PHYSICAL, CHEMICAL, AND BIOLOGICAL DATA FOR DETAILED STUDY OF IRRIGATION DRAINAGE IN THE SAN JUAN RIVER AREA, NEW MEXICO, 1993-94, WITH SUPPLEMENTAL DATA, 1991-95

By Carole L. Thomas, U.S. Geological Survey;
Joel D. Lusk, U.S. Fish and Wildlife Service;
R. Sky Bristol, U.S. Fish and Wildlife Service;
R. Mark Wilson, U.S. Fish and Wildlife Service; and
Arlyn R. Shineman, Bureau of Reclamation

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U.S. DEPARTMENT OF THE INTERIOR
BRUCE BABBITT, Secretary

U.S. GEOLOGICAL SURVEY
Gordon P. Eaton, Director

For additional information write to:

District Chief
U.S. Geological Survey
Water Resources Division
4501 Indian School Road NE, Suite 200
Albuquerque, NM 87110-3929

Copies of this report can be purchased from:

U.S. Geological Survey
Branch of Information Services
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CONVERSION FACTORS

Multiply	By	To obtain
inch	2.540	centimeter
foot	0.3048	meter
mile	1.609	kilometer
acre-foot	1,233	cubic meter
cubic foot per second	0.028317	cubic meter per second

Wet-weight and dry-weight concentrations in biological tissue can be converted from one to the other by the following equations:

Wet-weight concentration = (dry-weight concentration) x (1-percent moisture/100)

Dry-weight concentration = (wet-weight concentration) / (1-percent moisture/100)

Temperature in degrees Celsius (°C) can be converted to degrees Fahrenheit (°F) by the equation:

$$°F = 9/5\ (°C) + 32$$

Chemical concentration in water is reported in milligrams per liter (mg/L) or micrograms per liter (µg/L), which are equivalent to parts per million and parts per billion, respectively, when the concentration of dissolved solids is less than about 7,000 milligrams per liter (Hem, 1992, p. 55).

Chemical concentration in sediment is reported in micrograms per gram (μg/g) or percent. Micrograms per gram is equal to parts per million. Percent is equal to parts per hundred.

Chemical concentration in biological tissue is reported in micrograms per gram (μg/g) or micrograms per kilogram (μg/kg), which are equivalent to parts per million and parts per billion, respectively.

Specific conductance of water is a measure of the ability of water and dissolved constituents to conduct an electrical current and is an indication of the ionic strength of the solution. Specific conductance is expressed in microsiemens per centimeter at 25 °C (μS/cm) and increases with the concentration of dissolved constituents.

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ABSTRACT

In response to increasing concern about the quality of irrigation drainage and its potential effects on fish, wildlife, and human health, the U.S. Department of the Interior formed an interbureau task group to prepare a plan for investigating water-quality problems on irrigation projects sponsored by the Department of the Interior. The San Juan River area in northwestern New Mexico was one of the areas designated for study.

Investigators collected water, bottom-sediment, soil, and biological samples at more than 50 sites in the San Juan River area during 1993-94. Sample sites included (1) sites located within Department of the Interior irrigation project service areas, or areas that receive drainage from irrigation projects; (2) reference sites for comparison with irrigation project sites; and (3) sites located within the reach of the San Juan River from Navajo Dam to 10 miles downstream from the dam. The types of habitat sampled included the main stem of the San Juan River, backwater areas adjacent to the San Juan River, tributaries to the San Juan River, ponds, seeps, irrigation-delivery canals, irrigation-drainage canals, a stock tank, and shallow ground water. The types of media sampled included water, bottom sediment, soil, aquatic plants, aquatic invertebrates, amphibians, and fish. Semipermeable-membrane devices were used as a surrogate medium to sample both air and water in some instances. Sample measurements included concentrations of major ions, trace elements, organochlorine pesticides, polychlorinated biphenyls, polycyclic-aromatic-hydrocarbon compounds, and stable isotopes of hydrogen and oxygen.

This report presents tables of physical, chemical, and biological data collected for the U.S. Department of the Interior, National Irrigation Water-Quality Program. Additionally, supplemental physical, chemical, and biological data collected in association with the Navajo Indian Irrigation Project are presented.

INTRODUCTION

During recent years, there has been increasing concern about the quality of irrigation drainage and its potentially harmful effects on fish and wildlife resources and on human health. Concentrations of selenium greater than water-quality criteria for the protection of aquatic life (U.S. Environmental Protection Agency, 1987) were first detected in subsurface drainage from irrigated land in the western part of the San Joaquin Valley in California. In 1983, the U.S. Fish and Wildlife Service documented incidences of mortality, congenital defects, and reproductive failures in migratory birds that inhabited irrigation drainage impoundments at Kesterson

National Wildlife Refuge in the western San Joaquin Valley. Potentially toxic trace elements and pesticide residues have since been detected in other areas of Western States that receive irrigation drainage.

In 1985 the U.S. Department of the Interior (DOI) began a program to determine whether irrigation-related problems existed at other irrigation projects managed or constructed by the DOI, national wildlife refuges, or wetland areas for which the DOI has responsibilities under the Migratory Bird Treaty Act, the Endangered Species Act, or other legislation. Assistance in structuring and evaluating the National Irrigation Water-Quality Program (NIWQP) was provided by the National Research Council's Committee on Irrigation-Induced Water Quality Problems. As the program evolved, it became a five-phase process: (1) site identification, (2) reconnaissance studies, (3) detailed studies, (4) planning, and (5) remediation. Activities in the first three phases are conducted by study teams composed of scientists from the U.S. Geological Survey (USGS), the U.S. Fish and Wildlife Service (USFWS), the Bureau of Reclamation (BOR), and the Bureau of Indian Affairs (BIA). During phases 1-3, a USGS scientist heads each study team. The BOR conducts activities for phases 4 and 5.

In October 1989, a reconnaissance study began of the San Juan River area in northwestern New Mexico. The investigation focused on determining whether irrigation drainage: (1) had caused adverse effects or had the potential to adversely affect fish, wildlife, or human health or (2) may have reduced the suitability of water for other beneficial uses.

Concentrations of selenium in biota that exceeded established standards and criteria were reported during the San Juan River area reconnaissance study (Blanchard and others, 1993). Sites with exceedances were within irrigation project areas and the Quality-Trout-Water reach of the San Juan River. Plant, invertebrate, amphibian, and fish samples from streams, ponds, and irrigation drainage canals had dry-weight concentrations of selenium as great as 32.3 micrograms per gram (μg/g), exceeding the 4- to 8-μg/g (dry weight) dietary threshold criterion (Heinz and others, 1989) for waterfowl-food items and the 5-μg/g (dry weight) dietary threshold criterion (Lemly and Smith, 1987) for fish-food items. The median concentration of selenium in bird liver and kidney tissue was 31.2 μg/g in six samples from the Gallegos Canyon ponds (Blanchard and others, 1993). This value exceeded the 30-μg/g (dry weight) concentration above which teratogenesis can be expected to occur (Skorupa and others, 1990). Samples of trout and common carp from the Quality-Trout-Water reach of the San Juan River also were above the criterion for waterfowl-food and fish-food items.

During the San Juan River reconnaissance study, external lesions were observed on flannelmouth suckers and channel catfish, and the incidence of external lesions on fish exceeded 28 percent (Blanchard and others, 1993). Because of concerns that polycyclic-aromatic-hydrocarbon (PAH) compounds could be a factor in producing the reported incidence of external lesions observed in fish from the San Juan River and concerns that irrigation-supply or drainage water might be a conveyance mechanism for these potentially toxic and carcinogenic chemicals, semipermeable-membrane devices (SPMD's) were used during this study to monitor air and water at several locations within the study area.

The program coordinators directed that a detailed study be conducted in the San Juan River area in northwestern New Mexico because of concerns identified during the reconnaissance study. The NIWQP needs basic technical information concerning the processes contributing to the elevated selenium and other contaminant concentrations in the San Juan River area in order to make decisions regarding the need for and type of appropriate remedial action.

Purpose and Scope

The purpose of this report is to (1) describe the collection, laboratory analytical methods, and organization of the data; (2) present tables of physical, chemical, and biological data collected from 52 sites during 1993-94 for the NIWQP detailed study of the San Juan River area, and (3) present tables of supplemental physical, chemical, and biological data collected from 72 sites during 1991-95 within the San Juan River area.

The scope of this study included collection and analysis of water, bottom-sediment, and biological samples; and deployment, retrieval, and analysis of semipermeable-membrane devices in an area of northwestern New Mexico where the San Juan River and its water supply are major cultural influences. Sample sites included (1) sites located within DOI irrigation project service areas or areas that receive drainage from irrigation projects; (2) reference sites for comparison with irrigation project sites; and (3) sites located within the reach of the San Juan River from Navajo Dam to 10 miles downstream from the dam. The types of habitat sampled included the main stem of the San Juan River, backwater areas adjacent to the San Juan River, tributaries to the San Juan River, ponds, seeps, irrigation-delivery canals, irrigation-drainage canals, a stock tank, and shallow ground water. Samples were analyzed for concentrations of major ions, selected trace elements, organochlorine pesticides, polychlorinated biphenyls, polycyclic-aromatic-hydrocarbon compounds, and stable isotopes of hydrogen and oxygen.

Description of the Study Area

The study area includes the DOI Cudei, Hogback, Fruitland, Navajo Indian, and Hammond Irrigation Projects and the Quality-Trout-Water reach of the San Juan River downstream from Navajo Reservoir and Dam in northwestern New Mexico (fig. 1). The San Juan River study area is located within the San Juan River Basin, San Juan County, northwestern New Mexico (fig. 1). The area includes (1) an approximate 80-mile reach of the San Juan River Valley from Navajo Dam to the western border of the Hogback Irrigation Project and (2) an upland area south of the San Juan River Valley, approximately bounded by the Chaco River on the west, Hunter Wash on the south, and New Mexico State Highway 44 on the east (fig. 1). Irrigation projects are located adjacent to the San Juan River and south of the river (fig. 1).

Three of the irrigation projects were sponsored and constructed by the BIA: the Cudei, the Hogback, and the Fruitland. The Navajo Indian Irrigation Project was sponsored by the BIA but is being constructed by the BOR. The Hammond Irrigation Project was sponsored and constructed by the BOR. All projects obtain water from the San Juan River. Following its use, water that is not consumed by plants or evaporated returns by overland flow, seepage, or subsurface tile drains to the San Juan River or to the ground-water system in the San Juan River Valley.

The Quality-Trout-Water reach is a tailwater reach and is the first 4.0-mile reach of the San Juan River downstream from Navajo Dam. The New Mexico Department of Game and Fish manages this reach as a trophy trout fishery. This river segment is important for recreational angling and internationally famous for the high numbers of large trout caught there. The Quality-Trout-Water reach can receive more than 70,000 angler-use days per year (Ahlm, 1992).

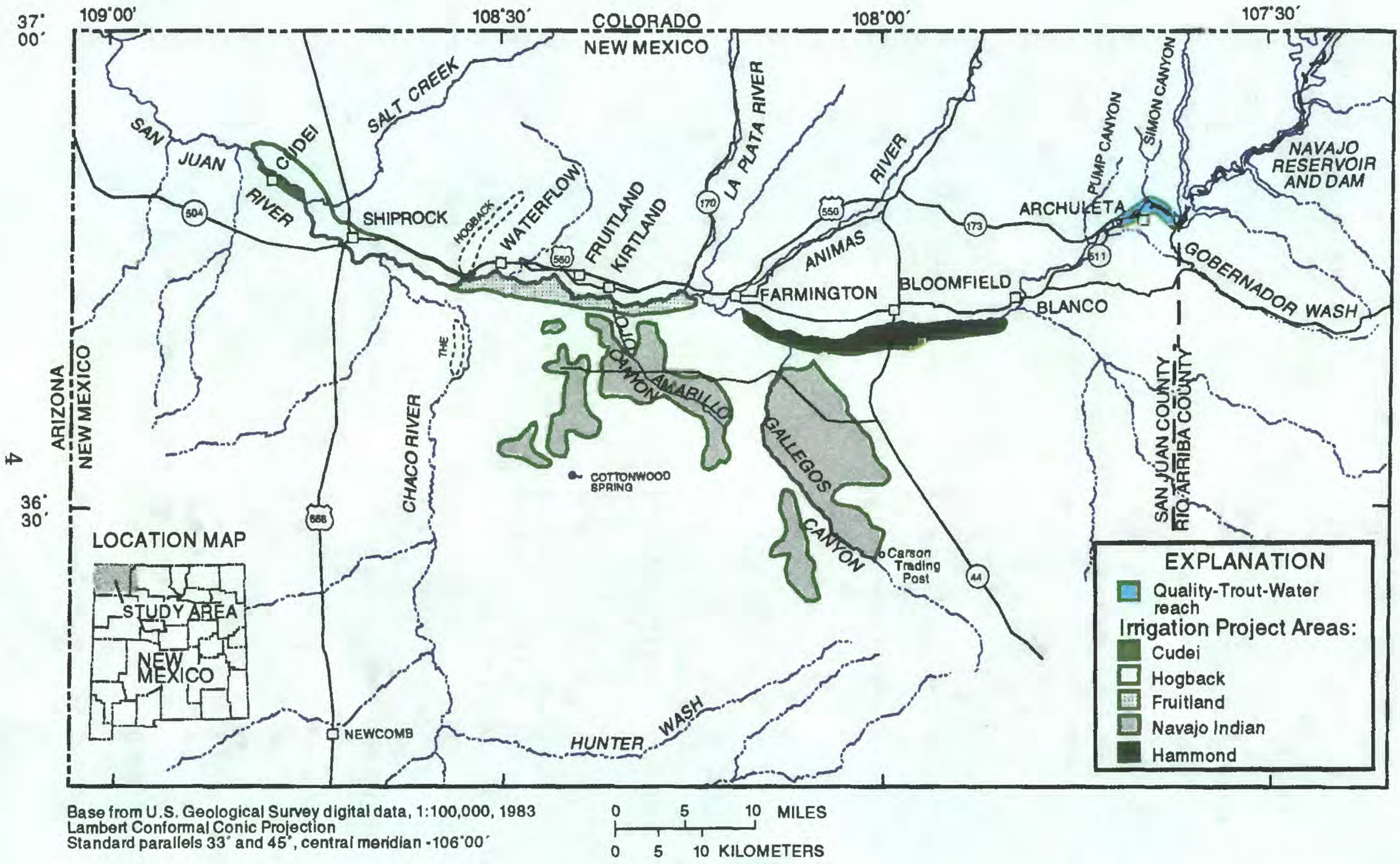

Figure 1.--Location of the San Juan River study area and irrigation projects sponsored by the U.S. Department of the Interior.

Acknowledgments

The authors acknowledge with appreciation the many individuals who assisted in the study. Leif Ahlm and Bob Larson from the New Mexico Department of Game and Fish were of particular assistance in the collection of trout samples from the San Juan River Quality-Trout-Water reach. Appreciation is extended to the many land owners in the study area who graciously allowed access to their property, particularly to Will Ed and Sylvia Paul and Raymond Drolet, who allowed the installation of streamflow-measurement stations on their property. Thanks are extended to Justin Gathings of the Hammond Conservancy District, who obtained access to irrigated land within the Hammond Irrigation Project. We also appreciate the assistance of Ron Bliesner and Mike Peterson of Keller-Bliesner Engineering, who provided the supplemental water and biological data contained in this report.

SAMPLE COLLECTION AND ANALYSIS

Sample collection and analysis for the NIWQP, San Juan River area, New Mexico, were a cooperative effort among four DOI agencies and several Federal and contract laboratories. Samples were collected by the USGS, USFWS, BOR, and BIA. Laboratories analyzing samples included the USGS National Water Quality Laboratory (NWQL) in Arvada, Colorado; USGS Isotope Laboratory in Reston, Virginia; USGS Branch of Geochemistry in Lakewood, Colorado; BOR Interregional Soil and Water Laboratory and Environmental Research Chemistry Laboratory in Denver; Environmental Trace Substance Laboratory in Columbia, Missouri; Geochemical and Environmental Research Group in College Station, Texas; and Mississippi State Chemical Laboratory at Mississippi State University in Mississippi. SPMD's were analyzed by Dr. Harry F. Prest of the Long Marine Laboratory at the University of California in Santa Cruz.

