

REPORT OF
ANALYTICAL EVALUATION PROGRAM
STANDARD REFERENCE WATER SAMPLES NOS. 74, 75, and NUTRIENT NO. 4

December 1980

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 69 laboratories for Standard Reference Water Samples Nos. 74, 75, and Nutrient No. 4 distributed on October 27, 1980.

"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. 74 and 75 were collected. Sample No. 75 was acidified to a pH of about 1.5 with nitric acid and then the minor 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. 4 (Nutrients) were collected on June 17, 1980. The sample was filtered through a 0.45- μ m membrane filter on June 23, 1980, and adenosine-5'-monophosphate, potassium dihydrogen phosphate, potassium nitrate, potassium nitrite, and ammonium chloride added. Mercuric chloride (50 mg/L) and sodium chloride (225 mg/L) were then 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.

DETERMINATIONS - NO. 74 (results in mg/L)¹

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)
Bromide (Br)	

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

DETERMINATIONS - No. 75 (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. 4 (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)

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 (1969 Book of ASTM Standards, Part 30, p. 429-445).

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
COLORADO, Denver: McAvoy, 001
COLORADO, Denver: Miller, 002
COLORADO, Denver: Taylor, 003
FLORIDA, Ocala: Kirkland
GEORGIA, Doraville: Erdmann, 030
GEORGIA, Doraville: Belser, 040
LOUISIANA, Baton Rouge: Everett

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, Davis: University of California
CALIFORNIA, La Mesa: San Diego Water Laboratory
CALIFORNIA, La Verne: Metropolitan Water District of Southern California
CALIFORNIA, Los Angeles: Water Quality Laboratory
CALIFORNIA, Los Gatos: Rinconada Water Treatment Plant
CALIFORNIA, Oakland: East Bay Municipal Utility District
CALIFORNIA, Palm Desert: Regional Water Quality Control Board
CALIFORNIA, San Bernardino: San Bernardino County Flood Control District Lab
COLORADO, Denver: Denver Water Department
FLORIDA, Orlando: Orlando Utilities Commission
FLORIDA, Tampa: Hillsborough County Environmental Protection Commission
FLORIDA, West Palm Beach: South Florida Water Management District
FLORIDA, White Springs: Suwannee River Water Management District
GEORGIA, Athens: Department of Horticulture
GEORGIA, Athens: Soil Testing & Plant Tissue Analysis Laboratory
GEORGIA, Atlanta: Environmental Protection Division
GEORGIA, Atlanta: Georgia Geological Survey
ILLINOIS, Champaign: IL-EPA, Division of Laboratories
ILLINOIS, Champaign: Illinois State Water Survey
ILLINOIS, Chicago: IL-EPA, Division of Laboratories
ILLINOIS, Marion: IL-EPA, Division of Laboratories

Other--continued

IOWA, Des Moines: University Hygienic Laboratory
KANSAS, Lawrence: Kansas Geological Survey
MAINE, Augusta: Maine Department of Environmental Protection
MARYLAND, Annapolis: Water Resources Administration
MASSACHUSETTS, Wellesley Hills: Massachusetts Department of Public Works
MISSOURI, Jefferson City: Department of Natural Resources
MONTANA, Butte: Montana Bureau of Mines & Geology
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, Albuquerque: Water Resources Laboratory
NEW MEXICO, Gallup: Soil, Water & Materials Testing Laboratory
NEW YORK, Hauppauge: Suffolk County Health Services Department
NEW YORK, Hempstead: Nassau County Department of Health
NEW YORK, Oakdale: Suffolk County Water Authority
NEW YORK, Rochester: Monroe County Environmental Health Laboratory
NEVADA, Reno: Bureau of Laboratories and Research
NEVADA, Reno: Desert Research Institute
NORTH CAROLINA, Charlotte: Mecklenburg County Environmental Health Dept.
NORTH DAKOTA, Bismarck: ND State Department of Health
NORTH DAKOTA, Bismarck: North Dakota State Labs
OHIO, Dayton: The Miami Conservancy District
OKLAHOMA, Norman: Oklahoma Geological Survey
OREGON, Sandy: City of Portland Water Quality Laboratory
PUERTO RICO, Puerta 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
VIRGINIA, Manassas: Occoquan Watershed Monitoring Laboratory
VIRGINIA, Richmond: Division of Consolidated Laboratories
WASHINGTON, Olympia: Washington Department of Ecology
BRAZIL, Belo Horizonte: Companhia de Pesquisa de Recursos Minerais

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SIO2
11-80	1	6.7	6.3	MOLYBDATE BLUE, AUTO, I-2700, USGS TWRI BK5 CH A1
11-80	2	6.4	1.5	EMISSION-PLASMA
11-80	3	6.1	3.3	EMISSION-PLASMA
12-80	4			NOT DETERMINED
11-80	5	6.6	4.7	MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
11-80	6	6.2	1.7	TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
12-80	7	7.6	20.5	MOLYBDATE BLUE, AUTO, I-2700, USGS TWRI BK5 CH A1
12-80	8	7.6	20.5	MOLYBDATE BLUE, AUTO, I-2700, USGS TWRI BK5 CH A1
10-80	9	6.7	6.3	MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
12-80	10	6.3	0.1	TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
11-80	12			NOT DETERMINED
12-80	13	6.7	6.3	MOLYBDOSILICATE, APHA STD METH, 14ED
12-80	14	6.6	4.7	EMISSION-PLASMA
11-80	15			NOT DETERMINED
11-80	16	3.0	52.4	MOLYBDOSILICATE, APHA STD METH, 14ED
11-80	18	6.9	9.4	MOLYBDOSILICATE, APHA STD METH, 14ED
11-80	19			NOT DETERMINED
11-80	20	6.5	3.1	MOLYBDOSILICATE, APHA STD METH, 14ED
12-80	21	6.0	4.8	TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
12-80	22			NOT DETERMINED
12-80	23	6.5	3.1	EMISSION-PLASMA
12-80	25			NOT DETERMINED
12-80	27			NOT DETERMINED
12-80	28	6.2	1.7	MOLYBDOSILICATE, APHA STD METH, 14ED
11-80	29	6.6	4.7	OTHER
12-80	30	7.4	17.4	TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
12-80	31			NOT DETERMINED
12-80	32	7.2	14.2	TECHNICON AUTOANALYZER, MOLYBDOSILICATE BLUE
12-80	33			NOT DETERMINED
12-80	34			NOT DETERMINED
11-80	36			NOT DETERMINED
12-80	37	6.6	4.7	ATOMIC ABS-DIRECT, I-1702, USGS TWRI BK5 CH A1
12-80	38	8.2	30.0	MOLYBDOSILICATE, APHA STD METH, 14ED
12-80	39	6.9	9.4	MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
12-80	40	6.6	4.7	EMISSION-PLASMA
11-80	43			NOT DETERMINED
11-80	44	6.5	3.1	MOLYBDOSILICATE, APHA STD METH, 14ED
12-80	45			NOT DETERMINED
12-80	46	5.8	8.0	EMISSION-PLASMA
11-80	48	6.4	1.5	MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	SI02
12-80	49	0.2	96.8	REJECT	MOLYBDSILICATE, APHA STD METH, 14ED
12-80	50	6.5	3.1		MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
12-80	51	3.0	52.4		MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
12-80	52			NOT DETERMINED	
12-80	53			NOT DETERMINED	
12-80	54			NOT DETERMINED	
11-80	55	8.0	26.9		MOLYBDSILICATE, APHA STD METH, 14ED
12-80	56			NOT DETERMINED	
12-80	57			NOT DETERMINED	
12-80	58	4.6	27.0		MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
12-80	59			NOT DETERMINED	
12-80	60			NOT DETERMINED	
12-80	61	7.0	11.0		MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1
11-80	62			NOT DETERMINED	
11-80	63			NOT DETERMINED	
12-80	64			NOT DETERMINED	
11-80	65	6.0	4.8		EMISSION-PLASMA
12-80	66	3.4	46.1		EMISSION-PLASMA
12-80	67			NOT DETERMINED	
12-80	68			NOT DETERMINED	
12-80	69	7.2	14.2		HETEROPOLY BLUE, APHA STD METH, 14ED
12-80	70	3.8	39.7		MOLYBDATE BLUE, AUTO, I-2700, USGS TWRI BK5 CH A1
12-80	71			NOT DETERMINED	
11-80	72			NOT DETERMINED	
12-80	73	7.0	11.0		MOLYBDSILICATE, APHA STD METH, 14ED
11-80	74			NOT DETERMINED	
10-80	95			NOT DETERMINED	

TOTAL RANGE	0.2000 -	8.2000			SAMPLE 74
MEAN	6.3054	AVERAGE DEVIATION	0.8251		
STANDARD DEVIATION	1.2398	95 PCT.CONF.INTVL OF MEAN	6.3054 +OR-	0.4119	SI02

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CA
11-80	1	8.5	12.8	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
11-80	2	7.3	3.2	EMISSION-PLASMA ICP
11-80	3	7.1	5.8	EMISSION-PLASMA ICP
12-80	4	7.4	1.8	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
11-80	5	6.9	8.5	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
11-80	6	6.7	11.1	ATOMIC ABS-DIRECT
12-80	7	7.7	2.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
12-80	8	7.6	0.8	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
10-80	9	8.0	6.1	ATOMIC ABS-DIRECT
12-80	10	7.3	3.2	EMISSION-PLASMA ICP
11-80	12	8.0	6.1	EDTA TITRIMETRIC, APHA STD METH, 14ED
12-80	13	2.8	62.9	REJECT EDTA TITRIMETRIC, APHA STD METH, 14ED
12-80	14	7.4	1.8	EMISSION-PLASMA ICP
11-80	15	7.4	1.8	ATOMIC ABS-DIRECT
11-80	16			NOT DETERMINED
11-80	18	8.4	11.4	ATOMIC ABS-DIRECT
11-80	19			NOT DETERMINED
11-80	20	7.8	3.5	ATOMIC ABS-DIRECT
12-80	21	7.0	7.1	ATOMIC ABS-DIRECT
12-80	22	8.0	6.1	EDTA TITRIMETRIC, APHA STD METH, 14ED
12-80	23	8.1	7.5	EMISSION-PLASMA ICP
12-80	25	7.7	2.2	ATOMIC ABS-DIRECT
12-80	27			NOT DETERMINED
12-80	28	7.4	1.8	ATOMIC ABS-DIRECT
11-80	29			NOT DETERMINED
12-80	30	7.3	3.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
12-80	31	7.4	1.8	ATOMIC ABS-DIRECT
12-80	32	7.6	0.8	ATOMIC ABS-DIRECT
12-80	33	7.2	4.5	ATOMIC ABS-DIRECT
12-80	34			NOT DETERMINED
11-80	36	7.0	7.1	ATOMIC ABS-DIRECT
12-80	37	7.7	2.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
12-80	38	7.9	4.8	EDTA TITRIMETRIC, APHA STD METH, 14ED
12-80	39	8.3	10.1	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
12-80	40	6.7	11.1	EMISSION-PLASMA ICP
11-80	43	6.2	17.7	EMISSION-FLAME
11-80	44	8.4	11.4	ATOMIC ABS-DIRECT
12-80	45	7.9	4.8	ATOMIC ABS-DIRECT
12-80	46	7.6	0.8	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
11-80	48	7.3	3.2	COMPLEXOMETRIC

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CA
12-80	49	7.9	4.8	EDTA TITRIMETRIC, APHA STD METH, 14ED
12-80	50	7.9	4.8	EDTA TITRIMETRIC, APHA STD METH, 14ED
12-80	51	7.2	4.5	EDTA TITRIMETRIC, APHA STD METH, 14ED
12-80	52	7.2	4.5	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
12-80	53	15	99.0	REJECT ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
12-80	54			NOT DETERMINED
11-80	55	7.0	7.1	EDTA TITRIMETRIC, APHA STD METH, 14ED
12-80	56	9.2	22.1	EDTA TITRIMETRIC, APHA STD METH, 14ED
12-80	57	6.6	12.4	ATOMIC ABS-DIRECT
12-80	58	7.7	2.2	ATOMIC ABS-DIRECT
12-80	59			NOT DETERMINED
12-80	60	7.3	3.2	ATOMIC ABS-DIRECT
12-80	61	8.1	7.5	OTHER
11-80	62	7.6	0.8	ATOMIC ABS-DIRECT
11-80	63	7.3	3.2	EDTA TITRIMETRIC, APHA STD METH, 14ED
12-80	64	6.4	15.1	ATOMIC ABS-DIRECT
11-80	65	6.8	9.8	EMISSION-PLASMA ICP
12-80	66	8.2	8.8	EMISSION-PLASMA ICP
12-80	67	5.3	29.7	REJECT ATOMIC ABS-DIRECT
12-80	68	7.0	7.1	EMISSION-PLASMA ICP
12-80	69	7.8	3.5	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
12-80	70	7.3	3.2	ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1
12-80	71	7.8	3.5	ATOMIC ABS-DIRECT
11-80	72			NOT DETERMINED
12-80	73	8.3	10.1	ATOMIC ABS-DIRECT
11-80	74	7.3	3.2	ATOMIC ABS-DIRECT
10-80	95	8.0	6.1	EDTA TITRIMETRIC, APHA STD METH, 14ED

TOTAL RANGE	2.8000	-	15.0000				SAMPLE 74
MEAN		7.5374	AVERAGE DEVIATION	0.4518			
STANDARD DEVIATION		0.5668	95 PCT.CONF.INTVL OF MEAN	7.5374	+OR-	0.1518	CA

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR MG
11-80	1	2.0	3.2	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
11-80	2	1.8	12.9	EMISSION-PLASMA ICP
11-80	3	1.8	12.9	EMISSION-PLASMA ICP
12-80	4	1.9	8.0	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
11-80	5	2.0	3.2	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
11-80	6	1.8	12.9	ATOMIC ABS-DIRECT
12-80	7	2.1	1.7	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
12-80	8	2.1	1.7	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
10-80	9	2.0	3.2	ATOMIC ABS-DIRECT
12-80	10	2.0	3.2	EMISSION-PLASMA ICP
11-80	12	2.4	16.2	TITRIMETRIC-EDTA, ASTM METHOD 8, D1126
12-80	13	2.3	11.4	ATOMIC ABS-DIRECT
12-80	14	2.0	3.2	EMISSION-PLASMA ICP
11-80	15	1.8	12.9	ATOMIC ABS-DIRECT
11-80	16			NOT DETERMINED
11-80	18	1.8	12.9	ATOMIC ABS-DIRECT
11-80	19			NOT DETERMINED
11-80	20	2.0	3.2	ATOMIC ABS-DIRECT
12-80	21	2.0	3.2	ATOMIC ABS-DIRECT
12-80	22	1.5	27.4	CALCULATION FROM CA PLUS MG
12-80	23	2.1	1.7	EMISSION-PLASMA ICP
12-80	25	1.8	12.9	ATOMIC ABS-DIRECT
12-80	27			NOT DETERMINED
12-80	28	2.0	3.2	ATOMIC ABS-DIRECT
11-80	29			NOT DETERMINED
12-80	30	2.2	6.5	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
12-80	31	2.0	3.2	EMISSION-PLASMA ICP
12-80	32	1.6	22.5	ATOMIC ABS-DIRECT
12-80	33	1.8	12.9	ATOMIC ABS-DIRECT
12-80	34			NOT DETERMINED
11-80	36	2.0	3.2	ATOMIC ABS-DIRECT
12-80	37	2.0	3.2	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
12-80	38	2.9	40.4	CALCULATION FROM CA PLUS MG
12-80	39	2.0	3.2	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
12-80	40	1.9	8.0	EMISSION-PLASMA ICP
11-80	43	1.9	8.0	ATOMIC ABS-DIRECT
11-80	44	1.2	41.9	ATOMIC ABS-DIRECT
12-80	45	3.0	45.2	ATOMIC ABS-DIRECT
12-80	46	2.0	3.2	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1
11-80	48	1.7	17.7	CALCULATION FROM CA PLUS MG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	MG
12-80	49	2.9	40.4	TITRIMETRIC-EDTA, ASTM METHOD B, D1126	
12-80	50	2.6	25.9	CALCULATION FROM CA PLUS MG	
12-80	51	2.8	35.6	CALCULATION FROM CA PLUS MG	
12-80	52	1.9	8.0	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	
12-80	53	2.1	1.7	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	
12-80	54			NOT DETERMINED	
11-80	55	4.0	93.7	REJECT	
12-80	56	2.9	40.4	CALCULATION FROM CA PLUS MG	
12-80	57	1.8	12.9	CALCULATION FROM CA PLUS MG	
12-80	58	2.0	3.2	ATOMIC ABS-DIRECT	
12-80	59			ATOMIC ABS-DIRECT	
12-80	60	1.8	12.9	NOT DETERMINED	
12-80	61	2.1	1.7	ATOMIC ABS-DIRECT	
11-80	62	2.0	3.2	OTHER	
11-80	63	2.9	40.4	ATOMIC ABS-DIRECT	
12-80	64	3.2	54.9	CALCULATION FROM CA PLUS MG	
11-80	65	2.0	3.2	ATOMIC ABS-DIRECT	
12-80	66	2.2	6.5	EMISSION-PLASMA ICP	
12-80	67	1.8	12.9	EMISSION-PLASMA ICP	
12-80	68	1.9	8.0	ATOMIC ABS-DIRECT	
12-80	69	2.0	3.2	EMISSION-PLASMA ICP	
12-80	70	1.8	12.9	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	
12-80	71	2.2	6.5	ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	
11-80	72			ATOMIC ABS-DIRECT	
12-80	73	1.7	17.7	NOT DETERMINED	
11-80	74	1.8	12.9	ATOMIC ABS-DIRECT	
10-80	95	2.0	3.2	ATOMIC ABS-DIRECT	

TOTAL RANGE	1.2000	-	4.0000			
MEAN	2.0655		AVERAGE DEVIATION	0.2697		SAMPLE 74
STANDARD DEVIATION	0.3887		95 PCT.CONF.INTVL OF MEAN	2.0655 +OR-	0.1023	MG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NA
11-80	1	3.1	11.8	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
11-80	2	2.7	2.6	EMISSION-PLASMA ICP
11-80	3	2.5	9.9	EMISSION-PLASMA ICP
12-80	4	3.2	15.4	ATOMIC ABS-DIRECT
11-80	5	6.5	134.4	REJECT EMISSION-FLAME
11-80	6	2.8	1.0	ATOMIC ABS-DIRECT
12-80	7	2.8	1.0	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
12-80	8	2.8	1.0	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
10-80	9	3.0	8.2	ATOMIC ABS-DIRECT
12-80	10	2.9	4.6	EMISSION-PLASMA ICP
11-80	12	3.0	8.2	EMISSION-FLAME
12-80	13	3.2	15.4	EMISSION-FLAME
12-80	14	2.2	20.7	EMISSION-PLASMA ICP
11-80	15	2.6	6.2	ATOMIC ABS-DIRECT
11-80	16			NOT DETERMINED
11-80	18	2.5	9.9	ATOMIC ABS-DIRECT
11-80	19			NOT DETERMINED
11-80	20	2.8	1.0	ATOMIC ABS-DIRECT
12-80	21	3.2	15.4	ATOMIC ABS-DIRECT
12-80	22	2.8	1.0	ATOMIC ABS-DIRECT
12-80	23	2.5	9.9	EMISSION-PLASMA ICP
12-80	25	2.6	6.2	ATOMIC ABS-DIRECT
12-80	27			NOT DETERMINED
12-80	28	2.9	4.6	ATOMIC ABS-DIRECT
11-80	29			NOT DETERMINED
12-80	30	2.8	1.0	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
12-80	31	2.8	1.0	EMISSION-PLASMA ICP
12-80	32			NOT DETERMINED
12-80	33	2.7	2.6	ATOMIC ABS-DIRECT
12-80	34			NOT DETERMINED
11-80	36	2.8	1.0	EMISSION-FLAME
12-80	37	2.8	1.0	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
12-80	38			NOT DETERMINED
12-80	39	3.0	8.2	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1
12-80	40	2.6	6.2	EMISSION-PLASMA ICP
11-80	43	3.0	8.2	ATOMIC ABS-DIRECT
11-80	44	2.4	13.5	EMISSION-FLAME
12-80	45	2.5	9.9	ATOMIC ABS-DIRECT
12-80	46	2.7	2.6	EMISSION-PLASMA ICP
11-80	48	2.7	2.6	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	NA
12-80	49	2.0	27.9	ATOMIC ABS-DIRECT	
12-80	50	3.2	15.4	ATOMIC ABS-DIRECT	
12-80	51	3.5	26.2	EMISSION-FLAME	
12-80	52	2.9	4.6	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1	
12-80	53	4.4	58.7	REJECT ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1	
12-80	54			NOT DETERMINED	
11-80	55	3.0	8.2	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1	
12-80	56	2.8	1.0	ATOMIC ABS-DIRECT	
12-80	57	2.6	6.2	ATOMIC ABS-DIRECT	
12-80	58	2.9	4.6	ATOMIC ABS-DIRECT	
12-80	59			NOT DETERMINED	
12-80	60	2.8	1.0	ATOMIC ABS-DIRECT	
12-80	61	3.0	8.2	OTHER	
11-80	62	2.8	1.0	ATOMIC ABS-DIRECT	
11-80	63	2.8	1.0	EMISSION-FLAME	
12-80	64	2.8	1.0	ATOMIC ABS-DIRECT	
11-80	65	2.0	27.9	EMISSION-PLASMA ICP	
12-80	66	3.7	33.4	EMISSION-PLASMA ICP	
12-80	67	2.6	6.2	ATOMIC ABS-DIRECT	
12-80	68	3.0	8.2	NEUTRON ACTIVATION	
12-80	69	2.6	6.2	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1	
12-80	70	2.8	1.0	ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1	
12-80	71	3.0	8.2	EMISSION-FLAME	
11-80	72	2.4	13.5	ATOMIC ABS-DIRECT	
12-80	73	2.6	6.2	EMISSION-FLAME	
11-80	74	2.4	13.5	ATOMIC ABS-DIRECT	
10-80	95	2.2	20.7	ATOMIC ABS-DIRECT	

TOTAL RANGE	2.0000	-	6.5000			SAMPLE 74
MEAN	2.7732		AVERAGE DEVIATION	0.2290		
STANDARD DEVIATION	0.3165		95 PCT.CONF.INTVL OF MEAN	2.7732 +0R-	0.0848	NA

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	K
11-80	1	10	8.1	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	
11-80	2			NOT DETERMINED	
11-80	3			NOT DETERMINED	
12-80	4	9.6	3.8	ATOMIC ABS-DIRECT	
11-80	5	9.2	0.6	EMISSION-FLAME	
11-80	6	9.8	5.9	ATOMIC ABS-DIRECT	
12-80	7	10	8.1	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	
12-80	8	10	8.1	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	
10-80	9	9.3	0.5	ATOMIC ABS-DIRECT	
12-80	10	8.9	3.8	EMISSION-PLASMA ICP	
11-80	12	9.6	3.8	EMISSION-FLAME	
12-80	13	2.2	76.2	REJECT EMISSION-FLAME	
12-80	14	8.6	7.0	EMISSION-PLASMA ICP	
11-80	15	9.1	1.6	ATOMIC ABS-DIRECT	
11-80	16			NOT DETERMINED	
11-80	18	9.7	4.8	ATOMIC ABS-DIRECT	
11-80	19			NOT DETERMINED	
11-80	20	8.6	7.0	ATOMIC ABS-DIRECT	
12-80	21	9.4	1.6	ATOMIC ABS-DIRECT	
12-80	22	9.2	0.6	ATOMIC ABS-DIRECT	
12-80	23	9.8	5.9	EMISSION-PLASMA ICP	
12-80	25	8.8	4.9	ATOMIC ABS-DIRECT	
12-80	27			NOT DETERMINED	
12-80	28	8.2	11.4	ATOMIC ABS-DIRECT	
11-80	29			NOT DETERMINED	
12-80	30	9.1	1.6	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	
12-80	31	11	18.9	EMISSION-PLASMA ICP	
12-80	32	9.2	0.6	ATOMIC ABS-DIRECT	
12-80	33	8.8	4.9	EMISSION-FLAME	
12-80	34	13	40.5	EMISSION-FLAME	
11-80	36	8.3	10.3	EMISSION-FLAME	
12-80	37	9.1	1.6	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	
12-80	38			NOT DETERMINED	
12-80	39	10	8.1	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	
12-80	40			NOT DETERMINED	
11-80	43	8.5	8.1	ATOMIC ABS-DIRECT	
11-80	44	9.6	3.8	EMISSION-FLAME	
12-80	45	7.5	18.9	ATOMIC ABS-DIRECT	
12-80	46	9.1	1.6	EMISSION-PLASMA ICP	
11-80	48	12	29.7	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	K
12-80	49	9.0	2.7	ATOMIC ABS-DIRECT	
12-80	50	5.8	37.3	ATOMIC ABS-DIRECT	
12-80	51	9.9	7.0	EMISSION-FLAME	
12-80	52	9.3	0.5	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	
12-80	53	11	18.9	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	
12-80	54			NOT DETERMINED	
11-80	55	8.5	8.1	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	
12-80	56	6.4	30.8	ATOMIC ABS-DIRECT	
12-80	57	8.1	12.4	ATOMIC ABS-DIRECT	
12-80	58	9.6	3.8	ATOMIC ABS-DIRECT	
12-80	59			NOT DETERMINED	
12-80	60	9.2	0.6	ATOMIC ABS-DIRECT	
12-80	61	10	8.1	OTHER	
11-80	62	10	8.1	ATOMIC ABS-DIRECT	
11-80	63	9.6	3.8	EMISSION-FLAME	
12-80	64	5.8	37.3	ATOMIC ABS-DIRECT	
11-80	65	8.4	9.2	EMISSION-PLASMA ICP	
12-80	66	11	18.9	EMISSION-PLASMA ICP	
12-80	67	11	18.9	ATOMIC ABS-DIRECT	
12-80	68	9.1	1.6	OTHER	
12-80	69	10	8.1	ATOMIC ABS-DIRECT	
12-80	70	8.9	3.8	ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	
12-80	71			NOT DETERMINED	
11-80	72			NOT DETERMINED	
12-80	73	8.3	10.3	EMISSION-FLAME	
11-80	74	9.5	2.7	ATOMIC ABS-DIRECT	
10-80	95	8.2	11.4	ATOMIC ABS-DIRECT	

TOTAL RANGE	2.2000	-	13.0000			SAMPLE 74
MEAN	9.2518		AVERAGE DEVIATION	0.8575		
STANDARD DEVIATION	1.2559		95 PCT.CONF.INTVL OF MEAN	9.2518	+0R-	0.3425 K

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR ALK.
11-80	1	20	9.0	ELECTROMETRIC TITRATION, AUTO, I-2030, USGS TWRI BK 5 CH A1
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4	22	19.9	POTENTIOMETRIC, APHA STD METH, 14ED
11-80	5			NOT DETERMINED
11-80	6	15	18.2	INDICATOR, APHA.STD METH, 14ED
12-80	7	20	9.0	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
12-80	8	18	1.9	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
10-80	9	15	18.2	AUTOMATED ELECTROMETRIC TITRATION
12-80	10	19	3.6	TECHNICON AUTOANALYZER, METHYL ORANGE
11-80	12	22	19.9	ELECTROMETRIC TITRATION, AUTO, I-2030, USGS TWRI BK 5 CH A1
12-80	13	17	7.3	POTENTIOMETRIC, APHA STD METH, 14ED
12-80	14	14	23.7	INDICATOR, APHA.STD METH, 14ED
11-80	15	20	9.0	OTHER
11-80	16	19	3.6	POTENTIOMETRIC, APHA STD METH, 14ED
11-80	18	17	7.3	POTENTIOMETRIC, APHA STD METH, 14ED
11-80	19	20	9.0	INDICATOR, APHA.STD METH, 14ED
11-80	20	18	1.9	INDICATOR, APHA.STD METH, 14ED
12-80	21	18	1.9	POTENTIOMETRIC, APHA STD METH, 14ED
12-80	22	18	1.9	POTENTIOMETRIC, APHA STD METH, 14ED
12-80	23	19	3.6	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
12-80	25	20	9.0	INDICATOR, APHA.STD METH, 14ED
12-80	27			NOT DETERMINED
12-80	28	20	9.0	POTENTIOMETRIC, APHA STD METH, 14ED
11-80	29	16	12.8	TECHNICON AUTOANALYZER, METHYL ORANGE
12-80	30	18	1.9	ELECTROMETRIC TITRATION, AUTO, I-2030, USGS TWRI BK 5 CH A1
12-80	31			NOT DETERMINED
12-80	32	18	1.9	TECHNICON AUTOANALYZER, METHYL ORANGE
12-80	33	18	1.9	POTENTIOMETRIC, APHA STD METH, 14ED
12-80	34	18	1.9	POTENTIOMETRIC, APHA STD METH, 14ED
11-80	36	19	3.6	POTENTIOMETRIC, APHA STD METH, 14ED
12-80	37	19	3.6	POTENTIOMETRIC, APHA STD METH, 14ED
12-80	38	15	18.2	POTENTIOMETRIC, APHA STD METH, 14ED
12-80	39	19	3.6	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
12-80	40			NOT DETERMINED
11-80	43	19	3.6	POTENTIOMETRIC, APHA STD METH, 14ED
11-80	44	16	12.8	AUTOMATED ELECTROMETRIC TITRATION
12-80	45	15	18.2	POTENTIOMETRIC, APHA STD METH, 14ED
12-80	46	16	12.8	POTENTIOMETRIC, APHA STD METH, 14ED
11-80	48	17	7.3	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR ALK.
12-80	49	23	25.4	POTENTIOMETRIC, APHA STD METH, 14ED
12-80	50	28	52.6	REJECT ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
12-80	51	19	3.6	AUTOMATED ELECTROMETRIC TITRATION
12-80	52	16	12.8	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
12-80	53	17	7.3	OTHER
12-80	54	20	9.0	OTHER
11-80	55	21	14.5	INDICATOR, APHA.STD METH, 14ED
12-80	56	18	1.9	INDICATOR, APHA.STD METH, 14ED
12-80	57			NOT DETERMINED
12-80	58	16	12.8	POTENTIOMETRIC, APHA STD METH, 14ED
12-80	59	16	12.8	OTHER
12-80	60	20	9.0	POTENTIOMETRIC, APHA STD METH, 14ED
12-80	61	19	3.6	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
11-80	62	18	1.9	POTENTIOMETRIC, APHA STD METH, 14ED
11-80	63			NOT DETERMINED
12-80	64			NOT DETERMINED
11-80	65			NOT DETERMINED
12-80	66	38	107.1	REJECT AUTOMATED ELECTROMETRIC TITRATION
12-80	67			NOT DETERMINED
12-80	68			NOT DETERMINED
12-80	69	19	3.6	ELECTROMETRIC TITRATION, AUTO, I-2030, USGS TWRI BK 5 CH A1
12-80	70	18	1.9	ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1
12-80	71			NOT DETERMINED
11-80	72	20	9.0	INDICATOR, APHA.STD METH, 14ED
12-80	73	24	30.8	POTENTIOMETRIC, APHA STD METH, 14ED
11-80	74	17	7.3	POTENTIOMETRIC, APHA STD METH, 14ED
10-80	95	19	3.6	POTENTIOMETRIC, APHA STD METH, 14ED

TOTAL RANGE	14.0000	-	38.0000			SAMPLE 74
MEAN	18.3461		AVERAGE DEVIATION	1.6287		
STANDARD DEVIATION	2.0947		95 PCT.CONF.INTVL OF MEAN	18.3461 +OR-	0.5821	ALK.

