5-81	9	280	71.5	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
5-81	10	280	71.5	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
5-81	11	150	8.1	ATOMIC ABS-DIRECT, EPA	
5-81	16	160	2.0	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
6-81	18			NOT DETERMINED	
6-81	22	130	20.4	EMISSION-PLASMA ICP	
5-81	27	250	53.1	ATOMIC ABS-DIRECT	
5-81	28	180	10.2	ATOMIC ABS-DIRECT, EPA	
5-81	29	180	10.2	ATOMIC ABS-DIRECT	
5-81	31	52	68.2	EMISSION-PLASMA ICP	
6-81	32	740	353.2	REJECT ATOMIC ABS-DIRECT, EPA	
5-81	35	80	51.0	ATOMIC ABS-DIRECT, EPA	
5-81	36	150	8.1	ATOMIC ABS-DIRECT, EPA	
5-81	42	140	14.3	ATOMIC ABS-DIRECT	
6-81	45	200	22.5	ATOMIC ABS-DIRECT	
6-81	51	190	16.4	ATOMIC ABS-DIRECT	
5-81	54			NOT DETERMINED	
5-81	55	140	14.3	ATOMIC ABS-DIRECT, EPA	
5-81	56	160	2.0	ATOMIC ABS-DIRECT	
5-81	57	90	44.9	ATOMIC ABS-DIRECT	
5-81	58	80	51.0	ATOMIC ABS-DIRECT, EPA	
5-81	59	160	2.0	ATOMIC ABS-DIRECT	
5-81	61			NOT DETERMINED	
5-81	67	160	2.0	EMISSION-PLASMA DC	
6-81	68	130	20.4	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
5-81	69	160	2.0	ATOMIC ABS-DIRECT, EPA	
5-81	71	220	34.7	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
5-81	72	130	20.4	ATOMIC ABS-DIRECT	
6-81	79	190	16.4	ATOMIC ABS-DIRECT	

TOTAL RANGE	52.0000	-	740.0000			SAMPLE 1
MEAN	163.2903	AVERAGE DEVIATION	40.6784			
STANDARD DEVIATION	55.2050	95 PCT.CONF.INTVL OF MEAN	163.2903 +OR-	20.2467		ZN

DETERMINATION	NO. LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN		
			95 PCT. CI	X +OR- STD	X +OR- 2STD
AL	23	4	27	73	95
FE	33	0	33	73	91
MN	32	3	35	65	100
AS	24	0	50	71	96
BA	21	5	60	80	90
BE	11	9	50	60	100
CD	28	7	46	85	92
CR TOT	32	9	34	72	93
CO	12	17	70	80	90
CU	35	11	23	77	94
PB	28	4	26	74	96
LI	12	8	55	73	91
HG	23	4	64	86	91
MO	9	0	56	67	100
NI	22	14	37	79	95
SE	16	0	56	81	94
AG	19	11	35	82	94
ZN	32	3	39	71	90

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR ORG-N
6-81	2			NOT DETERMINED
5-81	4	0.0 + .80	100.0	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
5-81	5	0.65 ✓ .35	3.3	PHENATE, AUTO, EPA
6-81	7			NOT DETERMINED
5-81	9	1.50	138.4	NESSLERIZATION, I-1550, ORG N BY DIFF, USGS TWRI BK5 CH A1
5-81	10	1.40	122.5	NESSLERIZATION, I-1550, ORG N BY DIFF, USGS TWRI BK5 CH A1
5-81	11	0.09 .43	85.7	TOTAL KJELDAHL, ORG N BY DIFF, EPA
5-81	12	0.54 .45	14.2	TOTAL KJELDAHL, ORG N BY DIFF, EPA
5-81	13	0.48 ✓ .31	23.7	PHENATE, AUTO, EPA
5-81	14	0.09 .56	85.7	OTHER
5-81	15			NOT DETERMINED
5-81	16	0.64 ✓ .56	1.7	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
5-81	17	0.70 .28	11.2	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
6-81	18	0.82 .22	30.3	OTHER
5-81	19	1.00 .74	58.9	NESSLERIZATION, I-1550, ORG N BY DIFF, USGS TWRI BK5 CH A1
6-81	21			NOT DETERMINED
6-81	22	0.35 .50	44.4	TOTAL KJELDAHL, ORG N BY DIFF, EPA
5-81	25			NOT DETERMINED
5-81	27	0.45 ✓ .31	28.5	PHENATE, AUTO, EPA
5-81	28	0.67 .32	6.5	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
5-81	29			NOT DETERMINED
6-81	32	1.50 .31	138.4	NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC, EPA
5-81	33	0.34 .26	46.0	NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC, EPA
5-81	36	0.96 .29	52.5	NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC, EPA
5-81	42			NOT DETERMINED
6-81	43			NOT DETERMINED
6-81	45	0.28 .32	55.5	TOTAL KJELDAHL, ORG N BY DIFF, EPA
4-81	47	0.53 .39	15.8	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
5-81	48			NOT DETERMINED
6-81	51			NOT DETERMINED
5-81	53	0.60 ✓ .33	4.7	PHENATE, AUTO, EPA
5-81	54			NOT DETERMINED
5-81	55	2.70 .46	329.0	REJECT NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC, EPA
5-81	57	0.40 .50	36.4	TOTAL KJELDAHL, ORG N BY DIFF, EPA
5-81	58	0.48 .40	23.7	OTHER
5-81	59	0.62 .17	1.5	OTHER
5-81	60			NOT DETERMINED
5-81	61			NOT DETERMINED
5-81	63			NOT DETERMINED
5-81	66	0.36 .29	42.8	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR ORG-N
6-81	68			NOT DETERMINED
5-81	69	0.30	52.3	NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC, EPA
5-81	71	1.10	74.8	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
5-81	72			NOT DETERMINED
6-81	73			NOT DETERMINED
5-81	75			NOT DETERMINED
5-81	76			NOT DETERMINED
6-81	77	1.40	122.5	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
6-81	79	0.0	100.0	NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 14ED