Sampling Sites

Sampling sites (fig. 2; table 1) consisted of (1) sites located within DOI irrigation project areas or areas receiving drainage from these projects (sites 12-22, 25-38, 42-52, HB1-1 through HB4-2, and HU1-1 through HU5-3); (2) reference sites for the DOI irrigation projects (sites 23, 24, and 39-41); and (3) sites located within the reach of the San Juan River from Navajo Dam to 10 miles downstream from the dam (sites 1-11). Locations of the sampling sites are shown in figure 2 and listed by USGS station number and latitude and longitude in table 1. Table 1 also lists a brief description of the sampling sites.

The types of habitat sampled included the main stem of the San Juan River, backwater areas adjacent to the San Juan River, tributaries to the San Juan River, ponds, seeps, irrigation-delivery canals, irrigation-drainage canals, a stock tank, and ground water. The types of media sampled included water, bottom sediment beneath water bodies, soil from upland drainage areas, aquatic plants, aquatic invertebrates, amphibians, and fish. SPMD's were used as a surrogate medium to sample both air and water in some instances. A wide variety of habitat types and media were sampled to help determine the environmental pathway for accumulation of constituent concentrations.

Thirty-six sites within DOI irrigation projects were sampled. Sites located within DOI irrigation projects included those sampled during the reconnaissance study that had elevated concentrations of selenium (sites 22, 29, 34, 44, and 47) or lead (sites 12 and 37) in biota plus additional sites.

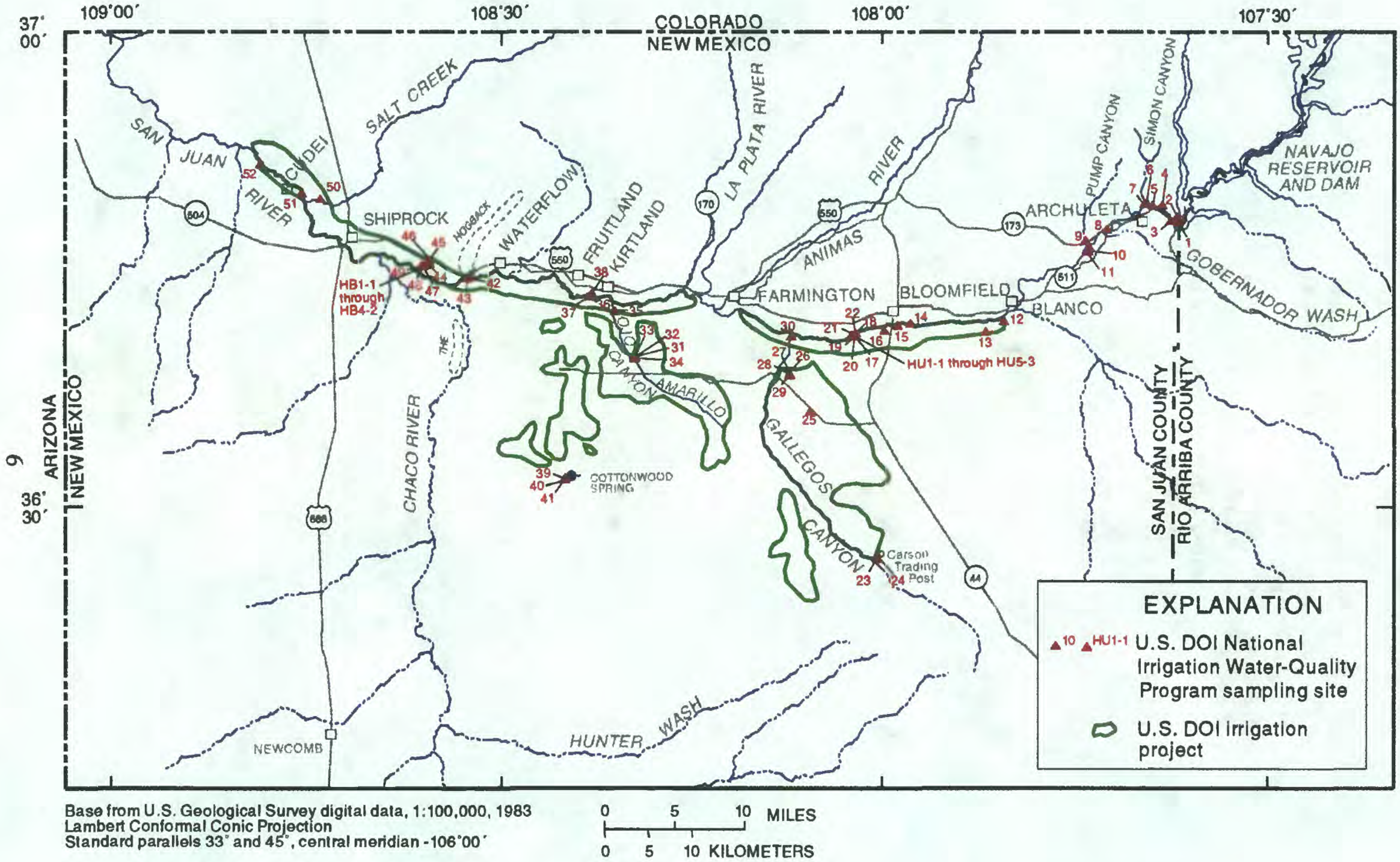

Figure 2.--Location of sampling sites for the U.S. Department of the Interior (DOI), National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94.

Five reference sites were sampled. Reference sites included an ephemeral streamflow site and a dug hole, both in Gallegos Canyon upstream from any irrigation projects (sites 23 and 24), and a pond, seep, and galvanized-steel stock-watering tank within the study area but outside the influence of agricultural irrigation projects (sites 39-41, respectively). The reference sites served as a point of comparison for assessment of effects due to irrigation projects.

Eleven sites were sampled in the 10-mile reach of the San Juan River downstream from Navajo Dam (sites 1-11), which includes the Quality-Trout-Water reach. This reach is upstream from the DOI irrigation service areas and could provide a reference for downstream sites. However, the reach exhibits characteristics common to tailwaters downstream from many reservoirs. Water temperatures are colder and subject to less seasonal fluctuation, turbidity is lower, and benthic-invertebrate density is higher compared with riverine habitats downstream from the reservoir (Holden and others, 1980). Several small, privately funded, direct-ditch irrigation projects also are operating adjacent to this reach of the San Juan River. Thus, although this reach is free from any influences related to return flows emanating from a DOI irrigation service area, the physical, chemical, and biological components of the river within this reach are different from other study sites, and these differences need to be taken into consideration when comparing data from sites within this reach with data from downstream sites.

Sampling Methods

Water, bottom-sediment, soil, and biological samples were collected according to published and documented procedures. The U.S. Geological Survey (1982), Severson and others (1987), and Ward and Harr (1990) outlined the procedures used to collect water and bottom-sediment samples. Soil samples were collected according to procedures used in trace-element investigations of the Animas-La Plata Project (Bureau of Reclamation, 1995), and biological samples were collected using procedures outlined by the U.S. Fish and Wildlife Service (1985). Dr. Harry F. Prest (oral commun., 1993) of the Long Marine Laboratory at the University of California in Santa Cruz outlined the procedures for deploying SPMD's.

Water Samples

Team members from the USGS, USFWS, and BIA collected water samples from the center of flow in canyons, ditches, canals, and pond outlets where water depth was generally shallow and channels were narrow. At ponds and backwater areas of the San Juan River that were not flowing, teams collected samples at representative locations about 10 feet from shore.

Team members used a length of tygon tubing and a peristaltic pump to fill sample bottles directly from the water body. The USGS NWQL supplied unwashed polyethylene bottles; nitric-acid-washed polyethylene bottles; glass bottles; and oven-baked bottles for the collection of various types of water samples. The USGS Isotope Laboratory supplied glass bottles for the collection of stable isotopes of hydrogen and oxygen in water. Samples collected for dissolved constituents were filtered through a 0.45-micrometer, disposable plastic capsule filter. Some types of water samples were preserved with nitric acid or sulfamic acid immediately following collection and were packed in ice if they required chilling. Team members measured water temperature, specific conductance, pH, and dissolved oxygen at the time of sample collection with a Hydrolab H20 multiparameter meter. Where water was flowing, stream discharge was measured using methods described by Rantz and others (1982).

Because of the remote location and infrequent, short-duration flow at Gallegos Canyon near Carson Trading Post (site 23), an automatic Isco 3700 device collected the samples at this site. When water flowed past the sampling site, a sensing device triggered the automatic sampler, which pumped water to a polyethylene bottle. Team members visited the station about every 3 weeks to replace the battery pack and to check for sample collection. If a sample had been collected, it was processed using the appropriate filtration and preservation procedures described above.

Bottom-Sediment Samples

Team members from the USGS, USFWS, and BIA collected bottom-sediment samples beneath water bodies. Bottom-sediment samples were collected at nine or more equally spaced points in a cross section for canyons, ditches, and canals, or at nine or more equally spaced points surrounding an outlet for ponds. At ponds and San Juan River backwater sites that were not flowing, nine or more samples were collected at representative locations about 10 feet from shore. The samples were collected with an unpainted BMH-53 bottom-sediment sampler with a stainless-steel core barrel and a brass plunger. The top 3 to 4 inches of each sample, mixed with a stainless-steel spoon in a stainless-steel bowl, formed a composite sample.

Two methods were used to process bottom-sediment material using stainless-steel implements. For bottom-sediment material to be analyzed for trace elements, total carbon, inorganic carbon, and organic carbon, team members spooned the material into two 500-milliliter, wide-mouth, polyethylene jars and sealed them with plastic tape. For bottom-sediment material to be analyzed for organic constituents, team members worked the material through a 2-millimeter sieve with a spoon, placed the sample in an oven-baked, 1,000-milliliter, wide-mouth, glass jar, and sealed the jar with plastic tape. Teams then labeled the bottom-sediment samples, wrapped them in clear plastic bags, placed them in plastic coolers, packed them with ice, and shipped them to the laboratory within 24 hours of collection.

Soil Samples

BOR team members collected soil samples at representative sites of the Hammond (sites HB-1 through HB4-2) and Hogback (sites HU-1 through HU5-3) Irrigation Projects (fig. 2; table 1). All sites except one were sampled with a split-spoon sampling tube powered by a hydraulic drill rig. One site was sampled with an orchard auger because of difficulties encountered with the gravelly nature of the subsoil. Depth of borings varied from 25 inches (the gravelly soil mentioned previously) to 20 feet; most were about 10 feet deep. At each site samples consisted of 5-foot composites except for the last interval; thicknesses of the last interval ranged from about 2 to 5 feet. For example, four composite samples would be collected from an 18-foot boring; the first from the surface to 5 feet, the second from 5 to 10 feet, the third from 10 to 15 feet, and the fourth from 15 to 18 feet. Samples were stored in plastic freezer bags and placed in a plastic cooler. Dry ice maintained the temperature of the ice chests at less than 40 °F until delivery at the soil laboratory in Denver. The split-spoon sampler and other equipment used in sampling were decontaminated between sampling intervals and sites by washing the equipment in a solution of non-phosphate soap, followed by rinsing in deionized, distilled water.

Biological Samples

Team members from the USFWS, USGS, and BIA collected biological samples. Where media were available, teams collected aquatic plants, aquatic invertebrates, large fish (15 centimeters (cm) or greater in length), small fish (less than 15 cm), and amphibians (toads, frogs, and salamanders). The New Mexico Department of Game and Fish assisted in the collection of fish from the San Juan River Quality-Trout-Water reach and the reach of the river extending to about 10 miles downstream from Navajo Dam (sites 4, 6, 10, and 11).

Biological samples were placed in plastic bags or in chemically cleansed jars with Teflon-lined lids. Composite samples of large fish were wrapped in aluminum foil before they were bagged in plastic to reduce the possibility of contamination from the plastic in samples analyzed for organochlorine compounds. Samples were labeled according to sample number, location, type, and date. Sample-identification numbers were assigned using the following methodology:

Example-- SR02FP04

SR Watershed identifier and year of sample collection (SJ = 1993; SR = 1994)

02 USFWS sample-collection station number (this station number does not correspond to site numbers used in this report)

F Sample type (P = aquatic plant; I = aquatic invertebrate; F = fish; OV = amphibian/other vertebrate)

P Additional sample descriptor or matrix code (A = algae; M = macrophytes; B = benthic; NK = nektonic; F = fillet; P = partial body; I = integrated fish; FS = small fish)

04 A sequential sample number that differentiated between samples when multiple samples of a specific type were collected (for example, four partial-body fish samples).

Table 2 provides information about each sample. Fish, invertebrate, and amphibian samples also were characterized according to their predominant location in the ecosystem (benthic, terrestrial, or in the water column) and the appropriate feeding guild (herbivore, omnivore, carnivore, or predator). This information can be referenced to inorganic and organic analytical results using the sample-identification number.

All samples were placed in insulated plastic coolers containing either wet or dry ice at the time of collection. After returned from the field, samples were stored at a temperature of about -8 °C in a freezer at the USFWS laboratory in Albuquerque, New Mexico, until shipped to contract analytical laboratories. Samples were shipped by overnight carrier in boxed styrofoam chests containing dry ice.

At sites where they were available, samples of aquatic plants were hand collected and identified to the lowest distinguishable taxon by USFWS biologists using a reference text (Hotchkiss, 1972). Plant samples were cut above the roots and the leaves and stems washed in site water to reduce contamination by attached invertebrates and sediment. Plants of the same taxa from three or more proximate locations within a site were composited into a single sample to reduce variability.

Aquatic invertebrates were collected by kick-net or handpicked from rocks removed from the bottoms of streams, canals, or ponds. Team members attempted to obtain approximate 10-gram (g) samples of aquatic invertebrates. Invertebrates were identified to the nearest distinguishable taxa by USFWS biologists using a reference text (Pennak, 1953). When sufficient quantities of the same invertebrate taxon were available at a sampling site, a single taxon was collected. If a sufficient quantity of a single taxon was not available, a composited sample of aquatic invertebrates was put together--for example, caddisflies and midges or damselfly and dragonfly larvae.

Amphibians were collected by kick-net or handpicked from streams and the surrounding shore line of streams, canals, or ponds. Team members attempted to obtain approximate 10-g samples of amphibians. Amphibians were identified to the nearest distinguishable taxon by USFWS biologists using a reference text (Stebbins, 1985). Composite samples of amphibians were collected when their availability allowed.

Small fish were collected using a 24-volt backpack electroshocker, seines, kick-nets, angling, or a combination of these techniques. Large fish were collected using raft-mounted electroshocking gear. Individual large fish were weighed on a pan scale, measured for total length, and composited into samples of three to five similarly sized fish of the same species. Fish samples were wrapped in aluminum foil, bagged, and frozen. In a few instances when a single fish species could not be collected in sufficient quantities, a composite was collected of similar species--for example, rainbow and brown trout. Fish were identified by USFWS fishery biologists using reference texts (such as Sublette and others, 1990). With the exception of fish collected from sites 2, 4, 5, 6, 10, and 11, all fish were analyzed as whole-body composites.

Team members believed that the data for the San Juan River from Navajo Dam to 10 miles downstream from the dam, which included the Quality-Trout-Water reach, would be important for evaluating public health risks related to fish consumption. Therefore, a different fish-sample preparation strategy was used for samples from four river and two backwater sampling locations (sites 3, 4, 5, 6, 10, and 11) within this area. Brown and rainbow trout were the only fish larger than 15 cm that were collected from five of the six sites within this reach. At the sixth site, carp were the only fish greater than 15 cm collected and were analyzed as whole-fish composites. Fish were transported to a New Mexico Department of Game and Fish building near the sites for processing. The fish were sorted by species, weighed, measured, and composited into groups of three to five individuals of similar size. Each trout had a skinless fillet removed from the right side using a stainless-steel knife. The fillets were weighed on an analytical scale, composited, placed in chemically cleansed glass jars, and tagged with a waterproof label. Similarly, the corresponding composite samples of the three to five partial-body (minus the right-side fillet) fish were wrapped in aluminum foil, double bagged, and labeled. These fillet and partial-body fish samples were frozen at the New Mexico Department of Game and Fish facility prior to being transported to USFWS facilities in Albuquerque.

Corresponding composite samples of fillets and partial-body fish (minus right-side fillets) were analyzed separately. Processing fish in this manner yields data that are useful in two ways. First, contaminant concentrations in fillets can be used to estimate public health risks related to fish consumption (U.S. Environmental Protection Agency, 1989). Second, recombining the corresponding fillet and partial-body fish sample data allows team members to calculate contaminant concentrations in whole fish for comparisons with other whole-fish data. This method involves calculating the "integrated-fish" contaminant concentration from the weighted average of the contaminant concentration in a composite sample of fillets and the contaminant

concentration from the corresponding sample of partial-body fish. This method results in information suitable for estimating ecological risks to piscivorous predators, such as the bald eagle, and for comparing with whole-fish data collected during other investigations.