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR S04
11-80	1	15	5.1	COMPLEXOMETRIC METHYLTHYMOL BLUE,AUTO, I-2822, USGS TWRI BK5
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4	13	8.9	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
11-80	5	27	89.1	REJECT THORIN TITRIMETRIC, I-1820, USGS TWRI BK5 CH A1
11-80	6	11	23.0	TURBIDIMETRIC
12-80	7	14	1.9	COMPLEXOMETRIC METHYLTHYMOL BLUE,AUTO, I-2822, USGS TWRI BK5
12-80	8	12	15.9	COMPLEXOMETRIC METHYLTHYMOL BLUE,AUTO, I-2822, USGS TWRI BK5
10-80	9	15	5.1	GRAVIMETRIC, APHA STD METH, 14ED
12-80	10	18	26.1	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
11-80	12	14	1.9	TURBIDIMETRIC
12-80	13	16	12.1	TURBIDIMETRIC
12-80	14	15	5.1	TURBIDIMETRIC
11-80	15	15	5.1	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
11-80	16	15	5.1	TURBIDIMETRIC
11-80	18	13	8.9	TURBIDIMETRIC
11-80	19			NOT DETERMINED
11-80	20	18	26.1	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
12-80	21	14	1.9	TURBIDIMETRIC
12-80	22			NOT DETERMINED
12-80	23	11	23.0	OTHER
12-80	25	9	37.0	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
12-80	27	17	19.1	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
12-80	28	14	1.9	TURBIDIMETRIC
11-80	29	13	8.9	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
12-80	30	14	1.9	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
12-80	31	16	12.1	TURBIDIMETRIC
12-80	32	19	33.1	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
12-80	33	12	15.9	TURBIDIMETRIC
12-80	34			NOT DETERMINED
11-80	36	30	110.1	REJECT OTHER
12-80	37			NOT DETERMINED
12-80	38	15	5.1	TURBIDIMETRIC
12-80	39	15	5.1	THORIN TITRIMETRIC, I-1820, USGS TWRI BK5 CH A1
12-80	40			NOT DETERMINED
11-80	43	19	33.1	TURBIDIMETRIC
11-80	44	12	15.9	TURBIDIMETRIC
12-80	45	4	72.0	REJECT TURBIDIMETRIC
12-80	46	13	8.9	GRAVIMETRIC, APHA STD METH, 14ED
11-80	48	15	5.1	THORIN TITRIMETRIC, I-1820, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR S04
12-80	49	7	50.3	GRAVIMETRIC, APHA STD METH, 14ED
12-80	50	12	15.9	OTHER
12-80	51	14	1.9	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
12-80	52	15	5.1	THORIN TITRIMETRIC, I-1820, USGS TWRI BK5 CH A1
12-80	53	20	40.1	TURBIDIMETRIC
12-80	54	12	15.9	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
11-80	55	11	23.0	GRAVIMETRIC, APHA STD METH, 14ED
12-80	56	10	30.0	TURBIDIMETRIC
12-80	57	17	19.1	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
12-80	58	16	12.1	TURBIDIMETRIC
12-80	59			NOT DETERMINED
12-80	60	14	1.9	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
12-80	61	18	26.1	TURBIDIMETRIC
11-80	62	14	1.9	TURBIDIMETRIC
11-80	63	13	8.9	TURBIDIMETRIC
12-80	64			NOT DETERMINED
11-80	65			NOT DETERMINED
12-80	66	13	8.9	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
12-80	67			NOT DETERMINED
12-80	68	14	1.9	TURBIDIMETRIC
12-80	69	15	5.1	TECHNICON AUTOANALYZER, METHYL THYMOL BLUE
12-80	70			NOT DETERMINED
12-80	71	14	1.9	TURBIDIMETRIC
11-80	72	18	26.1	TURBIDIMETRIC
12-80	73	15	5.1	TURBIDIMETRIC
11-80	74			NOT DETERMINED
10-80	95	14	1.9	TURBIDIMETRIC

TOTAL RANGE	4.0000	-	30.0000				SAMPLE 74
MEAN	14.2765		AVERAGE DEVIATION	1.9075			
STANDARD DEVIATION	2.5640		95 PCT.CONF.INTVL OF MEAN	14.2765 +OR-	0.7209		S04

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CL
11-80	1	2.0	15.5	FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4	1.9	9.8	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-80	5	0.0	100.0	SILVER NITRATE, ASTM METHOD B, D512
11-80	6	1.0	42.2	ARGENTOMETRIC, APHA STD METH, 14ED
12-80	7	1.6	7.6	FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1
12-80	8	1.0	42.2	FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1
10-80	9	1.0	42.2	FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1
12-80	10	1.1	36.5	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-80	12	23	*****	REJECT ION-SELECTIVE ELECTRODE
12-80	13	3.7	113.7	ARGENTOMETRIC, APHA STD METH, 14ED
12-80	14	1.0	42.2	ARGENTOMETRIC, APHA STD METH, 14ED
11-80	15	1.3	24.9	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-80	16	6.6	281.3	REJECT MERCURIC NITRATE, APHA STD METH, 14ED
11-80	18	1.1	36.5	ARGENTOMETRIC, APHA STD METH, 14ED
11-80	19			NOT DETERMINED
11-80	20	0.0	100.0	ARGENTOMETRIC, APHA STD METH, 14ED
12-80	21			NOT DETERMINED
12-80	22	3.0	73.3	MERCURIC NITRATE, APHA STD METH, 14ED
12-80	23	1.5	13.4	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
12-80	25	0.0	100.0	ARGENTOMETRIC, APHA STD METH, 14ED
12-80	27	3.0	73.3	MERCURIC NITRATE, APHA STD METH, 14ED
12-80	28	1.7	1.8	MERCURIC NITRATE, APHA STD METH, 14ED
11-80	29			NOT DETERMINED
12-80	30	1.3	24.9	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
12-80	31			NOT DETERMINED
12-80	32			NOT DETERMINED
12-80	33	5.0	188.8	ARGENTOMETRIC, APHA STD METH, 14ED
12-80	34			NOT DETERMINED
11-80	36	0.2	88.4	ARGENTOMETRIC, APHA STD METH, 14ED
12-80	37	2.0	15.5	MERCURIC NITRATE, APHA STD METH, 14ED
12-80	38	4.5	159.9	ARGENTOMETRIC, APHA STD METH, 14ED
12-80	39	3.0	73.3	FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1
12-80	40			NOT DETERMINED
11-80	43	2.0	15.5	MERCURIC NITRATE, APHA STD METH, 14ED
11-80	44	1.0	42.2	MERCURIC NITRATE, APHA STD METH, 14ED
12-80	45	4.0	131.1	ARGENTOMETRIC, APHA STD METH, 14ED
12-80	46			NOT DETERMINED
11-80	48	0.0	100.0	MOHR, I-1183, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CL
12-80	49	1.0	42.2	SILVER NITRATE, ASTM METHOD B, D512
12-80	50	0.6	65.3	SILVER NITRATE, ASTM METHOD B, D512
12-80	51	1.4	19.1	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
12-80	52	1.3	24.9	MERCURIMETRIC, I-1184, USGS TWRI BK5 CH A1
12-80	53	1.2	30.7	MERCURIC NITRATE, APHA STD METH, 14ED
12-80	54	1.5	13.4	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-80	55	0.5	71.1	MOHR, I-1183, USGS TWRI BK5 CH A1
12-80	56	5.0	188.8	MERCURIC NITRATE, APHA STD METH, 14ED
12-80	57	1.0	42.2	MERCURIC NITRATE, APHA STD METH, 14ED
12-80	58	10	477.7	REJECT MERCURIC NITRATE, APHA STD METH, 14ED
12-80	59	2.0	15.5	MERCURIC NITRATE, APHA STD METH, 14ED
12-80	60			NOT DETERMINED
12-80	61	10	477.7	REJECT MOHR, I-1183, USGS TWRI BK5 CH A1
11-80	62	1.5	13.4	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-80	63	2.0	15.5	ARGENTOMETRIC, APHA STD METH, 14ED
12-80	64	7.3	321.7	REJECT MOHR, I-1183, USGS TWRI BK5 CH A1
11-80	65			NOT DETERMINED
12-80	66	1.4	19.1	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
12-80	67			NOT DETERMINED
12-80	68			NOT DETERMINED
12-80	69	1.3	24.9	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
12-80	70			NOT DETERMINED
12-80	71	1.2	30.7	TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE
11-80	72			NOT DETERMINED
12-80	73	3.2	84.9	OTHER
11-80	74			NOT DETERMINED
10-80	95	2.9	67.5	MERCURIMETRIC, I-1184, USGS TWRI BK5 CH A1

TOTAL RANGE	0.0	-	23.0000			SAMPLE 74
MEAN		1.7311	AVERAGE DEVIATION	0.9556		
STANDARD DEVIATION		1.2629	95 PCT.CONF.INTVL OF MEAN	1.7311 +OR-	0.3792	CL

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	F
11-80	1	0.4	10.6		ION-SELECTIVE ELECTRODE, AUTO, I-2327, USGS TWRI BK5 CH A1
11-80	2			NOT DETERMINED	
11-80	3			NOT DETERMINED	
12-80	4	0.4	10.6		MANUAL ION-SELECTIVE ELECTRODE
11-80	5	0.5	38.2		ZIRCONIUM-ERIOCHROME R, I-1325, USGS TWRI BK5 CH A1
11-80	6	0.5	38.2		MANUAL ION-SELECTIVE ELECTRODE
12-80	7	3.2	784.7	REJECT	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
12-80	8	3.3	812.4	REJECT	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
10-80	9	0.4	10.6		MANUAL ION-SELECTIVE ELECTRODE
12-80	10	0.3	17.1		TECHNICON AUTOANALYZER, ALIZIRIN
11-80	12	0.3	17.1		ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
12-80	13	0.3	17.1		MANUAL ION-SELECTIVE ELECTRODE
12-80	14	0.3	17.1		MANUAL ION-SELECTIVE ELECTRODE
11-80	15	0.4	10.6		TECHNICON AUTOANALYZER, ALIZIRIN
11-80	16			NOT DETERMINED	
11-80	18	0.3	17.1		MANUAL ION-SELECTIVE ELECTRODE
11-80	19			NOT DETERMINED	
11-80	20	0.3	17.1		MANUAL ION-SELECTIVE ELECTRODE
12-80	21			NOT DETERMINED	
12-80	22	0.3	17.1		MANUAL ION-SELECTIVE ELECTRODE
12-80	23	0.4	10.6		OTHER
12-80	25	0.3	17.1		MANUAL ION-SELECTIVE ELECTRODE
12-80	27			NOT DETERMINED	
12-80	28	0.3	17.1		MANUAL ION-SELECTIVE ELECTRODE
11-80	29	0.3	17.1		TECHNICON AUTOANALYZER, ION-SELECTIVE ELECTRODE
12-80	30	0.3	17.1		TECHNICON AUTOANALYZER, ION-SELECTIVE ELECTRODE
12-80	31			NOT DETERMINED	
12-80	32	0.4	10.6		MANUAL ION-SELECTIVE ELECTRODE
12-80	33	0.4	10.6		MANUAL ION-SELECTIVE ELECTRODE
12-80	34			NOT DETERMINED	
11-80	36	0.4	10.6		MANUAL ION-SELECTIVE ELECTRODE
12-80	37	0.3	17.1		ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
12-80	38	0.3	17.1		MANUAL ION-SELECTIVE ELECTRODE
12-80	39			NOT DETERMINED	
12-80	40			NOT DETERMINED	
11-80	43	0.3	17.1		TECHNICON AUTOANALYZER, ALIZIRIN
11-80	44	0.4	10.6		MANUAL ION-SELECTIVE ELECTRODE
12-80	45	0.4	10.6		MANUAL ION-SELECTIVE ELECTRODE
12-80	46			NOT DETERMINED	
11-80	48	0.5	38.2		ZIRCONIUM-ERIOCHROME R, I-1325, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR F
12-80	49	0.3	17.1	SPADNS, APHA STD METH, 14ED
12-80	50	0.5	38.2	MANUAL ION-SELECTIVE ELECTRODE
12-80	51	0.4	10.6	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
12-80	52	0.3	17.1	ZIRCONIUM-ERIOCHROME R, I-1325, USGS TWRI BK5 CH A1
12-80	53	0.4	10.6	MANUAL ION-SELECTIVE ELECTRODE
12-80	54	0.3	17.1	OTHER
11-80	55	0.2	44.7	OTHER
12-80	56	0.5	38.2	SPADNS, APHA STD METH, 14ED
12-80	57	0.4	10.6	OTHER
12-80	58			NOT DETERMINED
12-80	59			NOT DETERMINED
12-80	60	0.3	17.1	MANUAL ION-SELECTIVE ELECTRODE
12-80	61	0.4	10.6	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
11-80	62	0.5	38.2	MANUAL ION-SELECTIVE ELECTRODE
11-80	63	0.3	17.1	MANUAL ION-SELECTIVE ELECTRODE
12-80	64			NOT DETERMINED
11-80	65			NOT DETERMINED
12-80	66	0.3	17.1	MANUAL ION-SELECTIVE ELECTRODE
12-80	67			NOT DETERMINED
12-80	68	0.3	17.1	MANUAL ION-SELECTIVE ELECTRODE
12-80	69	0.3	17.1	ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1
12-80	70			NOT DETERMINED
12-80	71	0.4	10.6	MANUAL ION-SELECTIVE ELECTRODE
11-80	72	0.4	10.6	TECHNICON AUTOANALYZER, ALIZIRIN
12-80	73	0.4	10.6	MANUAL ION-SELECTIVE ELECTRODE
11-80	74			NOT DETERMINED
10-80	95	0.4	10.6	MANUAL ION-SELECTIVE ELECTRODE

TOTAL RANGE	0.2000	-	3.3000			SAMPLE 74
MEAN	0.3617		AVERAGE DEVIATION	0.0646		
STANDARD DEVIATION	0.0739		95 PCT.CONF.INTVL OF MEAN	0.3617 +OR-	0.0216	F

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR BR
11-80	1	0.0	100.0	CATALYTIC OXIDATION, I-1127, USGS TWRI BK5 CH A1
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4			NOT DETERMINED
11-80	5			NOT DETERMINED
11-80	6			NOT DETERMINED
12-80	7			NOT DETERMINED
12-80	8			NOT DETERMINED
10-80	9			NOT DETERMINED
12-80	10			NOT DETERMINED
11-80	12			NOT DETERMINED
12-80	13			NOT DETERMINED
12-80	14			NOT DETERMINED
11-80	15			NOT DETERMINED
11-80	16			NOT DETERMINED
11-80	18			NOT DETERMINED
11-80	19			NOT DETERMINED
11-80	20			NOT DETERMINED
12-80	21			NOT DETERMINED
12-80	22	0.18	57.6	OTHER
12-80	23			NOT DETERMINED
12-80	25			NOT DETERMINED
12-80	27			NOT DETERMINED
12-80	28			NOT DETERMINED
11-80	29			NOT DETERMINED
12-80	30	0.80	88.2	CATALYTIC OXIDATION, I-1127, USGS TWRI BK5 CH A1
12-80	31			NOT DETERMINED
12-80	32			NOT DETERMINED
12-80	33			NOT DETERMINED
12-80	34			NOT DETERMINED
11-80	36			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38			NOT DETERMINED
12-80	39			NOT DETERMINED
12-80	40			NOT DETERMINED
11-80	43			NOT DETERMINED
11-80	44			NOT DETERMINED
12-80	45			NOT DETERMINED
12-80	46			NOT DETERMINED
11-80	48			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR BR
12-80	49			NOT DETERMINED
12-80	50			NOT DETERMINED
12-80	51	0.72	69.4	CATALYTIC OXIDATION, ASTM METHOD B, D1246
12-80	52			NOT DETERMINED
12-80	53			NOT DETERMINED
12-80	54			NOT DETERMINED
11-80	55			NOT DETERMINED
12-80	56			NOT DETERMINED
12-80	57			NOT DETERMINED
12-80	58			NOT DETERMINED
12-80	59			NOT DETERMINED
12-80	60			NOT DETERMINED
12-80	61			NOT DETERMINED
11-80	62			NOT DETERMINED
11-80	63			NOT DETERMINED
12-80	64			NOT DETERMINED
11-80	65			NOT DETERMINED
12-80	66			NOT DETERMINED
12-80	67			NOT DETERMINED
12-80	68			NOT DETERMINED
12-80	69			NOT DETERMINED
12-80	70			NOT DETERMINED
12-80	71			NOT DETERMINED
11-80	72			NOT DETERMINED
12-80	73			NOT DETERMINED
11-80	74			NOT DETERMINED
10-80	95			NOT DETERMINED

TOTAL RANGE	0.0	-	0.8000			SAMPLE 74
MEAN		0.4250	AVERAGE DEVIATION	0.3350		
STANDARD DEVIATION		0.3951	95 PCT.CONF.INTVL OF MEAN	0.4250 +OR-	0.6286	BR

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NO2-N
11-80	1	0.0	100.0	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BKS CH A1
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4	0.01	4.2	TECHNICON AUTOANALYZER, DIAZOTIZATION
11-80	5			NOT DETERMINED
11-80	6	0.01	4.2	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	7	0.04	283.3	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BKS CH A1
12-80	8	0.04	283.3	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BKS CH A1
10-80	9	0.0	100.0	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	10			NOT DETERMINED
11-80	12			NOT DETERMINED
12-80	13	0.04	283.3	DIAZOTIZATION, APHA STD METH, 14ED
12-80	14	0.0	100.0	DIAZOTIZATION, EPA
11-80	15			NOT DETERMINED
11-80	16			NOT DETERMINED
11-80	18	0.0	100.0	DIAZOTIZATION, ASTM D1254
11-80	19			NOT DETERMINED
11-80	20	0.0	100.0	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	21	0.01	4.2	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	22	0.0	100.0	DIAZOTIZATION, APHA STD METH, 14ED
12-80	23			NOT DETERMINED
12-80	25	0.0	100.0	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	27			NOT DETERMINED
12-80	28			NOT DETERMINED
11-80	29	0.0	100.0	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	30			NOT DETERMINED
12-80	31			NOT DETERMINED
12-80	32			NOT DETERMINED
12-80	33	0.01	4.2	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	34			NOT DETERMINED
11-80	36			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38			NOT DETERMINED
12-80	39			NOT DETERMINED
12-80	40			NOT DETERMINED
11-80	43			NOT DETERMINED
11-80	44			NOT DETERMINED
12-80	45			NOT DETERMINED
12-80	46			NOT DETERMINED
11-80	48			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NO2-N
12-80	49			NOT DETERMINED
12-80	50			NOT DETERMINED
12-80	51	0.0	100.0	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	52	0.01	4.2	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
12-80	53			NOT DETERMINED
12-80	54			NOT DETERMINED
11-80	55			NOT DETERMINED
12-80	56			NOT DETERMINED
12-80	57	0.07	570.8	REJECT TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	58	0.0	100.0	DIAZOTIZATION, EPA
12-80	59			NOT DETERMINED
12-80	60	0.03	187.5	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	61			NOT DETERMINED
11-80	62			NOT DETERMINED
11-80	63	0.0	100.0	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	64			NOT DETERMINED
11-80	65			NOT DETERMINED
12-80	66			NOT DETERMINED
12-80	67			NOT DETERMINED
12-80	68			NOT DETERMINED
12-80	69	0.0	100.0	DIAZOTIZATION, APHA STD METH, 14ED
12-80	70			NOT DETERMINED
12-80	71			NOT DETERMINED
11-80	72	0.0	100.0	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	73			NOT DETERMINED
11-80	74			NOT DETERMINED
10-80	95	0.04	283.3	DIAZOTIZATION, APHA STD METH, 14ED

TOTAL RANGE	0.0	-	0.0700				SAMPLE 74
MEAN		0.0104		AVERAGE DEVIATION	0.0120		
STANDARD DEVIATION		0.0155		95 PCT.CONF.INTVL OF MEAN	0.0104 +OR-	0.0067	NO2-N

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NO3-N
11-80	1	2.3	6.4	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4	2.3	6.4	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-80	5	2.7	9.9	BRUCINE, I-1530, USGS TWRI, BK5 CH A1
11-80	6	1.9	22.7	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	7	1.9	22.7	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
12-80	8	1.9	22.7	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
10-80	9	10	306.9	REJECT TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	10	2.3	6.4	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-80	12	9.6	290.6	REJECT BRUCINE, APHA STD METH, 14ED
12-80	13	2.6	5.8	MANUAL, CADMIUM REDUCTION
12-80	14	2.3	6.4	OTHER
11-80	15	2.4	2.3	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-80	16			NOT DETERMINED
11-80	18	2.2	10.5	BRUCINE, APHA STD METH, 14ED
11-80	19	2.5	1.7	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-80	20	3.1	26.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	21	2.4	2.3	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	22	3.1	26.1	BRUCINE, APHA STD METH, 14ED
12-80	23	3.6	46.5	REJECT OTHER
12-80	25	2.6	5.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	27	2.3	6.4	MANUAL, CADMIUM REDUCTION
12-80	28	2.2	10.5	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-80	29	1.8	26.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	30	2.3	6.4	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
12-80	31	2.5	1.7	OTHER
12-80	32	2.6	5.8	OTHER
12-80	33	2.6	5.8	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
12-80	34	2.3	6.4	MANUAL, CADMIUM REDUCTION
11-80	36	2.4	2.3	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	37			NOT DETERMINED
12-80	38			NOT DETERMINED
12-80	39	3.4	38.4	BRUCINE, I-1530, USGS TWRI, BK5 CH A1
12-80	40			NOT DETERMINED
11-80	43	2.4	2.3	TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION
11-80	44	2.4	2.3	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	45	2.1	14.5	OTHER
12-80	46			NOT DETERMINED
11-80	48			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR N03-N
12-80	49	2.3	6.4	BRUCINE, I-1530, USGS TWRI, BK5 CH A1
12-80	50	2.5	1.7	OTHER
12-80	51	3.0	22.1	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	52	2.5	1.7	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
12-80	53	3.0	22.1	BRUCINE, I-1530, USGS TWRI, BK5 CH A1
12-80	54	2.5	1.7	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-80	55			NOT DETERMINED
12-80	56	3.0	22.1	BRUCINE, APHA STD METH, 14ED
12-80	57	2.2	10.5	CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
12-80	58	2.5	1.7	MANUAL, CADMIUM REDUCTION
12-80	59			NOT DETERMINED
12-80	60	2.3	6.4	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	61			NOT DETERMINED
11-80	62			NOT DETERMINED
11-80	63	2.4	2.3	TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION
12-80	64			NOT DETERMINED
11-80	65			NOT DETERMINED
12-80	66			NOT DETERMINED
12-80	67			NOT DETERMINED
12-80	68	2.6	5.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	69	2.4	2.3	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	70	2.3	6.4	BRUCINE, APHA STD METH, 14ED
12-80	71	2.6	5.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-80	72	2.6	5.8	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	73	2.5	1.7	MANUAL, CADMIUM REDUCTION
11-80	74	2.5	1.7	TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION
10-80	95	20	713.9	REJECT OTHER

TOTAL RANGE	1.8000	-	20.0000			SAMPLE 74
MEAN	2.4574		AVERAGE DEVIATION	0.2313		
STANDARD DEVIATION	0.3222		95 PCT.CONF.INTVL OF MEAN	2.4574 +OR-	0.0944	N03-N

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR P,TOTAL
11-80	1	0.87	0.1	PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4	0.96	10.2	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
11-80	5			NOT DETERMINED
11-80	6	0.87	0.1	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	7	0.89	2.2	PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
12-80	8	0.89	2.2	PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
10-80	9			NOT DETERMINED
12-80	10	0.90	3.3	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
11-80	12			NOT DETERMINED
12-80	13	0.88	1.0	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
12-80	14	3.2	267.3	REJECT DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
11-80	15			NOT DETERMINED
11-80	16			NOT DETERMINED
11-80	18	0.87	0.1	OTHER
11-80	19			NOT DETERMINED
11-80	20	0.05	94.3	REJECT PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	21			NOT DETERMINED
12-80	22	0.85	2.4	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
12-80	23	0.80	8.2	OTHER
12-80	25			NOT DETERMINED
12-80	27	0.89	2.2	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	28	0.88	1.0	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
11-80	29			NOT DETERMINED
12-80	30	0.87	0.1	PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
12-80	31	0.89	2.2	OTHER
12-80	32	1.3	49.2	REJECT OTHER
12-80	33	0.90	3.3	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
12-80	34	0.88	1.0	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
11-80	36	0.89	2.2	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	37	0.90	3.3	PHOSPHOMOLYBDATE, EPA
12-80	38			NOT DETERMINED
12-80	39			NOT DETERMINED
12-80	40			NOT DETERMINED
11-80	43	0.87	0.1	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
11-80	44	0.89	2.2	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	45	1.1	26.3	REJECT OTHER
12-80	46			NOT DETERMINED
11-80	48			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR P,TOTAL
12-80	49	0.78	10.5	PHOSPHOMOLYBDATE, EPA
12-80	50			NOT DETERMINED
12-80	51	0.85	2.4	PHOSPHOMOLYBDATE, EPA
12-80	52	0.88	1.0	PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
12-80	53			NOT DETERMINED
12-80	54			NOT DETERMINED
11-80	55			NOT DETERMINED
12-80	56	1.1	26.3	REJECT OTHER
12-80	57	0.84	3.6	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	58	0.84	3.6	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
12-80	59			NOT DETERMINED
12-80	60	0.94	7.9	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	61			NOT DETERMINED
11-80	62	0.81	7.0	PHOSPHOMOLYBDATE, EPA
11-80	63	0.85	2.4	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	64			NOT DETERMINED
11-80	65			NOT DETERMINED
12-80	66			NOT DETERMINED
12-80	67			NOT DETERMINED
12-80	68	0.80	8.2	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
12-80	69	0.88	1.0	OTHER
12-80	70	0.95	9.0	PHOSPHOMOLYBDATE, EPA
12-80	71			NOT DETERMINED
11-80	72	0.84	3.6	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
12-80	73	1.4	60.7	REJECT ASCORBIC ACID REDUCTION, ASTM METHOD A, 0515
11-80	74	0.88	1.0	OTHER
10-80	95	0.84	3.6	PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1

TOTAL RANGE	0.0500 -	3.2000			SAMPLE 74
MEAN	0.8712	AVERAGE DEVIATION	0.0288		
STANDARD DEVIATION	0.0394	95 PCT.CONF.INTVL OF MEAN	0.8712 +OR-	0.0137	P,TOTAL

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR DSRD180
11-80	1	69	5.2	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4			NOT DETERMINED
11-80	5			NOT DETERMINED
11-80	6			NOT DETERMINED
12-80	7	78	7.1	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
12-80	8	74	1.6	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
10-80	9			NOT DETERMINED
12-80	10	71	2.5	RESIDUE-FILTERABLE, APHA STD METH, 14ED
11-80	12	76	4.4	RESIDUE-ON-EVAPORATION, ASTM METHOD B, D1888
12-80	13	79	8.5	RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	14	66	9.3	RESIDUE-FILTERABLE, APHA STD METH, 14ED
11-80	15	71	2.5	RESIDUE-FILTERABLE, APHA STD METH, 14ED
11-80	16	76	4.4	RESIDUE-FILTERABLE, APHA STD METH, 14ED
11-80	18	70	3.8	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
11-80	19			NOT DETERMINED
11-80	20	77	5.8	RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	21	70	3.8	RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	22	80	9.9	RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	23			NOT DETERMINED
12-80	25	74	1.6	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
12-80	27	72	1.1	RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	28			NOT DETERMINED
11-80	29			NOT DETERMINED
12-80	30	73	0.3	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
12-80	31			NOT DETERMINED
12-80	32	83	14.0	OTHER
12-80	33	66	9.3	RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	34	86	18.1	RESIDUE-FILTERABLE, APHA STD METH, 14ED
11-80	36			NOT DETERMINED
12-80	37	72	1.1	RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	38	68	6.6	RESIDUE-ON-EVAPORATION, ASTM METHOD B, D1888
12-80	39	67	8.0	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
12-80	40			NOT DETERMINED
11-80	43	67	8.0	RESIDUE-FILTERABLE, APHA STD METH, 14ED
11-80	44	33	54.7	REJECT RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	45	97	33.2	RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	46	72	1.1	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
11-80	48	70	3.8	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR DSRD180
12-80	49	51	29.9	RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	50	86	18.1	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
12-80	51	65	10.7	RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	52	64	12.1	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
12-80	53			NOT DETERMINED
12-80	54	102	40.1	RESIDUE-FILTERABLE, APHA STD METH, 14ED
11-80	55	56	23.1	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
12-80	56	60	17.6	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
12-80	57	74	1.6	RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	58	65	10.7	RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	59			NOT DETERMINED
12-80	60	67	8.0	RESIDUE-ON-EVAPORATION, ASTM METHOD B, D1888
12-80	61	78	7.1	OTHER
11-80	62	63	13.5	RESIDUE-FILTERABLE, APHA STD METH, 14ED
11-80	63	93	27.7	RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	64	66	9.3	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
11-80	65			NOT DETERMINED
12-80	66	81	11.3	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
12-80	67			NOT DETERMINED
12-80	68			NOT DETERMINED
12-80	69	67	8.0	RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	70	61	16.2	RESIDUE-FILTERABLE, APHA STD METH, 14ED
12-80	71	73	0.3	RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1
11-80	72			NOT DETERMINED
12-80	73	80	9.9	RESIDUE-FILTERABLE, APHA STD METH, 14ED
11-80	74	3757	*****	REJECT RESIDUE-FILTERABLE, APHA STD METH, 14ED
10-80	95	115	58.0	REJECT RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BK5 CH A1

TOTAL RANGE 33.0000 - 3757.0000 SAMPLE 74
MEAN 72.8000 AVERAGE DEVIATION 7.2889
STANDARD DEVIATION 9.8894 95 PCT.CONF.INTVL OF MEAN 72.8000 +OR- 2.9691 DSRD180

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SP.COND
11-80	1	110	6.0	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4	97	6.6	WHEATSTONE BRIDGE
11-80	5	105	1.1	WHEATSTONE BRIDGE, I-1780, USGS TWRI BK5 CH A1
11-80	6	90	13.3	WHEATSTONE BRIDGE
12-80	7	104	0.2	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
12-80	8	103	0.8	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
10-80	9	106	2.1	WHEATSTONE BRIDGE
12-80	10	110	6.9	DIRECT READING INSTRUMENT
11-80	12	115	10.8	WHEATSTONE BRIDGE
12-80	13	105	1.1	DIRECT READING INSTRUMENT
12-80	14	112	7.9	WHEATSTONE BRIDGE
11-80	15	112	7.9	WHEATSTONE BRIDGE
11-80	16	109	5.0	DIRECT READING INSTRUMENT
11-80	18	118	13.7	WHEATSTONE BRIDGE
11-80	19	110	6.0	DIRECT READING INSTRUMENT
11-80	20	107	3.1	DIRECT READING INSTRUMENT
12-80	21	100	3.7	DIRECT READING INSTRUMENT
12-80	22	107	3.1	WHEATSTONE BRIDGE
12-80	23	94	9.5	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
12-80	25	112	7.9	DIRECT READING INSTRUMENT
12-80	27	107	3.1	DIRECT READING INSTRUMENT
12-80	28	120	15.6	OTHER
11-80	29	103	0.8	WHEATSTONE BRIDGE
12-80	30	98	5.6	DIRECT READING INSTRUMENT
12-80	31	86	17.2	DIRECT READING INSTRUMENT
12-80	32	120	15.6	OTHER
12-80	33	145	39.7	REJECT WHEATSTONE BRIDGE
12-80	34	104	0.2	DIRECT READING INSTRUMENT
11-80	36	100	3.7	WHEATSTONE BRIDGE
12-80	37	95	8.5	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BK5 A1
12-80	38	95	8.5	WHEATSTONE BRIDGE
12-80	39	101	2.7	WHEATSTONE BRIDGE, I-1780, USGS TWRI BK5 CH A1
12-80	40			NOT DETERMINED
11-80	43	105	1.1	DIRECT READING INSTRUMENT
11-80	44	102	1.8	DIRECT READING INSTRUMENT
12-80	45	110	6.0	DIRECT READING INSTRUMENT
12-80	46			NOT DETERMINED
11-80	48	104	0.2	WHEATSTONE BRIDGE, I-1780, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SP.COND
12-80	49	91	12.3	DIRECT READING INSTRUMENT
12-80	50	109	5.0	WHEATSTONE BRIDGE
12-80	51	107	3.1	DIRECT READING INSTRUMENT
12-80	52	105	1.1	DIRECT READING INSTRUMENT, I-1780, USGS TWRI BKS A1
12-80	53	85	18.1	WHEATSTONE BRIDGE
12-80	54	99	4.6	WHEATSTONE BRIDGE
11-80	55			NOT DETERMINED
12-80	56	101	2.7	DIRECT READING INSTRUMENT
12-80	57	110	6.0	DIRECT READING INSTRUMENT
12-80	58	89	14.3	OTHER
12-80	59			NOT DETERMINED
12-80	60	103	0.8	DIRECT READING INSTRUMENT
12-80	61	100	3.7	DIRECT READING INSTRUMENT
11-80	62	107	3.1	WHEATSTONE BRIDGE
11-80	63	102	1.8	WHEATSTONE BRIDGE
12-80	64	51	50.9	REJECT DIRECT READING INSTRUMENT, I-1780, USGS TWRI BKS A1
11-80	65			NOT DETERMINED
12-80	66	108	4.0	DIRECT READING INSTRUMENT
12-80	67			NOT DETERMINED
12-80	68			NOT DETERMINED
12-80	69	104	0.2	DIRECT READING INSTRUMENT
12-80	70	104	0.2	WHEATSTONE BRIDGE, I-1780, USGS TWRI BKS CH A1
12-80	71	104	0.2	WHEATSTONE BRIDGE
11-80	72	60	42.2	REJECT DIRECT READING INSTRUMENT
12-80	73	103	0.8	WHEATSTONE BRIDGE
11-80	74	95	8.5	DIRECT READING INSTRUMENT
10-80	95	108	4.0	DIRECT READING INSTRUMENT