TOTAL RANGE	0.0	-	2.7000			SAMPLE 5
MEAN		0.6293	AVERAGE DEVIATION	0.3302		
STANDARD DEVIATION		0.4311	95 PCT.CONF.INTVL OF MEAN	0.6293 +OR-	0.1639	ORG-N

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NO2-N
6-81	2			
5-81	4	0.53	3.1	NOT DETERMINED
5-81	5			TECHNICON AUTOANALYZER, DIAZOTIZATION
6-81	7			NOT DETERMINED
5-81	9	0.46	15.9	NOT DETERMINED
5-81	10	0.46	15.9	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	11	0.55	0.5	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	12	0.57	4.2	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	13	0.53	3.1	OTHER
5-81	14			TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	15	0.45	17.8	NOT DETERMINED
5-81	16	0.56	2.4	DIAZOTIZATION, APHA STD METH, 14ED
5-81	17			DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
6-81	18	0.56	2.4	NOT DETERMINED
5-81	19	0.54	1.3	TECHNICON AUTOANALYZER, DIAZOTIZATION
6-81	21	0.52	5.0	DIAZOTIZATION, EPA
6-81	22	0.56	2.4	DIAZOTIZATION, APHA STD METH, 14ED
5-81	25	0.35	36.0	DIAZOTIZATION, APHA STD METH, 14ED
5-81	27	0.53	3.1	REJECT TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	28	0.52	5.0	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	29			DIAZOTIZATION, EPA
6-81	32	0.64	17.0	NOT DETERMINED
5-81	33	0.55	0.5	DIAZOTIZATION, APHA STD METH, 14ED
5-81	36			DIAZOTIZATION, APHA STD METH, 14ED
5-81	42	0.54	1.3	NOT DETERMINED
6-81	43			DIAZOTIZATION, EPA
6-81	45	0.53	3.1	NOT DETERMINED
4-81	47	0.54	1.3	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	48	0.53	3.1	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
6-81	51	0.60	9.7	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	53	0.53	3.1	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	54			TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	55	0.60	9.7	NOT DETERMINED
5-81	57			DIAZOTIZATION, APHA STD METH, 14ED
5-81	58	0.55	0.5	NOT DETERMINED
5-81	59			TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	60	0.56	2.4	NOT DETERMINED
5-81	61	0.57	4.2	TECHNICON AUTOANALYZER, DIAZOTIZATION
5-81	63			DIAZOTIZATION, EPA
5-81	66	0.53	3.1	NOT DETERMINED
				DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NO2-N
6-81	68	0.52	5.0	DIAZOTIZATION, EPA
5-81	69	0.56	2.4	DIAZOTIZATION, APHA STD METH, 14ED
5-81	71	0.57	4.2	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
5-81	72	0.59	7.8	TECHNICON AUTOANALYZER, DIAZOTIZATION
6-81	73			NOT DETERMINED
5-81	75	0.66	20.6	DIAZOTIZATION, EPA
5-81	76	0.53	3.1	TECHNICON AUTOANALYZER, DIAZOTIZATION
6-81	77	0.56	2.4	TECHNICON AUTOANALYZER, DIAZOTIZATION
6-81	79	0.55	0.5	DIAZOTIZATION, EPA

TOTAL RANGE	0.3500	-	0.6600					SAMPLE 5
MEAN	0.5471			AVERAGE DEVIATION	0.0292			
STANDARD DEVIATION	0.0423			95 PCT.CONF.INTVL OF MEAN	0.5471 +OR-	0.0145		NO2-N

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NH3-N
6-81	2	0.46	4.9	OTHER
5-81	4	0.80	82.5	PHENATE, AUTO, EPA
5-81	5	0.35	20.2	PHENATE, AUTO, EPA
6-81	7			NOT DETERMINED
5-81	9			NOT DETERMINED
5-81	10			NOT DETERMINED
5-81	11	0.43	1.9	PHENATE, AUTO, EPA
5-81	12	0.45	2.6	OTHER
5-81	13	0.31	29.3	PHENATE, AUTO, EPA
5-81	14	0.56	27.7	OTHER
5-81	15	0.67	52.8	OTHER
5-81	16	0.56	27.7	OTHER
5-81	17	0.28	36.1	INDOPHENOL,AUTO, I-2523, USGS TWRI BK5 CH A1
6-81	18	0.22	49.8	PHENATE, AUTO, EPA
5-81	19	0.74	68.8	DISTILLATION-NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 1
6-81	21	1.00	128.1	ION-SELECTIVE ELECTRODE, EPA
6-81	22	0.50	14.0	ION-SELECTIVE ELECTRODE, EPA
5-81	25	0.20	54.4	PHENATE, AUTO, EPA
5-81	27	0.31	29.3	PHENATE, AUTO, EPA
5-81	28	0.32	27.0	PHENATE, AUTO, EPA
5-81	29			NOT DETERMINED
6-81	32	0.31	29.3	PHENATE, AUTO, EPA
5-81	33	0.26	40.7	ION-SELECTIVE ELECTRODE, EPA
5-81	36	0.29	33.9	ION-SELECTIVE ELECTRODE, EPA
5-81	42	0.32	27.0	PHENATE, AUTO, EPA
6-81	43			NOT DETERMINED
6-81	45	0.32	27.0	PHENATE, AUTO, EPA
4-81	47	0.39	11.1	INDOPHENOL,AUTO, I-2523, USGS TWRI BK5 CH A1
5-81	48	0.86	96.1	ION-SELECTIVE ELECTRODE, EPA
6-81	51	0.22	49.8	PHENATE, AUTO, EPA
5-81	53	0.33	24.7	PHENATE, AUTO, EPA
5-81	54			NOT DETERMINED
5-81	55	0.40	8.8	DISTILLATION-NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC,
5-81	57	0.50	14.0	PHENATE, AUTO, EPA
5-81	58	0.40	8.8	OTHER
5-81	59	0.17	61.2	PHENATE, AUTO, EPA
5-81	60			NOT DETERMINED
5-81	61			NOT DETERMINED
5-81	63	0.80	82.5	DISTILLATION-NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 1
5-81	66	0.29	33.9	INDOPHENOL,AUTO, I-2523, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN
6-81	68		
5-81	69	0.46	4.9
5-81	71	0.48	9.5
5-81	72	0.50	14.0
6-81	73		
5-81	75	0.44	0.4
5-81	76	0.27	38.4
6-81	77	0.63	43.7
6-81	79	0.30	31.6