An example of the "integrated-fish" calculation method is provided below using equation 1. Each integrated-fish sample was assigned an identification number similar to the one assigned to the fillet and partial-body samples. For example, SJ02FI1 is the sample identification number assigned to the integrated-fish sample that combined the fillet sample, SJ02FF1, with the partial-body sample, SJ02FP1, according to the equation below. If a particular analyte concentration was below the reporting limit in the fillet but not in the partial body, then a value of one-half the reporting-limit concentration was assigned during the calculation of the integrated-fish concentration. If both the fillet sample and partial-body sample had an analyte concentration that was below the reporting limit, then the higher of the two reporting limits, preceded by a < symbol, was presented in the tables as the integrated-fish concentration.

$$C_{if} = (W_f/W_{wb} \times C_f) + [(W_{wb} - W_f)/W_{wb} \times C_{wb\text{-}f}] \quad (1)$$

where C_{if} = Concentration of contaminant in integrated whole-body fish, in micrograms per gram;

W_f = Fillet weight, in grams;

W_{wb} = Whole body weight, in grams;

C_f = Concentration of contaminant in fillet, in micrograms per gram; and

$C_{wb\text{-}f}$ = Concentration of contaminant in whole-body minus fillet, in micrograms per gram.

Then if Fillet weight = 20 g;

Whole-body weight = 200 g;

Concentration of contaminant in fillet = 0.5 µg/g; and

Concentration of contaminant in whole-body minus fillet = 2.8 µg/g;

the concentration of contaminant in integrated whole-body fish = [0.1 x 0.5 µg/g] + [0.9 x 2.8 µg/g] = 2.6 µg/g.

Semipermeable-Membrane-Device Deployment and Retrieval Methods

SPMD's developed by the Chemical Etoxicology Group (Prest and others, 1992; Dr. Harry F. Prest, oral commun., 1996) were prepared by the Long Marine Laboratory of the University of California at Santa Cruz for deployment in the study area to capture organic compounds, specifically PAH's. SPMD's consist of triolein, a lipid compound similar to fish oil, contained within a thin, flat polyethylene membrane (Huckins and others, 1990). Theoretically, SPMD's absorb organic contaminants and mimic the exposure of fish to organic contaminants in the environment. Because this technique is new and details of preparing the devices are not generally known, the following summary is provided as a general description.

A length of new polyethylene tubing (PET) was eluted with hexane to preclude sample contamination. Triolein, the lipid medium for sorbing organic compounds, was prepared by spreading deuterated napthalene evenly inside a length of eluted PET. The tubing ends were heat sealed into loops to retain the lipid and allow easy mounting. The same mass of triolein was sealed into each PET. The sealed tubing was placed inside a perforated stainless-steel tube that was solvent rinsed and fired at 400 °C. Each sampler and an accompanying blank were heat sealed inside a thick Tedlar membrane. A final outer membrane enclosed all components. Packaged samplers were kept on dry ice until deployed.

Aquatic SPMD's were suspended underwater within a stainless-steel mesh cylinder and fastened between two metal posts pounded into the bed sediment of the sampling site. Sometimes an additional post was placed upstream from the sample set to provide protection from debris carried by the current. Water velocity was measured by the USGS. Because absorption of organic contaminants by the SPMD's is affected by water temperature, water temperatures were recorded during installation and removal of the SPMD's. Atmospheric samplers were deployed on terrestrial sites bordering the Hammond Project irrigation-supply canal. Atmospheric samplers consisted of an SPMD suspended between two metal posts pounded into the soil. No protective cover (no stainless-steel cylinder) was used for the atmospheric sample sets.

The SPMD's were exposed to the environment and then analyzed for selected organic contaminants. After about 31 days of exposure, the SPMD's were removed and immediately placed in chemically cleansed jars at the sampling site. Team members wore polyethylene gloves to prevent contamination from skin oils and other contaminants. Jars were labeled with location, date, and water temperature at the time of recovery. After the lids were sealed with multiple wraps of Teflon tape, the jars were wrapped in several layers of plastic wrap, placed in a locking seal plastic bag, and stored in a cooler containing dry ice. These jars remained on dry ice while in the field and during shipment to the analytical laboratory. The jars were shipped to the analytical laboratory within 24 hours after they were returned to the USFWS Field Office in Albuquerque.

Constituents Analyzed for and Frequency of Collection

Water, bottom-sediment, and soil samples were analyzed according to published procedures. The specific procedures used to analyze biological samples and SPMD's are described in the following discussion. The frequency of sample collection and types of analyses conducted varied for water, bottom-sediment, soil, and biological samples.

Water Samples

Water samples were analyzed at the USGS NWQL in Arvada, Colorado, and at the USGS Isotope Laboratory in Reston, Virginia. The NWQL analyzed major constituents and trace elements in water using the methods described by Fishman and Friedman (1989). The NWQL analyzed organic constituents in water using the methods described by Wershaw and others (1987). The isotope laboratory analyzed stable isotopes of hydrogen and oxygen in water using the methods described in Epstein and Mayeda (1953) and Kendall and Coplen (1985).

Water samples were collected weekly from October 1993 through October 1994 at two sites. The two sites were Gallegos Canyon near Farmington (site 30) and Ojo Amarillo Canyon near Fruitland (site 35). A third site, Gallegos Canyon near Carson Trading Post (site 23), was dry most weeks and required the use of an automatic sampling device to collect samples from the infrequent, short-duration flows. The automatic sampler collected samples on March 8, May 12, May 25, June 19, June 21, July 23, July 24, July 25, August 11, August 14, and September 3, 1994. Field specific conductance of the samples was measured, and samples were analyzed for dissolved selenium (table 3). Daily mean streamflow, which was computed from stream-stage measurements taken every 15 minutes at the three sites, is reported in table 4.

Water samples at most sites were collected either semiannually or annually. Samples were collected semiannually (March 1993, August 1993, March 1994, July 1994) at sites located on DOI irrigation projects or receiving drainage from the projects (sites 12-22, 25-38, and 42-52) and at reference sites for the DOI irrigation projects (sites 23, 24, and 39-41). Samples were collected annually (August 1993, July 1994) at sites located within the Quality-Trout-Water reach and the reach of the San Juan River extending to about 10 miles downstream from Navajo Dam (sites 1-11). Team members measured instantaneous discharge, specific conductance, pH, water temperature, and dissolved oxygen at the sampling sites. The samples were analyzed in the laboratory for dissolved solids, dissolved major ions, alkalinity, stable isotopes of hydrogen and oxygen, and dissolved trace elements. Physical properties of and concentrations of chemical constituents in water samples are reported in table 3.

Whole water samples were collected annually (September 1993, September 1994) at sites upstream and downstream from the Bloomfield natural gas refinery within the Hammond Irrigation Project, at Cottonwood Pond, and within the Hogback Irrigation Project (sites 13-17, 21, 39, and 47) for analysis of 57 PAH compounds. PAH compounds analyzed for and their respective minimum reporting limits are listed in table 5. Analyses conducted for PAH compounds did not reveal the presence of any of these compounds in whole water at or above minimum reporting limits.

Bottom-Sediment Samples

Bottom-sediment samples were analyzed at the NWQL in Arvada, Colorado, and the USGS Branch of Geochemistry in Lakewood, Colorado. The NWQL analyzed bottom-sediment samples for organic constituents using the methods described by Wershaw and others (1987). The geochemistry laboratory analyzed bottom-sediment samples for trace elements, total carbon, inorganic carbon, and organic carbon using methods described by Stewart and others (1992).

Bottom-sediment samples were collected annually (August-September 1993, July 1994) at selected sites throughout the study area. Bottom sediment was chemically analyzed for 54 PAH compounds and 45 major and trace elements. Table 5 is a list of the PAH compounds analyzed and their minimum reporting limits. PAH compounds were not detected at or above minimum laboratory reporting limits with one exception. Bis (2 ethyl hexyl) phthalate was detected at a concentration of 1,500 micrograms per kilogram in bottom material at Hammond Canal 0.3 mile west of Highway 44 near Bloomfield (site 16), New Mexico, on September 30. Concentrations of 45 major and trace elements in bottom-sediment samples are reported in table 6.

Soil Samples

The USGS Branch of Geochemistry analyzed soil samples for (1) total and soluble mercury using the cold vapor method; (2) selenium and arsenic, both total and soluble, using hydride generation; and (3) total concentrations of the remaining major and minor elements listed in table 7 using inductively coupled plasma atomic emission spectrometry (ICP-AES), multielement, simultaneous scan. The cold-vapor and inductively coupled plasma procedures are described in the Quality Assurance Manual for the Branch of Geochemistry (U.S. Geological Survey, 1990). The BOR Environmental Research Chemistry Laboratory Group in Denver analyzed soluble copper and zinc by ICP-AES and analyzed silver by graphite furnace. The BOR Interregional Soil and Water Laboratory in Denver prepared the soil samples for analysis, including the preparation of saturated soil paste extracts used in the analysis of water-soluble concentrations of selected elements.

Soil samples were collected once during the study period on April 5, 1994, at the Hammond Irrigation Project and on April 6, 1994, at the Hogback Irrigation Project. Soil was chemically analyzed for the 42 major and trace elements reported in table 7.

Biological Samples

Biological samples were analyzed by several different laboratories under contract with the USFWS Patuxent Analytical Control Facility (PACF). The Environmental Trace Substance Laboratory analyzed inorganic elements during 1993-94. The Geochemical and Environmental Research Group analyzed organic compounds during 1993 and the Mississippi State Chemical Laboratory analyzed organic compounds during 1994.

Table 8 provides a tally of the biological samples collected at each site and the number and type of chemical analyses performed. In 1993, 142 samples were collected and in 1994, 116 samples were collected. Forty percent of all samples collected were fish, 28 percent were plants, 26 percent were invertebrates, and 6 percent were amphibians. Fish-fillet samples were collected from 78 of the 102 fish.

Biological samples were analyzed for moisture content, selected inorganic constituents, and organic constituents. Inorganic constituents analyzed consisted of the 19 trace elements listed in table 9.

Only fish samples were analyzed for organic compounds, which included organochlorine pesticides and their degradation products, and total polychlorinated biphenyls (PCB's). The pesticides and degradation products included aldrin, dieldrin, alpha chlordane, gamma chlordane, oxychlordane, cis nonachlor, trans nonachlor, endrin, heptachlor, heptachlor expoxide, four isomers of benzene hexachloride (alpha, beta, delta, and gamma benzene hexachloride), hexachlorobenzene, mirex, toxaphene, ortho and para forms of dichloro diphenyl trichloroethane (DDT), ortho and para forms of dichloro diphenyl dichloroethane (DDD), and ortho and para forms of dichloro diphenyl dichloroethylene (DDE). Of the 23 organochlorine pesticides and their degradation products analyzed, only 7 compounds were detected above the reporting limit in fish samples. Concentrations of trans nonachlor; alpha benzene hexachloride; gamma benzene hexachloride; the para forms of DDT, DDD, and DDE; and the ortho form of DDE are reported for fish samples in table 10.

Fish samples collected in 1993 were analyzed for total PCB's and 75 individual PCB congeners. The individual PCB congeners analyzed for included isomers 7, 8, 15, 16/32, 18, 22, 24, 25, 26, 28, 29, 33, 37/42, 40, 41/64, 44, 45, 46, 47/48, 49, 50, 52, 60/56, 66, 70, 74, 77, 82, 83, 84, 85, 87, 88, 92, 97, 99, 101, 105, 107/108/144, 110/77, 118/108/149, 126, 128, 129, 136, 137, 138, 141, 146, 149, 151, 153, 156/171/202, 158, 167, 170, 172, 174, 177, 178, 180, 183, 185, 187/182/159, 188, 189, 191, 194, 195, 196, 200, 201. 205, 206, and 209, numbered according to the Ballschmitter and Zell (1980) system for identifying PCB congeners. Thirteen of the 75 PCB congeners were detected in concentrations at or above the laboratory reporting limit: isomers 8, 41/64, 44, 45, 49, 60/56, 138, 141, 153, 170, 172, 180, and 187/182/159. Fish samples collected in 1994 were analyzed for total PCB's but not for individual PCB congeners. Concentrations of total PCB and PCB congeners that were detected at or above laboratory reporting limits in fish samples are reported in table 11.

Inorganic elements

Inorganic analyses were conducted by the Environmental Trace Substance Laboratory (ETSL) in Columbia, Missouri, using procedures outlined by the U.S. Fish and Wildlife Service (1990) or methods developed by ETSL and approved by the PACF. Arsenic and selenium concentrations were determined by graphite furnace atomic absorption spectrometry. Mercury was determined by cold vapor atomic absorption spectrometry, and other elements were analyzed by inductively coupled plasma-emission spectrometry.

Large tissue samples, such as whole fish, were ground in a meat grinder, and an aliquot of the sample was weighed and then frozen until analysis. Small tissue and plant samples were weighed and frozen without pre-analysis preparation. Frozen samples were dried, weighed, and homogenized in a blender before analysis.

The percent moisture in tissue samples of sufficient size was determined by drying at 103 to 105 °C. The dried sample was then weighed, and the moisture content was calculated. Moisture in plants and tissue samples too small for oven-dried moisture determination was calculated from moisture lost during freeze drying.

Organic compounds

Organic compounds in biological samples were analyzed by two different laboratories. Samples collected in 1993 were analyzed by the Geochemical & Environmental Research Group (GERG) at College Station, Texas. GERG extracted organic compounds from tissue samples by the National Oceanic and Atmospheric Administration status and trends method (MacLeod and others, 1985) with minor revisions (Wade and others, 1988; Brooks and others, 1989). Samples collected in 1994 were analyzed by the Mississippi State Chemical Laboratory (MSCL) at Mississippi State University using procedures developed at MSCL (Mississippi State Chemical Laboratory, written commun., 1993).

Semipermeable-Membrane Devices

The Chemical Etoxicology Group at Long Marine Laboratory of the University of California at Santa Cruz analyzed PAH compounds in SPMD's. When samplers were submitted, the laboratory extracted lipid from walls of the PET by rinsing with pure hexane. The extract was spiked with deuterated surrogates and concentrated. The lipid was weighed and transferred to thick PET tubing for dialysis with cyclopentane and fractionated on Florisil columns. The fractions were analyzed for the presence of halogenated compounds and PAH's by high-resolution gas chromatography with mass spectrometric confirmation.

In 1993 SPMD's were deployed at five aquatic sites (sites 14-16, 40, and 47) on September 12 and 13 and retrieved on October 12 and 13. In 1994 SPMD's were deployed at six aquatic and three atmospheric sites (sites 13-17, 21, and 13, 14, and 15, respectively) on September 12 and retrieved on October 13. The triolein medium in the SPMD's was assayed for 31 PAH's (table 12).

Quality Assurance and Quality Control

Data-collection and laboratory analytical procedures used in this study incorporated practices designed to verify and assess the quality of sample data and the quality of laboratory analyses. Field quality assurance is the procedure used to assure that samples are not contaminated during collection and handling and that data are not compromised due to some unique characteristic of the sample-collection site. Samples collected for field quality assurance included trip, equipment, and ambient blanks; duplicates; and spikes. Quality control is the operational techniques an analyst uses in the laboratory to ensure that instruments are calibrated correctly, reagents are not degraded, and the method produces accurate, reproducible results. Analysts use method blanks, laboratory duplicates, laboratory spikes, and standard reference samples to fulfill the requirements of quality control.

Water

Quality-assurance samples were collected during field trips in 1993-94. Constituents analyzed for in quality-assurance water samples included dissolved solids, dissolved major ions, alkalinity, and dissolved trace elements (table 3).

Team members generally collected quality-assurance samples once each field trip for which water samples were collected, the duration of which was usually between 3 and 5 days. Determining whether a sample was contaminated was based on comparing the quality-assurance sample with the environmental sample collected during the same field trip. If no quality-assurance sample was collected during the same week as the environmental sample (for example, automatic stream samplers responding to flow events), then determining whether a sample was contaminated was based on comparing the quality-assurance samples collected throughout the time period of sample collection for the project. Quality-assurance samples collected each field trip consisted of one or more of the following types of blanks: a trip blank, an equipment blank, an ambient blank, and one or two sequential duplicates.