TOTAL RANGE	51.0000 - 145.0000				SAMPLE 74
MEAN	103.8182	AVERAGE DEVIATION	5.6661		
STANDARD DEVIATION	7.6257	95 PCT.CONF.INTVL OF MEAN	103.8182 +OR-	2.0606	SP.COND

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR PH
11-80	1	7.5	5.1	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4	7.5	5.1	ELECTROMETRIC
11-80	5	6.6	7.5	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
11-80	6	7.2	0.9	ELECTROMETRIC
12-80	7	7.2	0.9	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
12-80	8	7.3	2.3	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
10-80	9	7.1	0.5	ELECTROMETRIC
12-80	10	5.2	27.2	REJECT ELECTROMETRIC
11-80	12	7.4	3.7	ELECTROMETRIC
12-80	13	7.0	1.9	ELECTROMETRIC
12-80	14	7.6	6.5	ELECTROMETRIC
11-80	15	7.3	2.3	ELECTROMETRIC
11-80	16	7.5	5.1	ELECTROMETRIC
11-80	18	7.4	3.7	ELECTROMETRIC
11-80	19	6.8	4.7	ELECTROMETRIC
11-80	20	7.4	3.7	ELECTROMETRIC
12-80	21	7.0	1.9	ELECTROMETRIC
12-80	22	7.4	3.7	ELECTROMETRIC
12-80	23	7.2	0.9	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
12-80	25	6.8	4.7	ELECTROMETRIC
12-80	27	7.2	0.9	ELECTROMETRIC
12-80	28	7.0	1.9	ELECTROMETRIC
11-80	29	7.0	1.9	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
12-80	30	7.5	5.1	ELECTROMETRIC
12-80	31	7.3	2.3	ELECTROMETRIC
12-80	32	6.6	7.5	ELECTROMETRIC
12-80	33	6.7	6.1	ELECTROMETRIC
12-80	34	7.4	3.7	ELECTROMETRIC
11-80	36	7.1	0.5	ELECTROMETRIC
12-80	37	7.5	5.1	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
12-80	38	6.6	7.5	ELECTROMETRIC
12-80	39	7.2	0.9	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
12-80	40			NOT DETERMINED
11-80	43	7.4	3.7	ELECTROMETRIC
11-80	44	7.0	1.9	ELECTROMETRIC
12-80	45	6.8	4.7	ELECTROMETRIC
12-80	46			NOT DETERMINED
11-80	48	6.4	10.4	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR PH
12-80	49	7.2	0.9	ELECTROMETRIC
12-80	50	7.2	0.9	ELECTROMETRIC
12-80	51	7.7	7.9	ELECTROMETRIC
12-80	52	7.5	5.1	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
12-80	53	7.5	5.1	ELECTROMETRIC
12-80	54	6.9	3.3	ELECTROMETRIC
11-80	55	7.0	1.9	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
12-80	56	7.3	2.3	ELECTROMETRIC
12-80	57	6.8	4.7	ELECTROMETRIC
12-80	58	7.0	1.9	ELECTROMETRIC
12-80	59	6.2	13.2	ELECTROMETRIC
12-80	60	7.1	0.5	ELECTROMETRIC
12-80	61	7.1	0.5	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
11-80	62	7.1	0.5	ELECTROMETRIC
11-80	63	7.1	0.5	ELECTROMETRIC
12-80	64	7.1	0.5	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
11-80	65			NOT DETERMINED
12-80	66	7.0	1.9	ELECTROMETRIC
12-80	67			NOT DETERMINED
12-80	68			NOT DETERMINED
12-80	69	7.5	5.1	ELECTROMETRIC, I-1586, USGS TWRI BK5 CH A1
12-80	70	7.5	5.1	ELECTROMETRIC
12-80	71	6.9	3.3	ELECTROMETRIC
11-80	72	7.2	0.9	ELECTROMETRIC
12-80	73	6.5	9.0	ELECTROMETRIC
11-80	74	7.4	3.7	ELECTROMETRIC
10-80	95	7.5	5.1	ELECTROMETRIC

TOTAL RANGE	5.2000	-	7.7000			SAMPLE 74
MEAN	7.1389		AVERAGE DEVIATION	0.2573		
STANDARD DEVIATION	0.3238		95 PCT.CONF.INTVL OF MEAN	7.1389 +OR-	0.0845	PH

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	B
11-80	1	100	61.3	DIANTHRIMIDE, I-1110, USGS TWRI BK5 CH A1	
11-80	2			NOT DETERMINED	
11-80	3			NOT DETERMINED	
12-80	4			NOT DETERMINED	
11-80	5			NOT DETERMINED	
11-80	6			NOT DETERMINED	
12-80	7	50	19.4	DIANTHRIMIDE, I-1110, USGS TWRI BK5 CH A1	
12-80	8	60	3.2	DIANTHRIMIDE, I-1110, USGS TWRI BK5 CH A1	
10-80	9	0	100.0	CARMINE, APHA STD METH, 14ED	
12-80	10	40	35.5	EMISSION-PLASMA ICP	
11-80	12			NOT DETERMINED	
12-80	13			NOT DETERMINED	
12-80	14	50	19.4	EMISSION-PLASMA ICP	
11-80	15	140	125.8	TECHNICON AUTOANALYZER, CARMINIC ACID	
11-80	16			NOT DETERMINED	
11-80	18			NOT DETERMINED	
11-80	19			NOT DETERMINED	
11-80	20	70	12.9	CARMINE, APHA STD METH, 14ED	
12-80	21			NOT DETERMINED	
12-80	22	100	61.3	CURCUMIN, APHA STD METH, 14ED	
12-80	23	30	51.6	EMISSION-PLASMA ICP	
12-80	25			NOT DETERMINED	
12-80	27			NOT DETERMINED	
12-80	28			NOT DETERMINED	
11-80	29			NOT DETERMINED	
12-80	30	20	67.7	DIANTHRIMIDE, I-1110, USGS TWRI BK5 CH A1	
12-80	31	40	35.5	EMISSION-PLASMA ICP	
12-80	32			NOT DETERMINED	
12-80	33			NOT DETERMINED	
12-80	34			NOT DETERMINED	
11-80	36			NOT DETERMINED	
12-80	37			NOT DETERMINED	
12-80	38			NOT DETERMINED	
12-80	39			NOT DETERMINED	
12-80	40			NOT DETERMINED	
11-80	43			NOT DETERMINED	
11-80	44			NOT DETERMINED	
12-80	45			NOT DETERMINED	
12-80	46			NOT DETERMINED	
11-80	48			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	B
12-80	49	20	67.7	CURCUMIN, APHA STD METH, 14ED	
12-80	50			NOT DETERMINED	
12-80	51	40	35.5	OTHER	
12-80	52			NOT DETERMINED	
12-80	53			NOT DETERMINED	
12-80	54			NOT DETERMINED	
11-80	55			NOT DETERMINED	
12-80	56			NOT DETERMINED	
12-80	57			NOT DETERMINED	
12-80	58			NOT DETERMINED	
12-80	59			NOT DETERMINED	
12-80	60			NOT DETERMINED	
12-80	61	0	100.0	CARMINIC ACID, I-1111, USGS TWRI BK5 CH A1	
11-80	62			NOT DETERMINED	
11-80	63			NOT DETERMINED	
12-80	64			NOT DETERMINED	
11-80	65	70	12.9	EMISSION-PLASMA ICP	
12-80	66	40	35.5	EMISSION-PLASMA ICP	
12-80	67			NOT DETERMINED	
12-80	68			NOT DETERMINED	
12-80	69	70	12.9	CURCUMIN, APHA STD METH, 14ED	
12-80	70	180	190.3	CURCUMIN, APHA STD METH, 14ED	
12-80	71			NOT DETERMINED	
11-80	72			NOT DETERMINED	
12-80	73	120	93.5	CURCUMIN, I-1112, USGS TWRI BK5 CH A1	
11-80	74			NOT DETERMINED	
10-80	95			NOT DETERMINED	

TOTAL RANGE	0.0	-	180.0000			SAMPLE 74
MEAN	62.0000	AVERAGE DEVIATION	35.4000			
STANDARD DEVIATION	46.4078	95 PCT.CONF.INTVL OF MEAN	62.0000 +OR-	21.7193		B

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	SR
11-80	1	120	114.7	REJECT	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
11-80	2	60	7.4		EMISSION PLASMA ICP
11-80	3	50	10.5		EMISSION PLASMA ICP
12-80	4			NOT DETERMINED	
11-80	5			NOT DETERMINED	
11-80	6			NOT DETERMINED	
12-80	7	60	7.4		ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
12-80	8	60	7.4		ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
10-80	9			NOT DETERMINED	
12-80	10	60	7.4		EMISSION PLASMA ICP
11-80	12			NOT DETERMINED	
12-80	13			NOT DETERMINED	
12-80	14			NOT DETERMINED	
11-80	15			NOT DETERMINED	
11-80	16			NOT DETERMINED	
11-80	18			NOT DETERMINED	
11-80	19			NOT DETERMINED	
11-80	20	50	10.5		ATOMIC ABS-DIRECT
12-80	21			NOT DETERMINED	
12-80	22			NOT DETERMINED	
12-80	23	60	7.4		EMISSION PLASMA ICP
12-80	25			NOT DETERMINED	
12-80	27			NOT DETERMINED	
12-80	28	100	78.9	REJECT	ATOMIC ABS-DIRECT
11-80	29			NOT DETERMINED	
12-80	30	70	25.3		ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
12-80	31			NOT DETERMINED	
12-80	32			NOT DETERMINED	
12-80	33			NOT DETERMINED	
12-80	34			NOT DETERMINED	
11-80	36			NOT DETERMINED	
12-80	37			NOT DETERMINED	
12-80	38			NOT DETERMINED	
12-80	39	60	7.4		ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
12-80	40	50	10.5		EMISSION PLASMA ICP
11-80	43			NOT DETERMINED	
11-80	44	50	10.5		ATOMIC ABS-DIRECT
12-80	45			NOT DETERMINED	
12-80	46			NOT DETERMINED	
11-80	48			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	SR
12-80	49			NOT DETERMINED	
12-80	50			NOT DETERMINED	
12-80	51			NOT DETERMINED	
12-80	52	40	28.4	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	
12-80	53			NOT DETERMINED	
12-80	54			NOT DETERMINED	
11-80	55			NOT DETERMINED	
12-80	56			NOT DETERMINED	
12-80	57			NOT DETERMINED	
12-80	58			NOT DETERMINED	
12-80	59			NOT DETERMINED	
12-80	60			NOT DETERMINED	
12-80	61	50	10.5	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	
11-80	62			NOT DETERMINED	
11-80	63			NOT DETERMINED	
12-80	64			NOT DETERMINED	
11-80	65	60	7.4	EMISSION PLASMA ICP	
12-80	66	60	7.4	EMISSION PLASMA ICP	
12-80	67			NOT DETERMINED	
12-80	68			NOT DETERMINED	
12-80	69	60	7.4	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	
12-80	70	50	10.5	ATOMIC ABS-DIRECT	
12-80	71			NOT DETERMINED	
11-80	72			NOT DETERMINED	
12-80	73			NOT DETERMINED	
11-80	74			NOT DETERMINED	
10-80	95			NOT DETERMINED	

TOTAL RANGE	40.0000 - 120.0000				SAMPLE 74
MEAN	55.8823	AVERAGE DEVIATION	6.0208		
STANDARD DEVIATION	7.1229	95 PCT.CONF.INTVL OF MEAN	55.8823 +OR-	3.6624	SR

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR V
11-80	1	12	63.0	GALLIC ACID, APHA STD METH, 14ED
11-80	2	5	32.1	EMISSION-PLASMA ICP
11-80	3	9	22.2	EMISSION-PLASMA ICP
12-80	4			NOT DETERMINED
11-80	5			NOT DETERMINED
11-80	6			NOT DETERMINED
12-80	7	8	8.6	CATALYTIC OXIDATION, AUTO, I-2880, USGS TWRI BK 5 CH A1
12-80	8	4	45.7	CATALYTIC OXIDATION, AUTO, I-2880, USGS TWRI BK 5 CH A1
10-80	9			NOT DETERMINED
12-80	10	5	32.1	EMISSION-PLASMA ICP
11-80	12			NOT DETERMINED
12-80	13			NOT DETERMINED
12-80	14			NOT DETERMINED
11-80	15			NOT DETERMINED
11-80	16			NOT DETERMINED
11-80	18			NOT DETERMINED
11-80	19			NOT DETERMINED
11-80	20			NOT DETERMINED
12-80	21			NOT DETERMINED
12-80	22			NOT DETERMINED
12-80	23	8	8.6	EMISSION-PLASMA ICP
12-80	25			NOT DETERMINED
12-80	27			NOT DETERMINED
12-80	28			NOT DETERMINED
11-80	29			NOT DETERMINED
12-80	30	9	22.2	CATALYTIC OXIDATION, I-1880, USGS TWRI BK5 CH A1
12-80	31			NOT DETERMINED
12-80	32			NOT DETERMINED
12-80	33			NOT DETERMINED
12-80	34			NOT DETERMINED
11-80	36			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38	44	497.5	REJECT CATALYTIC OXIDATION, AUTO, I-2880, USGS TWRI BK 5 CH A1
12-80	39			NOT DETERMINED
12-80	40	10	35.8	EMISSION-PLASMA ICP
11-80	43			NOT DETERMINED
11-80	44			NOT DETERMINED
12-80	45			NOT DETERMINED
12-80	46			NOT DETERMINED
11-80	48			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	V
12-80	49			NOT DETERMINED	
12-80	50			NOT DETERMINED	
12-80	51	7	4.9	ATOMIC ASB-FLAMELESS	
12-80	52			NOT DETERMINED	
12-80	53			NOT DETERMINED	
12-80	54			NOT DETERMINED	
11-80	55			NOT DETERMINED	
12-80	56			NOT DETERMINED	
12-80	57			NOT DETERMINED	
12-80	58			NOT DETERMINED	
12-80	59			NOT DETERMINED	
12-80	60	4	45.7	ATOMIC ASB-FLAMELESS	
12-80	61			NOT DETERMINED	
11-80	62			NOT DETERMINED	
11-80	63			NOT DETERMINED	
12-80	64			NOT DETERMINED	
11-80	65			NOT DETERMINED	
12-80	66			NOT DETERMINED	
12-80	67			NOT DETERMINED	
12-80	68			NOT DETERMINED	
12-80	69			NOT DETERMINED	
12-80	70			NOT DETERMINED	
12-80	71			NOT DETERMINED	
11-80	72			NOT DETERMINED	
12-80	73	57	674.1	REJECT ATOMIC ASB-FLAMELESS	
11-80	74			NOT DETERMINED	
10-80	95			NOT DETERMINED	

TOTAL RANGE	4.0000	-	57.0000			SAMPLE 74
MEAN	7.3636		AVERAGE DEVIATION	2.1488		
STANDARD DEVIATION	2.6181		95 PCT.CONF.INTVL OF MEAN	7.3636 +OR-	1.7588	V

DETERMINATION	NO. LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN		
			95 PCT. CI	X +OR- STD	X +OR- 2STD
SI02	38	3	54	76	89
CA	59	5	16	75	95
MG	59	2	40	81	88
NA	58	3	34	75	93
K	55	2	26	81	91
ALK.	54	4	21	69	94
SO4	54	6	22	71	94
CL	50	10	29	69	93
F	49	4	0	85	98
BR	4	0	100	75	100
NO2-N	24	4	22	78	100
NO3-N	51	8	32	77	96
P, TOTAL	40	15	32	79	94
DSRD180	48	6	29	78	91
SP. COND	58	5	29	71	93
PH	60	2	25	61	97
B	20	0	30	75	95
SR	19	11	0	88	94
V	13	15	45	64	100

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	AL
11-80	1	140	43.6	ATOMIC ABS-DIRECT,	I-1051, USGS TWRI BK5 CH A1
11-80	2			NOT DETERMINED	
11-80	3			NOT DETERMINED	
12-80	4			NOT DETERMINED	
11-80	6			NOT DETERMINED	
12-80	7	360	45.1	ATOMIC ABS-DIRECT,	I-1051, USGS TWRI BK5 CH A1
12-80	8	360	45.1	ATOMIC ABS-DIRECT,	I-1051, USGS TWRI BK5 CH A1
10-80	9			NOT DETERMINED	
12-80	10			NOT DETERMINED	
11-80	12			NOT DETERMINED	
12-80	13			NOT DETERMINED	
12-80	14	700	182.1	REJECT	EMISSION PLASMA ICP
11-80	15	250	0.7		ATOMIC ABS-DIRECT
11-80	18	440	77.3		ATOMIC ABS-FLAMELESS
11-80	19			NOT DETERMINED	
11-80	20	250	0.7		ATOMIC ABS-DIRECT
12-80	21	220	11.3		EMISSION PLASMA ICP
12-80	22	190	23.4		ATOMIC ABS-FLAMELESS
12-80	23	240	3.3		EMISSION PLASMA ICP
12-80	25			NOT DETERMINED	
12-80	27			NOT DETERMINED	
12-80	28			NOT DETERMINED	
12-80	30	190	23.4		FERRON-ORTHOPHENANTHROLINE, I-1050, USGS TWRI BK5 CH A1
12-80	31	240	3.3		EMISSION PLASMA ICP
12-80	32			NOT DETERMINED	
12-80	33			NOT DETERMINED	
12-80	34			NOT DETERMINED	
12-80	35			NOT DETERMINED	
11-80	36			NOT DETERMINED	
12-80	37			NOT DETERMINED	
12-80	38			NOT DETERMINED	
12-80	39			NOT DETERMINED	
12-80	40			NOT DETERMINED	
11-80	42	250	0.7		ATOMIC ABS-DIRECT
11-80	43			NOT DETERMINED	
11-80	44	230	7.3		ATOMIC ABS-FLAMELESS
12-80	45			NOT DETERMINED	
12-80	46	260	4.8		ATOMIC ABS-FLAMELESS
12-80	49			NOT DETERMINED	
12-80	50			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	AL
12-80	51			NOT DETERMINED	
12-80	53	260	4.8	ATOMIC ABS-DIRECT	
12-80	54			NOT DETERMINED	
11-80	55			NOT DETERMINED	
12-80	57	290	16.9	ATOMIC ABS-DIRECT	
12-80	58			NOT DETERMINED	
12-80	59			NOT DETERMINED	
12-80	60	230	7.3	ATOMIC ABS-FLAMELESS	
12-80	61			NOT DETERMINED	
11-80	62	150	39.6	ATOMIC ABS-FLAMELESS	
11-80	63	310	24.9	ATOMIC ABS-DIRECT	
12-80	64	400	61.2	ATOMIC ABS-DIRECT	
12-80	65	210	15.4	EMISSION PLASMA ICP	
12-80	66	230	7.3	EMISSION PLASMA ICP	
12-80	67	160	35.5	ATOMIC ABS-DIRECT	
12-80	68	200	19.4	EMISSION PLASMA ICP	
12-80	69	200	19.4	ATOMIC ABS-DIRECT, I-1051, USGS TWRI BK5 CH A1	
12-80	70	220	11.3	ATOMIC ABS-DIRECT	
12-80	71			NOT DETERMINED	
12-80	72			NOT DETERMINED	
12-80	73			NOT DETERMINED	
11-80	74	220	11.3	ATOMIC ABS-DIRECT	
10-80	95			NOT DETERMINED	

TOTAL RANGE	140.0000	-	700.0000			SAMPLE 75
MEAN	248.1481		AVERAGE DEVIATION	51.8792		
STANDARD DEVIATION	72.3790		95 PCT.CONF.INTVL OF MEAN	248.1481	+OR-	28.6387
						AL

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	FE
11-80	1	350	4.9	ATOMIC ABS-DIRECT,	I-1381, USGS TWRI BK5 CH A1
11-80	2	360	2.2	EMISSION-PLASMA ICP	
11-80	3	350	4.9	EMISSION-PLASMA ICP	
12-80	4	390	6.0	ATOMIC ABS-DIRECT	
11-80	6	350	4.9	ATOMIC ABS-DIRECT	
12-80	7	370	0.5	BIPYRIDINE,AUTO,	I-2379, USGS TWRI BK5 CH A1
12-80	8	370	0.5	BIPYRIDINE,AUTO,	I-2379, USGS TWRI BK5 CH A1
10-80	9	290	21.2	ATOMIC ABS-DIRECT	
12-80	10	420	14.1	EMISSION-PLASMA ICP	
11-80	12	160	56.5	REJECT	PHENANTHROLINE, APHA STD METH, 14ED
12-80	13	330	10.3	ATOMIC ABS-FLAMELESS	
12-80	14	350	4.9	EMISSION-PLASMA ICP	
11-80	15	360	2.2	ATOMIC ABS-DIRECT	
11-80	18	380	3.3	ATOMIC ABS-FLAMELESS	
11-80	19			NOT DETERMINED	
11-80	20	360	2.2	ATOMIC ABS-DIRECT	
12-80	21	390	6.0	ATOMIC ABS-DIRECT,	EPA
12-80	22			NOT DETERMINED	
12-80	23	380	3.3	EMISSION-PLASMA ICP	
12-80	25	370	0.5	ATOMIC ABS-DIRECT	
12-80	27	350	4.9	ATOMIC ABS-DIRECT	
12-80	28	270	26.6	ATOMIC ABS-FLAMELESS	
12-80	30	350	4.9	BIPYRIDINE,AUTO,	I-2379, USGS TWRI BK5 CH A1
12-80	31	380	3.3	EMISSION-PLASMA ICP	
12-80	32			NOT DETERMINED	
12-80	33	370	0.5	ATOMIC ABS-DIRECT,	EPA
12-80	34			NOT DETERMINED	
12-80	35	40	89.1	REJECT	ATOMIC ABS-DIRECT
11-80	36	330	10.3	ATOMIC ABS-DIRECT	
12-80	37	380	3.3	ATOMIC ABS-DIRECT,	I-1381, USGS TWRI BK5 CH A1
12-80	38	10	97.3	REJECT	ATOMIC ABS-DIRECT, EPA
12-80	39	400	8.7	ATOMIC ABS-DIRECT,	I-1381, USGS TWRI BK5 CH A1
12-80	40	380	3.3	EMISSION-PLASMA ICP	
11-80	42	350	4.9	ATOMIC ABS-DIRECT,	EPA
11-80	43	380	3.3	ATOMIC ABS-DIRECT,	EPA
11-80	44	750	103.8	REJECT	ATOMIC ABS-DIRECT, EPA
12-80	45	420	14.1	ATOMIC ABS-DIRECT,	EPA
12-80	46	350	4.9	EMISSION-PLASMA ICP	
12-80	49	320	13.0	ATOMIC ABS-DIRECT,	EPA
12-80	50	450	22.3	ATOMIC ABS-DIRECT	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	FE
12-80	51			NOT DETERMINED	
12-80	53	390	6.0	ATOMIC ABS-DIRECT, EPA	
12-80	54	350	4.9	ATOMIC ABS-DIRECT	
11-80	55	250	32.1	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1	
12-80	57	360	2.2	ATOMIC ABS-DIRECT, EPA	
12-80	58	790	114.7	REJECT OTHER	
12-80	59	430	16.8	ATOMIC ABS-DIRECT	
12-80	60	410	11.4	ATOMIC ABS-FLAMELESS	
12-80	61	400	8.7	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1	
11-80	62	370	0.5	ATOMIC ABS-DIRECT	
11-80	63			NOT DETERMINED	
12-80	64	430	16.8	ATOMIC ABS-DIRECT	
12-80	65	410	11.4	EMISSION-PLASMA ICP	
12-80	66	380	3.3	EMISSION-PLASMA ICP	
12-80	67			NOT DETERMINED	
12-80	68	380	3.3	EMISSION-PLASMA ICP	
12-80	69	400	8.7	ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1	
12-80	70	370	0.5	ATOMIC ABS-DIRECT, EPA	
12-80	71	370	0.5	ATOMIC ABS-DIRECT	
12-80	72	20	94.6	REJECT ATOMIC ABS-DIRECT, EPA	
12-80	73	360	2.2	ATOMIC ABS-DIRECT, EPA	
11-80	74	390	6.0	ATOMIC ABS-DIRECT, EPA	
10-80	95	300	18.5	ATOMIC ABS-DIRECT	

TOTAL RANGE	10.0000	-	790.0000			SAMPLE 75
MEAN	368.0000		AVERAGE DEVIATION	27.5200		
STANDARD DEVIATION	38.3858		95 PCT.CONF.INTVL OF MEAN	368.0000	+OR-	10.9006
						FE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	MN
11-80	1	490	6.0	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1	
11-80	2	510	2.2	EMISSION-PLASMA ICP	
11-80	3	500	4.1	EMISSION-PLASMA ICP	
12-80	4	540	3.5	ATOMIC ABS-DIRECT	
11-80	6	530	1.6	ATOMIC ABS-DIRECT	
12-80	7	530	1.6	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1	
12-80	8	530	1.6	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1	
10-80	9	570	9.3	ATOMIC ABS-DIRECT	
12-80	10	560	7.4	EMISSION-PLASMA ICP	
11-80	12	540	3.5	ATOMIC ABS-DIRECT	
12-80	13	510	2.2	ATOMIC ABS-DIRECT	
12-80	14	520	0.3	EMISSION-PLASMA ICP	
11-80	15	540	3.5	ATOMIC ABS-DIRECT	
11-80	18	500	4.1	ATOMIC ABS-FLAMELESS	
11-80	19			NOT DETERMINED	
11-80	20	520	0.3	ATOMIC ABS-DIRECT	
12-80	21	540	3.5	ATOMIC ABS-DIRECT, EPA	
12-80	22	400	23.3	REJECT ATOMIC ABS-FLAMELESS	
12-80	23	520	0.3	EMISSION-PLASMA ICP	
12-80	25	540	3.5	ATOMIC ABS-DIRECT	
12-80	27	520	0.3	OTHER	
12-80	28	490	6.0	ATOMIC ABS-FLAMELESS	
12-80	30	540	3.5	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1	
12-80	31	550	5.5	EMISSION-PLASMA ICP	
12-80	32			NOT DETERMINED	
12-80	33	500	4.1	ATOMIC ABS-DIRECT, EPA	
12-80	34			NOT DETERMINED	
12-80	35			NOT DETERMINED	
11-80	36	520	0.3	ATOMIC ABS-DIRECT	
12-80	37	570	9.3	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1	
12-80	38	500	4.1	ATOMIC ABS-DIRECT, EPA	
12-80	39	540	3.5	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1	
12-80	40	540	3.5	EMISSION-PLASMA ICP	
11-80	42	530	1.6	ATOMIC ABS-DIRECT, EPA	
11-80	43	530	1.6	ATOMIC ABS-DIRECT, EPA	
11-80	44	1100	110.9	REJECT ATOMIC ABS-DIRECT, EPA	
12-80	45	550	5.5	ATOMIC ABS-DIRECT, EPA	
12-80	46	540	3.5	ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1	
12-80	49	380	27.1	REJECT ATOMIC ABS-DIRECT	
12-80	50	520	0.3	ATOMIC ABS-DIRECT	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR MN
12-80	51			NOT DETERMINED
12-80	53	520	0.3	ATOMIC ABS-DIRECT, EPA
12-80	54	500	4.1	ATOMIC ABS-DIRECT
11-80	55	450	13.7	ATOMIC ABS-DIRECT, I-1454, USGS TWRI 8K5 CH A1
12-80	57	520	0.3	ATOMIC ABS-DIRECT, EPA
12-80	58	450	13.7	OTHER
12-80	59	510	2.2	ATOMIC ABS-DIRECT
12-80	60	570	9.3	ATOMIC ABS-FLAMELESS
12-80	61			NOT DETERMINED
11-80	62	520	0.3	ATOMIC ABS-DIRECT
11-80	63	480	8.0	ATOMIC ABS-DIRECT, EPA
12-80	64	500	4.1	ATOMIC ABS-DIRECT
12-80	65	530	1.6	EMISSION-PLASMA ICP
12-80	66	540	3.5	EMISSION-PLASMA ICP
12-80	67			NOT DETERMINED
12-80	68	510	2.2	EMISSION-PLASMA ICP
12-80	69	540	3.5	ATOMIC ABS-DIRECT, I-1454, USGS TWRI 8K5 CH A1
12-80	70	540	3.5	ATOMIC ABS-DIRECT, EPA
12-80	71	490	6.0	ATOMIC ABS-DIRECT
12-80	72	530	1.6	ATOMIC ABS-DIRECT, EPA
12-80	73	450	13.7	ATOMIC ABS-DIRECT, EPA
11-80	74	540	3.5	ATOMIC ABS-DIRECT, EPA
10-80	95	520	0.3	ATOMIC ABS-DIRECT

TOTAL RANGE	380.0000	-	1100.0000			SAMPLE 75
MEAN	521.5093	AVERAGE DEVIATION	20.4058			
STANDARD DEVIATION	27.2027	95 PCT.CONF.INTVL OF MEAN	521.5093 +OR-	7.4881		MN

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SB
11-80	1	5	13.6	ATOMIC ABS-HYDRIDE, I-1055, USGS TWRI BKS CH A1
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4			NOT DETERMINED
11-80	6			NOT DETERMINED
12-80	7			NOT DETERMINED
12-80	8			NOT DETERMINED
10-80	9			NOT DETERMINED
12-80	10			NOT DETERMINED
11-80	12			NOT DETERMINED
12-80	13			NOT DETERMINED
12-80	14			NOT DETERMINED
11-80	15			NOT DETERMINED
11-80	18			NOT DETERMINED
11-80	19			NOT DETERMINED
11-80	20			NOT DETERMINED
12-80	21	5	13.6	ATOMIC ABS-HYDRIDE (SODIUM BOROHYDRIDE)
12-80	22			NOT DETERMINED
12-80	23			NOT DETERMINED
12-80	25			NOT DETERMINED
12-80	27			NOT DETERMINED
12-80	28			NOT DETERMINED
12-80	30	4	9.1	ATOMIC ABS-HYDRIDE, I-1055, USGS TWRI BKS CH A1
12-80	31			NOT DETERMINED
12-80	32			NOT DETERMINED
12-80	33			NOT DETERMINED
12-80	34			NOT DETERMINED
12-80	35			NOT DETERMINED
11-80	36			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38			NOT DETERMINED
12-80	39			NOT DETERMINED
12-80	40			NOT DETERMINED
11-80	42			NOT DETERMINED
11-80	43			NOT DETERMINED
11-80	44			NOT DETERMINED
12-80	45			NOT DETERMINED
12-80	46			NOT DETERMINED
12-80	49			NOT DETERMINED
12-80	50			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	SB
12-80	51			NOT DETERMINED	
12-80	53			NOT DETERMINED	
12-80	54			NOT DETERMINED	
11-80	55			NOT DETERMINED	
12-80	57			NOT DETERMINED	
12-80	58			NOT DETERMINED	
12-80	59			NOT DETERMINED	
12-80	60	3	31.6	ATOMIC ABS-FLAMELESS	
12-80	61			NOT DETERMINED	
11-80	62			NOT DETERMINED	
11-80	63			NOT DETERMINED	
12-80	64			NOT DETERMINED	
12-80	65			NOT DETERMINED	
12-80	66			NOT DETERMINED	
12-80	67			NOT DETERMINED	
12-80	68			NOT DETERMINED	
12-80	69			NOT DETERMINED	
12-80	70			NOT DETERMINED	
12-80	71			NOT DETERMINED	
12-80	72			NOT DETERMINED	
12-80	73	5	13.6	NEUTRON ACTIVATION	
11-80	74			NOT DETERMINED	
10-80	95			NOT DETERMINED	

TOTAL RANGE	3.0000 -	5.0000			SAMPLE 75
MEAN	4.4000	AVERAGE DEVIATION	0.7200		
STANDARD DEVIATION	0.8944	95 PCT.CONF.INTVL OF MEAN	4.4000 +OR-	1.1104	SB