METHODS FOR NH3-N

NOT DETERMINED
DISTILLATION-NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC,
INDOPHENOL,AUTO, I-2523, USGS TWRI BK5 CH A1
OTHER

NOT DETERMINED
ION-SELECTIVE ELECTRODE, EPA
OTHER
PHENATE, AUTO, EPA
ION-SELECTIVE ELECTRODE, EPA

TOTAL RANGE	0.1700	-	1.0000			
MEAN	0.4385			AVERAGE DEVIATION	0.1516	SAMPLE 5
STANDARD DEVIATION	0.1966			95 PCT.CONF.INTVL OF MEAN	0.4385 +OR-	0.0636 NH3-N

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NO3-N
6-81	2	2.6	37.5	REJECT OTHER
5-81	4	4.7	12.9	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	5			NOT DETERMINED
6-81	7	3.6	13.5	OTHER
5-81	9	4.4	5.7	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	10	4.5	8.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	11	4.7	12.9	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-81	12	3.8	8.7	OTHER
5-81	13	4.5	8.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	14			NOT DETERMINED
5-81	15	4.2	0.9	BRUCINE, APHA STD METH, 14ED
5-81	16	4.1	1.5	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-81	17			NOT DETERMINED
6-81	18	4.2	0.9	TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION
5-81	19	4.1	1.5	MANUAL, CADMIUM REDUCTION
6-81	21	3.8	8.7	BRUCINE, APHA STD METH, 14ED
6-81	22	3.9	6.3	BRUCINE, APHA STD METH, 14ED
5-81	25	4.1	1.5	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	27	4.1	1.5	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	28	4.2	0.9	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	29	4.3	3.3	OTHER
6-81	32	4.4	5.7	MANUAL, CADMIUM REDUCTION
5-81	33	3.4	18.3	BRUCINE, APHA STD METH, 14ED
5-81	36	4.9	17.7	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	42	4.0	3.9	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-81	43			NOT DETERMINED
6-81	45	4.1	1.5	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
4-81	47	4.4	5.7	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-81	48	4.5	8.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-81	51	4.0	3.9	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	53	4.1	1.5	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	54	4.8	15.3	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	55	2.1	49.5	REJECT BRUCINE, APHA STD METH, 14ED
5-81	57			NOT DETERMINED
5-81	58	3.0	27.9	TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION
5-81	59	4.5	8.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	60	4.1	1.5	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	61	3.8	8.7	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
5-81	63	4.8	15.3	BRUCINE, I-1530, USGS TWRI, BK5 CH A1
5-81	66	4.0	3.9	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR N03-N
6-81	68	2.4	42.3	REJECT	MANUAL, CADMIUM REDUCTION
5-81	69	4.7	12.9		BRUCINE, APHA STD METH, 14ED
5-81	71	4.1	1.5		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
5-81	72	4.6	10.5		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-81	73	3.4	18.3		OTHER
5-81	75	18.0	332.4	REJECT	BRUCINE, APHA STD METH, 14ED
5-81	76	4.1	1.5		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-81	77	4.0	3.9		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
6-81	79	3.6	13.5		MANUAL, CADMIUM REDUCTION

TOTAL RANGE	2.1000	-	18.0000			SAMPLE 5
MEAN	4.1625		AVERAGE DEVIATION	0.3187		
STANDARD DEVIATION	0.4180		95 PCT.CONF.INTVL OF MEAN	4.1625 +OR-	0.1336	N03-N