The purpose of the trip blank was to determine whether exposure to any of the environmental conditions, particularly conditions within the field vehicle, introduced any contamination during sample transportation from the field to the laboratory. The trip blank was processed in the USGS Albuquerque Field Office Laboratory at the start of each field trip. Trip-blank sample water consisted of deionized water prepared at the Albuquerque Field Office

Laboratory during 1993 and inorganic-blank water prepared by the USGS Ocala, Florida, office during 1994. The trip-blank water was poured into sample collection bottles at the beginning of the field trip and treated with a preservative, if required for the analyses requested. The trip blank moved with environmental samples collected in the field and was transported in the field vehicle throughout the trip until it was shipped to the laboratory with the last of the environmental samples for that field trip.

The purpose of the equipment blank was to determine whether exposure to the collection, pumping, and filtration equipment introduced any contamination. The equipment blank was collected in the field or at the Albuquerque Field Office Laboratory using laboratory deionized water or inorganic-blank water. The equipment-blank water was pumped into sample collection bottles using the same tygon tubing and peristaltic pump to be used in the field. For some constituents that required filtering, a 0.45-micron, individually wrapped and sealed, disposable cartridge filter was used. Sample bottles requiring preservative were treated.

The purpose of the ambient blank was to determine whether exposure to the sample-site environment, and any possible airborne contaminants at the site, introduced contamination to environmental samples. The ambient blank was collected at a randomly chosen field site using either the Albuquerque Field Office Laboratory's deionized water or the inorganic-blank water. The blank water was poured into sample collection bottles and treated with preservative, if necessary.

Some quality-assurance samples were combined to reduce laboratory costs. For example, the equipment blank was collected on the first day of the field trip and transported with the environmental samples until shipment of the last sample, thus combining the trip and equipment blank, or the ambient blank was collected at the first environmental site of the field trip using the field equipment and was transported with the environmental samples until shipment of the last sample, thus combining the ambient equipment and trip blank.

The minimum concentration of an analyte that can be reliably measured and reported by the laboratory is the minimum reporting level. Cadmium, copper, lead, mercury, molybdenum, selenium, and vanadium were not detected at or above their respective minimum reporting levels in 17 blank samples (table 13), indicating no contamination of environmental samples during the sample collection process for these constituents.

Arsenic, boron, chromium, magnesium, sodium, and potassium were detected at very low concentrations in 6 to 12 percent of the blank samples; fluoride, bromide, zinc, calcium, sulfate, chloride, alkalinity, and dissolved solids were detected in 18 to 88 percent of the blanks (table 13). Environmental samples with constituent concentrations equal to or less than those found in the blank may not be representative of the environment, but may indicate contamination added during the sample collection and handling process. Environmental samples with constituent concentrations significantly greater than those found in the blank may be considered representative of the environment, although a small amount of the constituent present may be due to the sampling process.

Sulfate was detected in 6 of 10 blanks that used Albuquerque Field Office Laboratory deionized water, but not in any of the blanks that used the specially prepared inorganic-blank water. This indicates that the Albuquerque deionized water may be the source of the small amount of sulfate contamination.

The purpose of a sequential duplicate was to assess the reproducibility of data. The sequential duplicate was a second sample collected at the site. It was collected immediately after the first sample using the same procedures and handling as the first sample.

Ten sets of sequential duplicate samples were analyzed (table 3). The relative percent difference (eq. 2) of analytes for these sequential duplicates is generally 5 percent or less.

Relative percent difference of duplicates =
((concentration of first duplicate - concentration of second duplicate) / (2)
(concentration of first duplicate + concentration of second duplicate) / 2) x 100.

One exception is the sample collected at West Hammond Pond near Bloomfield (site 22) on July 20, 1994. The difference in these two sequential duplicates is believed to show variation due to stratification. Although this pond is less than 5 feet deep, the water at this pond may have been stratified and different strata may have been sampled on July 20, 1994.

The NWQL provided quality control of analyses performed within their facilities. Results are available upon request from the NWQL. Standard quality-control procedures used by the NWQL were described by Friedman and Erdmann (1982) and Jones (1987).

Bottom Sediment

Team members collected one type of quality-assurance sample each field trip for which bottom-sediment samples were collected. A sequential duplicate sample was collected from the bottom sediment at a randomly chosen site. The sample was collected immediately after the first sample and handled in the same manner as the first sample. Duplicate samples are listed with environmental samples in table 6. Six of 64 samples were duplicate analyses. The relative percent differences (eq. 2) for bismuth, cadmium, europium, gold, holmium, mercury, silver, tantalum, tin, and uranium were 0, largely because these elements were below their minimum reporting limits in all duplicate samples. The largest relative percent difference was 67 percent for ytterbium. Other elements had relative percent differences between 0 and 48 percent. Selenium was the most variable of these.

The USGS Branch of Geochemistry provided quality control of analyses performed within their facilities. The quality-assurance and quality-control procedures were described by Arbogast (1990).

Soil

Quality assurance of soil sampling included the following procedures: (1) deionized distilled water used to decontaminate sampling equipment was collected from the polypropylene water-supply tank during the field work and analyzed and (2) one rinseate from the split-spoon sampler, after decontamination of the split spoon, was collected and analyzed. Zinc was present at a concentration of 8.25 micrograms per liter (µg/L) in the split-spoon rinse water. Because the levels of soluble zinc found in the soil samples were not elevated relative to 8.25 µg/L, this value above the reporting level is of little or no concern.

Laboratory quality control of soil samples was provided by inserting standard reference materials (SRM's) into the sample queue. Ten percent of the samples analyzed were reference samples. The results were within acceptable limits for all constituents analyzed. The BOR laboratories operate in accordance with agency quality-assurance guidelines (Bureau of Reclamation, 1991).

Biota

The quality of the chemical analyses of biological samples was assured through the PACF Quality Assurance Program. The precision and accuracy of laboratory analyses were confirmed with procedural blanks, duplicate analyses, test recoveries of spiked material, and reference-material analyses. Round-robin tests among USFWS and contract analytical laboratories also were part of the PACF quality assurance review.

Method accuracy was assessed through the analysis of method blanks, spiked samples, and SRM's. Method blanks (empty vessels processed as samples) measure the degree of contamination resulting from the analytical procedure. Sample data were acceptable when the analyte concentration detected in the blank was less than 10 percent of the concentration in the samples. Spiked samples (a known concentration of analyte added to a second portion of a sample) were used to quantify method accuracy. Spike data were acceptable when the percent recovery was between 70 and 130 percent. As a further check on method accuracy, SRM's (oyster tissue and peach and citrus leaves) were obtained from the National Institute of Standards and Technology (NIST) and analyzed for metals. NIST certified the concentrations of metals in these SRM's. SRM data were acceptable when recoveries were between 70 and 130 percent.

Method precision was assessed by duplicate sample analysis. Two separate portions of the same sample were prepared and analyzed independently. Precision was acceptable when the average relative percent difference (eq. 2) was less than or equal to 20 percent.

Results of quality-control samples were within the previously stated acceptable ranges. Quality-control data for selenium analyses are presented in table 14 because selenium was the focus of interest and controversy for this study area. Results that are below the reporting limit are preceded by a < symbol. Note that the reporting limit varied according to the sample weight submitted, the type of sample, and the laboratory batch in which it was analyzed.

Semipermeable-Membrane Devices

Field blanks and duplicates provided a measure of data quality for field and laboratory procedures during the deployment of SPMD's. Lower molecular weight PAH's were found to be omnipresent contaminants in the blanks. Even lower levels of these PAH's, however, were found in the deployed SPMD's. Total PAH's of duplicate analyses differ by less than 5 percent. Reproducibility for specific PAH's was usually within 10 percent even when analyte concentrations were near the instrument detection limit.

SUPPLEMENTAL DATA

The BIA and its contractor (Keller-Bliesner Engineering) collected water and biological samples from 1991 through 1995 in association with the Navajo Indian Irrigation Project. Many of these samples were collected at sites that were within the National Irrigation Water-Quality Program for the San Juan River study area. Figure 3 is a map showing locations of sites where supplemental data were collected within the San Juan River area. Table 15 provides site names and latitude and longitude locations for the sampling sites, and table 16 provides information about the supplemental biological samples. The physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples are reported in table 17. Table 18 presents the results of the trace-element analyses. Quality-control data for selenium analyses are presented in table 19.

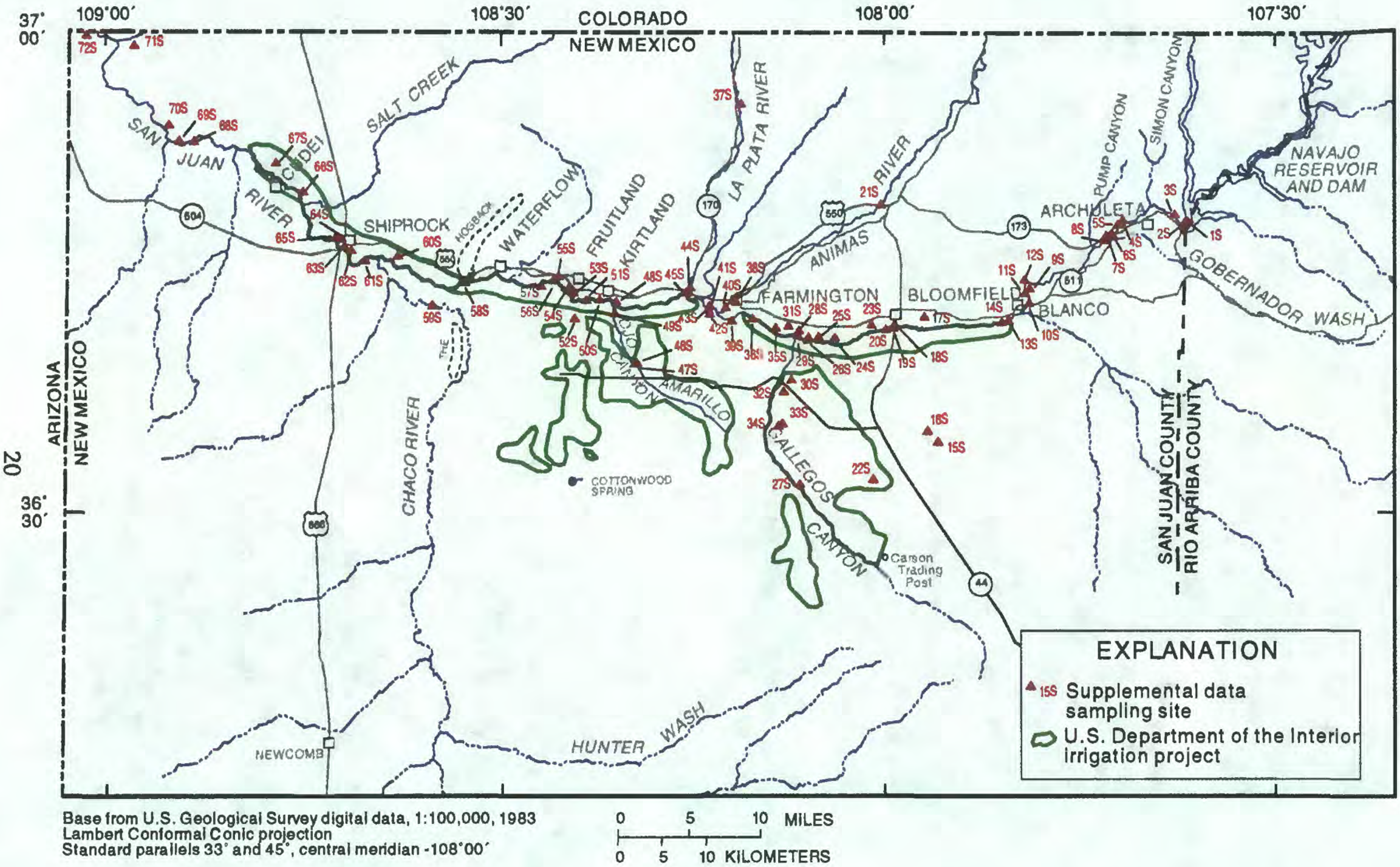

Figure 3.--Location of sampling sites where supplemental water and biological data were collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95.

ACCESS TO DATA

Water and bottom-sediment data are on file in the New Mexico District Office of the USGS, Water Resources Division. Inquiries may be directed to:

District Chief
U.S. Geological Survey, Water Resources Division
4501 Indian School Road NE, Suite 200
Albuquerque, NM 87110-3929

Soil data are on file with the BOR in Denver, Colorado. Inquiries may be directed to:

Technical Service Center
Bureau of Reclamation
Land Suitability and Water Quality Group
PO Box 25007
Denver, CO 80225-0007
Attention: D-8250

Biological data are on file with the USFWS New Mexico Ecological Services Field Office. Inquiries may be directed to:

Environmental Contaminants Specialist or Field Supervisor
U.S. Fish and Wildlife Service
New Mexico Ecological Services Field Office
2105 Osuna NE
Albuquerque, NM 87113

Supplemental water and biological data published in this report were provided by Keller-Bliesner Engineering. These data are on file with Keller-Bliesner Engineering. Inquiries may be directed to:

Ron D. Bliesner
Keller-Bliesner Engineering
78 East Center Street
Logan, UT 84321-4619

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PHYSICAL, CHEMICAL, AND BIOLOGICAL DATA

Table 1.--Sampling sites for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94

[All sites are in New Mexico; NIIP, Navajo Indian Irrigation Project; --, no data]

Site number (fig. 2)	Site name	U.S. Geological Survey station number[1]	Site latitude	Site longitude	Habitat
1	San Juan River 300 feet below dam near Archuleta	364817107365810	36°48'17" N	107°36'58" W	San Juan River
2	Pond on north bench San Juan River 0.6 mile below dam near Archuleta	364835107370410	36°48'35" N	107°37'04" W	Pond
3	Backwater south of San Juan River 0.9 mile below dam near Archuleta	364820107373410	36°48'20" N	107°37'34" W	Backwater
4	San Juan River at Texas Hole 1.4 miles below dam near Archuleta	--	36°49'03" N	107°37'46" W	San Juan River
5	Backwater south of San Juan River 3.1 miles below dam near Archuleta	364919107385710	36°49'19" N	107°38'57" W	Backwater
6	San Juan River at Simon Canyon 3.5 miles below dam near Archuleta	--	36°48'45" N	107°39'53" W	San Juan River
7	Dug hole at Simon Canyon at San Juan River near Archuleta	364923107393501	36°49'23" N	107°39'35" W	San Juan River tributary
8	Dug hole at Gobernador Wash at Highway 511 near Archuleta	364747107423001	36°47'47" N	107°42'30" W	San Juan River tributary
9	Dug hole at Pump Canyon at Highway 173 near Archuleta	364704107440701	36°47'04" N	107°44'07" W	San Juan River tributary
10	San Juan River at Pump Canyon 9.5 miles below dam near Archuleta	--	36°46'50" N	107°42'58" W	San Juan River
11	San Juan River at Shriner's property 10.6 miles below dam near Archuleta	--	36°46'17" N	107°44'08" W	San Juan River
12	East Hammond Project pond near Blanco	364203107502410	36°42'03" N	107°50'24" W	Pond

Table 1.--Sampling sites for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2)	Site name	U.S. Geological Survey station number[1]	Site latitude	Site longitude	Habitat
13	Hammond Canal at Hammond Conservancy District near Blanco	364125107515110	36°41'25" N	107°51'51" W	Irrigation delivery
14	Hammond Canal above Bloomfield Refinery near Bloomfield	364155107574210	36°41'55" N	107°57'42" W	Irrigation delivery
15	Hammond Canal below Bloomfield Refinery near Bloomfield	364148107584310	36°41'48" N	107°58'43" W	Irrigation delivery
16	Hammond Canal 0.3 mile west of Highway 44 near Bloomfield	364128107594410	36°41'28" N	107°59'44" W	Irrigation delivery
17	East drain at west Hammond pond near Bloomfield	364121108015710	36°41'21" N	108°01'57" W	Irrigation drainage
18	West drain at west Hammond pond near Bloomfield	364122108015810	36°41'22" N	108°01'58" W	Irrigation drainage
19	Irrigation drain at manhole 800 feet above west Hammond pond near Bloomfield	364108108020310	36°41'08" N	108°02'03" W	Irrigation drainage
20	Irrigation drain at manhole 500 feet above west Hammond pond near Bloomfield	364112108015810	36°41'12" N	108°01'58" W	Irrigation drainage
21	Irrigation drain at manhole 200 feet above west Hammond pond near Bloomfield	364115108015810	36°41'15" N	108°01'58" W	Irrigation drainage
22	West Hammond pond near Bloomfield	364121108020010	36°41'21" N	108°02'00" W	Pond
23	Gallegos Canyon near Carson Trading Post	09357245	36°27'23" N	108°00'15" W	San Juan River tributary
24	Dug hole at Gallegos Canyon near Carson Trading Post	362723108001501	36°27'23" N	108°00'15" W	San Juan River tributary
25	NIIP irrigation-supply canal 0.2 mile south of Highway N3003 near Bloomfield	363625108052510	36°36'25" N	108°05'25" W	Irrigation delivery