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR AS
11-80	1	5	14.5	ATOMIC ABS-HYDRIDE,AUTO, I-2062, USGS TWRI BK5 CH A1
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4			NOT DETERMINED
11-80	6	5	14.5	ATOMIC ABS-FLAMELESS
12-80	7	3	48.7	ATOMIC ABS-HYDRIDE,AUTO, I-2062, USGS TWRI BK5 CH A1
12-80	8	3	48.7	ATOMIC ABS-HYDRIDE,AUTO, I-2062, USGS TWRI BK5 CH A1
10-80	9	10	71.0	SILVER DIETHYLDITHIOCARBAMATE, APHA STD METH, 14ED
12-80	10	7	19.7	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
11-80	12	2	65.8	ATOMIC ABS-HYDRIDE(ZINC), APHA STD METH, 14ED
12-80	13	9	53.9	ATOMIC ABS-FLAMELESS
12-80	14	5	14.5	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
11-80	15			NOT DETERMINED
11-80	18	8	36.8	ATOMIC ABS-FLAMELESS
11-80	19			NOT DETERMINED
11-80	20	6	2.6	ATOMIC ABS-FLAMELESS
12-80	21	7	19.7	ATOMIC ABS-HYDRIDE(ZINC), APHA STD METH, 14ED
12-80	22	13	122.3	ATOMIC ABS-FLAMELESS
12-80	23	6	2.6	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
12-80	25	3	48.7	ATOMIC ABS-FLAMELESS
12-80	27	4	31.6	ATOMIC ABS-FLAMELESS
12-80	28			NOT DETERMINED
12-80	30	4	31.6	ATOMIC ABS-HYDRIDE,AUTO, I-2062, USGS TWRI BK5 CH A1
12-80	31	9	53.9	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
12-80	32			NOT DETERMINED
12-80	33			NOT DETERMINED
12-80	34			NOT DETERMINED
12-80	35	7	19.7	ATOMIC ABS-FLAMELESS
11-80	36			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38			NOT DETERMINED
12-80	39			NOT DETERMINED
12-80	40			NOT DETERMINED
11-80	42	5	14.5	ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)
11-80	43	5	14.5	ATOMIC ABS-FLAMELESS
11-80	44	5	14.5	ATOMIC ABS-FLAMELESS
12-80	45	4	31.6	SILVER DIETHYLDITHIOCARBAMATE, APHA STD METH, 14ED
12-80	46	6	2.6	ATOMIC ABS-FLAMELESS
12-80	49			NOT DETERMINED
12-80	50			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	AS
12-80	51			NOT DETERMINED	
12-80	53			NOT DETERMINED	
12-80	54			NOT DETERMINED	
11-80	55			NOT DETERMINED	
12-80	57	5	14.5	ATOMIC	ABS-FLAMELESS
12-80	58	24	310.4	REJECT	ATOMIC ABS-FLAMELESS
12-80	59	6	2.6	ATOMIC	ABS-FLAMELESS
12-80	60	5	14.5	ATOMIC	ABS-FLAMELESS
12-80	61			NOT DETERMINED	
11-80	62	3	48.7	ATOMIC	ABS-FLAMELESS
11-80	63	4	31.6	OTHER	
12-80	64	4	31.6	ATOMIC	ABS-HYDRIDE (SODIUM BOROHYDRIDE)
12-80	65			NOT DETERMINED	
12-80	66	13	122.3	OTHER	
12-80	67			NOT DETERMINED	
12-80	68	6	2.6	ATOMIC	ABS-FLAMELESS
12-80	69			NOT DETERMINED	
12-80	70			NOT DETERMINED	
12-80	71			NOT DETERMINED	
12-80	72	20	242.0	REJECT	ATOMIC ABS-FLAMELESS
12-80	73	6	2.6	SILVER	DIETHYLDITHIOCARBAMATE, APHA STD METH, 14ED
11-80	74			NOT DETERMINED	
10-80	95			NOT DETERMINED	

TOTAL RANGE	2.0000	-	24.0000			SAMPLE 75
MEAN	5.8485		AVERAGE DEVIATION	1.8953		
STANDARD DEVIATION	2.6115		95 PCT.CONF.INTVL OF MEAN	5.8485	+OR-	0.9229 AS

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR BA
11-80	1	100	194.1	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1
11-80	2	20	41.2	EMISSION PLASMA ICP
11-80	3	20	41.2	EMISSION PLASMA ICP
12-80	4			NOT DETERMINED
11-80	6	20	41.2	ATOMIC ABS-FLAMELESS
12-80	7			NOT DETERMINED
12-80	8			NOT DETERMINED
10-80	9			NOT DETERMINED
12-80	10	20	41.2	EMISSION PLASMA ICP
11-80	12	0	100.0	ATOMIC ABS-DIRECT
12-80	13	80	135.3	ATOMIC ABS-DIRECT
12-80	14	20	41.2	EMISSION PLASMA ICP
11-80	15			NOT DETERMINED
11-80	18	30	11.8	ATOMIC ABS-FLAMELESS
11-80	19			NOT DETERMINED
11-80	20	20	41.2	ATOMIC ABS-FLAMELESS
12-80	21	20	41.2	EMISSION PLASMA ICP
12-80	22			NOT DETERMINED
12-80	23	20	41.2	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1
12-80	25	30	11.8	ATOMIC ABS-DIRECT
12-80	27			NOT DETERMINED
12-80	28			NOT DETERMINED
12-80	30	100	194.1	ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1
12-80	31			NOT DETERMINED
12-80	32			NOT DETERMINED
12-80	33			NOT DETERMINED
12-80	34			NOT DETERMINED
12-80	35	100	194.1	ATOMIC ABS-DIRECT
11-80	36			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38			NOT DETERMINED
12-80	39			NOT DETERMINED
12-80	40	10	70.6	EMISSION PLASMA ICP
11-80	42			NOT DETERMINED
11-80	43	10	70.6	ATOMIC ABS-FLAMELESS
11-80	44	40	17.6	ATOMIC ABS-DIRECT
12-80	45			NOT DETERMINED
12-80	46			NOT DETERMINED
12-80	49			NOT DETERMINED
12-80	50			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	BA
12-80	51			NOT DETERMINED	
12-80	53	20	41.2	ATOMIC ABS-DIRECT	
12-80	54			NOT DETERMINED	
11-80	55			NOT DETERMINED	
12-80	57	10	70.6	EMISSION PLASMA ICP	
12-80	58			NOT DETERMINED	
12-80	59			NOT DETERMINED	
12-80	60	40	17.6	ATOMIC ABS-DIRECT	
12-80	61			NOT DETERMINED	
11-80	62	30	11.8	ATOMIC ABS-FLAMELESS	
11-80	63	50	47.1	OTHER	
12-80	64			NOT DETERMINED	
12-80	65	20	41.2	EMISSION PLASMA ICP	
12-80	66	20	41.2	EMISSION PLASMA ICP	
12-80	67			NOT DETERMINED	
12-80	68			NOT DETERMINED	
12-80	69			NOT DETERMINED	
12-80	70			NOT DETERMINED	
12-80	71			NOT DETERMINED	
12-80	72			NOT DETERMINED	
12-80	73			NOT DETERMINED	
11-80	74			NOT DETERMINED	
10-80	95			NOT DETERMINED	

TOTAL RANGE	0.0	-	100.0000			SAMPLE 75
MEAN	34.0000	AVERAGE DEVIATION	21.7600			
STANDARD DEVIATION	29.2973	95 PGT.CONF.INTVL OF MEAN	34.0000	+OR-	12.0939	BA

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	BE
11-80	1	0	100.0	ATOMIC ABS-DIRECT, I-1095, TWRI BK5 CH A1	
11-80	2	5	18.6	EMISSION-PLASMA ICP	
11-80	3	4	5.1	EMISSION-PLASMA ICP	
12-80	4			NOT DETERMINED	
11-80	6			NOT DETERMINED	
12-80	7			NOT DETERMINED	
12-80	8			NOT DETERMINED	
10-80	9			NOT DETERMINED	
12-80	10	4	5.1	EMISSION-PLASMA ICP	
11-80	12			NOT DETERMINED	
12-80	13			NOT DETERMINED	
12-80	14	7	66.1	ATOMIC ABS-FLAMELESS	
11-80	15			NOT DETERMINED	
11-80	18			NOT DETERMINED	
11-80	19			NOT DETERMINED	
11-80	20	4	5.1	ATOMIC ABS-FLAMELESS	
12-80	21	4	5.1	OTHER	
12-80	22	7	66.1	ATOMIC ABS-FLAMELESS	
12-80	23			NOT DETERMINED	
12-80	25			NOT DETERMINED	
12-80	27			NOT DETERMINED	
12-80	28			NOT DETERMINED	
12-80	30	0	100.0	ATOMIC ABS-DIRECT, I-1095, TWRI BK5 CH A1	
12-80	31			NOT DETERMINED	
12-80	32			NOT DETERMINED	
12-80	33			NOT DETERMINED	
12-80	34			NOT DETERMINED	
12-80	35			NOT DETERMINED	
11-80	36			NOT DETERMINED	
12-80	37			NOT DETERMINED	
12-80	38			NOT DETERMINED	
12-80	39			NOT DETERMINED	
12-80	40	3	28.8	EMISSION-PLASMA ICP	
11-80	42			NOT DETERMINED	
11-80	43			NOT DETERMINED	
11-80	44	4	5.1	ATOMIC ABS-FLAMELESS	
12-80	45			NOT DETERMINED	
12-80	46			NOT DETERMINED	
12-80	49			NOT DETERMINED	
12-80	50			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	BE
12-80	51			NOT DETERMINED	
12-80	53			NOT DETERMINED	
12-80	54			NOT DETERMINED	
11-80	55			NOT DETERMINED	
12-80	57			NOT DETERMINED	
12-80	58			NOT DETERMINED	
12-80	59			NOT DETERMINED	
12-80	60	4	5.1	ATOMIC	ABS-FLAMELESS
12-80	61			NOT DETERMINED	
11-80	62			NOT DETERMINED	
11-80	63	9	113.6	OTHER	
12-80	64			NOT DETERMINED	
12-80	65			NOT DETERMINED	
12-80	66			NOT DETERMINED	
12-80	67			NOT DETERMINED	
12-80	68			NOT DETERMINED	
12-80	69			NOT DETERMINED	
12-80	70			NOT DETERMINED	
12-80	71			NOT DETERMINED	
12-80	72			NOT DETERMINED	
12-80	73	4	5.1	ATOMIC	ABS-FLAMELESS
11-80	74			NOT DETERMINED	
10-80	95			NOT DETERMINED	
TOTAL RANGE	0.0	-	9.0000		SAMPLE 75
MEAN		4.2143		AVERAGE DEVIATION	1.5918
STANDARD DEVIATION		2.4236		95 PCT.CONF.INTVL OF MEAN	4.2143 +OR- 1.3991
					BE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	CD
11-80	1	7	10.3	ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1	
11-80	2	8	2.6	EMISSION-PLASMA ICP	
11-80	3	9	15.4	EMISSION-PLASMA ICP	
12-80	4	8	2.6	ATOMIC ABS-DIRECT	
11-80	6	8	2.6	ATOMIC ABS-FLAMELESS	
12-80	7	7	10.3	ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1	
12-80	8	7	10.3	ATOMIC ABS-CHELATION/EXTRACTION, I-1136, JSGS TWRI BK5 CH A1	
10-80	9			NOT DETERMINED	
12-80	10	7	10.3	EMISSION-PLASMA ICP	
11-80	12	7	10.3	ATOMIC ABS-DIRECT	
12-80	13	7	10.3	ATOMIC ABS-FLAMELESS	
12-80	14	10	28.2	ATOMIC ABS-FLAMELESS	
11-80	15			NOT DETERMINED	
11-80	18	11	41.0	ATOMIC ABS-FLAMELESS	
11-80	19			NOT DETERMINED	
11-80	20	8	2.6	ATOMIC ABS-FLAMELESS	
12-80	21	8	2.6	ATOMIC ABS-FLAMELESS	
12-80	22	6	23.1	ATOMIC ABS-FLAMELESS	
12-80	23	8	2.6	EMISSION-PLASMA ICP	
12-80	25	6	23.1	ATOMIC ABS-FLAMELESS	
12-80	27	8	2.6	ATOMIC ABS-DIRECT	
12-80	28	7	10.3	ATOMIC ABS-FLAMELESS	
12-80	30	7	10.3	ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1	
12-80	31	9	15.4	EMISSION-PLASMA ICP	
12-80	32			NOT DETERMINED	
12-80	33	7	10.3	ATOMIC ABS-DIRECT	
12-80	34	2	74.4	REJECT ATOMIC ABS-FLAMELESS	
12-80	35	1	87.2	REJECT ATOMIC ABS-DIRECT	
11-80	36	8	2.6	ATOMIC ABS-DIRECT	
12-80	37			NOT DETERMINED	
12-80	38	5	35.9	ATOMIC ABS-DIRECT	
12-80	39	7	10.3	ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1	
12-80	40	9	15.4	EMISSION-PLASMA ICP	
11-80	42	9	15.4	ATOMIC ABS-DIRECT, EPA	
11-80	43	8	2.6	ATOMIC ABS-FLAMELESS	
11-80	44	6	23.1	ATOMIC ABS-FLAMELESS	
12-80	45			NOT DETERMINED	
12-80	46	9	15.4	ATOMIC ABS-FLAMELESS	
12-80	49	0	100.0	REJECT ATOMIC ABS-DIRECT, EPA	
12-80	50			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	CD
12-80	51			NOT DETERMINED	
12-80	53	10	28.2	ATOMIC ABS-DIRECT, EPA	
12-80	54			NOT DETERMINED	
11-80	55			NOT DETERMINED	
12-80	57	7	10.3	ATOMIC ABS-FLAMELESS	
12-80	58	8	2.6	ATOMIC ABS-FLAMELESS	
12-80	59	8	2.6	ATOMIC ABS-FLAMELESS	
12-80	60	6	23.1	ATOMIC ABS-FLAMELESS	
12-80	61			NOT DETERMINED	
11-80	62	9	15.4	ATOMIC ABS-FLAMELESS	
11-80	63	6	23.1	ATOMIC ABS-CHELATION/EXTRACTION, EPA	
12-80	64	7	10.3	ATOMIC ABS-DIRECT	
12-80	65	8	2.6	EMISSION-PLASMA ICP	
12-80	66	16	105.1	REJECT EMISSION-PLASMA ICP	
12-80	67			NOT DETERMINED	
12-80	68			NOT DETERMINED	
12-80	69	8	2.6	ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1	
12-80	70	8	2.6	ATOMIC ABS-DIRECT, EPA	
12-80	71			NOT DETERMINED	
12-80	72	10	28.2	ATOMIC ABS-DIRECT, EPA	
12-80	73	9	15.4	ATOMIC ABS-FLAMELESS	
11-80	74	10	28.2	ATOMIC ABS-DIRECT, EPA	
10-80	95	6	23.1	ATOMIC ABS-DIRECT	

TOTAL RANGE	0.0	-	16.0000			SAMPLE 75
MEAN		7.8000	AVERAGE DEVIATION	1.0311		
STANDARD DEVIATION		1.3073	95 PCT.CONF.INTVL OF MEAN	7.8000 +OR-	0.3925	CD

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CR TOT
11-80	1	20	2.1	ATOMIC ABS-DIRECT, I-1236, USGS TWRI BK5 CH A1
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4	20	2.1	ATOMIC ABS-DIRECT
11-80	6	24	17.5	ATOMIC ABS-FLAMELESS
12-80	7	24	17.5	ATOMIC ABS-CHELATION/EXTRACTION, I-1238, USGS TWRI BK5 CH A1
12-80	8	24	17.5	ATOMIC ABS-CHELATION/EXTRACTION, I-1238, USGS TWRI BK5 CH A1
10-80	9	20	2.1	ATOMIC ABS-DIRECT
12-80	10	19	7.0	EMISSION-PLASMA ICP
11-80	12	16	21.7	ATOMIC ABS-DIRECT
12-80	13	18	11.9	ATOMIC ABS-FLAMELESS
12-80	14	16	21.7	ATOMIC ABS-FLAMELESS
11-80	15			NOT DETERMINED
11-80	18	18	11.9	ATOMIC ABS-FLAMELESS
11-80	19			NOT DETERMINED
11-80	20	18	11.9	ATOMIC ABS-FLAMELESS
12-80	21	19	7.0	ATOMIC ABS-FLAMELESS
12-80	22	22	7.7	ATOMIC ABS-FLAMELESS
12-80	23	19	7.0	EMISSION-PLASMA ICP
12-80	25	19	7.0	ATOMIC ABS-DIRECT
12-80	27			NOT DETERMINED
12-80	28	21	2.8	ATOMIC ABS-FLAMELESS
12-80	30	17	16.8	ATOMIC ABS-CHELATION/EXTRACTION, I-1238, USGS TWRI BK5 CH A1
12-80	31	27	32.2	EMISSION-PLASMA ICP
12-80	32			NOT DETERMINED
12-80	33	18	11.9	ATOMIC ABS-DIRECT
12-80	34	28	37.1	ATOMIC ABS-FLAMELESS
12-80	35	30	46.9	ATOMIC ABS-DIRECT
11-80	36	10	51.0	ATOMIC ABS-DIRECT
12-80	37			NOT DETERMINED
12-80	38	20	2.1	ATOMIC ABS-DIRECT, EPA
12-80	39			NOT DETERMINED
12-80	40			NOT DETERMINED
11-80	42	23	12.6	ATOMIC ABS-DIRECT, EPA
11-80	43	19	7.0	ATOMIC ABS-FLAMELESS
11-80	44	21	2.8	ATOMIC ABS-DIRECT
12-80	45			NOT DETERMINED
12-80	46	28	37.1	ATOMIC ABS-FLAMELESS
12-80	49	20	2.1	ATOMIC ABS-DIRECT, EPA
12-80	50			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CR TOT
12-80	51	28	37.1	ATOMIC ABS-FLAMELESS
12-80	53	11	46.1	ATOMIC ABS-DIRECT, EPA
12-80	54			NOT DETERMINED
11-80	55			NOT DETERMINED
12-80	57	21	2.8	ATOMIC ABS-DIRECT, EPA
12-80	58	60	193.8	REJECT OTHER
12-80	59	18	11.9	ATOMIC ABS-DIRECT
12-80	60	20	2.1	ATOMIC ABS-FLAMELESS
12-80	61			NOT DETERMINED
11-80	62	20	2.1	ATOMIC ABS-FLAMELESS
11-80	63	26	27.3	ATOMIC ABS-DIRECT
12-80	64	17	16.8	ATOMIC ABS-DIRECT
12-80	65	24	17.5	EMISSION-PLASMA ICP
12-80	66	18	11.9	EMISSION-PLASMA ICP
12-80	67			NOT DETERMINED
12-80	68	20	2.1	EMISSION-PLASMA ICP
12-80	69	20	2.1	ATOMIC ABS-DIRECT
12-80	70	23	12.6	ATOMIC ABS-DIRECT, EPA
12-80	71			NOT DETERMINED
12-80	72	37	81.2	REJECT ATOMIC ABS-DIRECT, EPA
12-80	73	17	16.8	ATOMIC ABS-FLAMELESS
11-80	74	18	11.9	ATOMIC ABS-DIRECT, EPA
10-80	95	20	2.1	ATOMIC ABS-DIRECT

TOTAL RANGE	10.0000	-	60.0000				SAMPLE 75
MEAN	20.4222		AVERAGE DEVIATION	2.9886			
STANDARD DEVIATION	4.0759		95 PCT.CONF.INTVL OF MEAN	20.4222 +0R-	1.2237	CR TOT	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	CO
11-80	1	2	56.8	ATOMIC ABS-CHELATION/EXTRACTION,	I-1240, USGS TWRI BK5 CH A1
11-80	2			NOT DETERMINED	
11-80	3	4	13.5	EMISSION-PLASMA ICP	
12-80	4			NOT DETERMINED	
11-80	6			NOT DETERMINED	
12-80	7	2	56.8	ATOMIC ABS-CHELATION/EXTRACTION,	I-1240, USGS TWRI BK5 CH A1
12-80	8	2	56.8	ATOMIC ABS-CHELATION/EXTRACTION,	I-1240, USGS TWRI BK5 CH A1
10-80	9			NOT DETERMINED	
12-80	10			NOT DETERMINED	
11-80	12			NOT DETERMINED	
12-80	13			NOT DETERMINED	
12-80	14			NOT DETERMINED	
11-80	15			NOT DETERMINED	
11-80	18			NOT DETERMINED	
11-80	19			NOT DETERMINED	
11-80	20	5	8.1	ATOMIC ABS-FLAMELESS	
12-80	21	10	116.2	ATOMIC ABS-FLAMELESS	
12-80	22			NOT DETERMINED	
12-80	23	12	159.5	ATOMIC ABS-CHELATION/EXTRACTION,	I-1240, USGS TWRI BK5 CH A1
12-80	25			NOT DETERMINED	
12-80	27			NOT DETERMINED	
12-80	28			NOT DETERMINED	
12-80	30	3	35.1	ATOMIC ABS-CHELATION/EXTRACTION,	I-1240, USGS TWRI BK5 CH A1
12-80	31			NOT DETERMINED	
12-80	32			NOT DETERMINED	
12-80	33			NOT DETERMINED	
12-80	34			NOT DETERMINED	
12-80	35			NOT DETERMINED	
11-80	36			NOT DETERMINED	
12-80	37			NOT DETERMINED	
12-80	38	5	8.1	ATOMIC ABS-DIRECT, EPA	
12-80	39			NOT DETERMINED	
12-80	40	3	35.1	EMISSION-PLASMA ICP	
11-80	42			NOT DETERMINED	
11-80	43			NOT DETERMINED	
11-80	44	3	35.1	ATOMIC ABS-FLAMELESS	
12-80	45			NOT DETERMINED	
12-80	46			NOT DETERMINED	
12-80	49			NOT DETERMINED	
12-80	50			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR CO
12-80	51	3	35.1	ATOMIC ABS-FLAMELESS
12-80	53			NOT DETERMINED
12-80	54			NOT DETERMINED
11-80	55			NOT DETERMINED
12-80	57			NOT DETERMINED
12-80	58			NOT DETERMINED
12-80	59			NOT DETERMINED
12-80	60	3	35.1	ATOMIC ABS-FLAMELESS
12-80	61			NOT DETERMINED
11-80	62			NOT DETERMINED
11-80	63			NOT DETERMINED
12-80	64			NOT DETERMINED
12-80	65	12	159.5	EMISSION-PLASMA ICP
12-80	66	2	56.8	EMISSION-PLASMA ICP
12-80	67			NOT DETERMINED
12-80	68			NOT DETERMINED
12-80	69			NOT DETERMINED
12-80	70			NOT DETERMINED
12-80	71			NOT DETERMINED
12-80	72			NOT DETERMINED
12-80	73	3	35.1	ATOMIC ABS-FLAMELESS
11-80	74			NOT DETERMINED
10-80	95			NOT DETERMINED

TOTAL RANGE 2.0000 - 12.0000

MEAN 4.6250 AVERAGE DEVIATION 2.6094

STANDARD DEVIATION 3.4809 95 PCT.CONF.INTVL OF MEAN 4.6250 +OR- 1.8544

SAMPLE 75

CO

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	CU
11-80	1	100	1.5	ATOMIC ABS-CHELATION/EXTRACTION,	I-1271, USGS TWRI BK5 CH A1
11-80	2	110	8.3	EMISSION-PLASMA ICP	
11-80	3	100	1.5	EMISSION-PLASMA ICP	
12-80	4	110	8.3	ATOMIC ABS-DIRECT	
11-80	6	110	8.3	ATOMIC ABS-FLAMELESS	
12-80	7			NOT DETERMINED	
12-80	8			NOT DETERMINED	
10-80	9	120	18.2	ATOMIC ABS-DIRECT	
12-80	10	110	8.3	EMISSION-PLASMA ICP	
11-80	12	100	1.5	ATOMIC ABS-DIRECT	
12-80	13	110	8.3	ATOMIC ABS-DIRECT	
12-80	14	90	11.4	EMISSION-PLASMA ICP	
11-80	15	100	1.5	ATOMIC ABS-DIRECT	
11-80	18	100	1.5	ATOMIC ABS-FLAMELESS	
11-80	19	100	1.5	ATOMIC ABS-DIRECT	
11-80	20	100	1.5	ATOMIC ABS-DIRECT	
12-80	21	100	1.5	ATOMIC ABS-DIRECT, EPA	
12-80	22	120	18.2	ATOMIC ABS-FLAMELESS	
12-80	23	100	1.5	EMISSION-PLASMA ICP	
12-80	25	120	18.2	ATOMIC ABS-DIRECT	
12-80	27	100	1.5	ATOMIC ABS-DIRECT	
12-80	28	100	1.5	ATOMIC ABS-FLAMELESS	
12-80	30	100	1.5	ATOMIC ABS-CHELATION/EXTRACTION,	I-1271, USGS TWRI BK5 CH A1
12-80	31	110	8.3	EMISSION-PLASMA ICP	
12-80	32			NOT DETERMINED	
12-80	33	90	11.4	ATOMIC ABS-DIRECT	
12-80	34	100	1.5	ATOMIC ABS-DIRECT	
12-80	35			NOT DETERMINED	
11-80	36	100	1.5	ATOMIC ABS-DIRECT	
12-80	37	90	11.4	ATOMIC ABS-DIRECT, I-1270,	USGS TWRI BK5 CH A1
12-80	38	100	1.5	ATOMIC ABS-DIRECT	
12-80	39	80	21.2	ATOMIC ABS-DIRECT, I-1270,	USGS TWRI BK5 CH A1
12-80	40	110	8.3	EMISSION-PLASMA ICP	
11-80	42	100	1.5	ATOMIC ABS-DIRECT, EPA	
11-80	43	100	1.5	ATOMIC ABS-DIRECT, EPA	
11-80	44	100	1.5	ATOMIC ABS-DIRECT	
12-80	45	100	1.5	ATOMIC ABS-DIRECT, EPA	
12-80	46			NOT DETERMINED	
12-80	49	100	1.5	ATOMIC ABS-DIRECT, EPA	
12-80	50			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	CU
12-80	51	80	21.2	ATOMIC ABS-FLAMELESS	
12-80	53	110	8.3	OTHER	
12-80	54	100	1.5	ATOMIC ABS-DIRECT	
11-80	55	100	1.5	ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1	
12-80	57	100	1.5	ATOMIC ABS-DIRECT, EPA	
12-80	58	80	21.2	ATOMIC ABS-FLAMELESS	
12-80	59	120	18.2	ATOMIC ABS-FLAMELESS	
12-80	60	110	8.3	ATOMIC ABS-FLAMELESS	
12-80	61			NOT DETERMINED	
11-80	62	110	8.3	ATOMIC ABS-DIRECT, EPA	
11-80	63	110	8.3	ATOMIC ABS-DIRECT	
12-80	64	80	21.2	ATOMIC ABS-DIRECT	
12-80	65	80	21.2	EMISSION-PLASMA ICP	
12-80	66	110	8.3	EMISSION-PLASMA ICP	
12-80	67			NOT DETERMINED	
12-80	68	90	11.4	EMISSION-PLASMA ICP	
12-80	69	110	8.3	ATOMIC ABS-DIRECT	
12-80	70	100	1.5	ATOMIC ABS-DIRECT, EPA	
12-80	71			NOT DETERMINED	
12-80	72			NOT DETERMINED	
12-80	73	60	40.9	REJECT	ATOMIC ABS-FLAMELESS
11-80	74	110	8.3		ATOMIC ABS-DIRECT, EPA
10-80	95	100	1.5		OTHER

TOTAL RANGE	60.0000	-	120.0000				SAMPLE 75
MEAN	101.5385		AVERAGE DEVIATION	7.3964			
STANDARD DEVIATION	10.1720		95 PCT.CONF.INTVL OF MEAN	101.5385	+OR-	2.8268	CU

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	PB
11-80	1	17	5.6	ATOMIC ABS-CHELATION/EXTRACTION,	I-1400, USGS TWRI BK5 CH A1
11-80	2			NOT DETERMINED	
11-80	3	10	37.9	EMISSION-PLASMA ICP	
12-80	4			NOT DETERMINED	
11-80	6	6	62.7	ATOMIC ABS-FLAMELESS	
12-80	7	14	13.0	ATOMIC ABS-CHELATION/EXTRACTION,	I-1400, USGS TWRI BK5 CH A1
12-80	8	14	13.0	ATOMIC ABS-CHELATION/EXTRACTION,	I-1400, USGS TWRI BK5 CH A1
10-80	9	100	521.3	REJECT ATOMIC ABS-DIRECT	
12-80	10	18	11.8	ATOMIC ABS-DIRECT, EPA	
11-80	12	30	86.4	ATOMIC ABS-DIRECT	
12-80	13	10	37.9	ATOMIC ABS-FLAMELESS	
12-80	14	13	19.2	ATOMIC ABS-FLAMELESS	
11-80	15			NOT DETERMINED	
11-80	18	17	5.6	ATOMIC ABS-FLAMELESS	
11-80	19			NOT DETERMINED	
11-80	20	17	5.6	ATOMIC ABS-FLAMELESS	
12-80	21	21	30.5	ATOMIC ABS-FLAMELESS	
12-80	22			NOT DETERMINED	
12-80	23	25	55.3	ATOMIC ABS-DIRECT	
12-80	25	6	62.7	ATOMIC ABS-FLAMELESS	
12-80	27			NOT DETERMINED	
12-80	28	19	18.0	ATOMIC ABS-FLAMELESS	
12-80	30	14	13.0	ATOMIC ABS-CHELATION/EXTRACTION,	I-1400, USGS TWRI BK5 CH A1
12-80	31	25	55.3	EMISSION-PLASMA ICP	
12-80	32			NOT DETERMINED	
12-80	33	17	5.6	ATOMIC ABS-DIRECT	
12-80	34	22	36.7	ATOMIC ABS-FLAMELESS	
12-80	35	20	24.3	ATOMIC ABS-DIRECT	
11-80	36	100	521.3	REJECT ATOMIC ABS-DIRECT	
12-80	37			NOT DETERMINED	
12-80	38	10	37.9	ATOMIC ABS-DIRECT, EPA	
12-80	39	15	6.8	ATOMIC ABS-CHELATION/EXTRACTION,	I-1400, USGS TWRI BK5 CH A1
12-80	40	11	31.7	EMISSION-PLASMA ICP	
11-80	42	21	30.5	ATOMIC ABS-DIRECT, EPA	
11-80	43	18	11.8	ATOMIC ABS-FLAMELESS	
11-80	44	17	5.6	ATOMIC ABS-FLAMELESS	
12-80	45			NOT DETERMINED	
12-80	46	2	87.6	ATOMIC ABS-FLAMELESS	
12-80	49	10	37.9	ATOMIC ABS-FLAMELESS	
12-80	50			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	PB
12-80	51	5	68.9	ATOMIC ABS-FLAMELESS	
12-80	53	20	24.3	ATOMIC ABS-DIRECT, EPA	
12-80	54			NOT DETERMINED	
11-80	55			NOT DETERMINED	
12-80	57	16	0.6	ATOMIC ABS-FLAMELESS	
12-80	58	46	185.8	REJECT ATOMIC ABS-FLAMELESS	
12-80	59			NOT DETERMINED	
12-80	60	15	6.8	ATOMIC ABS-FLAMELESS	
12-80	61			NOT DETERMINED	
11-80	62	15	6.8	ATOMIC ABS-DIRECT, EPA	
11-80	63	8	50.3	ATOMIC ABS-CHELATION/EXTRACTION, EPA	
12-80	64	16	0.6	ATOMIC ABS-DIRECT	
12-80	65	36	123.7	EMISSION-PLASMA ICP	
12-80	66	19	18.0	EMISSION-PLASMA ICP	
12-80	67			NOT DETERMINED	
12-80	68	24	49.1	ANODIC STRIPPING VOLTAMMETRY	
12-80	69	10	37.9	ATOMIC ABS-DIRECT	
12-80	70			NOT DETERMINED	
12-80	71			NOT DETERMINED	
12-80	72	20	24.3	ATOMIC ABS-DIRECT, EPA	
12-80	73	8	50.3	ATOMIC ABS-FLAMELESS	
11-80	74			NOT DETERMINED	
10-80	95	25	55.3	ATOMIC ABS-DIRECT	

TOTAL RANGE	2.0000	-	100.0000			SAMPLE 75
MEAN	16.0952		AVERAGE DEVIATION	5.2381		
STANDARD DEVIATION	6.8816		95 PCT.CONF.INTVL OF MEAN	16.0952 +OR-	2.1386	PB