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR PO4-P
6-81	2	0.40	1.0		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-81	4	0.44	8.9		ASCORBIC ACID, APHA STD METH, 14ED
5-81	5	0.38	5.9		ASCORBIC ACID, APHA STD METH, 14ED
6-81	7	0.34	15.8		PHOSPHOMOLYBDATE, I-1601, USGS TWRI BK5 CH A1
5-81	9	0.40	1.0		PHOSPHOMOLYBDATE, I-1601, USGS TWRI BK5 CH A1
5-81	10	0.44	8.9		PHOSPHOMOLYBDATE, I-1601, USGS TWRI BK5 CH A1
5-81	11	0.51	26.3		ASCORBIC ACID, APHA STD METH, 14ED
5-81	12	0.30	25.7		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-81	13	0.38	5.9		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	14	2.60	543.6	REJECT	PHOSPHONOLYBDATE, EPA
5-81	15	0.58	43.6	REJECT	OTHER
5-81	16	0.37	8.4		PHOSPHOMOLYBDATE,AUTO, I-2601, USGS TWRI BK5 CH A1
5-81	17	0.44	8.9		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-81	18	0.46	13.9		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	19	0.40	1.0		PHOSPHONOLYBDATE, EPA
6-81	21	1.20	197.1	REJECT	ASCORBIC ACID, APHA STD METH, 14ED
6-81	22	0.39	3.5		ASCORBIC ACID, APHA STD METH, 14ED
5-81	25	0.39	3.5		ASCORBIC ACID, APHA STD METH, 14ED
5-81	27	0.40	1.0		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	28	0.40	1.0		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	29				NOT DETERMINED
6-81	32	0.41	1.5		ASCORBIC ACID, APHA STD METH, 14ED
5-81	33	0.40	1.0		OTHER
5-81	36	0.41	1.5		PHOSPHONOLYBDATE, EPA
5-81	42	0.50	23.8		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
6-81	43				NOT DETERMINED
6-81	45	0.42	4.0		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
4-81	47	0.38	5.9		ASCORBIC ACID, APHA STD METH, 14ED
5-81	48	0.34	15.8		PHOSPHONOLYBDATE, EPA
6-81	51	0.33	18.3		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-81	53	0.42	4.0		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	54				NOT DETERMINED
5-81	55	0.74	83.2	REJECT	PHOSPHONOLYBDATE, EPA
5-81	57	0.40	1.0		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-81	58	0.44	8.9		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-81	59				NOT DETERMINED
5-81	60	0.43	6.4		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-81	61				NOT DETERMINED
5-81	63	0.38	5.9		OTHER
5-81	66	0.38	5.9		PHOSPHOMOLYBDATE,AUTO, I-2601, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR P04-P
6-81	68	0.48	18.8	PHOSPHONOLYBDATE, EPA
5-81	69	0.38	5.9	PHOSPHONOLYBDATE, EPA
5-81	71	0.37	8.4	PHOSPHOMOLYBDATE, AUTO, I-2601, USGS TWRI BKS CH A1
5-81	72	0.46	13.9	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-81	73	0.40	1.0	OTHER
5-81	75			NOT DETERMINED
5-81	76	0.40	1.0	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-81	77	0.38	5.9	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-81	79	0.10	75.2	REJECT ASCORBIC ACID, APHA STD METH, 14ED

TOTAL RANGE	0.1000	-	2.6000			SAMPLE 5
MEAN	0.4039		AVERAGE DEVIATION	0.0318		
STANDARD DEVIATION	0.0436		95 PCT.CONF.INTVL OF MEAN	0.4039 +OR-	0.0143	P04-P

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR P,TOTAL
6-81	2	0.86	93.2	REJECT	OTHER
5-81	4	0.46	3.3		DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
5-81	5	0.40	10.1		DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
6-81	7	0.71	59.5	REJECT	PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
5-81	9	0.50	12.3		PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
5-81	10	0.50	12.3		PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
5-81	11	0.54	21.3		DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
5-81	12	0.33	25.9		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-81	13	0.39	12.4		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	14			NOT DETERMINED	
5-81	15	0.83	86.5	REJECT	EMISSION-PLASMA DC
5-81	16	0.43	3.4		PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
5-81	17	0.44	1.2		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-81	18	0.49	10.1		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	19	0.43	3.4		PHOSPHOMOLYBDATE, EPA
6-81	21	0.40	10.1		DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
6-81	22	0.40	10.1		DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
5-81	25			NOT DETERMINED	
5-81	27	0.41	7.9		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	28	0.40	10.1		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-81	29	0.57	28.0		OTHER
6-81	32	0.43	3.4		DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
5-81	33	0.49	10.1		OTHER
5-81	36	0.47	5.6		PHOSPHOMOLYBDATE, EPA
5-81	42	0.51	14.6		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
6-81	43	0.43	3.4		PHOSPHOMOLYBDATE, EPA
6-81	45	0.44	1.2		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
4-81	47	0.39	12.4		DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
5-81	48	0.40	10.1		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
6-81	51	0.38	14.6		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-81	53	0.42	5.6		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	54			NOT DETERMINED	
5-81	55			NOT DETERMINED	
5-81	57	0.50	12.3		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
5-81	58	0.73	64.0	REJECT	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	59	0.35	21.4		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	60			NOT DETERMINED	
5-81	61	0.43	3.4		PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
5-81	63	0.44	1.2		EMISSION-PLASMA DC
5-81	66	0.39	12.4		PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR P,TOTAL
6-81	68	0.48	7.8		PHOSPHOMOLYBDATE, EPA
5-81	69	2.70	506.5	REJECT	PHOSPHOMOLYBDATE, EPA
5-81	71	0.60	34.8		PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
5-81	72	3.00	573.9	REJECT	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-81	73				NOT DETERMINED
5-81	75				NOT DETERMINED
5-81	76				NOT DETERMINED
6-81	77	0.44	1.2		TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
6-81	79	0.50	12.3		DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED

TOTAL RANGE	0.3300	-	3.0000						
MEAN	0.4451			AVERAGE DEVIATION	0.0470			SAMPLE	5
STANDARD DEVIATION	0.0594			95 PCT.CONF.INTVL OF MEAN	0.4451 +OR-	0.0204		P,TOTAL	

DETERMINATION	NO. LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN		
			95 PCT. CI	X +OR- STD	X +OR- 2STD
ORG-N	30	3	34	69	93
NO2-N	36	3	37	77	86
NH3-N	39	0	31	74	95
NO3-N	44	9	30	70	98
PO4-P	43	12	34	76	92
P,TOTAL	41	15	29	80	94

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, SI02

METHOD	MEAN	ST.DEV	N
OVER-ALL	9.7907	1.8109	43
MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1	10.7125	0.7586	8
MOLYBDSILICATE, APHA STD METH, 14ED	9.6700	1.7340	10
TECHNICON AUTOANALYZER, MOLYBDSILICATE BLUE	8.4333	2.1621	6
ATOMIC ABS-DIRECT	8.7500	2.3573	4
EMISSION-PLASMA	10.7250	0.9130	8
OTHER	8.4000	3.3645	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, CA