Table 1.--Sampling sites for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2)	Site name	U.S. Geological Survey station number[1]	Site latitude	Site longitude	Habitat
26	Center pivot sprinkler near Gallegos Canyon drainage middle pond near Farmington	363840108065510	36°38'40" N	108°06'55" W	Irrigation delivery
27	Southeast seep to Gallegos Canyon drainage middle pond near Farmington	363841108070010	36°38'41" N	108°07'00" W	Seep
28	South seep to Gallegos Canyon drainage middle pond near Farmington	363841108070110	36°38'41" N	108°07'01" W	Seep
29	Gallegos Canyon drainage middle pond near Farmington	363841108070210	36°38'41" N	108°07'02" W	Pond
30	Gallegos Canyon near Farmington	09357255	36°41'27" N	108°06'32" W	San Juan River tributary
31	East seep to Ojo Amarillo Canyon drainage southwest pond near Farmington	363947108190310	36°39'47" N	108°19'03" W	Seep
32	Ojo Amarillo Canyon drainage north pond near Farmington	363947108190311	36°39'47" N	108°19'03" W	Pond
33	Northeast seep to Ojo Amarillo Canyon drainage north pond near Farmington	363941108190410	36°39'41" N	108°19'04" W	Seep
34	Ojo Amarillo Canyon drainage southwest pond near Farmington	363943108190610	36°39'43" N	108°19'06" W	Pond
35	Ojo Amarillo Canyon near Fruitland	09367536	36°42'38" N	108°20'35" W	San Juan River tributary
36	Fruitland irrigation drain 300 feet above wetland, near Fruitland	364332108223410	36°43'32" N	108°22'34" W	Irrigation drainage
37	Fruitland irrigation drain at wetland near Fruitland	364333108223410	36°43'33" N	108°22'34" W	Irrigation drainage

Table 1.--Sampling sites for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2)	Site name	U.S. Geological Survey station number[1]	Site latitude	Site longitude	Habitat
38	Secondary channel of San Juan River near Kirtland	364345108222210	36°43'45" N	108°22'22" W	Backwater
39	Pond at Cottonwood Spring near Newcomb	363209108242410	36°32'09" N	108°24'24" W	Pond
40	Stock tank at Cottonwood Spring near Newcomb	363209108242411	36°32'09" N	108°24'24" W	Stock tank
41	Seep at Cottonwood Spring near Newcomb	363209108242510	36°32'09" N	108°24'25" W	Seep
42	San Juan River backwater at Hogback Diversion Dam near Waterflow	364442108315910	36°44'42" N	108°31'59" W	Backwater
43	Pond draining Fruitland Irrigation Project at Hogback near Waterflow	364439108320610	36°44'39" N	108°32'06" W	Pond
44	East hogback irrigation drain 0.7 mile above San Juan River near Waterflow	364532108350210	36°45'32" N	108°35'02" W	Irrigation drainage
45	Hogback irrigation-supply canal near Waterflow	364545108350610	36°45'45" N	108°35'06" W	Irrigation delivery
46	Leaking well near Waterflow	364527108352001	36°45'27" N	108°35'20" W	Well
47	East hogback irrigation drain 0.4 mile above San Juan River near Waterflow	364527108352010	36°45'27" N	108°35'20" W	Irrigation drainage
48	East hogback irrigation drain 0.2 mile above San Juan River near Waterflow	364524108353210	36°45'24" N	108°35'32" W	Irrigation drainage
49	East hogback irrigation drain 300 feet above San Juan River near Waterflow	364524108354110	36°45'24" N	108°35'41" W	Irrigation drainage
50	Salt Creek at highway bridge near Shiprock	364932108433210	36°49'32" N	108°43'32" W	San Juan River tributary
51	Cudei irrigation canal at turnout from San Juan River near Cudei	365021108444710	36°50'21" N	108°44'47" W	Irrigation delivery

Table 1.--Sampling sites for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Concluded

Site number (fig. 2)	Site name	U.S. Geological Survey station number[1]	Site latitude	Site longitude	Habitat
52	Cudei irrigation drain near Cudei	365210108475310	36°52'10" N	108°47'53" W	Irrigation drainage
HB1-1	Hogback Irrigation Project site 1	--	36°45'28" N	108°35'02" W	Irrigation drainage
HB2-1,2	Hogback Irrigation Project reference site	--	36°45'32" N	108°35'06" W	--
HB3-1,2	Hogback Irrigation Project site 3	--	36°45'33" N	108°35'00" W	Irrigation drainage
HB4-1,2	Hogback Irrigation Project site 4	--	36°45'40" N	108°34'58" W	Irrigation drainage
HU1-1,2	Hammond Irrigation Project site 1	--	36°41'12" N	108°01'50" W	Irrigation drainage
HU2-1,2,3,4	Hammond Irrigation Project site 2	--	36°40'56" N	108°01'55" W	Irrigation drainage
HU3-1,2	Hammond Irrigation Project reference site	--	36°41'17" N	108°01'46" W	--
HU4-1,2	Hammond Irrigation Project site 4	--	36°41'14" N	108°01'34" W	Irrigation drainage
HU5-1,2,3	Hammond Irrigation Project site 5	--	36°41'15" N	108°01'29" W	Irrigation drainage

[1]U.S. Geological Survey station number is a unique identifier used in the U.S. Geological Survey's Water-Data Storage and Retrieval System (WATSTORE) electronic data base and is composed of 15 or 8 digits. An eight-digit station number is the downstream order number assigned to a U.S. Geological Survey streamflow-gaging station.

Table 2.--Information for biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94

[Taxon, scientific name, order, family, and so on; N, number of individuals in sample; cm, centimeters; trophic, feeding guild; position, predominant position in the ecosystem; analyses, analyses conducted on the sample: I, inorganic; I/O, inorganic and organic; --, no data]

Site number (fig. 2, table 1)	Sample identification number	Date	Laboratory number	Sample weight (grams)	Type of sample	Common name	Taxon
2	SJ01IB1	08-25-93	52	28.5	Whole body	Dragonfly larvae	*Anax spp*
2	SJ01IB2	08-25-93	52	28.9	Whole body	Snail	Gastropoda
2	SJ01INK	08-25-93	52	7.6	Whole body	Waterboatmen	Corixidae
2	SJ01PA	08-25-93	52	36.3	Whole plant	Algae	Chlorophyta
2	SJ01PM1	08-25-93	52	78.1	Part plant	Coontail	*Ceratophyllum demersum*
2	SJ01PM2	08-25-93	52	92.8	Part plant	Cattail	*Typha spp*
2	SR01IB1	07-26-94	58	30	Whole body	Dragonfly/damselfly larvae	Odonata
2	SR01IB2	07-26-94	58	45	Whole body	Snail	Gastropoda
2	SR01INK	07-26-94	58	12	Whole body	Waterboatmen	Corixidae
2	SR01PM1	07-26-94	58	100	Part plant	Coontail	Ceratophyllum demersum
2	SR01PM2	07-26-94	58	100	Part plant	Cattail	*Typha spp*
3	SJ04FBF1	08-23-93	52	6,775	Whole body	Common carp	*Cyprinus carpio*
3	SJ04FBF2	08-23-93	52	5,216	Whole body	Common carp	*Cyprinus carpio*
3	SJ04FBF3	08-23-93	52	8,610	Whole body	Common carp	*Cyprinus carpio*
3	SJ04FFS1	08-23-93	52	109.5	Whole body	Common carp	*Cyprinus carpio*
3	SJ04FFS2	08-23-93	52	10.8	Whole body	Fathead minnow	*Pimephales promelas*
3	SJ04FFS3	08-23-93	52	18.9	Whole body	Western mosquitofish	*Gambusia affinis*
3	SJ04IB	08-23-93	52	5.3	Whole body	Damselfly larvae	*Enallagma spp*
3	SJ04INK	08-23-93	52	2.9	Whole body	Backswimmers	*Notonecta spp*
3	SJ04OV	08-23-93	52	33.2	Whole body	Northern leopard frog	*Rana pipiens*
3	SJ04PA	08-23-93	52	49	Whole plant	Algae	Chlorophyta
3	SJ04PM1	08-23-93	52	47.7	Part plant	Coontail	*Ceratophyllum demersum*
3	SJ04PM2	08-23-93	52	35.3	Part plant	Cattail	*Typha spp*
3	SR04OV	07-19-94	58	22	Whole body	Northern leopard frog	*Rana pipiens*
3	SR04FBF	07-19-94	58	8,157.2	Whole body	Common carp	*Cyprinus carpio*
3	SR04FFS	07-19-94	58	4	Whole body	Fathead minnow	*Pimephales promelas*
3	SR04IB1	07-19-94	58	10	Whole body	Unknown	Osteichthyes
3	SR04IB2	07-19-94	58	6	Whole body	Snail	Gastropoda
3	SR04PA	07-19-94	58	40	Whole plant	Algae	Chlorophyta
4	SJ02FF1	08-23-93	52	102.1	Fillet	Brown trout	*Salmo trutta*
4	SJ02FF2	08-23-93	52	228	Fillet	Rainbow trout	*Oncorhynchus mykiss*
4	SJ02FF3	08-23-93	52	299.8	Fillet	Rainbow trout	*Oncorhynchus mykiss*
4	SJ02FF4	08-23-93	52	347.1	Fillet	Rainbow trout	*Oncorhynchus mykiss*
4	SJ02FF5	08-23-93	52	395.7	Fillet	Rainbow trout	*Oncorhynchus mykiss*
4	SJ02FFS1	08-23-93	52	5.5	Whole body	Western mosquitofish	*Gambusia affinis*
4	SJ02FFS2	08-23-93	52	24.3	Whole body	Rainbow trout	*Oncorhynchus mykiss*
4	SJ02FI1	08-23-93	52	1,050.0	Integrated fish	Brown trout	*Salmo trutta*
4	SJ02FI2	08-23-93	52	5,698.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
4	SJ02FI3	08-23-93	52	4,054.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
4	SJ02FI4	08-23-93	52	6,691.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
4	SJ02FI5	08-23-93	52	5,641.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
4	SJ02FP1	08-23-93	52	947.9	Part body	Brown trout	*Salmo trutta*
4	SJ02FP2	08-23-93	52	5,470	Part body	Rainbow trout	*Oncorhynchus mykiss*
4	SJ02FP3	08-23-93	52	3,754.2	Part body	Rainbow trout	*Oncorhynchus mykiss*

Table 2.--Information for biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Laboratory number	Sample weight (grams)	Type of sample	Common name	Taxon
4	SJ02FP4	08-23-93	52	6,343.9	Part body	Rainbow trout	*Oncorhynchus mykiss*
4	SJ02FP5	08-23-93	52	5,245.3	Part body	Rainbow trout	*Oncorhynchus mykiss*
4	SJ02IB1	08-23-93	52	13.8	Whole body	Snail	Gastropoda
4	SJ02IB2	08-23-93	52	15.4	Whole body	Roundworm	Oligochaeta
4	SJ02INK	08-23-93	52	1.4	Whole body	Diving beetle	Hemiptera
4	SJ02PA	08-23-93	52	40.9	Whole plant	Algae	Chlorophyta
4	SJ02PM	08-23-93	52	47.4	Whole plant	Unknown	Plantae
4	SR02FF01	07-18-94	58	170.3	Fillet	Brown trout	*Salmo trutta*
4	SR02FF02	07-18-94	58	11.1	Fillet	Brown trout	*Salmo trutta*
4	SR02FF03	07-18-94	58	103.0	Fillet	Rainbow trout	*Oncorhynchus mykiss*
4	SR02FF04	07-18-94	58	20.9	Fillet	Rainbow trout	*Oncorhynchus mykiss*
4	SR02FF05	07-18-94	58	200.0	Fillet	Rainbow trout	*Oncorhynchus mykiss*
4	SR02FFS	07-18-94	58	33	Whole body	Rainbow trout	*Oncorhynchus mykiss*
4	SR02FI01	07-18-94	58	1,822.7	Integrated fish	Brown trout	*Salmo trutta*
4	SR02FI02	07-18-94	58	149.4	Integrated fish	Brown trout	*Salmo trutta*
4	SR02FI03	07-18-94	58	1,383.7	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
4	SR02FI04	07-18-94	58	236.3	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
4	SR02FI05	07-18-94	58	4,365.3	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
4	SR02FP01	07-18-94	58	1,652.4	Part body	Brown trout	*Salmo trutta*
4	SR02FP02	07-18-94	58	138.3	Part body	Brown trout	*Salmo trutta*
4	SR02FP03	07-18-94	58	1,280.7	Part body	Rainbow trout	*Oncorhynchus mykiss*
4	SR02FP04	07-18-94	58	215.4	Part body	Rainbow trout	*Oncorhynchus mykiss*
4	SR02FP05	07-18-94	58	4,165.1	Part body	Rainbow trout	*Oncorhynchus mykiss*
4	SR02IB1	07-18-94	58	28	Whole body	Snail	Gastropoda
4	SR02IB2	07-18-94	58	16	Whole body	Segmented worm	Annelida
4	SR02PA	07-18-94	58	53	Whole plant	Algae	Chlorophyta
5	SJ05FBF	08-24-93	52	928	Whole body	Common carp	*Cyprinus carpio*
5	SJ05FF1	08-24-93	52	180	Fillet	Brown trout	*Salmo trutta*
5	SJ05FF2	08-24-93	52	358.1	Fillet	Rainbow trout	*Oncorhynchus mykiss*
5	SJ05FF3	08-24-93	52	144.2	Fillet	Rainbow trout	*Oncorhynchus mykiss*
5	SJ05FF4	08-24-93	52	229.4	Fillet	Rainbow trout	*Oncorhynchus mykiss*
5	SJ05FF5	08-24-93	52	191.4	Fillet	Rainbow trout	*Oncorhynchus mykiss*
5	SJ05FF6	08-24-93	52	153.6	Fillet	Rainbow trout	*Oncorhynchus mykiss*
5	SJ05FFS	08-24-93	52	10.1	Whole body	Fathead minnow	*Pimephales promelas*
5	SJ05FI1	08-24-93	52	1,729.0	Integrated fish	Brown trout	*Salmo trutta*
5	SJ05FI2	08-24-93	52	5,046.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
5	SJ05FI3	08-24-93	52	1,587.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
5	SJ05FI4	08-24-93	52	3,206.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
5	SJ05FI5	08-24-93	52	3,147.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
5	SJ05FI6	08-24-93	52	1,985.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
5	SJ05FP1	08-24-93	52	1,549	Part body	Brown trout	*Salmo trutta*
5	SJ05FP2	08-24-93	52	1,687.9	Part body	Rainbow trout	*Oncorhynchus mykiss*
5	SJ05FP3	08-24-93	52	1,442.8	Part body	Rainbow trout	*Oncorhynchus mykiss*
5	SJ05FP4	08-24-93	52	2,976.6	Part body	Rainbow trout	*Oncorhynchus mykiss*
5	SJ05FP5	08-24-93	52	2,955.6	Part body	Rainbow trout	*Oncorhynchus mykiss*
5	SJ05FP6	08-24-93	52	1,831.4	Part body	Rainbow trout	*Oncorhynchus mykiss*
5	SJ05IB	08-24-93	52	5.9	Whole body	Dragonfly/damselfly larvae	Odonata
5	SJ05INK	08-24-93	52	19.5	Whole body	Waterboatmen	Corixidae
5	SJ05PA	08-24-93	52	44.4	Whole plant	Algae	Chlorophyta