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR LI
11-80	1	90	4.1	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
11-80	2	80	14.7	EMISSION PLASMA ICP
11-80	3	80	14.7	EMISSION PLASMA ICP
12-80	4			NOT DETERMINED
11-80	6			NOT DETERMINED
12-80	7	110	17.3	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
12-80	8	110	17.3	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
10-80	9			NOT DETERMINED
12-80	10			NOT DETERMINED
11-80	12			NOT DETERMINED
12-80	13			NOT DETERMINED
12-80	14	90	4.1	EMISSION-FLAME
11-80	15			NOT DETERMINED
11-80	18			NOT DETERMINED
11-80	19			NOT DETERMINED
11-80	20	80	14.7	ATOMIC ABS-DIRECT
12-80	21	100	6.6	ATOMIC ABS-DIRECT
12-80	22	80	14.7	ATOMIC ABS-FLAMELESS
12-80	23	90	4.1	EMISSION PLASMA ICP
12-80	25	100	6.6	ATOMIC ABS-DIRECT
12-80	27			NOT DETERMINED
12-80	28			NOT DETERMINED
12-80	30	90	4.1	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1
12-80	31			NOT DETERMINED
12-80	32			NOT DETERMINED
12-80	33			NOT DETERMINED
12-80	34			NOT DETERMINED
12-80	35			NOT DETERMINED
11-80	36			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38	120	27.9	EMISSION-FLAME
12-80	39			NOT DETERMINED
12-80	40	90	4.1	EMISSION PLASMA ICP
11-80	42			NOT DETERMINED
11-80	43			NOT DETERMINED
11-80	44			NOT DETERMINED
12-80	45			NOT DETERMINED
12-80	46			NOT DETERMINED
12-80	49			NOT DETERMINED
12-80	50			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	LI
12-80	51	90	4.1	EMISSION-FLAME	
12-80	53	100	6.6	ATOMIC ABS-DIRECT	
12-80	54			NOT DETERMINED	
11-80	55			NOT DETERMINED	
12-80	57			NOT DETERMINED	
12-80	58			NOT DETERMINED	
12-80	59			NOT DETERMINED	
12-80	60			NOT DETERMINED	
12-80	61	90	4.1	EMISSION-FLAME	
11-80	62			NOT DETERMINED	
11-80	63			NOT DETERMINED	
12-80	64			NOT DETERMINED	
12-80	65			NOT DETERMINED	
12-80	66	100	6.6	EMISSION PLASMA ICP	
12-80	67			NOT DETERMINED	
12-80	68			NOT DETERMINED	
12-80	69	70	25.4	ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1	
12-80	70	90	4.1	ATOMIC ABS-DIRECT	
12-80	71			NOT DETERMINED	
12-80	72			NOT DETERMINED	
12-80	73			NOT DETERMINED	
11-80	74			NOT DETERMINED	
10-80	95	120	27.9	ATOMIC ABS-DIRECT	

TOTAL RANGE	70.0000	-	120.0000			SAMPLE 75
MEAN	93.8095	AVERAGE DEVIATION	10.4308			
STANDARD DEVIATION	13.2197	95 PCT.CONF.INTVL OF MEAN	93.8095 +OR-	6.0177		LI

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR HG
11-80	1	13	17.0	ATOMIC ABS-FLAMELESS,AUTO, I-2462, USGS TWRI BK5 CH A1
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4			NOT DETERMINED
11-80	6	16	2.2	ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED
12-80	7	16	2.2	ATOMIC ABS-FLAMELESS,AUTO, I-2462, USGS TWRI BK5 CH A1
12-80	8	16	2.2	ATOMIC ABS-FLAMELESS,AUTO, I-2462, USGS TWRI BK5 CH A1
10-80	9	16	2.2	ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED
12-80	10	17	8.6	ATOMIC ABS-FLAMELESS, EPA
11-80	12	15	4.2	ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED
12-80	13	11	29.7	ATOMIC ABS-FLAMELESS, EPA
12-80	14	17	8.6	ATOMIC ABS-FLAMELESS, EPA
11-80	15			NOT DETERMINED
11-80	18	17	8.6	ATOMIC ABS-FLAMELESS, EPA
11-80	19			NOT DETERMINED
11-80	20			NOT DETERMINED
12-80	21	12	23.4	ATOMIC ABS-FLAMELESS, EPA
12-80	22			NOT DETERMINED
12-80	23			NOT DETERMINED
12-80	25	17	8.6	ATOMIC ABS-FLAMELESS, EPA
12-80	27			NOT DETERMINED
12-80	28	18	15.0	ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED
12-80	30	18	15.0	ATOMIC ABS-FLAMELESS,AUTO, I-2462, USGS TWRI BK5 CH A1
12-80	31			NOT DETERMINED
12-80	32	17	8.6	OTHER
12-80	33	16	2.2	ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED
12-80	34			NOT DETERMINED
12-80	35	15	4.2	ATOMIC ABS-FLAMELESS, EPA
11-80	36			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38			NOT DETERMINED
12-80	39			NOT DETERMINED
12-80	40			NOT DETERMINED
11-80	42	16	2.2	ATOMIC ABS-FLAMELESS, EPA
11-80	43	19	21.4	TECHNICON AUTOANALYZER,ATOMIC ABS-FLAMELESS, EPA
11-80	44	14	10.6	ATOMIC ABS-FLAMELESS, EPA
12-80	45			NOT DETERMINED
12-80	46	16	2.2	ATOMIC ABS-FLAMELESS, I-1462, USGS TWRI BK5 CH A1
12-80	49	17	8.6	ATOMIC ABS-FLAMELESS, EPA
12-80	50			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR HG
12-80	51	12	23.4	ATOMIC ABS-FLAMELESS, EPA
12-80	53			NOT DETERMINED
12-80	54			NOT DETERMINED
11-80	55			NOT DETERMINED
12-80	57	12	23.4	ATOMIC ABS-FLAMELESS, EPA
12-80	58	18	15.0	ATOMIC ABS-FLAMELESS, EPA
12-80	59	17	8.6	ATOMIC ABS-FLAMELESS, EPA
12-80	60	21	34.1	ATOMIC ABS-FLAMELESS, EPA
12-80	61			NOT DETERMINED
11-80	62	11	29.7	ATOMIC ABS-FLAMELESS, EPA
11-80	63	15	4.2	ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED
12-80	64			NOT DETERMINED
12-80	65			NOT DETERMINED
12-80	66			NOT DETERMINED
12-80	67			NOT DETERMINED
12-80	68	18	15.0	ATOMIC ABS-FLAMELESS, EPA
12-80	69			NOT DETERMINED
12-80	70	15	4.2	ATOMIC ABS-FLAMELESS, EPA
12-80	71			NOT DETERMINED
12-80	72			NOT DETERMINED
12-80	73	13	17.0	ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED
11-80	74			NOT DETERMINED
10-80	95			NOT DETERMINED

TOTAL RANGE	11.0000	-	21.0000				SAMPLE 75
MEAN	15.6563		AVERAGE DEVIATION	1.8672			
STANDARD DEVIATION	2.3910		95 PCT.CONF.INTVL OF MEAN	15.6563	+OR-	0.8580	HG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	MO
11-80	1	14	17.3	ATOMIC ABS-CHELATION/EXTRACTION,	I-1490, USGS TWRI BK5 CH A1
11-80	2	12	29.2	EMISSION-PLASMA ICP	
11-80	3	11	35.1	EMISSION-PLASMA ICP	
12-80	4			NOT DETERMINED	
11-80	6			NOT DETERMINED	
12-80	7			NOT DETERMINED	
12-80	8			NOT DETERMINED	
10-80	9			NOT DETERMINED	
12-80	10			NOT DETERMINED	
11-80	12			NOT DETERMINED	
12-80	13			NOT DETERMINED	
12-80	14			NOT DETERMINED	
11-80	15			NOT DETERMINED	
11-80	18			NOT DETERMINED	
11-80	19			NOT DETERMINED	
11-80	20	16	5.5	ATOMIC ABS-FLAMELESS	
12-80	21			NOT DETERMINED	
12-80	22	20	18.1	ATOMIC ABS-FLAMELESS	
12-80	23	8	52.8	EMISSION-PLASMA ICP	
12-80	25			NOT DETERMINED	
12-80	27			NOT DETERMINED	
12-80	28			NOT DETERMINED	
12-80	30	16	5.5	ATOMIC ABS-CHELATION/EXTRACTION,	I-1490, USGS TWRI BK5 CH A1
12-80	31	16	5.5	EMISSION-PLASMA ICP	
12-80	32			NOT DETERMINED	
12-80	33			NOT DETERMINED	
12-80	34			NOT DETERMINED	
12-80	35			NOT DETERMINED	
11-80	36			NOT DETERMINED	
12-80	37			NOT DETERMINED	
12-80	38			NOT DETERMINED	
12-80	39			NOT DETERMINED	
12-80	40	10	41.0	EMISSION-PLASMA ICP	
11-80	42			NOT DETERMINED	
11-80	43			NOT DETERMINED	
11-80	44			NOT DETERMINED	
12-80	45			NOT DETERMINED	
12-80	46	20	18.1	ATOMIC ABS-FLAMELESS	
12-80	49			NOT DETERMINED	
12-80	50			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	MO
12-80	51	16	5.5	ATOMIC ABS-FLAMELESS	
12-80	53	20	18.1	ATOMIC ABS-DIRECT	
12-80	54			NOT DETERMINED	
11-80	55			NOT DETERMINED	
12-80	57			NOT DETERMINED	
12-80	58			NOT DETERMINED	
12-80	59			NOT DETERMINED	
12-80	60	15	11.4	ATOMIC ABS-FLAMELESS	
12-80	61			NOT DETERMINED	
11-80	62			NOT DETERMINED	
11-80	63			NOT DETERMINED	
12-80	64			NOT DETERMINED	
12-80	65			NOT DETERMINED	
12-80	66	16	5.5	EMISSION-PLASMA ICP	
12-80	67			NOT DETERMINED	
12-80	68			NOT DETERMINED	
12-80	69			NOT DETERMINED	
12-80	70	31	83.0	ATOMIC ABS-DIRECT	
12-80	71			NOT DETERMINED	
12-80	72			NOT DETERMINED	
12-80	73			NOT DETERMINED	
11-80	74	30	77.1	ATOMIC ABS-DIRECT	
10-80	95			NOT DETERMINED	

TOTAL RANGE	8.0000	-	31.0000			SAMPLE 75
MEAN	16.9375		AVERAGE DEVIATION	4.5391		
STANDARD DEVIATION	6.3295		95 PCT.CONF.INTVL OF MEAN	16.9375 ±OR=	3.3720	MO

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NI
11-80	1	8	40.7	ATOMIC ABS-CHELATION-EXTRACTION, I-1500, USGS TWRI BK5 CH A1
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4	16	18.7	ATOMIC ABS-DIRECT
11-80	6			NOT DETERMINED
12-80	7	10	25.8	ATOMIC ABS-CHELATION-EXTRACTION, I-1500, USGS TWRI BK5 CH A1
12-80	8	10	25.8	ATOMIC ABS-CHELATION-EXTRACTION, I-1500, USGS TWRI BK5 CH A1
10-80	9			NOT DETERMINED
12-80	10	9	33.3	EMISSION-PLASMA ICP
11-80	12			NOT DETERMINED
12-80	13			NOT DETERMINED
12-80	14	0	100.0	ATOMIC ABS-FLAMELESS
11-80	15			NOT DETERMINED
11-80	18	14	3.8	ATOMIC ABS-FLAMELESS
11-80	19			NOT DETERMINED
11-80	20	10	25.8	ATOMIC ABS-FLAMELESS
12-80	21			NOT DETERMINED
12-80	22	25	85.4	ATOMIC ABS-FLAMELESS
12-80	23	19	40.9	EMISSION-PLASMA ICP
12-80	25			NOT DETERMINED
12-80	27			NOT DETERMINED
12-80	28			NOT DETERMINED
12-80	30	7	48.1	ATOMIC ABS-CHELATION-EXTRACTION, I-1500, USGS TWRI BK5 CH A1
12-80	31	17	26.1	EMISSION-PLASMA ICP
12-80	32			NOT DETERMINED
12-80	33	10	25.8	ATOMIC ABS-DIRECT
12-80	34	14	3.8	ATOMIC ABS-FLAMELESS
12-80	35			NOT DETERMINED
11-80	36			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38	15	11.2	ATOMIC ABS-DIRECT, EPA
12-80	39			NOT DETERMINED
12-80	40			NOT DETERMINED
11-80	42	17	26.1	ATOMIC ABS-DIRECT, EPA
11-80	43			NOT DETERMINED
11-80	44	24	78.0	ATOMIC ABS-DIRECT
12-80	45			NOT DETERMINED
12-80	46			NOT DETERMINED
12-80	49			NOT DETERMINED
12-80	50			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NI
12-80	51	8	40.7	ATOMIC ABS-FLAMELESS
12-80	53	26	92.8	ATOMIC ABS-DIRECT
12-80	54			NOT DETERMINED
11-80	55			NOT DETERMINED
12-80	57	11	18.4	ATOMIC ABS-FLAMELESS
12-80	58	22	63.2	OTHER
12-80	59			NOT DETERMINED
12-80	60	12	11.0	ATOMIC ABS-FLAMELESS
12-80	61			NOT DETERMINED
11-80	62	20	48.3	ATOMIC ABS-DIRECT, EPA
11-80	63	18	33.5	ATOMIC ABS-DIRECT, EPA
12-80	64			NOT DETERMINED
12-80	65	15	11.2	EMISSION-PLASMA ICP
12-80	66	14	3.8	EMISSION-PLASMA ICP
12-80	67			NOT DETERMINED
12-80	68	10	25.8	EMISSION-PLASMA ICP
12-80	69	10	25.8	ATOMIC ABS-DIRECT
12-80	70	9	33.3	ATOMIC ABS-DIRECT, EPA
12-80	71			NOT DETERMINED
12-80	72	100	641.6	REJECT ATOMIC ABS-DIRECT, EPA
12-80	73	9	33.3	ATOMIC ABS-FLAMELESS
11-80	74			NOT DETERMINED
10-80	95	9	33.3	ATOMIC ABS-DIRECT

TOTAL RANGE	0.0	-	100.0000			SAMPLE 75
MEAN		13.4839	AVERAGE DEVIATION	4.7575		
STANDARD DEVIATION		5.9097	95 PCT.CONF.INTVL OF MEAN	13.4839 +OR-	2.1674	NI

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SE
11-80	1	8	20.7	ATOMIC ABS-HYDRIDE,AUTO, I-2667, USGS
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4			NOT DETERMINED
11-80	6	7	5.6	ATOMIC ABS-FLAMELESS
12-80	7			NOT DETERMINED
12-80	8			NOT DETERMINED
10-80	9	10	50.8	OTHER
12-80	10	9	35.8	ATOMIC ABS-HYDRIDE(NABH4)
11-80	12	8	20.7	ATOMIC ABS-HYDRIDE, I-1667, USGS TWRI BK5 CH A1
12-80	13	6	9.5	ATOMIC ABS-FLAMELESS
12-80	14	8	20.7	ATOMIC ABS-FLAMELESS
11-80	15			NOT DETERMINED
11-80	18	2	69.8	ATOMIC ABS-FLAMELESS
11-80	19			NOT DETERMINED
11-80	20	9	35.8	ATOMIC ABS-FLAMELESS
12-80	21	8	20.7	ATOMIC ABS-HYDRIDE, I-1667, USGS TWRI BK5 CH A1
12-80	22			NOT DETERMINED
12-80	23			NOT DETERMINED
12-80	25	8	20.7	ATOMIC ABS-FLAMELESS
12-80	27			NOT DETERMINED
12-80	28	3	54.7	ATOMIC ABS-FLAMELESS
12-80	30	8	20.7	ATOMIC ABS-HYDRIDE,AUTO, I-2667, USGS
12-80	31			NOT DETERMINED
12-80	32			NOT DETERMINED
12-80	33			NOT DETERMINED
12-80	34			NOT DETERMINED
12-80	35	6	9.5	ATOMIC ABS-FLAMELESS
11-80	36			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38	2	69.8	ATOMIC ABS-FLAMELESS
12-80	39			NOT DETERMINED
12-80	40			NOT DETERMINED
11-80	42			NOT DETERMINED
11-80	43	8	20.7	ATOMIC ABS-FLAMELESS
11-80	44	7	5.6	ATOMIC ABS-FLAMELESS
12-80	45			NOT DETERMINED
12-80	46			NOT DETERMINED
12-80	49	5	24.6	ATOMIC ABS-FLAMELESS
12-80	50			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	SE
12-80	51	5	24.6	ATOMIC ABS-FLAMELESS	
12-80	53			NOT DETERMINED	
12-80	54			NOT DETERMINED	
11-80	55			NOT DETERMINED	
12-80	57	8	20.7	ATOMIC ABS-FLAMELESS	
12-80	58			NOT DETERMINED	
12-80	59			NOT DETERMINED	
12-80	60	8	20.7	ATOMIC ABS-FLAMELESS	
12-80	61			NOT DETERMINED	
11-80	62	10	50.8	ATOMIC ABS-FLAMELESS	
11-80	63	0	100.0	OTHER	
12-80	64	0	100.0	ATOMIC ABS-HYDRIDE (NABH ₄)	
12-80	65			NOT DETERMINED	
12-80	66	16	141.3	OTHER	
12-80	67			NOT DETERMINED	
12-80	68	5	24.6	ATOMIC ABS-FLAMELESS	
12-80	69			NOT DETERMINED	
12-80	70			NOT DETERMINED	
12-80	71			NOT DETERMINED	
12-80	72			NOT DETERMINED	
12-80	73	5	24.6	ATOMIC ABS-FLAMELESS	
11-80	74			NOT DETERMINED	
10-80	95			NOT DETERMINED	

TOTAL RANGE	0.0	-	16.0000			SAMPLE 75
MEAN		6.6296	AVERAGE DEVIATION	2.5130		
STANDARD DEVIATION		3.3644	95 PCT.CONF.INTVL OF MEAN	6.6296 +OR-	1.3312	SE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR AG
11-80	1	5	0.6	ATOMIC ABS-CHELATION/EXTRACTION, I-1720, USGS TWRI BK5 A1
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4	7	39.1	ATOMIC ABS-DIRECT
11-80	6	4	20.5	ATOMIC ABS-FLAMELESS
12-80	7	4	20.5	ATOMIC ABS-CHELATION/EXTRACTION, I-1720, USGS TWRI BK5 A1
12-80	8	5	0.6	ATOMIC ABS-CHELATION/EXTRACTION, I-1720, USGS TWRI BK5 A1
10-80	9			NOT DETERMINED
12-80	10	3	40.4	EMISSION-PLASMA ICP
11-80	12	5	0.6	ATOMIC ABS-DIRECT
12-80	13	3	40.4	ATOMIC ABS-FLAMELESS
12-80	14	5	0.6	ATOMIC ABS-FLAMELESS
11-80	15			NOT DETERMINED
11-80	18	3	40.4	ATOMIC ABS-FLAMELESS
11-80	19			NOT DETERMINED
11-80	20	5	0.6	ATOMIC ABS-DIRECT
12-80	21			NOT DETERMINED
12-80	22			NOT DETERMINED
12-80	23	5	0.6	EMISSION-PLASMA ICP
12-80	25	4	20.5	ATOMIC ABS-FLAMELESS
12-80	27			NOT DETERMINED
12-80	28			NOT DETERMINED
12-80	30	5	0.6	ATOMIC ABS-CHELATION/EXTRACTION, I-1720, USGS TWRI BK5 A1
12-80	31			NOT DETERMINED
12-80	32			NOT DETERMINED
12-80	33			NOT DETERMINED
12-80	34	5	0.6	ATOMIC ABS-FLAMELESS
12-80	35	10	98.7	ATOMIC ABS-DIRECT, EPA
11-80	36			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38	10	98.7	ATOMIC ABS-DIRECT, EPA
12-80	39			NOT DETERMINED
12-80	40			NOT DETERMINED
11-80	42	7	39.1	ATOMIC ABS-DIRECT, EPA
11-80	43	5	0.6	ATOMIC ABS-FLAMELESS
11-80	44	4	20.5	ATOMIC ABS-FLAMELESS
12-80	45			NOT DETERMINED
12-80	46			NOT DETERMINED
12-80	49	0	100.0	ATOMIC ABS-DIRECT, EPA
12-80	50			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR AG
12-80	51	5	0.6	ATOMIC ABS-FLAMELESS
12-80	53	7	39.1	ATOMIC ABS-DIRECT
12-80	54			NOT DETERMINED
11-80	55			NOT DETERMINED
12-80	57	4	20.5	ATOMIC ABS-DIRECT, EPA
12-80	58			NOT DETERMINED
12-80	59	6	19.2	ATOMIC ABS-FLAMELESS
12-80	60	4	20.5	ATOMIC ABS-FLAMELESS
12-80	61			NOT DETERMINED
11-80	62	11	118.6	ATOMIC ABS-DIRECT, EPA
11-80	63	0	100.0	ATOMIC ABS-DIRECT
12-80	64			NOT DETERMINED
12-80	65			NOT DETERMINED
12-80	66			NOT DETERMINED
12-80	67			NOT DETERMINED
12-80	68			NOT DETERMINED
12-80	69			NOT DETERMINED
12-80	70			NOT DETERMINED
12-80	71			NOT DETERMINED
12-80	72	5	0.6	ATOMIC ABS-DIRECT, EPA
12-80	73	5	0.6	ATOMIC ABS-FLAMELESS
11-80	74	5	0.6	ATOMIC ABS-DIRECT, EPA
10-80	95			NOT DETERMINED

TOTAL RANGE	0.0	-	11.0000			SAMPLE 75
MEAN		5.0323	AVERAGE DEVIATION	1.4693		
STANDARD DEVIATION		2.3591	95 PCT.CONF.INTVL OF MEAN	5.0323 +OR-	0.8652	AG

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR SR
11-80	1	140	41.4	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
11-80	2	110	11.1	EMISSION PLASMA ICP
11-80	3	90	9.1	EMISSION PLASMA ICP
12-80	4			NOT DETERMINED
11-80	6			NOT DETERMINED
12-80	7	120	21.2	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
12-80	8	120	21.2	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
10-80	9			NOT DETERMINED
12-80	10	110	11.1	EMISSION PLASMA ICP
11-80	12			NOT DETERMINED
12-80	13			NOT DETERMINED
12-80	14			NOT DETERMINED
11-80	15			NOT DETERMINED
11-80	18			NOT DETERMINED
11-80	19			NOT DETERMINED
11-80	20	120	21.2	ATOMIC ABS-DIRECT
12-80	21			NOT DETERMINED
12-80	22			NOT DETERMINED
12-80	23	110	11.1	EMISSION PLASMA ICP
12-80	25			NOT DETERMINED
12-80	27			NOT DETERMINED
12-80	28			NOT DETERMINED
12-80	30	80	19.2	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
12-80	31			NOT DETERMINED
12-80	32			NOT DETERMINED
12-80	33			NOT DETERMINED
12-80	34			NOT DETERMINED
12-80	35			NOT DETERMINED
11-80	36			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38			NOT DETERMINED
12-80	39	120	21.2	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1
12-80	40	90	9.1	EMISSION PLASMA ICP
11-80	42	50	49.5	ATOMIC ABS-DIRECT
11-80	43			NOT DETERMINED
11-80	44	80	19.2	ATOMIC ABS-DIRECT
12-80	45			NOT DETERMINED
12-80	46			NOT DETERMINED
12-80	49			NOT DETERMINED
12-80	50			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	SR
12-80	51	80	19.2	OTHER	
12-80	53	50	49.5	ATOMIC ABS-DIRECT	
12-80	54			NOT DETERMINED	
11-80	55			NOT DETERMINED	
12-80	57			NOT DETERMINED	
12-80	58	120	21.2	ATOMIC ABS-DIRECT	
12-80	59			NOT DETERMINED	
12-80	60			NOT DETERMINED	
12-80	61	80	19.2	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	
11-80	62			NOT DETERMINED	
11-80	63			NOT DETERMINED	
12-80	64			NOT DETERMINED	
12-80	65	100	1.0	EMISSION PLASMA ICP	
12-80	66			NOT DETERMINED	
12-80	67			NOT DETERMINED	
12-80	68			NOT DETERMINED	
12-80	69	110	11.1	ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	
12-80	70	100	1.0	OTHER	
12-80	71			NOT DETERMINED	
12-80	72			NOT DETERMINED	
12-80	73			NOT DETERMINED	
11-80	74			NOT DETERMINED	
10-80	95			NOT DETERMINED	

TOTAL RANGE	50.0000	-	140.0000			SAMPLE 75
MEAN	99.0000	AVERAGE DEVIATION	19.2000			
STANDARD DEVIATION	23.8195	95 PCT.CONF.INTVL OF MEAN	99.0000	+OR-	11.1477	SR

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR TL
11-80	1	5	53.8	ATOMIC ABS - FLAMELESS
11-80	2			NOT DETERMINED
11-80	3			NOT DETERMINED
12-80	4			NOT DETERMINED
11-80	6			NOT DETERMINED
12-80	7			NOT DETERMINED
12-80	8			NOT DETERMINED
10-80	9			NOT DETERMINED
12-80	10			NOT DETERMINED
11-80	12			NOT DETERMINED
12-80	13			NOT DETERMINED
12-80	14			NOT DETERMINED
11-80	15			NOT DETERMINED
11-80	18			NOT DETERMINED
11-80	19			NOT DETERMINED
11-80	20			NOT DETERMINED
12-80	21			NOT DETERMINED
12-80	22			NOT DETERMINED
12-80	23			NOT DETERMINED
12-80	25			NOT DETERMINED
12-80	27			NOT DETERMINED
12-80	28			NOT DETERMINED
12-80	30			NOT DETERMINED
12-80	31			NOT DETERMINED
12-80	32			NOT DETERMINED
12-80	33			NOT DETERMINED
12-80	34			NOT DETERMINED
12-80	35			NOT DETERMINED
11-80	36			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38			NOT DETERMINED
12-80	39			NOT DETERMINED
12-80	40			NOT DETERMINED
11-80	42			NOT DETERMINED
11-80	43			NOT DETERMINED
11-80	44			NOT DETERMINED
12-80	45			NOT DETERMINED
12-80	46			NOT DETERMINED
12-80	49			NOT DETERMINED
12-80	50			NOT DETERMINED

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR TL
12-80	51	0	100.0	ATOMIC ABS - FLAMELESS
12-80	53			NOT DETERMINED
12-80	54			NOT DETERMINED
11-80	55			NOT DETERMINED
12-80	57			NOT DETERMINED
12-80	58			NOT DETERMINED
12-80	59			NOT DETERMINED
12-80	60	5	53.8	ATOMIC ABS - FLAMELESS
12-80	61			NOT DETERMINED
11-80	62			NOT DETERMINED
11-80	63			NOT DETERMINED
12-80	64			NOT DETERMINED
12-80	65			NOT DETERMINED
12-80	66			NOT DETERMINED
12-80	67			NOT DETERMINED
12-80	68			NOT DETERMINED
12-80	69			NOT DETERMINED
12-80	70			NOT DETERMINED
12-80	71			NOT DETERMINED
12-80	72			NOT DETERMINED
12-80	73	3	7.7	ATOMIC ABS - FLAMELESS
11-80	74			NOT DETERMINED
10-80	95			NOT DETERMINED

TOTAL RANGE	0.0	-	5.0000			SAMPLE 75
MEAN		3.2500	AVERAGE DEVIATION	1.7500		
STANDARD DEVIATION		2.3629	95 PCT.CONF.INTVL OF MEAN	3.2500 +0R-	3.7594	TL

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	ZN
11-80	1	220	6.9	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
11-80	2	240	1.6	EMISSION-PLASMA ICP	
11-80	3	220	6.9	EMISSION-PLASMA ICP	
12-80	4	270	14.3	ATOMIC ABS-DIRECT	
11-80	6	260	10.1	ATOMIC ABS-DIRECT	
12-80	7	250	5.8	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
12-80	8	250	5.8	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
10-80	9	160	32.3	REJECT ATOMIC ABS-DIRECT	
12-80	10	240	1.6	EMISSION-PLASMA ICP	
11-80	12	240	1.6	ATOMIC ABS-DIRECT	
12-80	13	220	6.9	ATOMIC ABS-DIRECT	
12-80	14	250	5.8	EMISSION-PLASMA ICP	
11-80	15	220	6.9	ATOMIC ABS-DIRECT	
11-80	18	250	5.8	ATOMIC ABS-DIRECT, EPA	
11-80	19	230	2.6	ATOMIC ABS-DIRECT	
11-80	20	230	2.6	ATOMIC ABS-DIRECT	
12-80	21	250	5.8	ATOMIC ABS-DIRECT, EPA	
12-80	22	180	23.8	REJECT OTHER	
12-80	23	230	2.6	EMISSION-PLASMA ICP	
12-80	25	240	1.6	ATOMIC ABS-DIRECT	
12-80	27	240	1.6	ATOMIC ABS-DIRECT	
12-80	28	250	5.8	ATOMIC ABS-DIRECT	
12-80	30	220	6.9	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
12-80	31			NOT DETERMINED	
12-80	32			NOT DETERMINED	
12-80	33	240	1.6	ATOMIC ABS-DIRECT	
12-80	34	230	2.6	ATOMIC ABS-DIRECT	
12-80	35			NOT DETERMINED	
11-80	36	230	2.6	ATOMIC ABS-DIRECT	
12-80	37	240	1.6	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
12-80	38	220	6.9	ATOMIC ABS-DIRECT, EPA	
12-80	39	200	15.3	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
12-80	40	230	2.6	EMISSION-PLASMA ICP	
11-80	42	220	6.9	ATOMIC ABS-DIRECT, EPA	
11-80	43	280	18.5	ATOMIC ABS-DIRECT, EPA	
11-80	44	240	1.6	ATOMIC ABS-DIRECT	
12-80	45	250	5.8	ATOMIC ABS-DIRECT, EPA	
12-80	46	240	1.6	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
12-80	49	210	11.1	ATOMIC ABS-DIRECT, EPA	
12-80	50			NOT DETERMINED	

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR	ZN
12-80	51	240	1.6	ATOMIC ABS-DIRECT	
12-80	53	240	1.6	ATOMIC ABS-DIRECT, EPA	
12-80	54			NOT DETERMINED	
11-80	55	250	5.8	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
12-80	57	240	1.6	ATOMIC ABS-DIRECT, EPA	
12-80	58	500	111.7	REJECT OTHER	
12-80	59	250	5.8	ATOMIC ABS-DIRECT, EPA	
12-80	60	240	1.6	ATOMIC ABS-DIRECT	
12-80	61			NOT DETERMINED	
11-80	62	230	2.6	ATOMIC ABS-DIRECT, EPA	
11-80	63	230	2.6	ATOMIC ABS-DIRECT	
12-80	64	200	15.3	ATOMIC ABS-DIRECT	
12-80	65	230	2.6	EMISSION-PLASMA ICP	
12-80	66	240	1.6	EMISSION-PLASMA ICP	
12-80	67			NOT DETERMINED	
12-80	68	250	5.8	EMISSION-PLASMA ICP	
12-80	69	230	2.6	ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	
12-80	70	230	2.6	ATOMIC ABS-DIRECT, EPA	
12-80	71			NOT DETERMINED	
12-80	72			NOT DETERMINED	
12-80	73	160	32.3	REJECT ATOMIC ABS-DIRECT	
11-80	74	230	2.6	ATOMIC ABS-DIRECT, EPA	
10-80	95	230	2.6	ATOMIC ABS-DIRECT	

TOTAL RANGE	160.0000	-	500.0000			SAMPLE 75
MEAN	236.2000	AVERAGE DEVIATION	11.7039			
STANDARD DEVIATION	15.2382	95 PCT.CONF.INTVL OF MEAN	236.2000	+OR-	4.3273	ZN

DETERMINATION	NO.LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN		
			95 PCT. CI	X +OR- STD	X +OR- 2STD
AL	28	4	48	74	93
FE	56	11	24	76	92
MN	56	5	19	75	94
SB	5	0	80	80	100
AS	35	6	42	70	94
BA	25	0	20	80	88
BE	14	0	64	64	100
CD	49	8	31	73	96
CR TOT	47	4	29	78	93
CO	16	0	56	81	88
CU	53	2	48	75	90
PB	45	7	36	71	93
LI	21	0	38	57	100
HG	32	0	34	72	97
MO	16	0	63	75	88
NI	32	3	19	77	94
SE	27	0	15	70	96
AG	31	0	42	84	84
SR	20	0	40	85	90
TL	4	0	100	75	100
ZN	54	7	28	74	92

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR ORG-N
11-80	1	1.7	14.0	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
12-80	4	1.3	12.8	PHENATE, AUTO, EPA
11-80	6	1.4	6.1	OTHER
12-80	7	0.8	46.3	NESSLERIZATION, I-1550, ORG N BY DIFF, USGS TWRI BK5 CH A1
12-80	8	0.7	53.1	NESSLERIZATION, I-1550, ORG N BY DIFF, USGS TWRI BK5 CH A1
11-80	12	3.5	134.7	NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC, EPA
12-80	13	0.6	59.8	INDOPHENOL,AUTO, I-2551, ORG N BY DIFF, USGS TWRI BK5 CH A1
12-80	14	1.1	26.2	TOTAL KJELDAHL, ORG N BY DIFF, EPA
11-80	16			NOT DETERMINED
11-80	18	1.4	6.1	NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC, EPA
12-80	19	1.3	12.8	INDOPHENOL,AUTO, I-2551, ORG N BY DIFF, USGS TWRI BK5 CH A1
11-80	20			NOT DETERMINED
12-80	22			NOT DETERMINED
12-80	23			NOT DETERMINED
12-80	25			NOT DETERMINED
12-80	27			NOT DETERMINED
12-80	28	2.3	54.3	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
11-80	29			NOT DETERMINED
12-80	30	0.8	45.7	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
12-80	31			NOT DETERMINED
12-80	32	2.7	81.1	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
12-80	33	0.8	45.0	TOTAL KJELDAHL, ORG N BY DIFF, EPA
12-80	34	1.6	7.3	TOTAL KJELDAHL, ORG N BY DIFF, EPA
12-80	35			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38	3.4	128.0	NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 14ED
11-80	42	1.0	32.9	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
11-80	43	1.4	6.1	INDOPHENOL,AUTO, I-2551, ORG N BY DIFF, USGS TWRI BK5 CH A1
11-80	44	1.7	14.0	PHENATE, AUTO, EPA
12-80	45	2.5	67.7	TOTAL KJELDAHL, ORG N BY DIFF, EPA
12-80	49	4.8	221.9	REJECT - NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC, EPA
11-80	51	1.0	32.9	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
12-80	52	1.3	12.8	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
12-80	53			NOT DETERMINED
12-80	56			NOT DETERMINED
12-80	57	0.5	66.5	SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BK5 CH A1
12-80	58			NOT DETERMINED
12-80	60			NOT DETERMINED
11-80	62	0.1	93.3	NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC, EPA
11-80	63	2.2	47.6	OTHER