METHOD	MEAN	ST.DEV	N
OVER-ALL	187.8333	19.7520	60
ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1	186.1538	6.5048	13
EDTA TITRIMETRIC, APHA STD METH, 14ED	202.7273	17.9393	11
ATOMIC ABS-DIRECT	182.6087	23.3973	23
EMISSION-PLASMA ICP	185.5555	12.3605	9

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, MG

METHOD	MEAN	ST.DEV	N
OVER-ALL	118.6885	10.0806	61
ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	123.0769	7.5108	13
ATOMIC ABS-DIRECT	119.6000	9.7809	25
EMISSION-PLASMA ICP	116.5555	11.4796	9
CALCULATION FROM CA PLUS MG	116.0000	6.9921	10

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, NA

METHOD	MEAN	ST.DEV	N
OVER-ALL	156.2712	9.6308	59
ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1	159.0000	3.1623	10
ATOMIC ABS-DIRECT	155.7692	9.0214	26
EMISSION-FLAME	155.4545	9.3421	11
EMISSION-PLASMA ICP	154.4444	10.1381	9

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, K

METHOD	MEAN	ST.DEV	N
OVER-ALL	10.2315	1.2291	57
ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	10.2200	1.0820	10
ATOMIC ABS-DIRECT	9.8385	0.8723	26
EMISSION-FLAME	11.4167	1.6634	12
EMISSION-PLASMA ICP	9.8571	0.5713	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, ALK.

METHOD	MEAN	ST.DEV	N
OVER-ALL	303.7590	11.1354	54
ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1	298.6665	13.6629	6
ELECTROMETRIC TITRATION, AUTO, I-2030, USGS TWRI BK 5 CH A1	305.3333	4.1646	3
POTENTIOMETRIC, APHA STD METH, 14ED	306.9543	9.2505	22
INDICATOR, APHA.STD METH, 14ED	306.4543	12.1439	11
AUTOMATED ELECTROMETRIC TITRATION	302.2856	6.6010	7
OTHER	289.6665	19.5024	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, S04

METHOD	MEAN	ST.DEV	N
OVER-ALL	918.3635	69.3022	55
THORIN TITRIMETRIC, I-1820, USGS TWRI BK5 CH A1	910.0000	93.0949	4
GRAVIMETRIC, APHA STD METH, 14ED	936.6665	15.2807	3
TURBIDIMETRIC	910.7998	77.6187	25
TECHNICON AUTOANALYZER, METHYL THYMOL BLUE	916.0000	73.5624	15
OTHER	941.6665	29.9466	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, CL

METHOD	MEAN	ST.DEV	N
OVER-ALL	26.3273	2.1778	55
MOHR, I-1183, USGS TWRI BK5 CH A1	26.5000	1.9149	4
FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1	25.6000	0.5478	5
ARGENTOMETRIC, APHA STD METH, 14ED	27.7273	1.5551	11
MERCURIC NITRATE, APHA STD METH, 14ED	26.5833	3.4761	12
TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE	25.7857	1.1884	14
ION-SELECTIVE ELECTRODE	25.6667	2.5166	3
OTHER	25.7500	1.2583	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, F

METHOD	MEAN	ST.DEV	N
OVER-ALL	1.0938	0.1390	47
ZIRCONIUM-ERIOCHROME R, I-1325, USGS TWRI BKS CH A1	1.1000	0.1000	3
ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BKS CH A1	1.1500	0.1225	6
ION-SELECTIVE ELECTRODE, AUTO, I-2327, USGS TWRI BKS CH A1	1.0667	0.0577	3
MANUAL ION-SELECTIVE ELECTRODE	1.0724	0.1340	25
TECHNICON AUTOANALYZER, ALIZIRIN	1.1000	0.0010	3
OTHER	1.0333	0.0577	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, N02-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	0.5658	0.0296	33
DIAZOTIZATION,AUTO, I-2540, USGS TWRI BKS CH A1	0.5467	0.0322	3
DIAZOTIZATION, APHA STD METH, 14ED	0.5712	0.0242	8
TECHNICON AUTOANALYZER, DIAZOTIZATION	0.5593	0.0296	15
DIAZOTIZATION, EPA	0.5814	0.0313	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, N03-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	4.5625	0.5804	48
CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BKS	4.2600	0.3131	5
BRUCINE, APHA STD METH, 14ED	4.6286	0.6370	7
TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION	4.0000	0.7211	3
TECHNICON AUTOANALYZER, CADMIUM REDUCTION	4.7037	0.5410	27
MANUAL, CADMIUM REDUCTION	4.4000	0.2000	3
OTHER	4.3667	1.0263	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, P,TOTAL

METHOD	MEAN	ST.DEV	N
OVER-ALL	2.6076	0.7413	42
PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BKS CH A1	2.9000	0.3000	3
PHOSPHOMOLYBDATE, EPA	1.8700	0.9948	6
PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA	2.8091	0.6685	11
DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED	2.6750	0.1389	8
TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE	2.1800	1.0060	5
OTHER	2.9833	0.5115	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, DSRD180

METHOD	MEAN	ST.DEV	N
OVER-ALL	1760.6121	58.0015	49
RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1	1753.7500	61.1882	16
RESIDUE-FILTERABLE, APHA STD METH, 14ED	1767.9309	54.0687	29
RESIDUE-ON-EVAPORATION, ASTM METHOD B, D1888	1750.0000	88.8876	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, SP.COND

METHOD	MEAN	ST.DEV	N
OVER-ALL	2081.6362	97.6152	55
WHEATSTONE BRIDGE, I-1780, USGS TWRI BK5 CH A1	2035.0000	109.6965	4
DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1	2103.3333	137.9275	6
WHEATSTONE BRIDGE	2082.9412	90.1166	17
DIRECT READING INSTRUMENT	2080.0000	97.3604	26