Table 2.--Information for biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Laboratory number	Sample weight (grams)	Type of sample	Common name	Taxon
5	SJ05PM1	08-24-93	52	40.3	Part plant	Coontail	*Ceratophyllum demersum*
5	SJ05PM2	08-24-93	52	82.7	Part plant	Cattail	*Typha spp*
5	SJ05PM3	08-24-93	52	34.2	Whole plant	Duckweed	*Potamogeton spp*
5	SR05FPS1	07-19-94	58	8	Whole body	Common carp	*Cyprinus carpio*
5	SR05FPS2	07-19-94	58	28	Whole body	Fathead minnow	*Pimephales promelas*
5	SR05IB	07-19-94	58	21.3	Whole body	Damselfly larvae	*Enallagma spp*
5	SR05PA	07-19-94	58	28	Whole plant	Algae	Chlorophyta
6	SJ03FF1	08-23-93	52	293.4	Fillet	Brown trout	*Salmo trutta*
6	SJ03FF2	08-23-93	52	341.2	Fillet	Rainbow trout	*Oncorhynchus mykiss*
6	SJ03FF3	08-23-93	52	264.1	Fillet	Rainbow trout	*Oncorhynchus mykiss*
6	SJ03FFS	08-23-93	52	2.9	Whole body	Brown trout	*Salmo trutta*
6	SJ03FI1	08-23-93	52	2,694.0	Integrated fish	Brown trout	*Salmo trutta*
6	SJ03FI2	08-23-93	52	5,640.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
6	SJ03FI3	08-23-93	52	4,054.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
6	SJ03FP1	08-23-93	52	2,400.6	Part body	Brown trout	*Salmo trutta*
6	SJ03FP2	08-23-93	52	5,298.8	Part body	Rainbow trout	*Oncorhynchus mykiss*
6	SJ03FP3	08-23-93	52	3,789.9	Part body	Rainbow trout	*Oncorhynchus mykiss*
6	SJ03IB	08-23-93	52	34.7	Whole body	Midge larvae	*Tendipes spp*
6	SJ03OV	08-23-93	52	17.2	Whole body	Northern leopard frog	*Rana pipiens*
6	SJ03PA	08-23-93	52	74.2	Whole plant	Algae	Chlorophyta
6	SJ03PM	08-23-93	52	118	Part plant	Cattail	*Typha spp*
6	SR03FF01	07-19-94	58	314	Fillet	Rainbow trout	*Oncorhynchus mykiss*
6	SR03FFS1	07-19-94	58	41	Whole body	Fathead minnow	*Pimephales promelas*
6	SR03FFS2	07-19-94	58	4	Whole body	Western mosquitofish	*Gambusia affinis*
6	SR03FI01	07-19-94	58	6,429.6	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
6	SR03FP01	07-19-94	58	6,115.6	Part body	Rainbow trout	*Oncorhynchus mykiss*
6	SR03IB1	07-19-94	58	10	Whole body	Mayfly larvae	Ephemeroptera
6	SR03IB2	07-19-94	58	42	Whole body	Snail	Gastropoda
6	SR03PA	07-19-94	58	32	Whole plant	Algae	Chlorophyta
10	SJ06FF1	08-24-93	52	178.3	Fillet	Rainbow trout	*Oncorhynchus mykiss*
10	SJ06FF2	08-24-93	52	184.1	Fillet	Rainbow trout	*Oncorhynchus mykiss*
10	SJ06FF3	08-24-93	52	52.3	Fillet	Rainbow trout	*Oncorhynchus mykiss*
10	SJ06FF4	08-24-93	52	48.1	Fillet	Brown trout	*Salmo trutta*
10	SJ06FF5	08-24-93	52	18.3	Fillet	Brown trout	*Salmo trutta*
10	SJ06FFS	08-24-93	52	23.3	Whole body	Rainbow/brown trout	*Oncorhynchus mykiss/Salmo trutta*
10	SJ06FI1	08-24-93	52	3,459.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
10	SJ06FI2	08-24-93	52	2,170.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
10	SJ06FI3	08-24-93	52	538.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
10	SJ06FI4	08-24-93	52	567.0	Integrated fish	Brown trout	*Salmo trutta*
10	SJ06FI5	08-24-93	52	185.0	Integrated fish	Brown trout	*Salmo trutta*
10	SJ06FP1	08-24-93	52	3,280.7	Part body	Rainbow trout	*Oncorhynchus mykiss*
10	SJ06FP2	08-24-93	52	1,985.9	Part body	Rainbow trout	*Oncorhynchus mykiss*
10	SJ06FP3	08-24-93	52	485.7	Part body	Rainbow trout	*Oncorhynchus mykiss*
10	SJ06FP4	08-24-93	52	518.9	Part body	Brown trout	*Salmo trutta*
10	SJ06FP5	08-24-93	52	166.7	Part body	Brown trout	*Salmo trutta*
10	SJ06IB	08-24-93	52	43.9	Whole body	Segmented worm	Annelida
10	SJ06PA	08-24-93	52	74.4	Whole plant	Algae	Chlorophyta
10	SR06FF01	07-18-94	58	340.0	Fillet	Rainbow trout	*Oncorhynchus mykiss*
10	SR06FF02	07-18-94	58	375.8	Fillet	Brown trout	*Salmo trutta*
10	SR06FF03	07-18-94	58	17.0	Fillet	Brown trout	*Salmo trutta*

Table 2.--Information for biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Laboratory number	Sample weight (grams)	Type of sample	Common name	Taxon
10	SR06FF04	07-18-94	58	29.8	Fillet	Rainbow trout	*Oncorhynchus mykiss*
10	SR06FI01	07-18-94	58	4,212.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
10	SR06FI02	07-18-94	58	3,800.0	Integrated fish	Brown trout	*Salmo trutta*
10	SR06FI03	07-18-94	58	169.0	Integrated fish	Brown trout	*Salmo trutta*
10	SR06FI04	07-18-94	58	250.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
10	SR06FP01	07-18-94	58	3,872.0	Part body	Rainbow trout	*Oncorhynchus mykiss*
10	SR06FP02	07-18-94	58	3,424.2	Part body	Brown trout	*Salmo trutta*
10	SR06FP03	07-18-94	58	152.0	Part body	Brown trout	*Salmo trutta*
10	SR06FP04	07-18-94	58	220.2	Part body	Rainbow trout	*Oncorhynchus mykiss*
10	SR06IB	07-18-94	58	14	Whole body	Mayfly larvae	Ephemeroptera
10	SR06PA	07-18-94	58	46	Whole plant	Algae	Chlorophyta
11	SJ07FF1	08-24-93	52	411.3	Fillet	Brown trout	*Salmo trutta*
11	SJ07FF2	08-24-93	52	108.8	Fillet	Rainbow trout	*Oncorhynchus mykiss*
11	SJ07FF3	08-24-93	52	191.8	Fillet	Rainbow trout	*Oncorhynchus mykiss*
11	SJ07FF4	08-24-93	52	20.6	Fillet	Rainbow trout	*Oncorhynchus mykiss*
11	SJ07FF5	08-24-93	52	42.5	Fillet	Brown trout	*Salmo trutta*
11	SJ07FFS1	08-24-93	52	26.5	Whole body	Fathead/western mosquitofish	*Pimephales promelas/ Gambusia affinis*
11	SJ07FFS2	08-24-93	52	30.8	Whole body	Brown trout	*Salmo trutta*
11	SJ07FI1	08-24-93	52	4,933.0	Integrated fish	Brown trout	*Salmo trutta*
11	SJ07FI2	08-24-93	52	1,389.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
11	SJ07FI3	08-24-93	52	2,806.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
11	SJ07FI4	08-24-93	52	4,536.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
11	SJ07FI5	08-24-93	52	7,939.0	Integrated fish	Brown trout	*Salmo trutta*
11	SJ07FP1	08-24-93	52	4,521.7	Part body	Brown trout	*Salmo trutta*
11	SJ07FP2	08-24-93	52	1,280.2	Part body	Rainbow trout	*Oncorhynchus mykiss*
11	SJ07FP3	08-24-93	52	2,614.2	Part body	Rainbow trout	*Oncorhynchus mykiss*
11	SJ07FP4	08-24-93	52	4,515.4	Part body	Rainbow trout	*Oncorhynchus mykiss*
11	SJ07FP5	08-24-93	52	7,896.5	Part body	Brown trout	*Salmo trutta*
11	SJ07IB	08-24-93	52	22.3	Whole body	Midge larvae	Chironomidae
11	SJ07PA	08-24-93	52	71.1	Whole plant	Algae	Chlorophyta
11	SJ07PM	08-24-93	52	43.1	Part plant	Cattail	*Typha spp*
11	SR07FF01	07-18-94	58	258.1	Fillet	Brown trout	*Salmo trutta*
11	SR07FF02	07-18-94	58	356.7	Fillet	Rainbow trout	*Oncorhynchus mykiss*
11	SR07FF03	07-18-94	58	29	Fillet	Brown trout	*Salmo trutta*
11	SR07FF04	07-18-94	58	22.5	Fillet	Rainbow trout	*Oncorhynchus mykiss*
11	SR07FI01	07-18-94	58	3,049.0	Integrated fish	Brown trout	*Salmo trutta*
11	SR07FI02	07-18-94	58	3,843.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
11	SR07FI03	07-18-94	58	326.0	Integrated fish	Brown trout	*Salmo trutta*
11	SR07FI04	07-18-94	58	145.0	Integrated fish	Rainbow trout	*Oncorhynchus mykiss*
11	SR07FP01	07-18-94	58	2,790.9	Part body	Brown trout	*Salmo trutta*
11	SR07FP02	07-18-94	58	3,486.3	Part body	Rainbow trout	*Oncorhynchus mykiss*
11	SR07FP03	07-18-94	58	297.0	Part body	Brown trout	*Salmo trutta*
11	SR07FP04	07-18-94	58	122.5	Part body	Rainbow trout	*Oncorhynchus mykiss*
11	SR07IB	07-18-94	58	28.5	Whole body	Mayfly larvae	Ephemeroptera
11	SR07PA	07-18-94	58	51	Whole plant	Algae	Chlorophyta
12	SJ10FFS1	08-19-93	52	29.5	Whole body	Plains killifish	*Fundulus zebrinus*
12	SJ10FFS2	08-19-93	52	10.7	Whole body	Western mosquitofish	*Gambusia affinis*
12	SJ10IB1	08-19-93	52	13.9	Whole body	Dragonfly/damselfly larvae	*Anax spp/Enallagma spp*

Table 2.--Information for biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Laboratory number	Sample weight (grams)	Type of sample	Common name	Taxon
12	SJ10IB2	08-19-93	52	29.7	Whole body	Snail	Gastropoda
12	SJ10INK	08-19-93	52	1.9	Whole body	Waterboatmen	Corixidae
12	SJ10PM1	08-19-93	52	29.6	Whole plant	Unknown	Plantae
12	SJ10PM2	08-19-93	52	59.9	Part plant	Cattail	*Typha spp*
12	SR10FFS	07-20-94	58	6	Whole body	Plains killifish	*Fundulus zebrinus*
12	SR10IB1	07-20-94	58	7	Whole body	Dragonfly/damselfly larvae	Odonata
12	SR10IB2	07-20-94	58	15	Whole body	Snail	Gastropoda
12	SR10PM	07-20-94	58	59	Part plant	Cattail	*Typha spp*
22	SJ11FFS1	08-19-93	53	35.6	Whole body	Western mosquitofish	*Gambusia affinis*
22	SJ11IB1	08-19-93	53	13.1	Whole body	Snail	Gastropoda
22	SJ11IB2	08-19-93	53	20.5	Whole body	Dragonfly/damselfly larvae	Odonata
22	SJ11INK	08-19-93	53	6.8	Whole body	Waterboatmen	Corixidae
22	SJ11PA	08-19-93	53	58.8	Whole plant	Algae	Chlorophyta
22	SJ11PM1	08-19-93	53	84.2	Part plant	Cattail	*Typha spp*
22	SJ11PM2	08-19-93	53	37.2	Part plant	Bullrush	*Scirpus spp*
22	SJ11PM3	08-19-93	53	104.4	Part plant	Unknown	Plantae
22	SR11FFS	07-26-94	58	22	Whole body	Western mosquitofish	*Gambusia affinis*
22	SR11IB1	07-26-94	58	14	Whole body	Dragonfly/damselfly larvae	Odonata
22	SR11IB2	07-26-94	58	20	Whole body	Snail	Gastropoda
22	SR11PA	07-26-94	58	44	Whole plant	Algae	Chlorophyta
22	SR11PM	07-26-94	58	403	Part plant	Coontail	*Ceratophyllum demersum*
29	SRMGIB	07-27-94	59	35	Whole body	Dragonfly larvae	*Anax spp*
29	SRMGPA	07-27-94	59	53	Whole plant	Algae	Chlorophyta
29	SRMGPM	07-27-94	59	102	Part plant	Cattail	*Typha spp*
30	SJ22OV	08-17-93	53	4.8	Whole body	Western spadefoot	*Scaphiopus hammondii*
30	SJ22PA	08-17-93	53	30.8	Whole plant	Algae	Chlorophyta
30	SJ22PM	08-17-93	53	30.9	Part plant	Bullrush	*Scirpus spp*
30	SR22PA	07-20-94	58	27	Whole plant	Algae	Chlorophyta
30	SR22PM	07-20-94	58	40	Part plant	Bullrush	*Scirpus spp*
34	SROAIB	07-21-94	59	10	Whole body	Dragonfly/damselfly larvae	Odonata
34	SROAINK	07-21-94	59	19	Whole body	Backswimmers	*Notonecta spp*
34	SROAOV	07-21-94	59	215	Whole body	Tiger salamander	*Ambystoma tigrinum*
34	SROAPA	07-21-94	59	19	Whole plant	Algae	Chlorophyta
35	SJ23IB	08-10-93	53	7.7	Whole body	Dragonfly larvae	*Anax spp*
35	SJ23INK	08-10-93	53	3.2	Whole body	Backswimmers	*Notonecta spp*
35	SJ23OV	08-10-93	53	8.3	Whole body	Western spadefoot	*Scaphiopus hammondii*
35	SJ23PA	08-10-93	53	57.6	Whole plant	Algae	Chlorophyta
35	SR23IB	07-21-94	58	19	Whole body	Dragonfly/damselfly larvae	Odonata
35	SR23OV1	07-21-94	58	25	Whole body	Western spadefoot	*Scaphiopus hammondii*
35	SR23OV2	07-21-94	58	15	Whole body	Western spadefoot	*Scaphiopus hammondii*
35	SR23PA	07-21-94	58	55	Whole plant	Algae	Chlorophyta

Table 2.--Information for biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Laboratory number	Sample weight (grams)	Type of sample	Common name	Taxon
35	SR23PM	07-21-94	58	137	Part plant	Coontail	*Ceratophyllum demersum*
37	SJ24FFS1	08-18-93	53	10.1	Whole body	Western mosquitofish	*Gambusia affinis*
37	SJ24FFS2	08-18-93	53	26.8	Whole body	Common carp	*Cyprinus carpio*
37	SJ24FFS3	08-18-93	53	58	Whole body	Fathead minnow	*Pimephales promelas*
37	SJ24FFS4	08-18-93	53	30.4	Whole body	Plains killifish	*Fundulus zebrinus*
37	SJ24IB	08-18-93	53	5.3	Whole body	Dragonfly larvae	*Anax spp*
37	SJ24INK	08-18-93	53	1.8	Whole body	Backswimmers	*Notonecta spp*
37	SJ24PA	08-18-93	53	29.4	Whole plant	Algae	Chlorophyta
37	SJ24PM1	08-18-93	53	182.7	Part plant	Cattail	*Typha spp*
37	SJ24PM2	08-18-93	53	131	Part plant	Coontail	*Ceratophyllum demersum*
37	SR24FBF	07-21-94	58	2,240	Whole body	Common carp	*Cyprinus carpio*
37	SR24FFS1	07-21-94	58	24	Whole body	Plains killifish	*Fundulus zebrinus*
37	SR24FFS2	07-21-94	58	78	Whole body	Fathead minnow	*Pimephales promelas*
37	SR24IB1	07-21-94	58	14	Whole body	Dragonfly/damselfly larvae	Odonata
37	SR24IB2	07-21-94	58	10	Whole body	Crayfish	*Orconectes spp*
37	SR24OV	07-21-94	58	70	Whole body	Bullfrog tadpole	*Rana catesbeiana*
37	SR24PA	07-21-94	58	26	Whole plant	Algae	Chlorophyta
37	SR24PM1	07-21-94	58	75	Part plant	Coontail	*Ceratophyllum demersum*
37	SR24PM2	07-21-94	58	102	Part plant	Cattail	*Typha spp*
38	SJ32FFS1	08-12-93	53	6.9	Whole body	Unknown	Osteichthyes
38	SJ32FFS2	08-12-93	53	19.9	Whole body	Fathead minnow	*Pimephales promelas*
38	SJ32FFS3	08-12-93	53	35.1	Whole body	Fathead minnow	*Pimephales promelas*
38	SJ32IB	08-12-93	53	13.1	Whole body	Dragonfly larvae	*Anax spp*
38	SJ32PA2	08-12-93	53	36.5	Whole plant	Algae	Chlorophyta
38	SR32FBF	07-27-94	59	385	Whole body	Flannelmouth sucker	*Catostomus latipinnis*
38	SR32FFS	07-27-94	59	52	Whole body	Longnose dace	*Rhinichthys cataractae*
38	SR32IB	07-27-94	59	13	Whole body	Dragonfly larvae	*Anax spp*
38	SR32PA	07-27-94	59	108	Whole plant	Algae	Chlorophyta
39	SJ18INK	08-17-93	53	18.9	Whole body	Waterboatmen	Corixidae
39	SJ18PA	08-17-93	53	289.9	Whole plant	Algae	Chlorophyta
39	SR18PA	07-21-94	58	98	Whole plant	Algae	Chlorophyta
39	SR18PM	07-21-94	58	69	Part plant	Coontail	*Ceratophyllum demersum*
39	SR19INK	07-21-94	58	10	Whole body	Backswimmers	*Notonecta spp*
39	SR19OV	07-21-94	58	140	Whole body	Tiger salamander	*Ambystoma tigrinum*
42	SJ33FFS1	08-12-93	53	10.8	Whole body	Western mosquitofish	*Gambusia affinis*
42	SJ33FFS2	08-12-93	53	21.9	Whole body	Fatheads/suckers	*Pimephales promelas/ Catostomus spp*
42	SJ33FFS3	08-12-93	53	39.4	Whole body	Red shiner	*Cyprinella lutrensis*
42	SR33FFS	07-26-94	59	19	Whole body	Western mosquitofish	*Gambusia affinis*
42	SR33IB	07-26-94	59	6	Whole body	Dragonfly/damselfly larvae	Odonata
42	SR33OV	07-26-94	59	2	Whole body	Western spadefoot	*Scaphiopus hammondii*
42	SR33PA	07-26-94	59	26	Whole plant	Algae	Chlorophyta
43	SJ34FFS1	08-12-93	53	6.1	Whole body	Black bullhead	*Ictalurus punctatus*