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN
12-80	69	1.6	7.3
12-80	70	1.7	14.0
11-80	72	1.2	19.5
12-80	73	1.3	12.8
11-80	74	1.8	20.7

METHODS FOR ORG-N

NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 14ED
 NESSLERIZATION, I-1550, ORG N BY DIFF, USGS TWRI BK5 CH A1
 OTHER
 NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 14ED
 PHENATE, AUTO, EPA

TOTAL RANGE	0.1000	-	4.8000			SAMPLE 4
MEAN		1.4910	AVERAGE DEVIATION	0.5872		
STANDARD DEVIATION		0.7919	95 PCT.CONF.INTVL OF MEAN	1.4910 +OR-	0.2957	ORG-N

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NO2-N
11-80	1	0.34	4.4	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
12-80	4	0.31	4.8	TECHNICON AUTOANALYZER, DIAZOTIZATION
11-80	6	0.35	7.4	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	7	0.26	20.2	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
12-80	8	0.27	17.1	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
11-80	12			NOT DETERMINED
12-80	13	0.36	10.5	DIAZOTIZATION, APHA STD METH, 14ED
12-80	14	0.34	4.4	DIAZOTIZATION, EPA
11-80	16	0.30	7.9	OTHER
11-80	18	0.35	7.4	DIAZOTIZATION, APHA STD METH, 14ED
12-80	19			NOT DETERMINED
11-80	20	0.32	1.8	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	22	0.34	4.4	DIAZOTIZATION, APHA STD METH, 14ED
12-80	23			NOT DETERMINED
12-80	25	0.32	1.8	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	27	0.26	20.2	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	28	0.32	1.8	TECHNICON AUTOANALYZER, DIAZOTIZATION
11-80	29	0.36	10.5	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	30	0.34	4.4	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
12-80	31			NOT DETERMINED
12-80	32	0.33	1.3	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	33	0.44	35.1	REJECT TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	34	0.32	1.8	DIAZOTIZATION, ASTM D1254
12-80	35			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38	0.30	7.9	TECHNICON AUTOANALYZER, DIAZOTIZATION
11-80	42	0.31	4.8	TECHNICON AUTOANALYZER, DIAZOTIZATION
11-80	43	0.34	4.4	DIAZOTIZATION, APHA STD METH, 14ED
11-80	44	0.35	7.4	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	45	0.35	7.4	OTHER
12-80	49			NOT DETERMINED
11-80	51	0.34	4.4	TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	52	0.35	7.4	DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1
12-80	53			NOT DETERMINED
12-80	56			NOT DETERMINED
12-80	57	0.43	32.0	REJECT TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	58	0.32	1.8	DIAZOTIZATION, EPA
12-80	60	0.29	11.0	TECHNICON AUTOANALYZER, DIAZOTIZATION
11-80	62	0.33	1.3	TECHNICON AUTOANALYZER, DIAZOTIZATION
11-80	63	0.34	4.4	TECHNICON AUTOANALYZER, DIAZOTIZATION

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR NO2-N
12-80	69	0.32	1.8		DIAZOTIZATION, APHA STD METH, 14ED
12-80	70	0.07	78.5	REJECT	DIAZOTIZATION, APHA STD METH, 14ED
11-80	72	0.33	1.3		TECHNICON AUTOANALYZER, DIAZOTIZATION
12-80	73	0.34	4.4		DIAZOTIZATION, APHA STD METH, 14ED
11-80	74	0.35	7.4		TECHNICON AUTOANALYZER, DIAZOTIZATION

TOTAL RANGE	0.0700	-	0.4400			SAMPLE 4
MEAN	0.3258		AVERAGE DEVIATION	0.0206		
STANDARD DEVIATION	0.0266		95 PCT.CONF.INTVL OF MEAN	0.3258 +OR-	0.0094	NO2-N

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NH3-N
11-80	1	1.2	1.9	INDOPHENOL,AUTO, I-2523, USGS TWRI BK5 CH A1
12-80	4	1.3	10.4	PHENATE, AUTO, EPA
11-80	6	1.1	6.6	PHENATE, AUTO, EPA
12-80	7	0.9	23.6	INDOPHENOL,AUTO, I-2523, USGS TWRI BK5 CH A1
12-80	8	0.9	23.6	INDOPHENOL,AUTO, I-2523, USGS TWRI BK5 CH A1
11-80	12	2.9	146.3	REJECT DISTILLATION-NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC,
12-80	13	1.6	35.9	DISTILLATION-NESSLERIZATION, I-1520, USGS TWRI BK5 CH A1
12-80	14	1.2	1.9	ION-SELECTIVE ELECTRODE, EPA
11-80	16	1.2	1.9	ION-SELECTIVE ELECTRODE, EPA
11-80	18	1.2	1.9	ION-SELECTIVE ELECTRODE, EPA
12-80	19	1.4	18.9	INDOPHENOL,AUTO, I-2523, USGS TWRI BK5 CH A1
11-80	20	0.4	64.3	ION-SELECTIVE ELECTRODE, EPA
12-80	22	0.9	21.0	ION-SELECTIVE ELECTRODE, EPA
12-80	23			NOT DETERMINED
12-80	25	1.0	15.1	PHENATE, AUTO, EPA
12-80	27			NOT DETERMINED
12-80	28	1.0	15.1	DISTILLATION-NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 1
11-80	29	1.1	6.6	PHENATE, AUTO, EPA
12-80	30	1.0	15.1	OTHER
12-80	31	1.8	52.8	DISTILLATION-NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC,
12-80	32	1.4	18.9	PHENATE, AUTO, EPA
12-80	33	1.4	18.9	PHENATE, AUTO, EPA
12-80	34	0.9	23.6	PHENATE, AUTO, EPA
12-80	35			NOT DETERMINED
12-80	37			NOT DETERMINED
12-80	38	0.9	23.6	DISTILLATION-NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 1
11-80	42	1.7	44.4	PHENATE, AUTO, EPA
11-80	43	1.3	10.4	PHENATE, AUTO, EPA
11-80	44	1.1	6.6	PHENATE, AUTO, EPA
12-80	45	1.1	6.6	OTHER
12-80	49	1.1	6.6	DISTILLATION-NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC,
11-80	51	1.3	10.4	PHENATE, AUTO, EPA
12-80	52	1.2	1.9	INDOPHENOL,AUTO, I-2523, USGS TWRI BK5 CH A1
12-80	53			NOT DETERMINED
12-80	56	1.7	44.4	DISTILLATION-NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 1
12-80	57	1.1	6.6	PHENATE, AUTO, EPA
12-80	58			NOT DETERMINED
12-80	60	1.2	1.9	PHENATE, AUTO, EPA
11-80	62	1.2	1.9	ION-SELECTIVE ELECTRODE, EPA
11-80	63	1.2	1.9	OTHER

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR NH3-N
12-80	69	1.2	1.9	PHENATE, AUTO, EPA
12-80	70	1.1	6.6	DISTILLATION-NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC,
11-80	72	1.2	1.9	OTHER
12-80	73	0.9	23.6	ION-SELECTIVE ELECTRODE, EPA
11-80	74	1.3	10.4	PHENATE, AUTO, EPA

TOTAL RANGE	0.4200	-	2.9000			SAMPLE 4
MEAN	1.1776		AVERAGE DEVIATION	0.1826		
STANDARD DEVIATION	0.2590		95 PCT.CONF.INTVL OF MEAN	1.1776 +OR-	0.0849	NH3-N

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN		METHODS FOR NO3-N
11-80	1	1.8	7.0		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
12-80	4	1.5	22.5		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-80	6	1.7	12.2		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	7	1.8	7.0		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
12-80	8	2.0	3.4		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
11-80	12	8.7	349.6	REJECT	BRUCINE, APHA STD METH, 14ED
12-80	13	1.9	1.8		MANUAL, CADMIUM REDUCTION
12-80	14	1.9	1.8		OTHER
11-80	16	2.0	3.4		BRUCINE, APHA STD METH, 14ED
11-80	18	1.7	12.2		BRUCINE, APHA STD METH, 14ED
12-80	19	2.2	13.7		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-80	20	3.3	70.5	REJECT	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	22	2.5	29.2		BRUCINE, APHA STD METH, 14ED
12-80	23	2.0	3.4		OTHER
12-80	25	1.5	22.5		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	27			NOT DETERMINED	
12-80	28	2.1	8.5		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-80	29	1.8	7.0		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	30	1.9	1.8		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
12-80	31	2.1	8.5		OTHER
12-80	32	1.8	7.0		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	33	1.9	1.8		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
12-80	34	1.8	7.0		MANUAL, CADMIUM REDUCTION
12-80	35	0.6	69.0	REJECT	OTHER
12-80	37			NOT DETERMINED	
12-80	38	2.1	8.5		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-80	42	2.0	3.4		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-80	43	2.2	13.7		TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION
11-80	44	1.8	7.0		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	45	3.2	65.4	REJECT	OTHER
12-80	49	8.4	334.1	REJECT	BRUCINE, I-1530, USGS TWRI, BK5 CH A1
11-80	51	2.1	8.5		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	52	1.9	1.8		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
12-80	53	2.0	3.4		BRUCINE, I-1530, USGS TWRI, BK5 CH A1
12-80	56	2.0	3.4		BRUCINE, APHA STD METH, 14ED
12-80	57	1.8	7.0		CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5
12-80	58			NOT DETERMINED	
12-80	60	2.0	3.4		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-80	62	1.7	12.2		TECHNICON AUTOANALYZER, CADMIUM REDUCTION
11-80	63	2.0	3.4		TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR N03-N
12-80	69	2.0	3.4	OTHER
12-80	70	1.9	1.8	BRUCINE, APHA STD METH, 14ED
11-80	72	2.1	8.5	TECHNICON AUTOANALYZER, CADMIUM REDUCTION
12-80	73	2.2	13.7	MANUAL, CADMIUM REDUCTION
11-80	74	1.9	1.8	TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION

TOTAL RANGE	0.6000 -	8.7000			SAMPLE 4
MEAN	1.9351	AVERAGE DEVIATION	0.1496		
STANDARD DEVIATION	0.1961	95 PCT.CONF.INTVL OF MEAN	1.9351 +OR-	0.0652	N03-N

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR P04-P
11-80	1	1.9	5.6	PHOSPHOMOLYBDATE,AUTO, I-2601, USGS TWRI BK5 CH A1
12-80	4	1.7	5.6	OTHER
11-80	6	1.8	0.0	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
12-80	7	1.3	27.8	PHOSPHOMOLYBDATE, I-1601, USGS TWRI BK5 CH A1
12-80	8	1.3	27.8	PHOSPHOMOLYBDATE, I-1601, USGS TWRI BK5 CH A1
11-80	12			NOT DETERMINED
12-80	13	0.3	83.3	REJECT ASCORBIC ACID, APHA STD METH, 14ED
12-80	14	1.7	5.6	ASCORBIC ACID, APHA STD METH, 14ED
11-80	16			NOT DETERMINED
11-80	18	1.6	11.1	OTHER
12-80	19	1.7	5.6	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
11-80	20	1.8	0.0	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	22	3.2	77.8	REJECT ASCORBIC ACID, APHA STD METH, 14ED
12-80	23	1.8	0.0	PHOSPHOMOLYBDATE, I-1601, USGS TWRI BK5 CH A1
12-80	25	2.0	11.1	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
12-80	27	2.2	22.2	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	28	1.6	11.1	ASCORBIC ACID, APHA STD METH, 14ED
11-80	29	1.8	0.0	ASCORBIC ACID, APHA STD METH, 14ED
12-80	30	2.2	22.2	PHOSPHOMOLYBDATE,AUTO, I-2601, USGS TWRI BK5 CH A1
12-80	31	1.6	11.1	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
12-80	32	1.9	5.6	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
12-80	33	1.5	16.7	ASCORBIC ACID REDUCTION, ASTM METHOD A, D515
12-80	34			NOT DETERMINED
12-80	35	1.6	11.1	OTHER
12-80	37	1.6	11.1	PHOSPHONOLYBDATE, EPA
12-80	38	2.4	33.3	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
11-80	42	2.2	22.2	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
11-80	43	1.8	0.0	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
11-80	44	1.8	0.0	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	45			NOT DETERMINED
12-80	49	1.8	0.0	PHOSPHONOLYBDATE, EPA
11-80	51	1.9	5.6	PHOSPHONOLYBDATE, EPA
12-80	52	1.7	5.6	PHOSPHOMOLYBDATE,AUTO, I-2601, USGS TWRI BK5 CH A1
12-80	53			NOT DETERMINED
12-80	56	1.6	11.1	OTHER
12-80	57	2.4	33.3	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	58	2.0	11.1	PHOSPHONOLYBDATE, EPA
12-80	60	1.6	11.1	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
11-80	62	2.0	11.1	PHOSPHONOLYBDATE, EPA
11-80	63	8.4	366.7	REJECT TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE

DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN
12-80	69	1.7	5.6
12-80	70	1.8	0.0
11-80	72	1.8	0.0
12-80	73	1.7	5.6
11-80	74	1.8	0.0

METHODS FOR P04-P

OTHER
 PHOSPHONOLYBDATE, EPA
 TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
 ASCORBIC ACID, APHA STD METH, 14ED
 OTHER

TOTAL RANGE	0.3000	-	8.4000			SAMPLE 4
MEAN	1.8000		AVERAGE DEVIATION	0.1784		
STANDARD DEVIATION	0.2517		95 PCT.CONF.INTVL OF MEAN	1.8000 +OR-	0.0836	P04-P

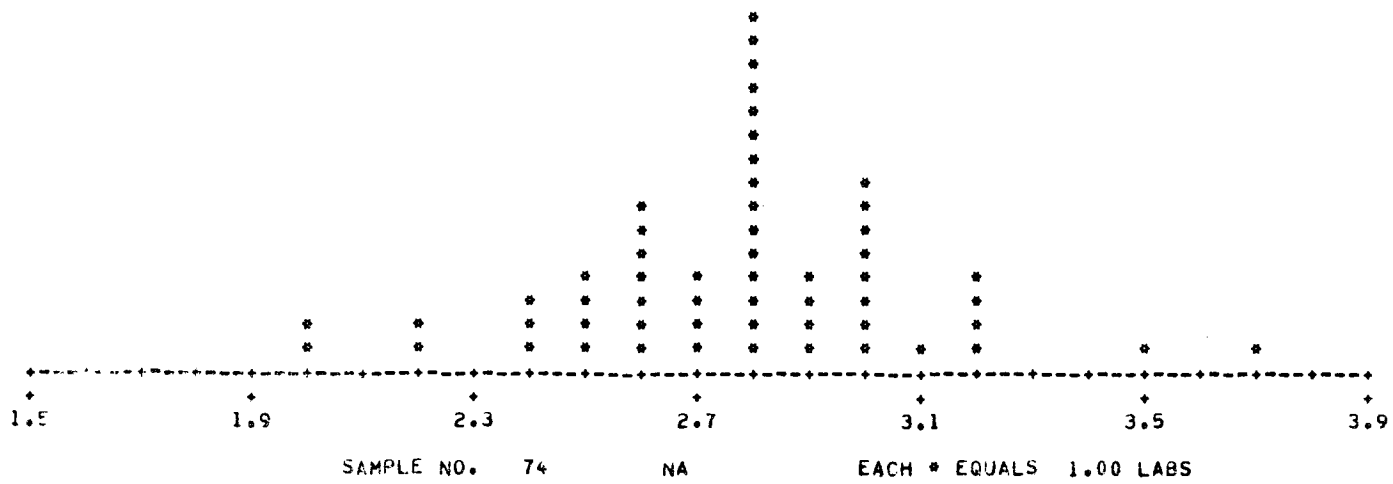
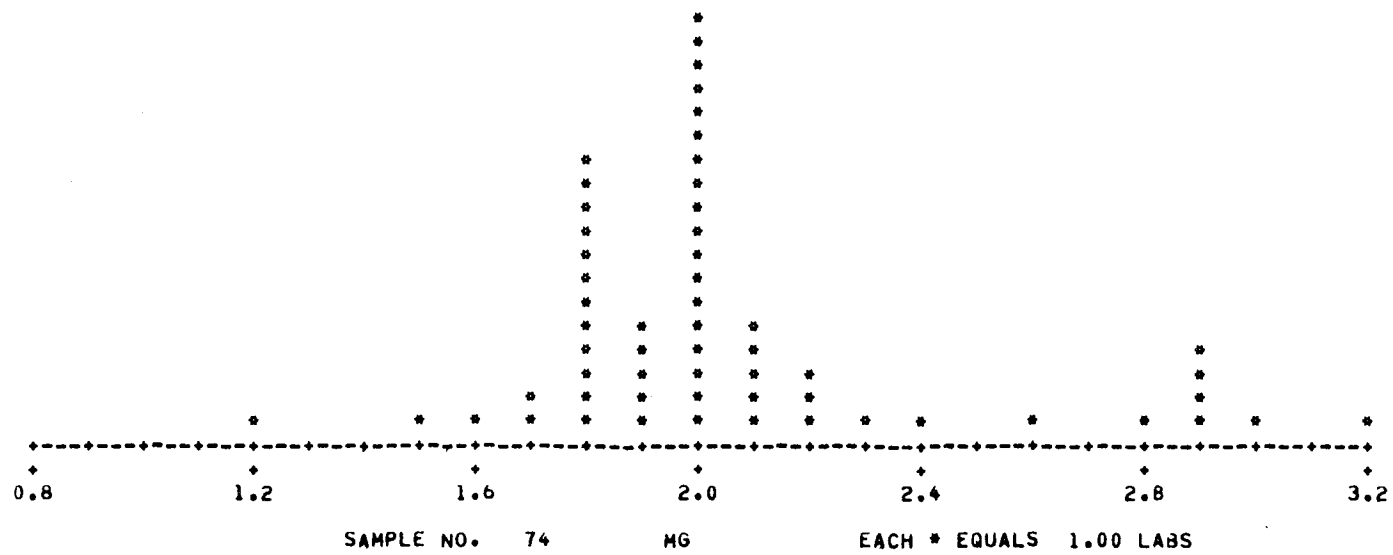
DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR P,TOTAL
11-80	1	4.9	47.5	PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
12-80	4	3.1	6.7	OTHER
11-80	6	5.0	50.5	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	7	3.3	0.7	PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
12-80	8	3.3	0.7	PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
11-80	12			NOT DETERMINED
12-80	13	2.3	30.8	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
12-80	14	3.2	3.7	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
11-80	16	2.9	12.7	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
11-80	18	3.6	8.3	OTHER
12-80	19			NOT DETERMINED
11-80	20	3.7	11.3	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	22	3.4	2.3	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
12-80	23	3.4	2.3	PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
12-80	25			NOT DETERMINED
12-80	27	3.2	3.7	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	28	3.2	3.7	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
11-80	29			NOT DETERMINED
12-80	30	3.5	5.3	PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
12-80	31	3.1	6.7	OTHER
12-80	32	3.1	6.7	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
12-80	33	3.4	2.3	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
12-80	34	3.3	0.7	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
12-80	35			NOT DETERMINED
12-80	37	1.7	48.8	PHOSPHOMOLYBDATE, EPA
12-80	38	4.6	38.4	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
11-80	42	3.3	0.7	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
11-80	43	3.4	2.3	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
11-80	44	3.3	0.7	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	45	4.1	23.4	OTHER
12-80	49	3.0	9.7	PHOSPHOMOLYBDATE, EPA
11-80	51	3.2	3.7	PHOSPHOMOLYBDATE, EPA
12-80	52	3.4	2.3	PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1
12-80	53	0.1	96.7	PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1
12-80	56	3.2	3.7	OTHER
12-80	57	3.3	0.7	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
12-80	58	3.1	6.7	DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED
12-80	60	3.2	3.7	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA
11-80	62	3.2	3.7	PHOSPHOMOLYBDATE, EPA
11-80	63	2.7	18.7	PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA

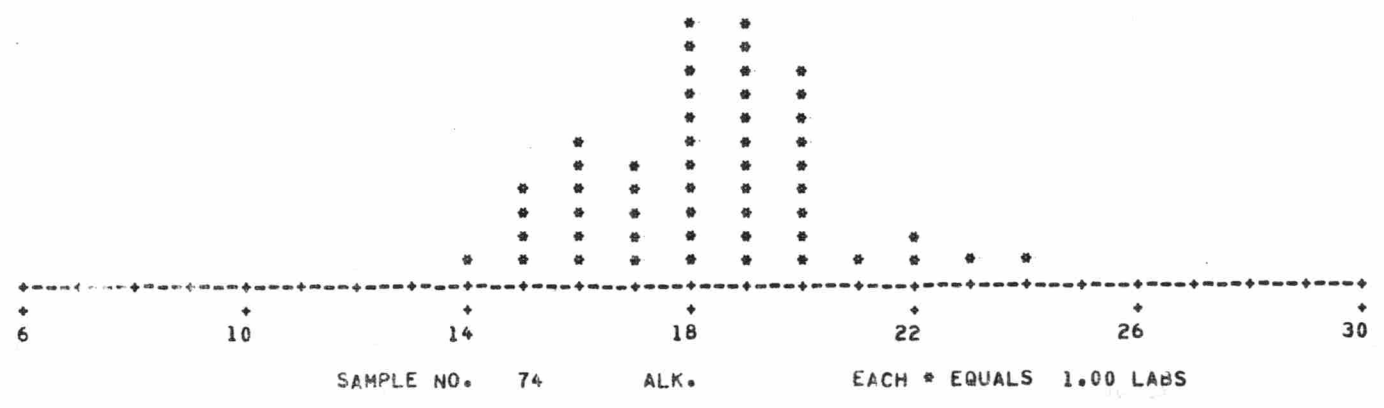
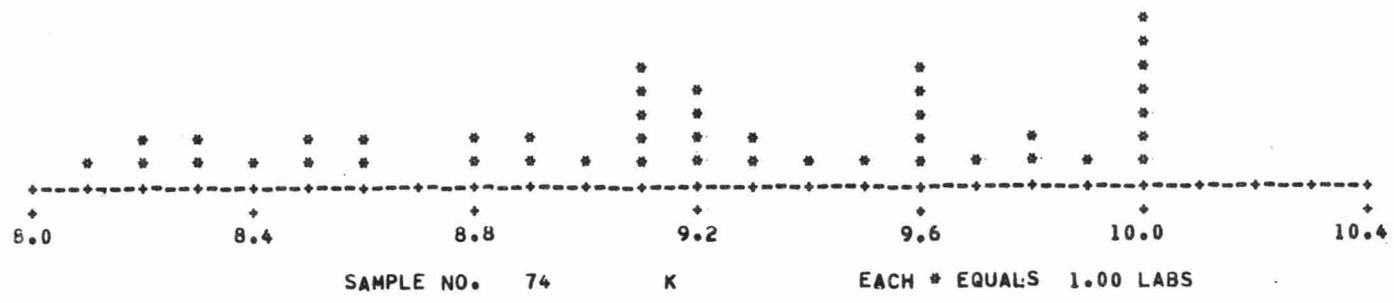
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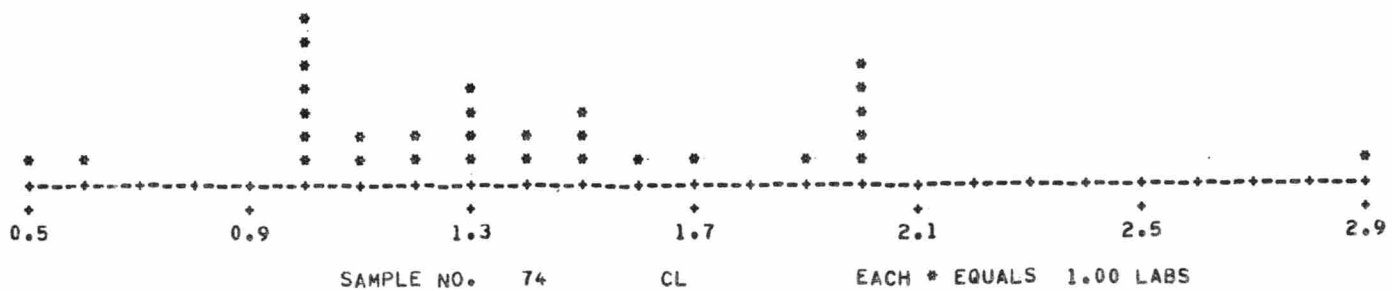
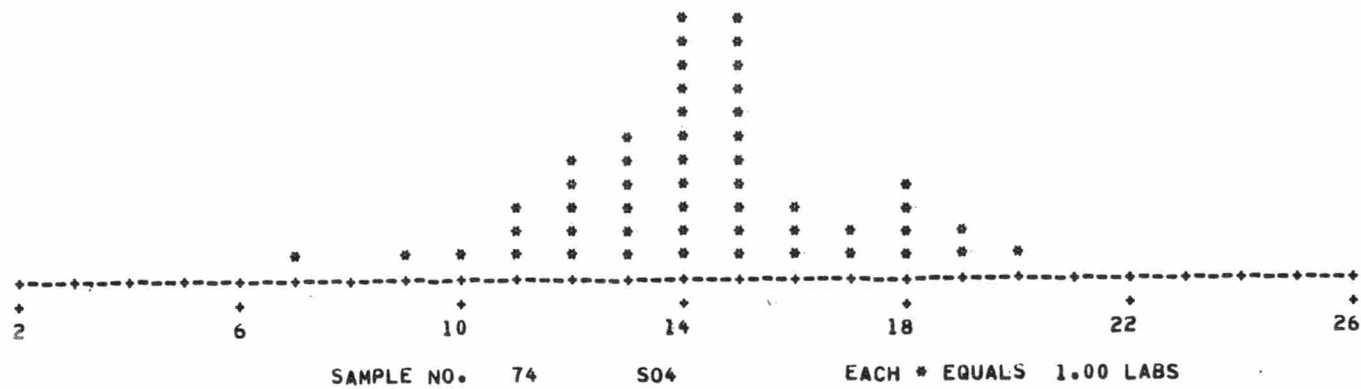
DATE MO-YR	CODE	REPORTED VALUE	PCT.DEV. FROM MEAN	METHODS FOR P,TOTAL
12-80	69	3.3	0.7	OTHER
12-80	70	3.0	9.7	PHOSPHOMOLYBDATE, EPA
11-80	72	3.2	3.7	TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE
12-80	73	3.1	6.7	ASCORBIC ACID REDUCTION, ASTM METHOD A, D515
11-80	74	3.4	2.3	OTHER

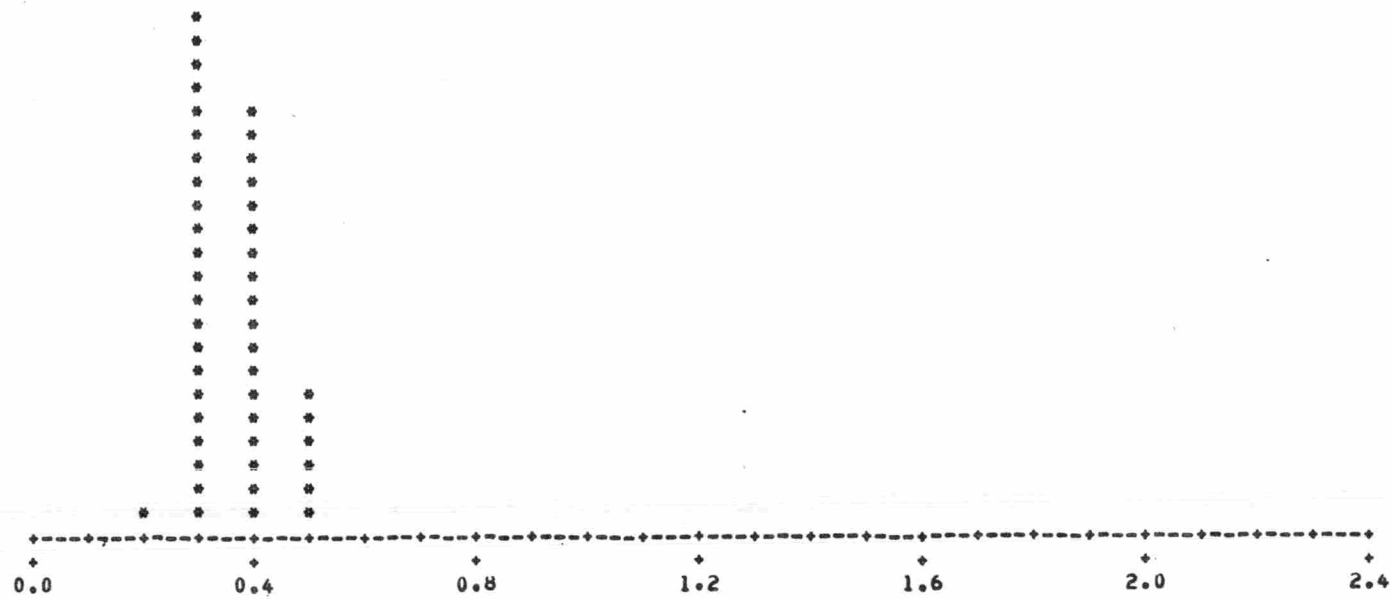
TOTAL RANGE	0.1100 -	5.0000			SAMPLE 4
MEAN	3.3231	AVERAGE DEVIATION	0.3385		
STANDARD DEVIATION	0.5770	95 PCT.CONF.INTVL OF MEAN	3.3231 +OR-	0.1867	P,TOTAL

DETERMINATION	NO. LABS REPORTING	PCT. OF VALUES REJECTED	PCT. OF UNREJECTED VALUES WITHIN		
			95 PCT. CI	X +OR- STD	X +OR- 2STD
ORG-N	31	3	43	73	93
NO2-N	36	8	27	82	91
NH3-N	39	3	45	74	89
NO3-N	42	12	43	76	92
PO4-P	40	8	27	78	95
P, TOTAL	40	3	56	82	90





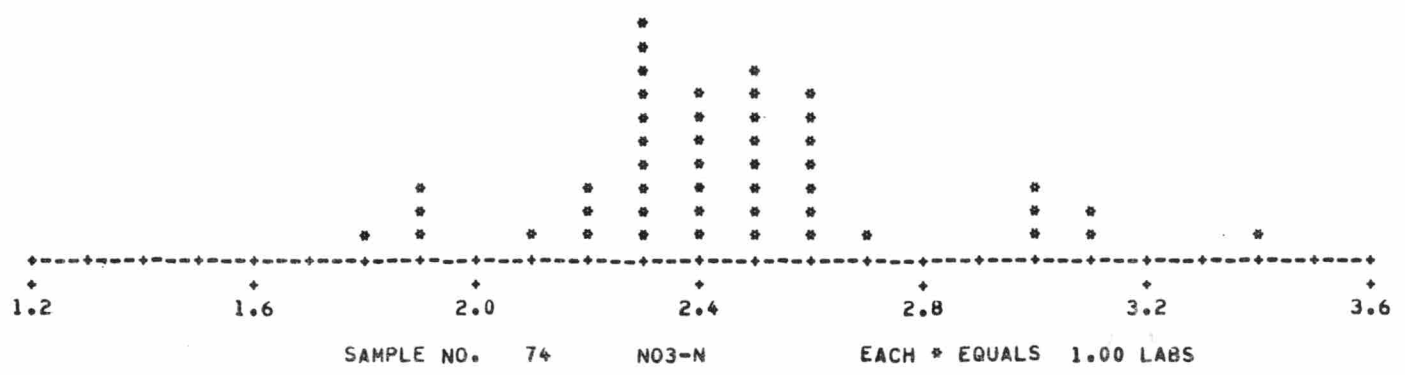
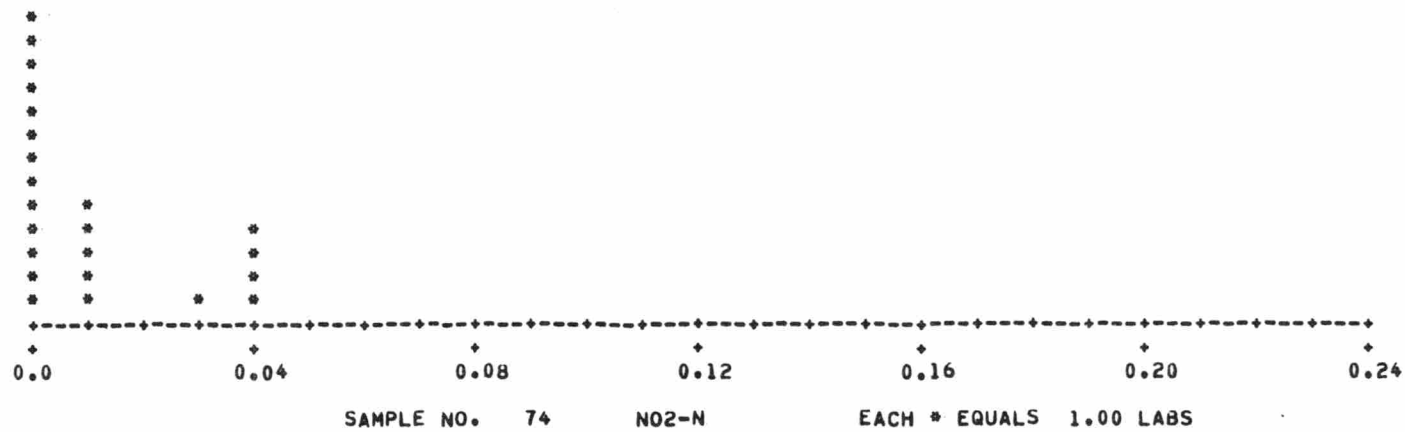