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, PH

METHOD	MEAN	ST.DEV	N
OVER-ALL	8.2893	0.1217	66
ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1	8.2214	0.1191	14
ELECTROMETRIC	8.3078	0.1218	51

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, B

METHOD	MEAN	ST.DEV	N
OVER-ALL	417.0833	59.5986	24
DIANTHRIMIDE, I-1110, USGS TWRI BK5 CH A1	423.3333	11.5475	3
CURCUMIN, APHA STD METH, 14ED	430.0000	93.5414	5
CARMINE, APHA STD METH, 14ED	450.0000	62.4500	3
EMISSION-PLASMA ICP	387.5000	14.8805	8

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, SR

METHOD	MEAN	ST.DEV	N
OVER-ALL	2776.4705	130.0451	17
ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	2860.0000	54.7723	5
ATOMIC ABS-DIRECT	2700.0000	182.5742	4
EMISSION PLASMA ICP	2742.8569	113.3961	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 76, V

METHOD	MEAN	ST.DEV	N
OVER-ALL	8.9167	5.7281	12
EMISSION-PLASMA ICP	5.7500	0.5000	4
ATOMIC ASB-FLAMELESS	6.5000	3.0000	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, AL

METHOD	MEAN	ST.DEV	N
OVER-ALL	756.5713	279.0415	35
ATOMIC ABS-DIRECT	741.7646	267.5874	17
ATOMIC ABS-FLAMELESS	790.0000	436.0735	6
EMISSION PLASMA ICP	863.3333	230.1017	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, FE

METHOD	MEAN	ST.DEV	N
OVER-ALL	640.9089	64.6434	55
ATOMIC ABS-DIRECT, I-1381, USGS TWRI BKS CH A1	611.6665	91.0868	6
ATOMIC ABS-DIRECT, EPA	616.0000	69.4673	15
ATOMIC ABS-DIRECT	654.1174	48.7417	17
ATOMIC ABS-FLAMELESS	650.0000	90.5538	4
EMISSION-PLASMA ICP	651.1111	25.7124	9
OTHER	693.3333	100.6653	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, MN

METHOD	MEAN	ST.DEV	N
OVER-ALL	493.1033	41.3884	58
ATOMIC ABS-DIRECT, I-1454, USGS TWRI BKS CH A1	505.7141	31.0161	7
ATOMIC ABS-DIRECT, EPA	482.6665	52.8434	15
ATOMIC ABS-DIRECT	503.3333	34.8104	18
ATOMIC ABS-FLAMELESS	462.5000	55.0000	4
EMISSION-PLASMA ICP	493.6362	12.0623	11

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, SB

METHOD	MEAN	ST.DEV	N
OVER-ALL	35.7778	47.3914	9
ATOMIC ABS-FLAMELESS	30.0000	51.3420	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, AS

METHOD	MEAN	ST.DEV	N
OVER-ALL	10.7576	5.7610	33
ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)	12.0000	2.7255	8
ATOMIC ABS-FLAMELESS	11.1364	6.2587	22

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, BA

METHOD	MEAN	ST.DEV	N
OVER-ALL	79.3548	35.9569	31
ATOMIC ABS-DIRECT, I-1084, USGS TWRI BKS CH A1	110.0000	28.2843	5
ATOMIC ABS-DIRECT	65.4545	33.5749	11
ATOMIC ABS-FLAMELESS	91.4286	49.8092	7
EMISSION, PLASMA ICP	65.7143	5.3452	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, BE

METHOD	MEAN	ST.DEV	N
OVER-ALL	5.6000	2.9952	15
ATOMIC ABS-DIRECT	4.3333	2.4221	6
EMISSION-PLASMA ICP	4.6000	1.1402	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, CD

METHOD	MEAN	ST.DEV	N
OVER-ALL	11.1224	3.9244	49
ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BKS CH A1	11.6667	3.7859	3
ATOMIC ABS-DIRECT	14.0000	5.4772	9
ATOMIC ABS-FLAMELESS	9.0952	2.6440	21
EMISSION-PLASMA ICP	12.0000	3.4157	7
ATOMIC ABS-DIRECT, EPA	12.1111	3.2575	9

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, CR TOT

METHOD	MEAN	ST.DEV	N
OVER-ALL	21.5800	8.8758	50
ATOMIC ABS-DIRECT	19.1333	9.5384	15
ATOMIC ABS-FLAMELESS	27.1111	7.1775	18
EMISSION-PLASMA ICP	19.1667	5.6362	6
ATOMIC ABS-DIRECT, EPA	17.1429	7.5813	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, CO

METHOD	MEAN	ST.DEV	N
OVER-ALL	4.3125	3.4587	16
ATOMIC ABS-FLAMELESS	3.7143	2.0587	7
EMISSION-PLASMA ICP	3.5000	3.8730	4
ATOMIC ABS-DIRECT, EPA	8.3333	4.7258	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, CU

METHOD	MEAN	ST.DEV	N
OVER-ALL	488.0356	32.6646	56
ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1	512.0000	14.8324	5
ATOMIC ABS-DIRECT	488.4209	30.5986	19
ATOMIC ABS-FLAMELESS	487.5000	39.4757	4
EMISSION-PLASMA ICP	470.0000	33.3809	8
ATOMIC ABS-DIRECT, EPA	493.3333	27.4304	15