Table 2.--Information for biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Laboratory number	Sample weight (grams)	Type of sample	Common name	Taxon
43	SJ34FFS2	08-12-93	53	14	Whole body	Western mosquitofish	*Gambusia affinis*
43	SJ34IB1	08-12-93	53	3.4	Whole body	Dragonfly larvae	*Anax spp*
43	SJ34IB2	08-12-93	53	19.6	Whole body	Crayfish	*Orconectes spp*
43	SJ34PM1	08-12-93	53	38.7	Part plant	Cattail	*Typha spp*
43	SJ34PM2	08-12-93	53	8.9	Part plant	Cattail	*Typha spp*
43	SR34FFS1	07-26-94	59	18	Whole body	Western mosquitofish	*Gambusia affinis*
43	SR34FFS2	07-26-94	59	206	Whole body	Green sunfish	*Lepomis cyanellus*
43	SR34IB1	07-26-94	59	10	Whole body	Dragonfly/damselfly larvae	Odonata
43	SR34IB2	07-26-94	59	8	Whole body	Snail	Gastropoda
43	SR34OV1	07-26-94	59	5	Whole body	Western spadefoot	*Scaphiopus hammondii*
43	SR34OV2	07-26-94	59	3	Whole body	Bullfrog tadpole	*Rana catesbeiana*
43	SR34PM1	07-26-94	59	42	Part plant	Widgeongrass	*Ruppia maritima*
43	SR34PM2	07-26-94	59	122	Part plant	Cattail	*Typha spp*
49	SJ27FFS1	08-13-93	53	43.5	Whole body	Unknown	Plantae
49	SJ27FFS2	08-13-93	53	28.2	Whole body	Fathead minnow	*Pimephales promelas*
49	SJ27FFS3	08-13-93	53	30.6	Whole body	Western mosquitofish	*Gambusia affinis*
49	SJ27IB1	08-13-93	53	37.5	Whole body	Crayfish	*Orconectes spp*
49	SJ27IB2	08-13-93	53	9.1	Whole body	Dragonfly larvae	*Anax spp*
49	SJ27INK	08-13-93	53	3.8	Whole body	Whirly gig	Gyrinidae
49	SJ27OV1	08-13-93	53	11.7	Whole body	Western spadefoot	*Scaphiopus hammondii*
49	SJ27PA	08-13-93	53	29.4	Whole plant	Algae	Chlorophyta
49	SJ27PM	08-13-93	53	135.3	Part plant	Cattail	*Typha spp*
49	SR27FBF	07-27-94	58	6	Whole body	Flannelmouth sucker	*Catostomus latipinnis*
49	SR27FFS1	07-27-94	58	50	Whole body	Western mosquitofish	*Gambusia affinis*
49	SR27FFS2	07-27-94	58	30	Whole body	Fathead minnow	*Pimephales promelas*
49	SR27IB1	07-27-94	58	20	Whole body	Dragonfly/damselfly larvae	Odonata
49	SR27OV	07-27-94	58	20	Whole body	Northern leopard frog	*Rana pipiens*
49	SR27PA	07-27-94	58	30	Whole plant	Algae	Chlorophyta
49	SR27PM	07-27-94	58	260	Part plant	Cattail	*Typha spp*
51	SJ30FBF	08-11-93	53	7.2	Whole body	Flannelmouth sucker	*Catostomus latipinnis*
51	SJ30FFS	08-11-93	53	25.5	Whole body	Red shiner	*Cyprinella lutrensis*
51	SJ30IB	08-11-93	53	22.1	Whole body	Mayfly larvae	Ephemeroptera
51	SJ30INK	08-11-93	53	1.3	Whole body	Whirly gig	Gyrinidae
51	SJ30OV	08-11-93	53	2.2	Whole body	Western spadefoot	*Scaphiopus hammondii*
51	SJ30PA	08-11-93	53	21.7	Whole plant	Algae	Chlorophyta
51	SJ30PM	08-11-93	53	11.1	Whole plant	Unknown	Plantae
51	SR30FFS1	07-26-94	58	65	Whole body	Red shiner	*Cyprinella lutrensis*
51	SR30FFS2	07-26-94	58	5	Whole body	Unknown	Osteichthyes
51	SR30FFS3	07-26-94	58	30	Whole body	Flannelmouth sucker	*Catostomus latipinnis*
51	SR30IB	07-26-94	58	2.5	Whole body	Dragonfly/damselfly larvae	Odonata
51	SR30OV	07-26-94	58	2.5	Whole body	Western spadefoot	*Scaphiopus hammondii*
51	SR30PA	07-26-94	58	50	Whole plant	Algae	Chlorophyta

Table 2.--Information for biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Laboratory number	Sample weight (grams)	Type of sample	Common name	Taxon
52	SJ31FFS	08-11-93	53	6.7	Whole body	Red shiner	*Cyprinella lutrensis*
52	SJ31PA	08-11-93	53	20.8	Whole plant	Algae	Chlorophyta
52	SR31FFS	07-26-94	59	41	Whole body	Flannelmouth sucker	*Catostomus latipinnis*
52	SR31IB	07-26-94	59	20	Whole body	Dragonfly larvae	*Anax spp*
52	SR31PA	07-26-94	59	25	Whole plant	Algae	Chlorophyta
52	SR31PM	07-26-94	59	110	Part plant	Cattail	*Typha spp*

Table 2.--Sample information for biological samples collected for the National Irrigation Water Quality Program, San Juan River, New Mexico 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Laboratory number	N	Average weight (grams)	Average length (cm)	Trophic	Position	Analyses
2	SJ01IB1	08-25-93	52	--	--	--	Carnivorous	Benthic	I
2	SJ01IB2	08-25-93	52	--	--	--	Herbivorous	Benthic	I
2	SJ01INK	08-25-93	52	--	--	--	Predatory	Pelagic	I
2	SJ01PA	08-25-93	52	--	--	--	--	--	I
2	SJ01PM1	08-25-93	52	--	--	--	--	--	I
2	SJ01PM2	08-25-93	52	--	--	--	--	--	I
2	SR01IB1	07-26-94	58	--	--	--	Carnivorous	Pelagic	I
2	SR01IB2	07-26-94	58	--	--	--	Herbivorous	Benthic	I
2	SR01INK	07-26-94	58	--	--	--	Predatory	Pelagic	I
2	SR01PM1	07-26-94	58	--	--	--	--	--	I
2	SR01PM2	07-26-94	58	--	--	--	--	--	I
3	SJ04FBF1	08-23-93	52	4	1,658.5	50	Herbivorous	Benthic	I/O
3	SJ04FBF2	08-23-93	52	4	1,304	46.1	Herbivorous	Benthic	I/O
3	SJ04FBF3	08-23-93	52	4	2,125.5	54	Herbivorous	Benthic	I/O
3	SJ04FFS1	08-23-93	52	--	--	--	Herbivorous	Benthic	I/O
3	SJ04FFS2	08-23-93	52	--	--	--	Omnivorous	Pelagic	I/O
3	SJ04FFS3	08-23-93	52	--	--	--	Carnivorous	Pelagic	I/O
3	SJ04IB	08-23-93	52	--	--	--	Carnivorous	Pelagic	I
3	SJ04INK	08-23-93	52	--	--	--	Predatory	Pelagic	I
3	SJ04OV	08-23-93	52	--	--	--	Carnivorous	Benthic	I
3	SJ04PA	08-23-93	52	--	--	--	--	--	I
3	SJ04PM1	08-23-93	52	--	--	--	--	--	I
3	SJ04PM2	08-23-93	52	--	--	--	--	--	I
3	SR04OV	07-19-94	58	2	--	--	Carnivorous	Benthic	I
3	SR04FBF	07-19-94	58	2	4,078.6	58.4	Herbivorous	Benthic	I/O
3	SR04FFS	07-19-94	58	--	--	--	Omnivorous	Pelagic	I
3	SR04IB1	07-19-94	58	--	--	--	Unknown	Unknown	I
3	SR04IB2	07-19-94	58	--	--	--	Herbivorous	Benthic	I
3	SR04PA	07-19-94	58	--	--	--	--	--	I
4	SJ02FF1	08-23-93	52	2	--	--	Carnivorous	Pelagic	I/O
4	SJ02FF2	08-23-93	52	4	--	--	Carnivorous	Pelagic	I/O
4	SJ02FF3	08-23-93	52	4	--	--	Carnivorous	Pelagic	I/O
4	SJ02FF4	08-23-93	52	4	--	--	Carnivorous	Pelagic	I/O
4	SJ02FF5	08-23-93	52	4	--	--	Carnivorous	Pelagic	I/O
4	SJ02FFS1	08-23-93	52	--	--	--	Carnivorous	Pelagic	I
4	SJ02FFS2	08-23-93	52	--	--	--	Carnivorous	Pelagic	I/O
4	SJ02FI1	08-23-93	52	2	525	34.5	Carnivorous	Pelagic	I/O
4	SJ02FI2	08-23-93	52	4	1,424.5	47.5	Carnivorous	Pelagic	I/O
4	SJ02FI3	08-23-93	52	4	1,013.5	43.3	Carnivorous	Pelagic	I/O
4	SJ02FI4	08-23-93	52	4	1,672.8	51.3	Carnivorous	Pelagic	I/O
4	SJ02FI5	08-23-93	52	4	1,410.3	47	Carnivorous	Pelagic	I/O
4	SJ02FP1	08-23-93	52	2	--	--	Carnivorous	Pelagic	I/O
4	SJ02FP2	08-23-93	52	4	--	--	Carnivorous	Pelagic	I/O
4	SJ02FP3	08-23-93	52	4	--	--	Carnivorous	Pelagic	I/O
4	SJ02FP4	08-23-93	52	4	--	--	Carnivorous	Pelagic	I/O
4	SJ02FP5	08-23-93	52	4	--	--	Carnivorous	Pelagic	I/O
4	SJ02IB1	08-23-93	52	--	--	--	Herbivorous	Benthic	I
4	SJ02IB2	08-23-93	52	--	--	--	Omnivorous	Benthic	I
4	SJ02INK	08-23-93	52	--	--	--	Predatory	Pelagic	I
4	SJ02PA	08-23-93	52	--	--	--	--	--	I

Table 2.--Sample information for biological samples collected for the National Irrigation Water Quality Program, San Juan River, New Mexico 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Laboratory number	N	Average weight (grams)	Average length (cm)	Trophic	Position	Analyses
4	SJ02PM	08-23-93	52	--	--	--	--	--	I
4	SR02FF01	07-18-94	58	4	--	--	Carnivorous	Pelagic	I/O
4	SR02FF02	07-18-94	58	3	--	--	Carnivorous	Pelagic	I
4	SR02FF03	07-18-94	58	4	--	--	Carnivorous	Pelagic	I/O
4	SR02FF04	07-18-94	58	4	--	--	Carnivorous	Pelagic	I/O
4	SR02FF05	07-18-94	58	4	--	--	Carnivorous	Pelagic	I/O
4	SR02FFS	07-18-94	58	--	--	--	Carnivorous	Pelagic	I/O
4	SR02FI01	07-18-94	58	4	455.7	32.9	Carnivorous	Pelagic	I/O
4	SR02FI02	07-18-94	58	3	49.8	16.5	Carnivorous	Pelagic	I
4	SR02FI03	07-18-94	58	4	345.9	30.4	Carnivorous	Pelagic	I/O
4	SR02FI04	07-18-94	58	3	78.8	18.6	Carnivorous	Pelagic	I/O
4	SR02FI05	07-18-94	58	4	1,091.3	42.5	Carnivorous	Pelagic	I/O
4	SR02FP01	07-18-94	58	4	--	--	Carnivorous	Pelagic	I/O
4	SR02FP02	07-18-94	58	3	--	--	Carnivorous	Pelagic	I
4	SR02FP03	07-18-94	58	4	--	--	Carnivorous	Pelagic	I/O
4	SR02FP04	07-18-94	58	4	--	--	Carnivorous	Pelagic	I/O
4	SR02FP05	07-18-94	58	4	--	--	Carnivorous	Pelagic	I/O
4	SR02IB1	07-18-94	58	--	--	--	Herbivorous	Benthic	I
4	SR02IB2	07-18-94	58	--	--	--	Omnivorous	Benthic	I
4	SR02PA	07-18-94	58	--	--	--	--	--	I
5	SJ05FBF	08-24-93	52	1	928	38	Herbivorous	Benthic	I
5	SJ05FF1	08-24-93	52	3	--	--	Carnivorous	Pelagic	I/O
5	SJ05FF2	08-24-93	52	4	--	--	Carnivorous	Pelagic	I/O
5	SJ05FF3	08-24-93	52	4	--	--	Carnivorous	Pelagic	I/O
5	SJ05FF4	08-24-93	52	4	--	--	Carnivorous	Pelagic	I/O
5	SJ05FF5	08-24-93	52	3	--	--	Carnivorous	Pelagic	I/O
5	SJ05FF6	08-24-93	52	4	--	--	Carnivorous	Pelagic	I/O
5	SJ05FFS	08-24-93	52	--	--	--	Omnivorous	Pelagic	I/O
5	SJ05FI1	08-24-93	52	3	2,125.5	35.3	Carnivorous	Pelagic	I/O
5	SJ05FI2	08-24-93	52	4	1,261.5	47.4	Carnivorous	Pelagic	I/O
5	SJ05FI3	08-24-93	52	4	396.8	31	Carnivorous	Pelagic	I/O
5	SJ05FI4	08-24-93	52	4	801.5	41.5	Carnivorous	Pelagic	I/O
5	SJ05FI5	08-24-93	52	3	1,049	34.5	Carnivorous	Pelagic	I/O
5	SJ05FI6	08-24-93	52	4	496.3	34.4	Carnivorous	Pelagic	I/O
5	SJ05FP1	08-24-93	52	3	--	--	Carnivorous	Pelagic	I/O
5	SJ05FP2	08-24-93	52	4	--	--	Carnivorous	Pelagic	I/O
5	SJ05FP3	08-24-93	52	4	--	--	Carnivorous	Pelagic	I/O
5	SJ05FP4	08-24-93	52	4	--	--	Carnivorous	Pelagic	I/O
5	SJ05FP5	08-24-93	52	3	--	--	Carnivorous	Pelagic	I/O
5	SJ05FP6	08-24-93	52	4	--	--	Carnivorous	Pelagic	I/O
5	SJ05IB	08-24-93	52	--	--	--	Carnivorous	Pelagic	I
5	SJ05INK	08-24-93	52	--	--	--	Predatory	Pelagic	I
5	SJ05PA	08-24-93	52	--	--	--	--	--	I
5	SJ05PM1	08-24-93	52	--	--	--	--	--	I
5	SJ05PM2	08-24-93	52	--	--	--	--	--	I
5	SJ05PM3	08-24-93	52	--	--	--	--	--	I
5	SR05FFS1	07-19-94	58	1	8	--	Herbivorous	Benthic	I
5	SR05FFS2	07-19-94	58	75	2.7	--	Omnivorous	Pelagic	I
5	SR05IB	07-19-94	58	--	--	--	Carnivorous	Pelagic	I
5	SR05PA	07-19-94	58	--	--	--	--	--	I
6	SJ03FF1	08-23-93	52	3	--	--	Carnivorous	Pelagic	I/O
6	SJ03FF2	08-23-93	52	4	--	--	Carnivorous	Pelagic	I/O
6	SJ03FF3	08-23-93	52	4	--	--	Carnivorous	Pelagic	I/O
6	SJ03FFS	08-23-93	52	--	--	--	Carnivorous	Pelagic	I
6	SJ03FI1	08-23-93	52	3	954.3	39	Carnivorous	Pelagic	I/O