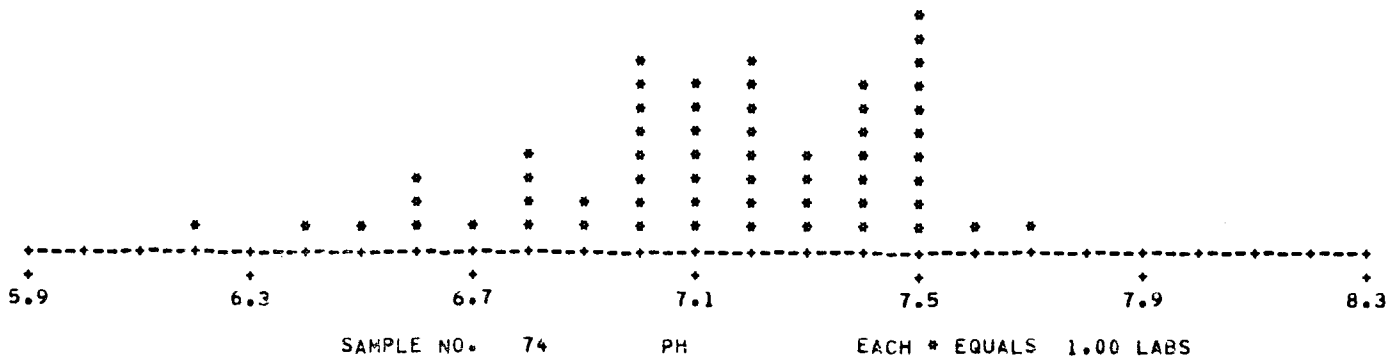
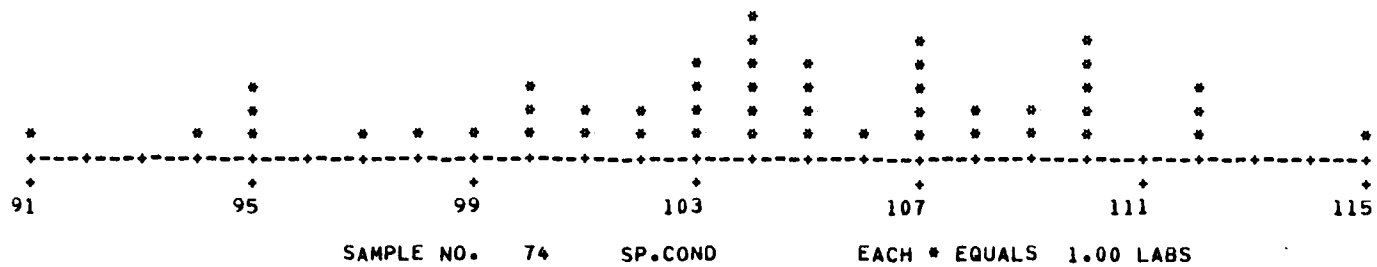


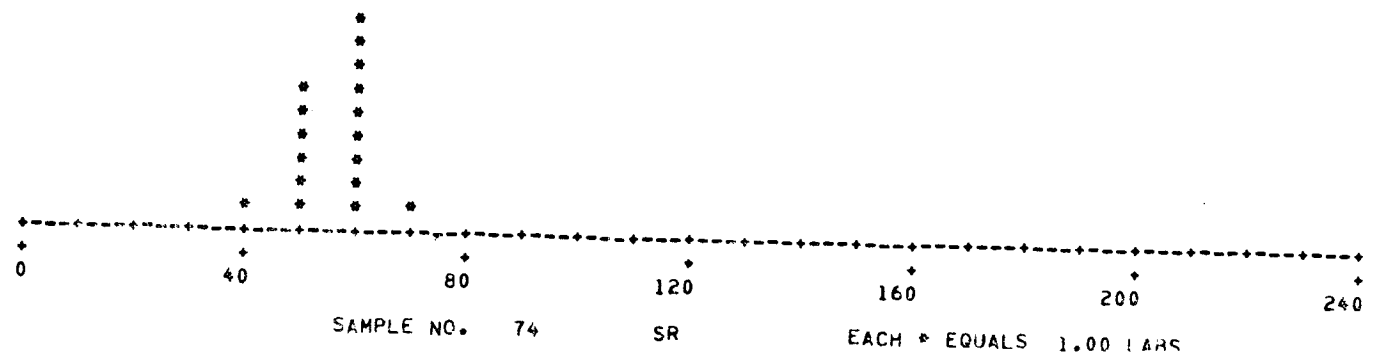
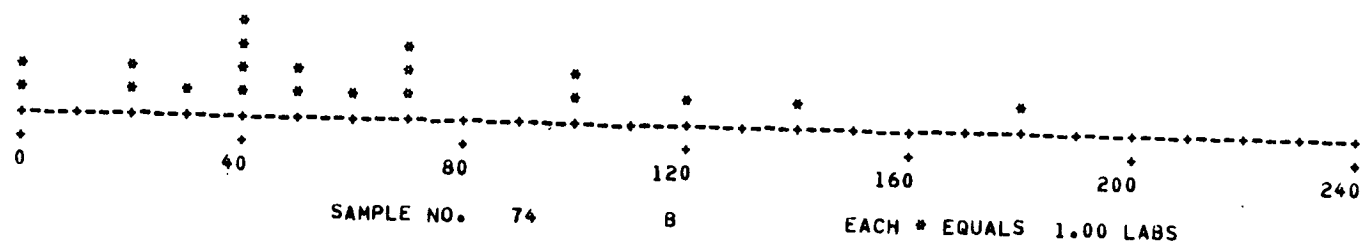
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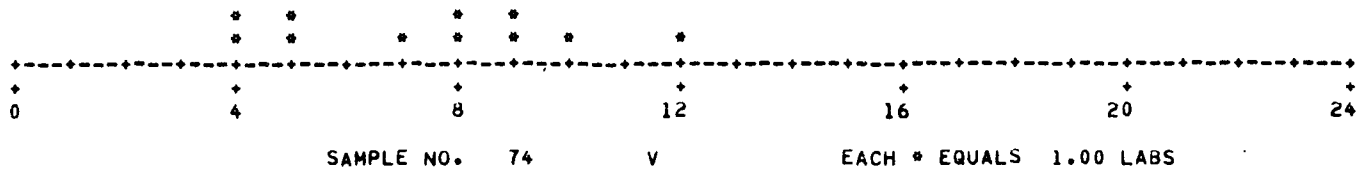
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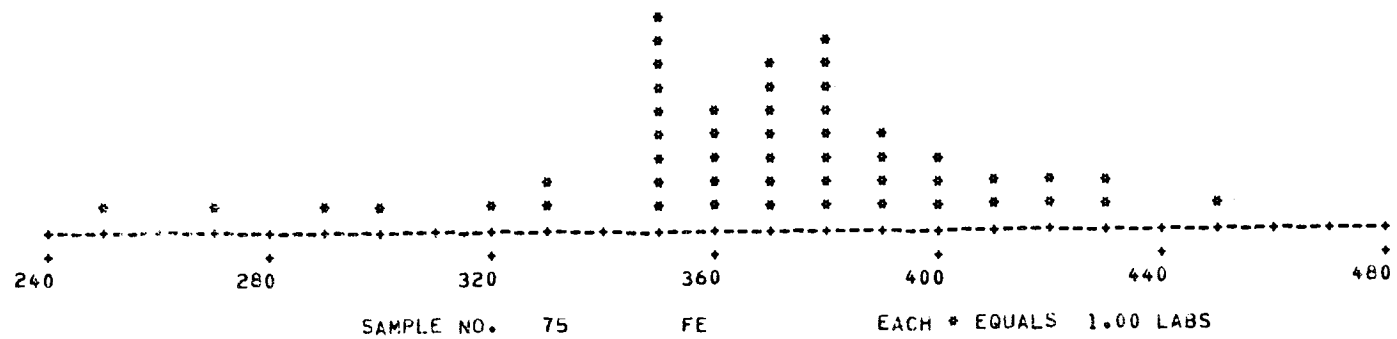
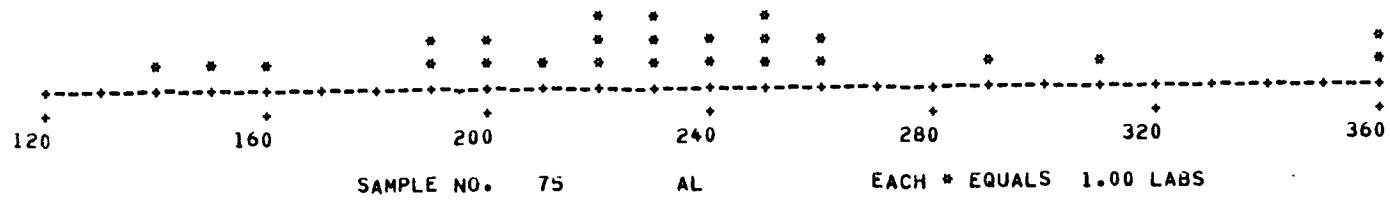
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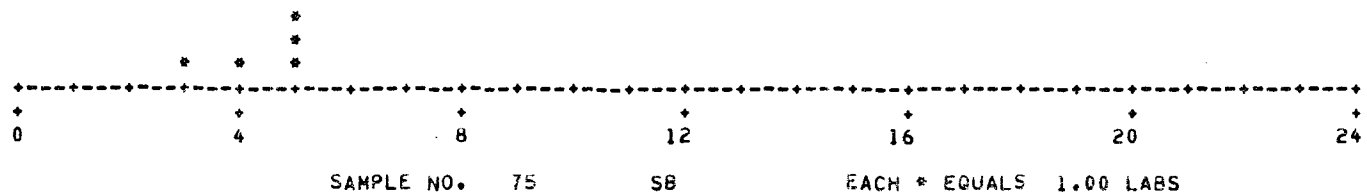
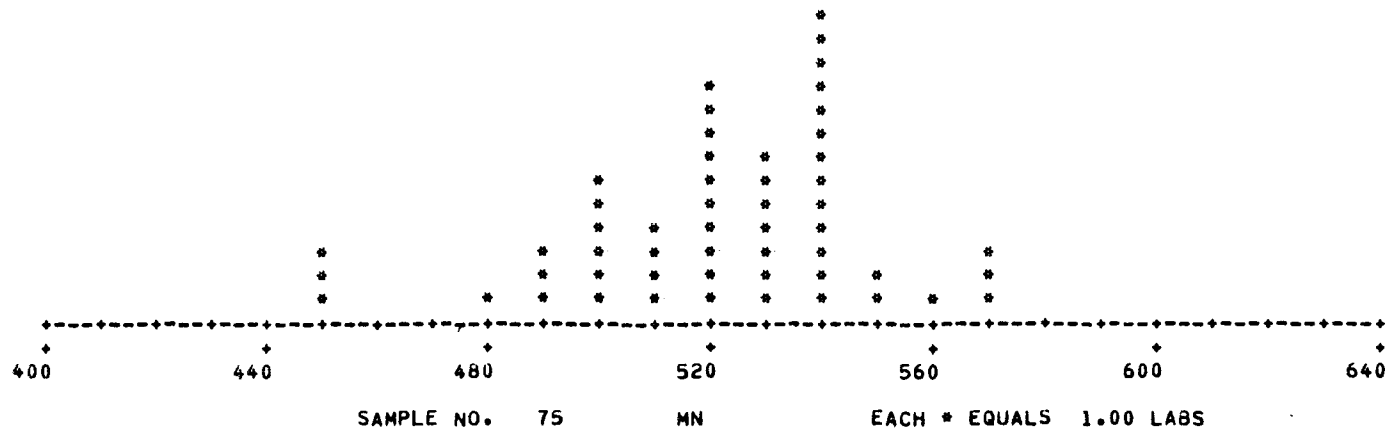


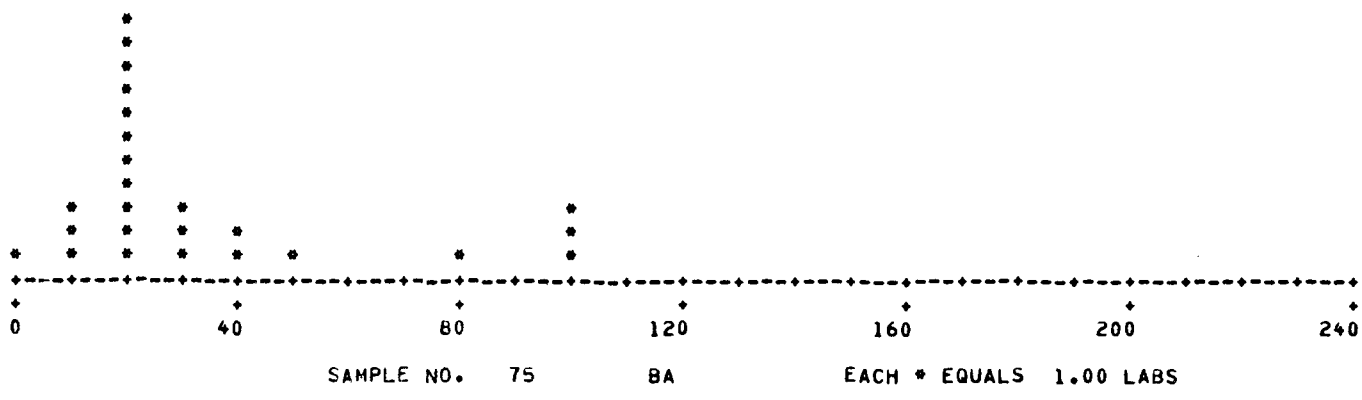
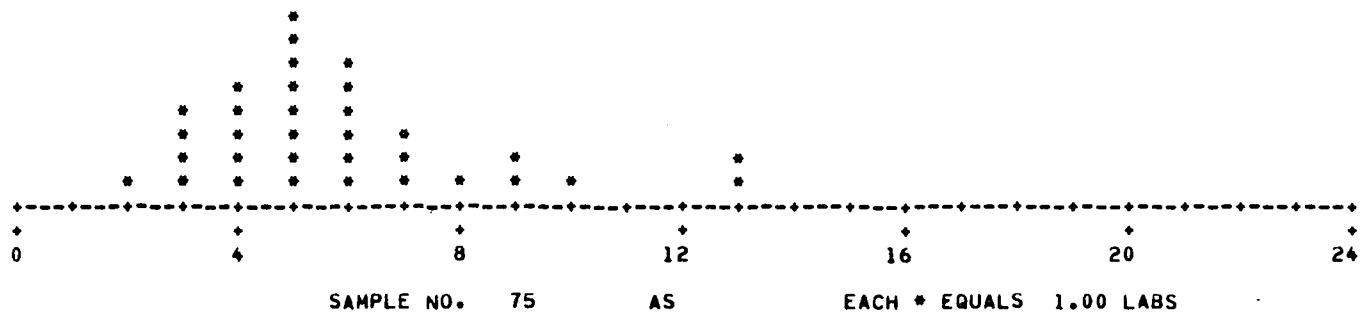


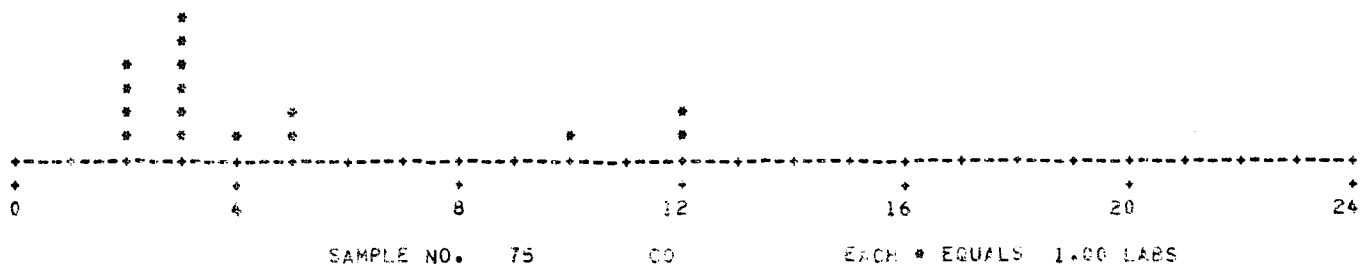
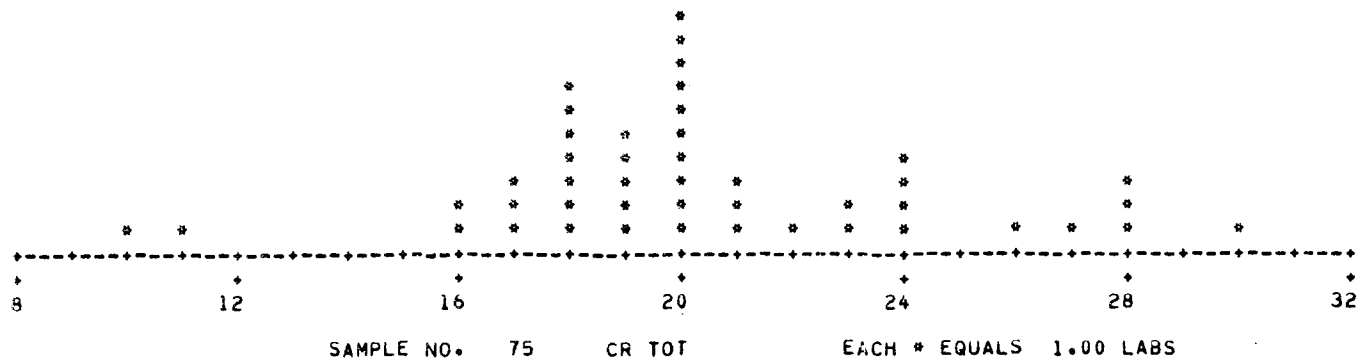


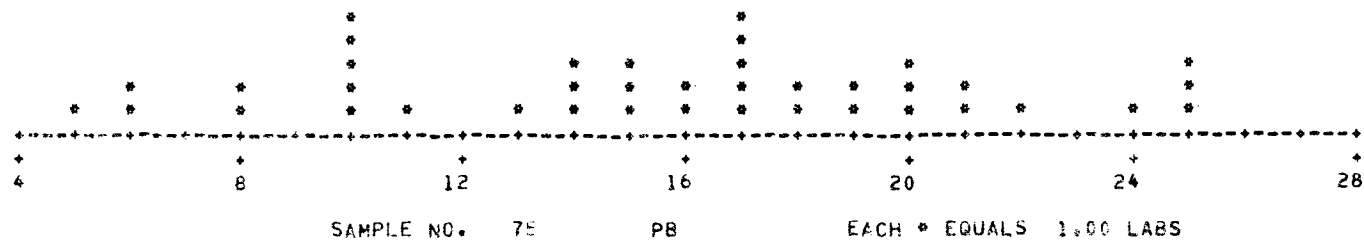
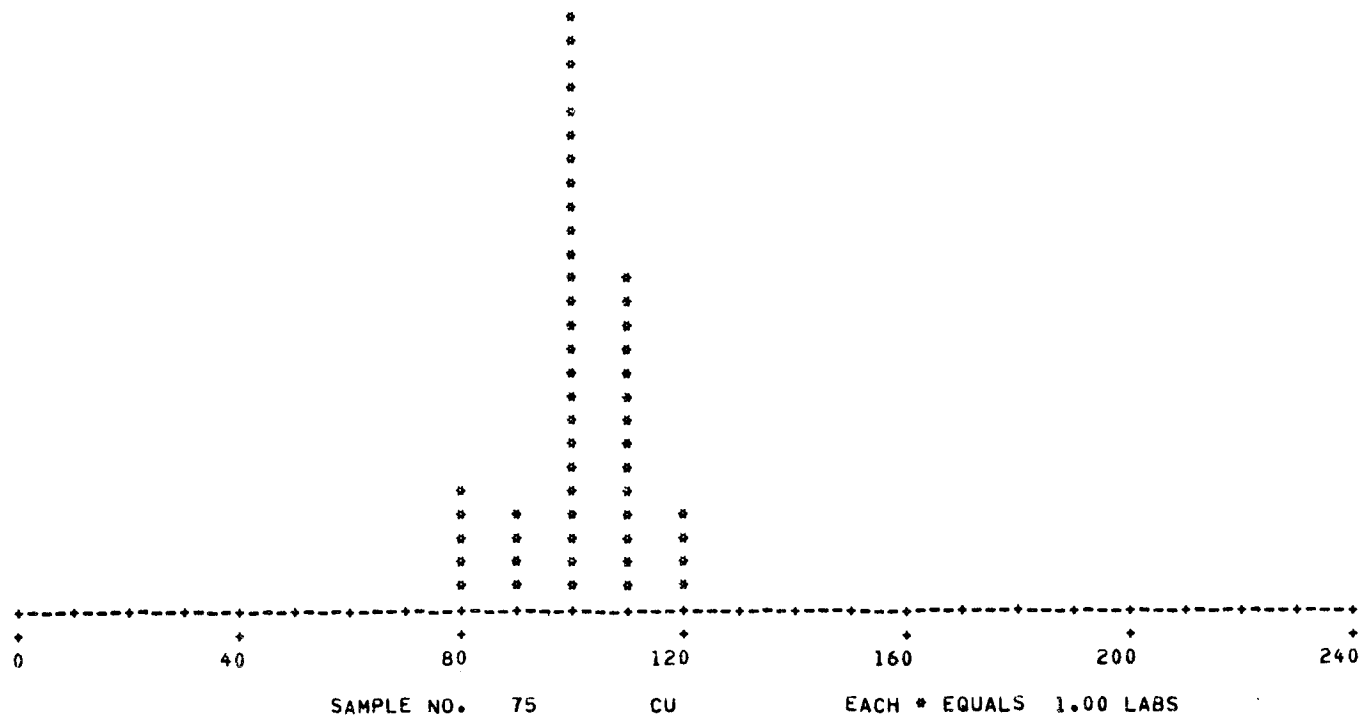


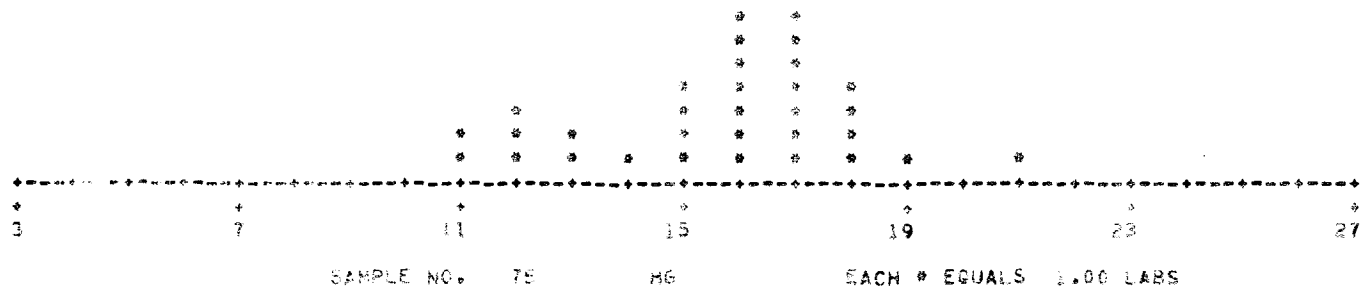
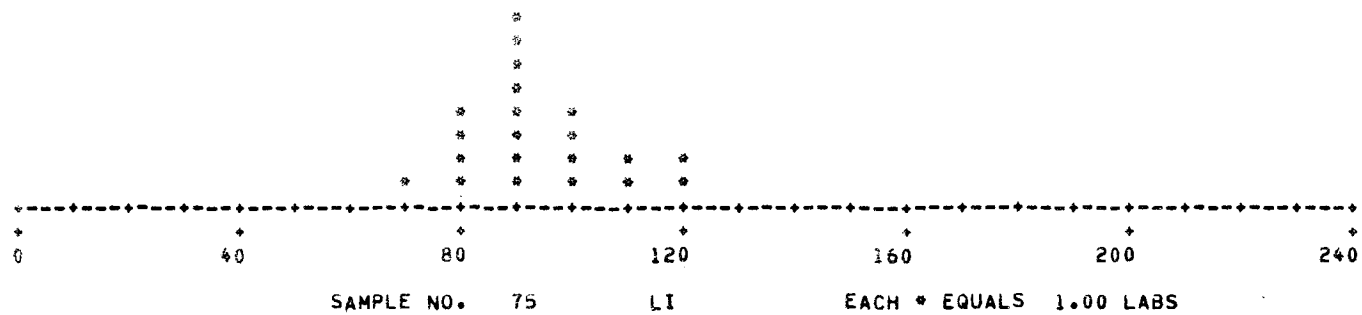


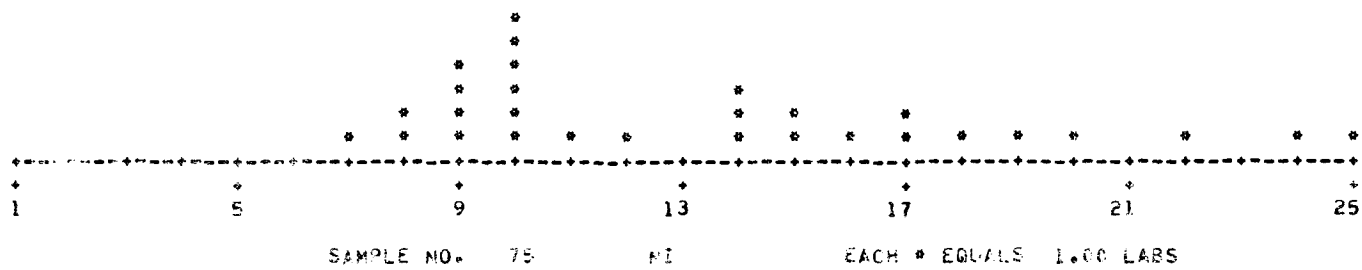
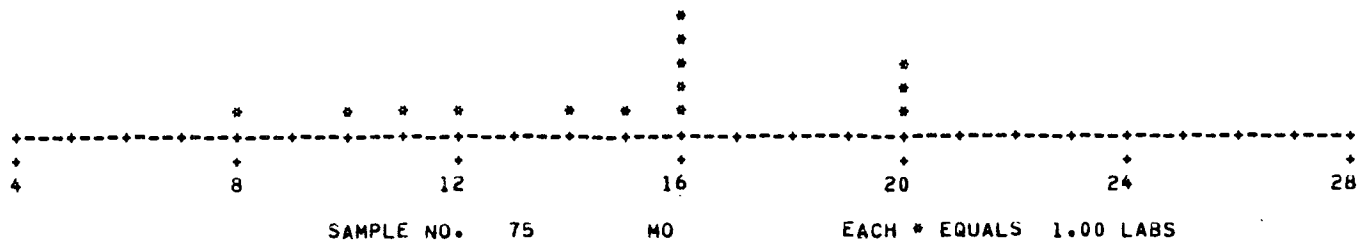


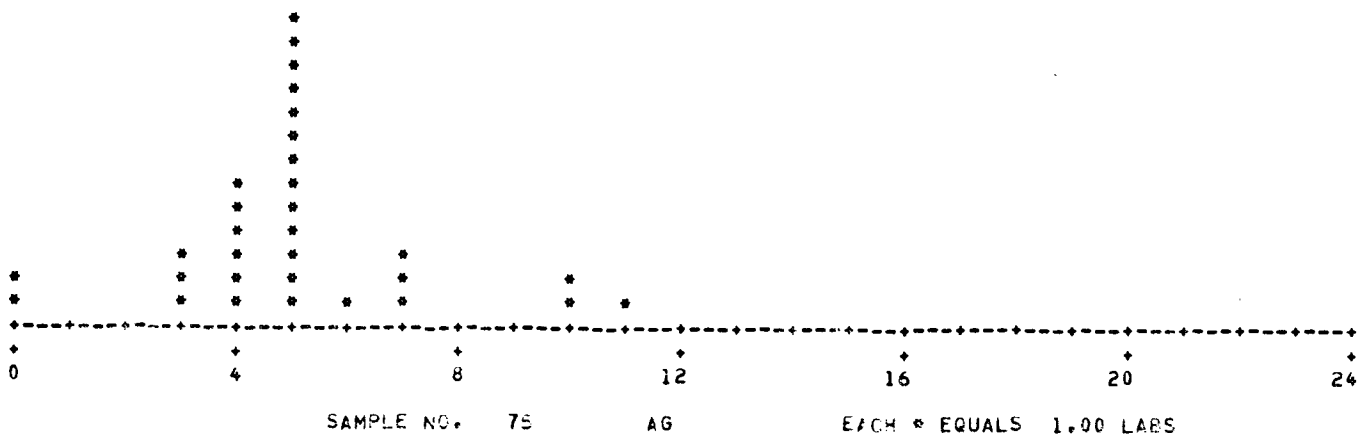
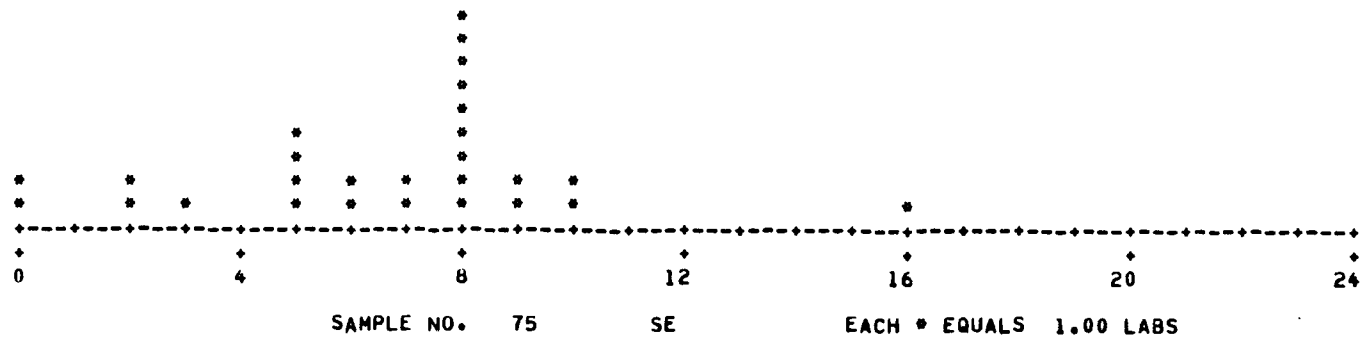