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, PB

METHOD	MEAN	ST.DEV	N
OVER-ALL	50.7692	37.9817	52
ATOMIC ABS-CHELATION/EXTRACTION, I-1400, USGS TWRI BK5 CH A1	41.0000	4.5826	3
ATOMIC ABS-FLAMELESS	28.6250	18.4268	24
EMISSION-PLASMA ICP	52.0000	27.6496	5
ATOMIC ABS-DIRECT	94.6364	33.0402	11
ATOMIC ABS-DIRECT, EPA	57.8571	53.6421	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, LI

METHOD	MEAN	ST.DEV	N
OVER-ALL	178.4211	23.6322	19
ATOMIC ABS-DIRECT, I-1425, USGS TWRI BKS CH A1	194.0000	15.1658	5
ATOMIC ABS-DIRECT	170.0000	36.0555	5
EMISSION PLASMA ICP	174.0000	15.1658	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, HG

METHOD	MEAN	ST.DEV	N
OVER-ALL	1.8750	0.3059	32
ATOMIC ABS-FLAMELESS, EPA	1.8800	0.2769	25
ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED	1.9500	0.5447	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, MO

METHOD	MEAN	ST.DEV	N
OVER-ALL	18.7692	7.3389	13
EMISSION-PLASMA ICP	18.0000	10.9772	5
ATOMIC ABS-FLAMELESS	19.6667	5.5076	3
ATOMIC ABS-DIRECT	22.3333	2.5166	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, NI

METHOD	MEAN	ST.DEV	N
OVER-ALL	28.7059	16.1668	34
ATOMIC ABS-DIRECT	38.5000	17.0961	10
ATOMIC ABS-FLAMELESS	20.5000	3.9279	8
EMISSION-PLASMA ICP	14.2500	9.9121	4
ATOMIC ABS-DIRECT, EPA	33.6667	17.3421	9

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, SE

METHOD	MEAN	ST.DEV	N
OVER-ALL	16.2800	9.9520	25
ATOMIC ABS-HYDRIDE(NABH4)	17.3333	12.4231	3
ATOMIC ABS-FLAMELESS	13.7778	9.1237	18

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, AG

METHOD	MEAN	ST.DEV	N
OVER-ALL	3.3571	3.2684	28
ATOMIC ABS-DIRECT	6.2857	3.9461	7
ATOMIC ABS-FLAMELESS	1.4167	1.6765	12
ATOMIC ABS-DIRECT, EPA	5.1667	1.7224	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, SR

METHOD	MEAN	ST.DEV	N
OVER-ALL	2386.6665	118.7232	15
ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	2425.0000	50.0133	4
ATOMIC ABS-DIRECT	2375.0000	206.1585	4
EMISSION PLASMA ICP	2360.0000	114.0175	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, TL

METHOD	MEAN	ST.DEV	N
OVER-ALL	5.0000	0.0	2

STATISTICAL INFORMATION BY METHOD -- SAMPLE 77, ZN

METHOD	MEAN	ST.DEV	N
OVER-ALL	598.4614	29.8614	52
ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	610.0000	17.3205	5
ATOMIC ABS-DIRECT	594.7368	29.3201	19
EMISSION-PLASMA ICP	572.2222	19.8620	9
ATOMIC ABS-DIRECT, EPA	610.0000	32.9153	13
OTHER	600.0000	10.0000	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, AL

METHOD	MEAN	ST.DEV	N
OVER-ALL	4763.6328	1196.2412	22
ATOMIC ABS-DIRECT, I-1051, USGS TWRI BKS CH A1	4100.0000	346.4102	3
ATOMIC ABS-DIRECT	4566.6641	1273.7747	9
EMISSION PLASMA ICP	4125.0000	537.7534	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, FE

METHOD	MEAN	ST.DEV	N
OVER-ALL	7697.8750	3252.8916	33
ATOMIC ABS-DIRECT, I-1381, USGS TWRI BKS CH A1	5233.3320	3552.9333	3
ATOMIC ABS-DIRECT, EPA	7460.8320	4023.5293	12
ATOMIC ABS-DIRECT	7977.7773	3198.7449	9
EMISSION-PLASMA ICP	7625.0000	1776.4668	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, MN

METHOD	MEAN	ST.DEV	N
OVER-ALL	314.5161	19.1204	31
ATOMIC ABS-DIRECT, I-1454, USGS TWRI BKS CH A1	325.0000	26.4575	4
ATOMIC ABS-DIRECT, EPA	314.0000	17.1270	10
ATOMIC ABS-DIRECT	316.2500	20.6588	8
EMISSION-PLASMA ICP	308.0000	16.4317	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, AS

METHOD	MEAN	ST.DEV	N
OVER-ALL	13.0417	5.0603	24
ATOMIC ABS-HYDRIDE (SODIUM BOROHYDRIDE)	16.0000	3.5777	6
ATOMIC ABS-FLAMELESS	12.2000	5.1018	15

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, BA

METHOD	MEAN	ST.DEV	N
OVER-ALL	84.5000	62.7841	20
ATOMIC ABS-DIRECT, I-1084, USGS TWRI BKS CH A1	167.5000	89.9537	4
ATOMIC ABS-DIRECT	53.7500	38.8909	8
ATOMIC ABS-FLAMELESS	86.0000	21.9089	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, BE

METHOD	MEAN	ST.DEV	N
OVER-ALL	26.5000	6.3114	10
ATOMIC ABS-DIRECT	22.5000	5.9722	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, CD

METHOD	MEAN	ST.DEV	N
OVER-ALL	5.6923	1.7611	26
ATOMIC ABS-DIRECT	6.8000	2.3875	5
ATOMIC ABS-FLAMELESS	6.1818	0.8739	11
ATOMIC ABS-DIRECT, EPA	4.5000	1.8516	8

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, CR TOT

METHOD	MEAN	ST.DEV	N
OVER-ALL	30.2758	11.2342	29
ATOMIC ABS-DIRECT	31.6250	6.8648	8
ATOMIC ABS-FLAMELESS	32.0000	13.7332	11
ATOMIC ABS-DIRECT, EPA	25.1667	14.8649	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, CO