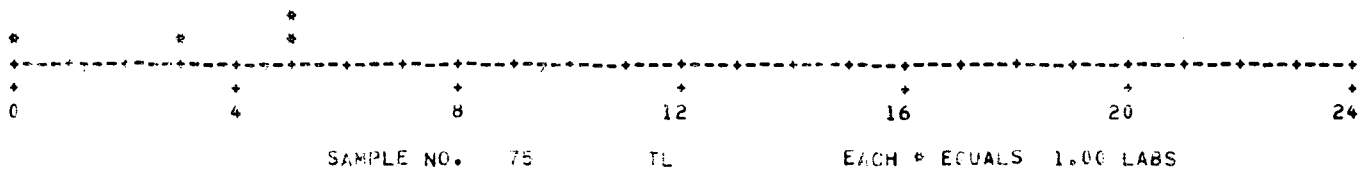
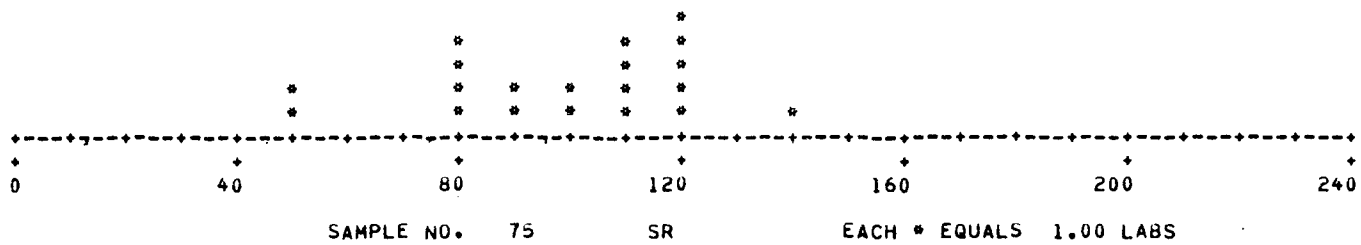


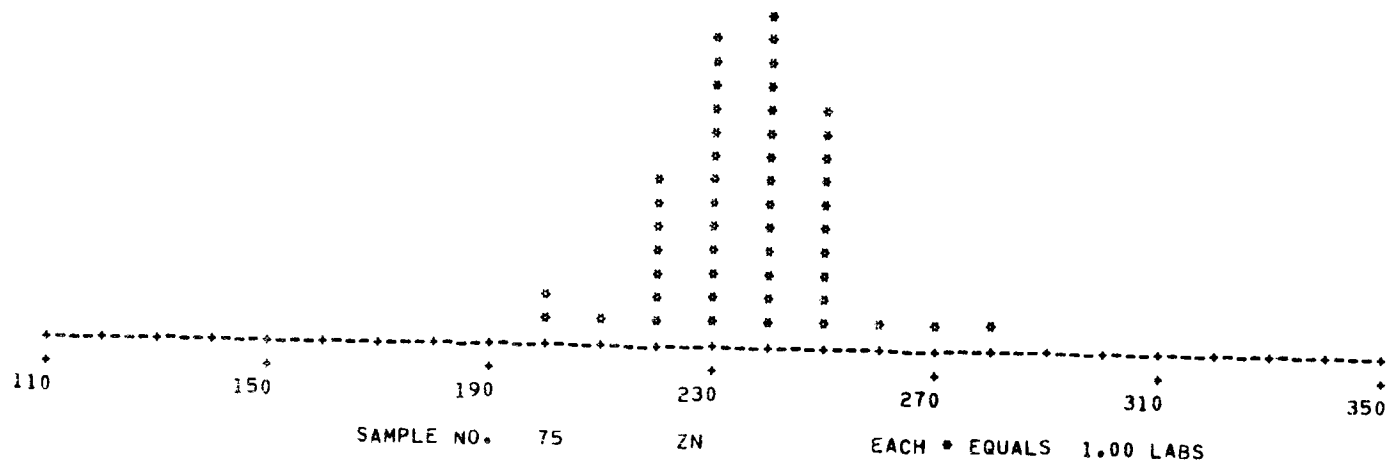


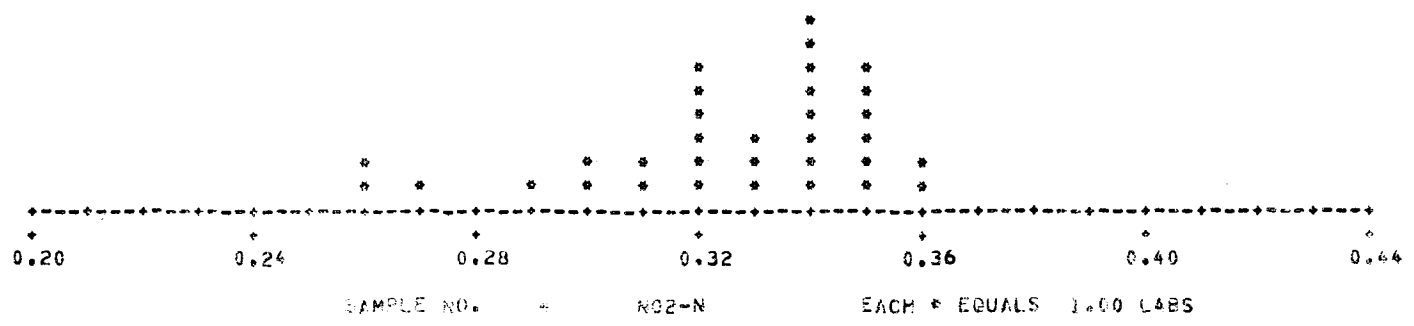
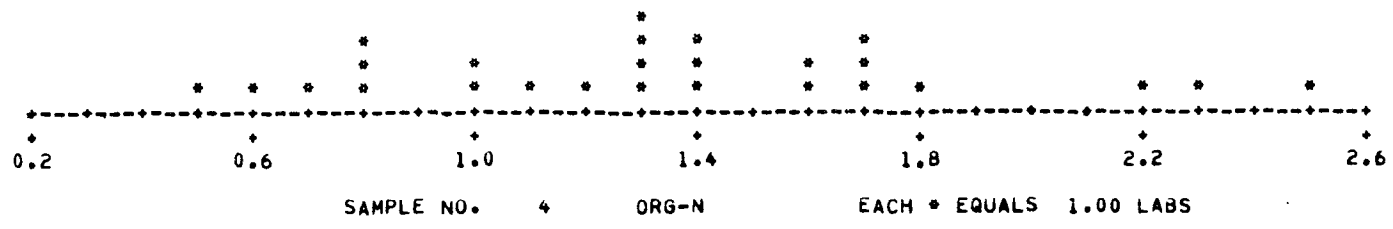


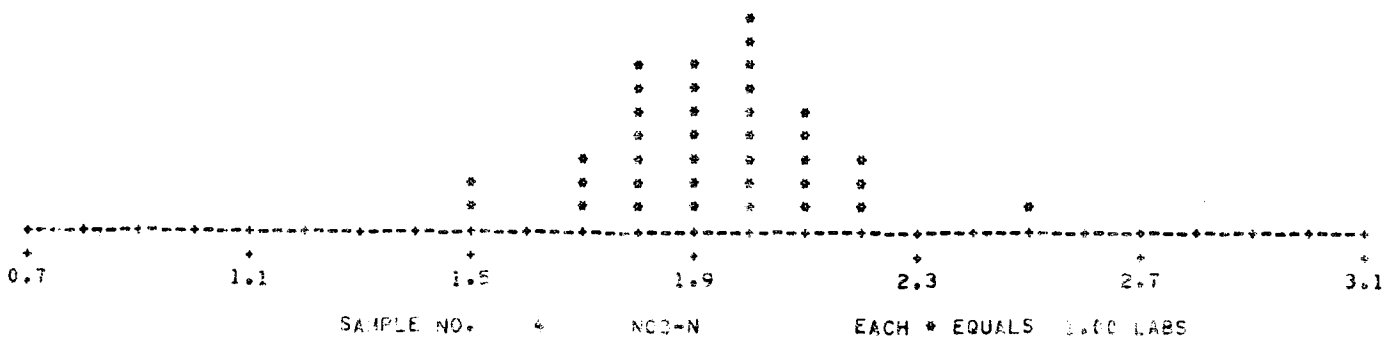
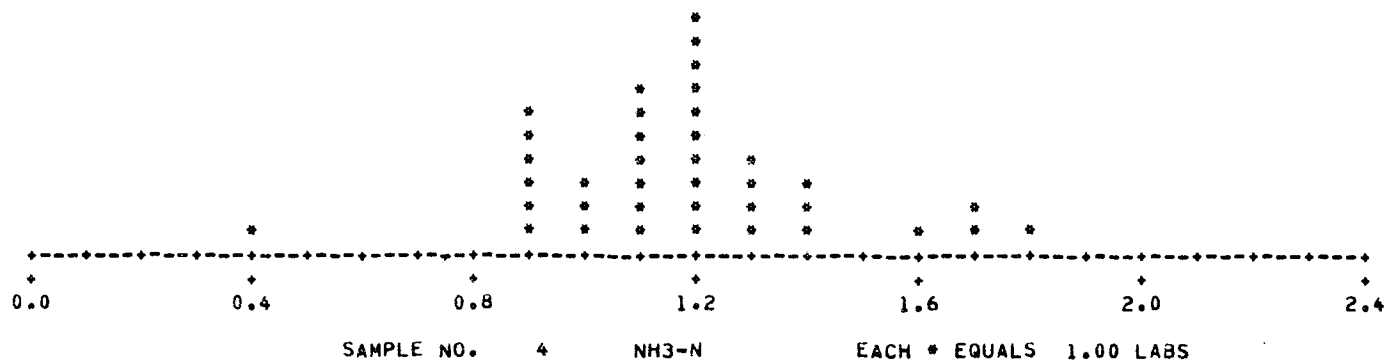


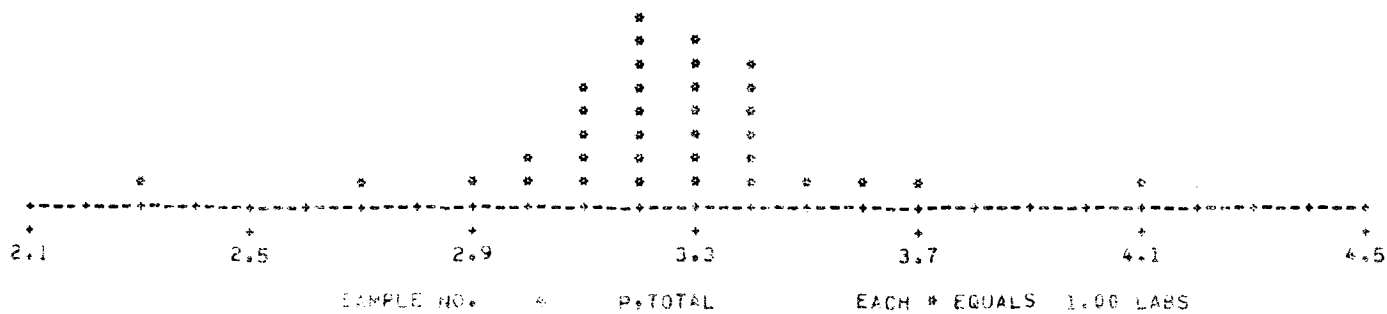
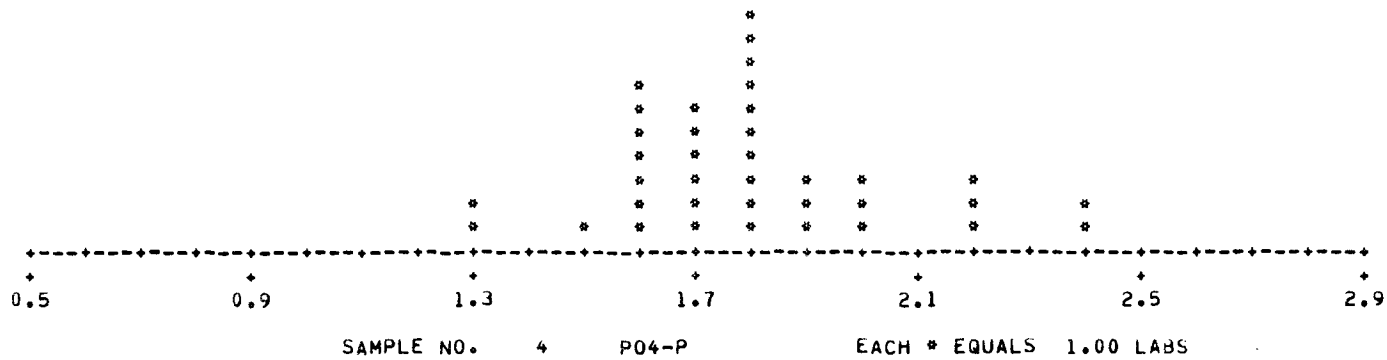












STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, S102

METHOD	MEAN	ST.DEV	N
OVER-ALL	6.3054	1.2398	37
MOLYBDATE BLUE, I-1700, USGS TWRI BK5 CH A1	5.9625	1.4152	8
MOLYBDATE BLUE, AUTO, I-2700, USGS TWRI BK5 CH A1	6.4250	1.8007	4
MOLYBDSILICATE, APHA STD METH, 14ED	6.5556	1.4959	9
TECHNICON AUTOANALYZER, MOLYBDSILICATE BLUE	6.6200	0.6341	5
EMISSION-PLASMA	5.9250	1.0620	8

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, CA

METHOD	MEAN	ST.DEV	N
OVER-ALL	7.5374	0.5668	56
ATOMIC ABS-DIRECT, I-1136, USGS TWRI BK5 CH A1	7.6083	0.4502	12
EDTA TITRIMETRIC, APHA STD METH, 14ED	7.8400	0.6096	10
ATOMIC ABS-DIRECT	7.4954	0.5481	22
EMISSION-PLASMA ICP	7.3222	0.5239	9

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, MG

METHOD	MEAN	ST.DEV	N
OVER-ALL	2.0655	0.3887	58
ATOMIC ABS-DIRECT, I-1447, USGS TWRI BK5 CH A1	2.0077	0.1038	13
ATOMIC ABS-DIRECT	1.9720	0.3985	25
EMISSION-PLASMA ICP	1.9700	0.1252	10
CALCULATION FROM CA PLUS MG	2.4714	0.6075	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, NA

METHOD	MEAN	ST.DEV	N
OVER-ALL	2.7732	0.3165	56
ATOMIC ABS-DIRECT, I-1735, USGS TWRI BK5 CH A1	2.8455	0.1440	11
ATOMIC ABS-DIRECT	2.7240	0.2962	25
EMISSION-FLAME	2.9125	0.3441	8
EMISSION-PLASMA ICP	2.6600	0.4551	10

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, K

METHOD	MEAN	ST.DEV	N
OVER-ALL	9.2518	1.2559	54
ATOMIC ABS-DIRECT, I-1630, USGS TWRI BK5 CH A1	9.8091	1.0085	11
ATOMIC ABS-DIRECT	8.7800	1.2797	25
EMISSION-FLAME	9.5889	1.4067	9
EMISSION-PLASMA ICP	9.5429	1.0892	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, ALK.

METHOD	MEAN	ST.DEV	N
OVER-ALL	18.3461	2.0947	52
ELECTROMETRIC TITRATION, I-1030, USGS TWRI BK5 CH A1	18.2500	1.2817	8
ELECTROMETRIC TITRATION, AUTO, I-2030, USGS TWRI BK 5 CH A1	19.7500	1.7078	4
POTENTIOMETRIC, APHA STD METH, 14ED	18.5000	2.3248	22
INDICATOR, APHA,STD METH, 14ED	18.2500	2.5495	8
AUTOMATED ELECTROMETRIC TITRATION	16.6667	2.0817	3
TECHNICON AUTOANALYZER,METHYL ORANGE	17.6667	1.5275	3
OTHER	18.2500	2.0616	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, S04

METHOD	MEAN	ST.DEV	N
OVER-ALL	14.2765	2.5640	51
THORIN TITRIMETRIC, I-1820, USGS TWRI BK5 CH A1	15.0000	0.0	3
COMPLEXOMETRIC METHYLTHYMOL BLUE,AUTO, I-2822, USGS TWRI BKS	13.6667	1.5275	3
GRAVIMETRIC, APHA STD METH, 14ED	11.5250	3.3718	4
TURBIDIMETRIC	14.6667	2.4077	24
TECHNICON AUTOANALYZER, METHYL THYMOL BLUE	14.7333	2.6851	15

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, CL

METHOD	MEAN	ST.DEV	N
OVER-ALL	1.7311	1.2629	45
FERRIC THIOCYANATE,AUTO, I-2187, USGS TWRI BK5 CH A1	1.7200	0.8319	5
ARGENTOMETRIC, APHA STD METH, 14ED	2.0455	1.9018	11
MERCURIC NITRATE, APHA STD METH, 14ED	2.1900	1.2188	10
TECHNICON AUTOANALYZER, MERCURIC THIOCYANATE	1.4000	0.2098	11
SILVER NITRATE, ASTM METHOD B, D512	0.5333	0.5033	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, F

METHOD	MEAN	ST.DEV	N
OVER-ALL	0.3617	0.0739	47
ZIRCONIUM-ERIOCHROME R, I-1325, USGS TWRI BK5 CH A1	0.4333	0.1155	3
ION-SELECTIVE ELECTRODE, I-1327, USGS TWRI BK5 CH A1	0.3400	0.0548	5
MANUAL ION-SELECTIVE ELECTRODE	0.3654	0.0689	26
TECHNICON AUTOANALYZER, ALIZIRIN	0.3500	0.0577	4
OTHER	0.3250	0.0957	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, BR

METHOD	MEAN	ST.DEV	N
OVER-ALL	0.4250	0.3951	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, N02-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	0.0104	0.0155	23
DIAZOTIZATION,AUTO, I-2540, USGS TWRI BK5 CH A1	0.0225	0.0206	4
DIAZOTIZATION, APHA STD METH, 14ED	0.0200	0.0231	4
TECHNICON AUTOANALYZER, DIAZOTIZATION	0.0058	0.0090	12

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, N03-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	2.4574	0.3222	47
BRUCINE, I-1530, USGS TWRI, BK5 CH A1	2.9000	0.5568	3
CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BK5	2.2429	0.2699	7
BRUCINE, APHA STD METH, 14ED	2.6500	0.4655	4
TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION	2.4333	0.0577	3
TECHNICON AUTOANALYZER, CADMIUM REDUCTION	2.4368	0.3059	19
MANUAL, CADMIUM REDUCTION	2.4400	0.1342	5
OTHER	2.4000	0.2000	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, P,TOTAL

METHOD	MEAN	ST.DEV	N
OVER-ALL	0.8712	0.0394	34
PHOSPHOMOLYBDATE, I-1600, USGS TWRI BKS CH A1	0.8733	0.0289	3
PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BKS CH A1	0.8733	0.0059	3
PHOSPHOMOLYBDATE, EPA	0.8580	0.0683	5
PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA	0.8822	0.0295	9
DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED	0.8717	0.0223	6
TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE	0.8667	0.0833	3
OTHER	0.8640	0.0365	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, DSRD180

METHOD	MEAN	ST.DEV	N
OVER-ALL	72.8000	9.8894	45
RESIDUE-ON-EVAPORATION, I-1750, USGS TWRI BKS CH A1	70.8125	7.4942	16
RESIDUE-FILTERABLE, APHA STD METH, 14ED	73.7917	11.7510	24
RESIDUE-ON-EVAPORATION, ASTM METHOD B, D1888	70.3333	4.9329	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, SP.COND

METHOD	MEAN	ST.DEV	N
OVER-ALL	103.8182	7.6257	55
WHEATSTONE BRIDGE, I-1780, USGS TWRI BKS CH A1	103.5000	1.7321	4
DIRECT READING INSTRUMENT, I-1780, USGS TWRI BKS A1	101.8333	6.1780	6
WHEATSTONE BRIDGE	103.5555	8.4801	18
DIRECT READING INSTRUMENT	103.8333	6.4247	24
OTHER	109.6667	17.8979	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, PH

METHOD	MEAN	ST.DEV	N
OVER-ALL	7.1339	0.3238	59
ELECTROMETRIC, I-1586, USGS TWRI BKS CH A1	7.1500	0.3323	14
ELECTROMETRIC	7.1355	0.3251	45

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, B

METHOD	MEAN	ST.DEV	N
OVER-ALL	62.0000	46.4078	20
DIANTHRIMIDE, I-1110, USGS TWRI BK5 CH A1	57.5000	33.0404	4
CURCUMIN, APHA STD METH, 14ED	92.5000	67.0199	4
EMISSION-PLASMA ICP	45.0000	13.7840	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, SR

METHOD	MEAN	ST.DEV	N
OVER-ALL	55.8823	7.1229	17
ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	57.1429	9.5119	7
ATOMIC ABS-DIRECT	50.0000	0.0	3
EMISSION PLASMA ICP	57.1429	4.8795	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 74, V

METHOD	MEAN	ST.DEV	N
OVER-ALL	7.3636	2.6181	11
EMISSION-PLASMA ICP	7.4000	2.3022	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, AL

METHOD	MEAN	ST.DEV	N
OVER-ALL	248.1481	72.3790	27
ATOMIC ABS-DIRECT, I-1051, USGS TWRI BK5 CH A1	265.0000	112.3981	4
ATOMIC ABS-DIRECT	261.0000	63.6745	10
ATOMIC ABS-FLAMELESS	250.0000	100.5982	6
EMISSION PLASMA ICP	223.3333	16.3302	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, FE

METHOD	MEAN	ST.DEV	N
OVER-ALL	368.0000	38.3858	50
ATOMIC ABS-DIRECT, I-1381, USGS TWRI BK5 CH A1	363.3333	58.8785	6
BIPYRIDINE,AUTO, I-2379, USGS TWRI BK5 CH A1	363.3333	11.5475	3
ATOMIC ABS-DIRECT, EPA	372.7271	26.1132	11
ATOMIC ABS-DIRECT	366.6665	44.8282	15
ATOMIC ABS-FLAMELESS	347.5000	61.3053	4
EMISSION-PLASMA ICP	376.3635	23.3559	11

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, MN

METHOD	MEAN	ST.DEV	N
OVER-ALL	521.5093	27.2027	53
ATOMIC ABS-DIRECT, I-1454, USGS TWRI BK5 CH A1	525.5554	35.0410	9
ATOMIC ABS-DIRECT, EPA	517.6921	28.3314	13
ATOMIC ABS-DIRECT	523.1250	19.9064	16
ATOMIC ABS-FLAMELESS	520.0000	43.5890	3
EMISSION-PLASMA ICP	528.0000	19.3218	10

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, SB

METHOD	MEAN	ST.DEV	N
OVER-ALL	4.4000	0.8944	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, AS

METHOD	MEAN	ST.DEV	N
OVER-ALL	5.8485	2.6115	33
ATOMIC ABS-HYDRIDE,AUTO, I-2062, USGS TWRI BK5 CH A1	3.7500	0.9574	4
SILVER DIETHYLDITHIOCARBAMATE, APHA STD METH, 14ED	6.6667	3.0551	3
ATOMIC ABS-HYDRIDE(SODIUM BOROHYDRIDE)	6.0000	1.7889	6
ATOMIC ABS-FLAMELESS	6.0000	2.4495	16

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, BA

METHOD	MEAN	ST.DEV	N
OVER-ALL	34.0000	29.2973	25
ATOMIC ABS-DIRECT, I-1084, USGS TWRI BK5 CH A1	73.3333	46.1880	3
ATOMIC ABS-DIRECT	44.2857	34.5722	7
ATOMIC ABS-FLAMELESS	22.0000	8.3666	5
EMISSION PLASMA ICP	17.7778	4.4096	9

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, BE

METHOD	MEAN	ST.DEV	N
OVER-ALL	4.2143	2.4236	14
EMISSION-PLASMA ICP	4.0000	0.8165	4
ATOMIC ABS-FLAMELESS	5.0000	1.5492	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, CD

METHOD	MEAN	ST.DEV	N
OVER-ALL	7.8000	1.3073	45
ATOMIC ABS-CHELATION/EXTRACTION, I-1136, USGS TWRI BK5 CH A1	7.1667	0.4083	6
ATOMIC ABS-DIRECT	7.0000	1.0690	8
ATOMIC ABS-FLAMELESS	7.8333	1.4246	18
EMISSION-PLASMA ICP	8.2857	0.7559	7
ATOMIC ABS-DIRECT, EPA	9.4000	0.8945	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, CR TOT

METHOD	MEAN	ST.DEV	N
OVER-ALL	20.4222	4.0759	45
ATOMIC ABS-CHELATION/EXTRACTION, I-1238, USGS TWRI BK5 CH A1	21.6667	4.0415	3
ATOMIC ABS-DIRECT	19.6154	4.7353	13
ATOMIC ABS-FLAMELESS	21.0667	4.0965	15
EMISSION-PLASMA ICP	21.1667	3.5450	6
ATOMIC ABS-DIRECT, EPA	19.4286	4.1173	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, CO

METHOD	MEAN	ST.DEV	N
OVER-ALL	4.6250	3.4809	16
ATOMIC ABS-CHELATION/EXTRACTION, I-1240, USGS TWRI BK5 CH A1	4.2000	4.3818	5
ATOMIC ABS-FLAMELESS	4.5000	2.8107	6
EMISSION-PLASMA ICP	5.2500	4.5735	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, CU

METHOD	MEAN	ST.DEV	N
OVER-ALL	101.5385	10.1720	52
ATOMIC ABS-DIRECT, I-1270, USGS TWRI BK5 CH A1	90.0000	10.0000	3
ATOMIC ABS-DIRECT	102.7778	9.5828	18
ATOMIC ABS-FLAMELESS	102.5000	15.8114	8
EMISSION-PLASMA ICP	101.0000	11.0050	10
ATOMIC ABS-DIRECT, EPA	102.2222	4.4097	9

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, PB

METHOD	MEAN	ST.DEV	N
OVER-ALL	16.0952	6.8816	42
ATOMIC ABS-CHELATION/EXTRACTION, I-1400, USGS TWRI BK5 CH A1	14.8000	1.3038	5
ATOMIC ABS-FLAMELESS	13.0588	6.0876	17
EMISSION-PLASMA ICP	20.2000	10.7564	5
ATOMIC ABS-DIRECT	20.4286	6.7542	7
ATOMIC ABS-DIRECT, EPA	17.3333	4.1793	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, LI

METHOD	MEAN	ST.DEV	N
OVER-ALL	93.8095	13.2197	21
ATOMIC ABS-DIRECT, I-1425, USGS TWRI BK5 CH A1	94.0000	16.7332	5
ATOMIC ABS-DIRECT	98.3333	13.2916	6
EMISSION-FLAME	97.5000	15.0000	4
EMISSION PLASMA ICP	88.0000	8.3666	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, HG

METHOD	MEAN	ST.DEV	N
OVER-ALL	15.6563	2.3910	32
ATOMIC ABS-FLAMELESS,AUTO, I-2462, USGS TWRI BK5 CH A1	15.7500	2.0616	4
ATOMIC ABS-FLAMELESS, EPA	15.3889	2.8314	18
ATOMIC ABS-FLAMELESS, APHA STD METH, 14ED	15.5714	1.5119	7

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, MO

METHOD	MEAN	ST.DEV	N
OVER-ALL	16.9375	6.3295	16
EMISSION-PLASMA ICP	12.1667	3.2506	6
ATOMIC ABS-FLAMELESS	17.4000	2.4083	5
ATOMIC ABS-DIRECT	27.0000	6.0828	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, NI

METHOD	MEAN	ST.DEV	N
OVER-ALL	13.4839	5.9097	31
ATOMIC ABS-CHELATION-EXTRACTION, I-1500, USGS TWRI BK5 CH A1	8.7500	1.5000	4
ATOMIC ABS-DIRECT	15.8333	7.5476	6
ATOMIC ABS-FLAMELESS	11.4444	6.5976	9
EMISSION-PLASMA ICP	14.0000	3.8987	6
ATOMIC ABS-DIRECT, EPA	15.8000	4.2071	5

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, SE

METHOD	MEAN	ST.DEV	N
OVER-ALL	6.6296	3.3644	27
ATOMIC ABS-FLAMELESS	6.2222	2.3151	18
OTHER	8.6667	8.0829	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, AG

METHOD	MEAN	ST.DEV	N
OVER-ALL	5.0323	2.3591	31
ATOMIC ABS-CHELATION/EXTRACTION, I-1720, USGS TWRI BK5 A1	4.7500	0.5000	4
ATOMIC ABS-DIRECT	4.8000	2.8636	5
ATOMIC ABS-FLAMELESS	4.4167	0.9003	12
ATOMIC ABS-DIRECT, EPA	6.5000	3.7417	8

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, SR

METHOD	MEAN	ST.DEV	N
OVER-ALL	99.0000	23.8195	20
ATOMIC ABS-DIRECT, I-1800, USGS TWRI BK5 CH A1	110.0000	22.3607	7
ATOMIC ABS-DIRECT	84.0000	35.0714	5
EMISSION PLASMA ICP	101.6667	9.8319	6

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, TL

METHOD	MEAN	ST.DEV	N
OVER-ALL	3.2500	2.3629	4
ATOMIC ABS - FLAMELESS	3.2500	2.3629	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 75, ZN

METHOD	MEAN	ST.DEV	N
OVER-ALL	236.2000	15.2382	50
ATOMIC ABS-DIRECT, I-1900, USGS TWRI BK5 CH A1	233.3333	17.3205	9
ATOMIC ABS-DIRECT	235.7895	15.0259	19
EMISSION-PLASMA ICP	236.6667	10.0000	9
ATOMIC ABS-DIRECT, EPA	238.4615	18.1871	13

STATISTICAL INFORMATION BY METHOD -- SAMPLE 4, ORG-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	1.4910	0.7919	30
SALICYLATE,AUTO, I-2552, ORG N BY DIFF, USGS TWRI BKS CH A1	1.4137	0.7631	8
INDOPHENOL,AUTO, I-2551, ORG N BY DIFF, USGS TWRI BKS CH A1	1.1000	0.4359	3
NESSLERIZATION, I-1550, ORG N BY DIFF, USGS TWRI BKS CH A1	1.0667	0.5508	3
NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 14ED	2.1000	1.1358	3
NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC, EPA	1.6667	1.7156	3
PHENATE, AUTO, EPA	1.6000	0.2646	3
TOTAL KJELDAHL, ORG N BY DIFF, EPA	1.5050	0.7376	4
OTHER	1.6000	0.5292	3

STATISTICAL INFORMATION BY METHOD -- SAMPLE 4, NO2-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	0.3258	0.0266	33
DIAZOTIZATION,AUTO, I-2540, USGS TWRI BKS CH A1	0.3120	0.0432	5
DIAZOTIZATION, APHA STD METH, 14ED	0.3417	0.0133	6
TECHNICON AUTOANALYZER, DIAZOTIZATION	0.3241	0.0253	17

STATISTICAL INFORMATION BY METHOD -- SAMPLE 4, NH3-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	1.1776	0.2590	38
INDOPHENOL,AUTO, I-2523, USGS TWRI BKS CH A1	1.1200	0.2168	5
DISTILLATION-NESSLERIZATION, TITRIMETRIC OR POTENTIOMETRIC,	1.3333	0.4041	3
ION-SELECTIVE ELECTRODE, EPA	1.0071	0.2918	7
PHENATE, AUTO, EPA	1.2267	0.1944	15
DISTILLATION-NESSLERIZATION OR TITRIMETRIC, APHA STD METH, 1	1.2000	0.4359	3
OTHER	1.1250	0.0957	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 4, NO3-N

METHOD	MEAN	ST.DEV	N
OVER-ALL	1.9351	0.1961	37
CADMIUM REDUCTION-DIAZOTIZATION,AUTO, I-2545, USGS TWRI BKS	1.8714	0.0756	7
BRUCINE, APHA STD METH, 14ED	2.0200	0.2950	5
TECHNICON AUTOANALYZER, HYDRAZINE REDUCTION	2.0333	0.1528	3
TECHNICON AUTOANALYZER, CADMIUM REDUCTION	1.8857	0.2316	14
MANUAL, CADMIUM REDUCTION	1.9667	0.2082	3
OTHER	2.0000	0.0816	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 4, P04-P

METHOD	MEAN	ST.DEV	N
OVER-ALL	1.8000	0.2517	37
PHOSPHOMOLYBDATE, I-1601, USGS TWRI BK5 CH A1	1.4667	0.2887	3
PHOSPHOMOLYBDATE,AUTO, I-2601, USGS TWRI BK5 CH A1	1.9333	0.2517	3
PHOSPHOMOLYBDATE, EPA	1.8500	0.1517	6
PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA	2.0250	0.3105	8
ASCORBIC ACID, APHA STD METH, 14ED	1.7000	0.0817	4
TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE	1.8000	0.1414	6
OTHER	1.6500	0.0578	4

STATISTICAL INFORMATION BY METHOD -- SAMPLE 4, P,TOTAL

METHOD	MEAN	ST.DEV	N
OVER-ALL	3.3231	0.5770	39
PHOSPHOMOLYBDATE, I-1600, USGS TWRI BK5 CH A1	3.3333	0.0578	3
PHOSPHOMOLYBDATE,AUTO, I-2600, USGS TWRI BK5 CH A1	3.9333	0.8387	3
PHOSPHOMOLYBDATE, EPA	2.8200	0.6340	5
PHOSPHOMOLYBDATE-ASCORBIC ACID,AUTO, EPA	3.4556	0.6347	9
DIGESTION-ASCORBIC ACID, APHA STD METH, 14ED	3.1000	0.3626	8
TECHNICON AUTOANALYZER, PHOSPHOMOLYBDATE	3.6333	0.8386	3
OTHER	3.4000	0.3559	7