METHOD	MEAN	ST.DEV	N
OVER-ALL	13.4000	5.2536	10
ATOMIC ABS-FLAMELESS	14.7500	4.3493	4
ATOMIC ABS-DIRECT, EPA	9.3333	7.0238	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, CU

METHOD	MEAN	ST.DEV	N
OVER-ALL	131.4516	20.9886	31
ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1	143.3333	15.2753	3
ATOMIC ABS-DIRECT	132.2500	23.1871	8
EMISSION-PLASMA ICP	136.6667	23.0940	3
ATOMIC ABS-DIRECT, EPA	127.5833	21.2152	12

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, PB

METHOD	MEAN	ST.DEV	N
OVER-ALL	35.5926	20.9454	27
ATOMIC ABS-FLAMELESS	26.6154	12.3797	13
ATOMIC ABS-DIRECT	47.7500	19.5853	4
ATOMIC ABS-DIRECT, EPA	41.2000	28.7350	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, LI

METHOD	MEAN	ST.DEV	N
OVER-ALL	112.7273	16.1808	11
ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1	122.5000	18.9297	4
ATOMIC ABS-DIRECT	106.6667	20.8167	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, HG

METHOD	MEAN	ST.DEV	N
OVER-ALL	11.4864	3.8978	22
ATOMIC ABS-FLAMELESS, EPA	11.3722	4.3097	18

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, MO

METHOD	MEAN	ST.DEV	N
OVER-ALL	91.7778	20.2841	9
ATOMIC ABS-DIRECT	92.0000	10.5830	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, NI

METHOD	MEAN	ST.DEV	N
OVER-ALL	29.6842	15.6313	19
ATOMIC ABS-DIRECT	35.3333	21.3853	3
ATOMIC ABS-FLAMELESS	34.8000	8.4083	5
ATOMIC ABS-DIRECT, EPA	22.2857	11.8422	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, SE

METHOD	MEAN	ST.DEV	N
OVER-ALL	7.4375	4.8713	16
ATOMIC ABS-FLAMELESS	6.6364	5.2777	11

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, AG

METHOD	MEAN	ST.DEV	N
OVER-ALL			
ATOMIC ABS-DIRECT	6.1765	2.5307	17
ATOMIC ABS-FLAMELESS	10.0000	1.6330	4
ATOMIC ABS-DIRECT, EPA	4.1667	0.4083	6
	6.2500	1.2583	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 1, ZN

METHOD	MEAN	ST.DEV	N
OVER-ALL			
ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	163.2903	55.2050	31
ATOMIC ABS-DIRECT	208.3333	62.7429	6
EMISSION-PLASMA ICP	177.2727	49.8179	11
ATOMIC ABS-DIRECT, EPA	105.5000	35.9768	4
	142.2222	37.6755	9

STATISTICAL INFORMATION BY METHOD -- SAMPLE 5, ORG-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	0.6293	0.4311	29
SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BKS CH A1	0.6750	0.4283	8
NESSLERIZATION, I-1550, ORG N BY DIFF, USGS TWRI BKS CH A1	1.3000	0.2646	3
NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC, EPA	0.7750	0.5700	4
PHENATE, AUTO, EPA	0.5450	0.0954	4
TOTAL KJELDAHL, ORG N BY DIFF, EPA	0.3320	0.1654	5
OTHER	0.5025	0.3084	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 5, NO2-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	0.5471	0.0423	35
DIAZOTIZATION,AUTO, I-2540, USGS TWRI BKS CH A1	0.5500	0.0183	4
DIAZOTIZATION, APHA STD METH, 14ED	0.5543	0.0600	7
TECHNICON AUTOANALYZER, DIAZOTIZATION	0.5375	0.0373	16
DIAZOTIZATION, EPA	0.5571	0.0486	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 5, NH3-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	0.4385	0.1966	39
INDOPHENOL,AUTO, I-2523, USGS TWRI BKS CH A1	0.3600	0.0942	4
ION-SELECTIVE ELECTRODE, EPA	0.5214	0.2949	7
PHENATE, AUTO, EPA	0.3587	0.1644	16
OTHER	0.4837	0.1201	8

STATISTICAL INFORMATION BY METHOD -- SAMPLE 5, NO3-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	4.1625	0.4180	40
CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BKS	4.2600	0.2881	5
BRUCINE, APHA STD METH, 14ED	4.0000	0.4848	5
TECHNICON AUTOANALYZER, CADMIUM REDUCTION	4.3000	0.3078	20
MANUAL, CADMIUM REDUCTION	4.0333	0.4041	3
OTHER	3.7750	0.3862	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 5, P04-P

METHOD	MEAN	ST.DEV	N
OVER-ALL	0.4039	0.0436	38
PHOSPHOMOLYBDATE, I-1601, USGS TWRI BK5 CH A1	0.3933	0.0503	3
PHOSPHOMOLYBDATE,AUTO, I-2601, USGS TWRI BK5 CH A1	0.3733	0.0058	3
PHOSPHUNOLYBDATE, EPA	0.4020	0.0512	5
PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA	0.4267	0.0450	6
ASCORBIC ACID, APHA STD METH, 14ED	0.4143	0.0472	7
TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE	0.4000	0.0484	11
OTHER	0.3933	0.0116	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 5, P,TOTAL

METHOD	MEAN	ST.DEV	N
OVER-ALL	0.4451	0.0594	35
PHOSPHUMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1	0.4733	0.1115	3
PHOSPHUMOLYBDATE, EPA	0.4525	0.0263	4
PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA	0.4250	0.0524	8
DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED	0.4400	0.0553	8
TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE	0.4186	0.0543	7