Table 2.--Sample information for biological samples collected for the National Irrigation Water Quality Program, San Juan River, New Mexico 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Laboratory number	N	Average weight (grams)	Average length (cm)	Trophic	Position	Analyses
6	SJ03FI2	08-23-93	52	4	1,410	46.4	Carnivorous	Pelagic	I/O
6	SJ03FI3	08-23-93	52	4	1,013.5	40.8	Carnivorous	Pelagic	I/O
6	SJ03FP1	08-23-93	52	3	--	--	Carnivorous	Pelagic	I/O
6	SJ03FP2	08-23-93	52	4	--	--	Carnivorous	Pelagic	I/O
6	SJ03FP3	08-23-93	52	4	--	--	Carnivorous	Pelagic	I/O
6	SJ03IB	08-23-93	52	--	--	--	Omnivorous	Benthic	I
6	SJ03OV	08-23-93	52	--	--	--	Carnivorous	Benthic	I
6	SJ03PA	08-23-93	52	--	--	--	--	--	I
6	SJ03PM	08-23-93	52	--	--	--	--	--	I
6	SR03FF01	07-19-94	58	--	--	--	Carnivorous	Pelagic	I/O
6	SR03FFS1	07-19-94	58	--	--	--	Omnivorous	Pelagic	I/O
6	SR03FFS2	07-19-94	58	--	--	--	Carnivorous	Pelagic	I
6	SR03FI01	07-19-94	58	5	1,285.92	49.02	Carnivorous	Pelagic	I/O
6	SR03FP01	07-19-94	58	--	--	--	Carnivorous	Pelagic	I/O
6	SR03IB1	07-19-94	58	--	--	--	Omnivorous	Pelagic	I
6	SR03IB2	07-19-94	58	--	--	--	Herbivorous	Benthic	I
6	SR03PA	07-19-94	58	--	--	--	--	--	I
10	SJ06FF1	08-24-93	52	3	--	--	Carnivorous	Pelagic	I/O
10	SJ06FF2	08-24-93	52	5	--	--	Carnivorous	Pelagic	I/O
10	SJ06FF3	08-24-93	52	5	--	--	Carnivorous	Pelagic	I/O
10	SJ06FF4	08-24-93	52	4	--	--	Carnivorous	Pelagic	I/O
10	SJ06FF5	08-24-93	52	3	--	--	Carnivorous	Pelagic	I/O
10	SJ06FFS	08-24-93	52	3	--	--	Carnivorous	Pelagic	I
10	SJ06FI1	08-24-93	52	3	1,153	42	Carnivorous	Pelagic	I/O
10	SJ06FI2	08-24-93	52	5	434	31.9	Carnivorous	Pelagic	I/O
10	SJ06FI3	08-24-93	52	5	107.6	20.2	Carnivorous	Pelagic	I/O
10	SJ06FI4	08-24-93	52	4	141.75	22	Carnivorous	Pelagic	I/O
10	SJ06FI5	08-24-93	52	3	61.6	16.3	Carnivorous	Pelagic	I/O
10	SJ06FP1	08-24-93	52	3	--	--	Carnivorous	Pelagic	I/O
10	SJ06FP2	08-24-93	52	5	--	--	Carnivorous	Pelagic	I/O
10	SJ06FP3	08-24-93	52	5	--	--	Carnivorous	Pelagic	I/O
10	SJ06FP4	08-24-93	52	4	--	--	Carnivorous	Pelagic	I/O
10	SJ06FP5	08-24-93	52	3	--	--	Carnivorous	Pelagic	I/O
10	SJ06IB	08-24-93	52	--	--	--	Omnivorous	Benthic	I
10	SJ06PA	08-24-93	52	--	--	--	--	--	I
10	SR06FF01	07-18-94	58	--	--	--	Carnivorous	Pelagic	I/O
10	SR06FF02	07-18-94	58	--	--	--	Carnivorous	Pelagic	I/O
10	SR06FF03	07-18-94	58	--	--	--	Carnivorous	Pelagic	I
10	SR06FF04	07-18-94	58	--	--	--	Carnivorous	Pelagic	I/O
10	SR06FI01	07-18-94	58	5	842.4	39.78	Carnivorous	Pelagic	I/O
10	SR06FI02	07-18-94	58	5	760	38	Carnivorous	Pelagic	I/O
10	SR06FI03	07-18-94	58	4	42.3	14.95	Carnivorous	Pelagic	I
10	SR06FI04	07-18-94	58	5	50	15.64	Carnivorous	Pelagic	I/O
10	SR06FP01	07-18-94	58	--	--	--	Carnivorous	Pelagic	I/O
10	SR06FP02	07-18-94	58	--	--	--	Carnivorous	Pelagic	I/O
10	SR06FP03	07-18-94	58	--	--	--	Carnivorous	Pelagic	I
10	SR06FP04	07-18-94	58	--	--	--	Carnivorous	Pelagic	I/O
10	SR061B	07-18-94	58	--	--	--	Omnivorous	Pelagic	I
10	SR06PA	07-18-94	58	--	--	--	--	--	I
11	SJ07FF1	08-24-93	52	--	--	--	Carnivorous	Pelagic	I/O
11	SJ07FF2	08-24-93	52	--	--	--	Carnivorous	Pelagic	I/O
11	SJ07FF3	08-24-93	52	--	--	--	Carnivorous	Pelagic	I/O
11	SJ07FF4	08-24-93	52	--	--	--	Carnivorous	Pelagic	I/O
11	SJ07FF5	08-24-93	52	--	--	--	Carnivorous	Pelagic	I/O
11	SJ07FFS1	08-24-93	52	--	--	--	Carnivorous	Pelagic	I

Table 2.--Sample information for biological samples collected for the National Irrigation Water Quality Program, San Juan River, New Mexico 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Laboratory number	N	Average weight (grams)	Average length (cm)	Trophic	Position	Analyses
11	SJ07FFS2	08-24-93	52	5	6.2	--	Carnivorous	Pelagic	I/O
11	SJ07FI1	08-24-93	52	4	1,223.3	45.1	Carnivorous	Pelagic	I/O
11	SJ07FI2	08-24-93	52	3	463	31.2	Carnivorous	Pelagic	I/O
11	SJ07FI3	08-24-93	52	3	935.3	42.7	Carnivorous	Pelagic	I/O
11	SJ07FI4	08-24-93	52	4	1,134	18	Carnivorous	Pelagic	I/O
11	SJ07FI5	08-24-93	52	5	1,587.8	21	Carnivorous	Pelagic	I/O
11	SJ07FP1	08-24-93	52	--	--	--	Carnivorous	Pelagic	I/O
11	SJ07FP2	08-24-93	52	--	--	--	Carnivorous	Pelagic	I/O
11	SJ07FP3	08-24-93	52	--	--	--	Carnivorous	Pelagic	I/O
11	SJ07FP4	08-24-93	52	--	--	--	Carnivorous	Pelagic	I/O
11	SJ07FP5	08-24-93	52	--	--	--	Carnivorous	Pelagic	I/O
11	SJ07IB	08-24-93	52	--	--	--	Herbivorous	Benthic	I
11	SJ07PA	08-24-93	52	--	--	--	--	--	I
11	SJ07PM	08-24-93	52	--	--	--	--	--	I
11	SR07FF01	07-18-94	58	--	--	--	Carnivorous	Pelagic	I/O
11	SR07FF02	07-18-94	58	--	--	--	Carnivorous	Pelagic	I/O
11	SR07FF03	07-18-94	58	--	--	--	Carnivorous	Pelagic	I/O
11	SR07FF04	07-18-94	58	--	--	--	Carnivorous	Pelagic	I/O
11	SR07FI01	07-18-94	58	5	609.8	37	Carnivorous	Pelagic	I/O
11	SR07FI02	07-18-94	58	5	768.6	39.96	Carnivorous	Pelagic	I/O
11	SR07FI03	07-18-94	58	4	81.5	18.6	Carnivorous	Pelagic	I/O
11	SR07FI04	07-18-94	58	5	29.2	14.04	Carnivorous	Pelagic	I/O
11	SR07FP01	07-18-94	58	--	--	--	Carnivorous	Pelagic	I/O
11	SR07FP02	07-18-94	58	--	--	--	Carnivorous	Pelagic	I/O
11	SR07FP03	07-18-94	58	--	--	--	Carnivorous	Pelagic	I/O
11	SR07FP04	07-18-94	58	--	--	--	Carnivorous	Pelagic	I/O
11	SR07IB	07-18-94	58	--	--	--	Omnivorous	Pelagic	I
11	SR07PA	07-18-94	58	--	--	--	--	--	I
12	SJ10FFS1	08-19-93	52	--	--	--	Omnivorous	Pelagic	I/O
12	SJ10FFS2	08-19-93	52	--	--	--	Carnivorous	Pelagic	I
12	SJ10IB1	08-19-93	52	--	--	--	Carnivorous	Pelagic	I
12	SJ10IB2	08-19-93	52	--	--	--	Herbivorous	Benthic	I
12	SJ10INK	08-19-93	52	--	--	--	Predatory	Pelagic	I
12	SJ10PM1	08-19-93	52	--	--	--	--	--	I
12	SJ10PM2	08-19-93	52	--	--	--	--	--	I
12	SR10FFS	07-20-94	58	--	--	--	Omnivorous	Pelagic	I
12	SR10IB1	07-20-94	58	--	--	--	Carnivorous	Pelagic	I
12	SR10IB2	07-20-94	58	--	--	--	Herbivorous	Benthic	I
12	SR10PM	07-20-94	58	--	--	--	--	--	I
22	SJ11FFS1	08-19-93	53	--	--	--	Carnivorous	Pelagic	I/O
22	SJ11IB1	08-19-93	53	--	--	--	Herbivorous	Benthic	I
22	SJ11IB2	08-19-93	53	--	--	--	Carnivorous	Pelagic	I
22	SJ11INK	08-19-93	53	--	--	--	Predatory	Pelagic	I
22	SJ11PA	08-19-93	53	--	--	--	--	--	I
22	SJ11PM1	08-19-93	53	--	--	--	--	--	I
22	SJ11PM2	08-19-93	53	--	--	--	--	--	I
22	SJ11PM3	08-19-93	53	--	--	--	--	--	I
22	SR11FFS	07-26-94	58	--	--	--	Carnivorous	Pelagic	I
22	SR11IB1	07-26-94	58	--	--	--	Carnivorous	Pelagic	I
22	SR11IB2	07-26-94	58	--	--	--	Herbivorous	Benthic	I
22	SR11PA	07-26-94	58	--	--	--	--	--	I
22	SR11PM	07-26-94	58	--	--	--	--	--	I
29	SRMGIB	07-27-94	59	--	--	--	Carnivorous	Benthic	I
29	SRMGPA	07-27-94	59	--	--	--	--	--	I
29	SRMGPM	07-27-94	59	--	--	--	--	--	I

Table 2.--Sample information for biological samples collected for the National Irrigation Water Quality Program, San Juan River, New Mexico 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Laboratory number	N	Average weight (grams)	Average length (cm)	Trophic	Position	Analyses
30	SJ22OV	08-17-93	53	--	--	--	Carnivorous	Terrestrial	I
30	SJ22PA	08-17-93	53	--	--	--	--	--	I
30	SJ22PM	08-17-93	53	--	--	--	--	--	I
30	SR22PA	07-20-94	58	--	--	--	--	--	I
30	SR22PM	07-20-94	58	--	--	--	--	--	I
34	SROAIB	07-21-94	59	--	--	--	Carnivorous	Pelagic	I
34	SROAINK	07-21-94	59	--	--	--	Predatory	Pelagic	I
34	SROAOV	07-21-94	59	--	--	--	Carnivorous	Pelagic	I
34	SROAPA	07-21-94	59	--	--	--	--	--	I
35	SJ23IB	08-10-93	53	--	--	--	Carnivorous	Benthic	I
35	SJ23INK	08-10-93	53	--	--	--	Predatory	Pelagic	I
35	SJ23OV	08-10-93	53	--	--	--	Carnivorous	Terrestrial	I
35	SJ23PA	08-10-93	53	--	--	--	--	--	I
35	SR23IB	07-21-94	58	--	--	--	Carnivorous	Pelagic	I
35	SR23OV1	07-21-94	58	--	--	--	Carnivorous	Terrestrial	I
35	SR23OV2	07-21-94	58	--	--	--	Carnivorous	Terrestrial	I
35	SR23PA	07-21-94	58	--	--	--	--	--	I
35	SR23PM	07-21-94	58	--	--	--	--	--	I
37	SJ24FFS1	08-18-93	53	--	--	--	Carnivorous	Pelagic	I/O
37	SJ24FFS2	08-18-93	53	1	26.8	--	Herbivorous	Benthic	I/O
37	SJ24FFS3	08-18-93	53	--	--	--	Omnivorous	Pelagic	I/O
37	SJ24FFS4	08-18-93	53	--	--	--	Omnivorous	Pelagic	I/O
37	SJ24IB	08-18-93	53	--	--	--	Carnivorous	Benthic	I
37	SJ24INK	08-18-93	53	--	--	--	Predatory	Pelagic	I
37	SJ24PA	08-18-93	53	--	--	--	--	--	I
37	SJ24PM1	08-18-93	53	--	--	--	--	--	I
37	SJ24PM2	08-18-93	53	--	--	--	--	--	I
37	SR24FBF	07-21-94	58	1	2,240	--	Herbivorous	Benthic	I/O
37	SR24FFS1	07-21-94	58	10	2.4	--	Omnivorous	Pelagic	I
37	SR24FFS2	07-21-94	58	--	--	--	Omnivorous	Pelagic	I/O
37	SR24IB1	07-21-94	58	--	--	--	Carnivorous	Pelagic	I
37	SR24IB2	07-21-94	58	--	--	--	Carnivorous	Benthic	I
37	SR24OV	07-21-94	58	--	--	--	Omnivorous	Pelagic	I
37	SR24PA	07-21-94	58	--	--	--	--	--	I
37	SR24PM1	07-21-94	58	--	--	--	--	--	I
37	SR24PM2	07-21-94	58	--	--	--	--	--	I
38	SJ32FFS1	08-12-93	53	--	--	--	Unknown	Unknown	I/O
38	SJ32FFS2	08-12-93	53	--	--	--	Omnivorous	Pelagic	I/O
38	SJ32FFS3	08-12-93	53	--	--	--	Omnivorous	Pelagic	I/O
38	SJ32IB	08-12-93	53	--	--	--	Carnivorous	Benthic	I
38	SJ32PA2	08-12-93	53	--	--	--	--	--	I
38	SR32FBF	07-27-94	59	--	--	--	Omnivorous	Benthic	I/O
38	SR32FFS	07-27-94	59	--	--	--	Omnivorous	Benthic	I/O
38	SR32IB	07-27-94	59	--	--	--	Carnivorous	Benthic	I
38	SR32PA	07-27-94	59	--	--	--	--	--	I
39	SJ18INK	08-17-93	53	--	--	--	Predatory	Pelagic	I
39	SJ18PA	08-17-93	53	--	--	--	--	--	I
39	SR18PA	07-21-94	58	--	--	--	--	--	I
39	SR18PM	07-21-94	58	--	--	--	--	--	I
39	SR19INK	07-21-94	58	--	--	--	Predatory	Pelagic	I
39	SR19OV	07-21-94	58	--	--	--	Carnivorous	Pelagic	I
42	SJ33FFS1	08-12-93	53	--	--	--	Carnivorous	Pelagic	I/O
42	SJ33FFS2	08-12-93	53	--	--	--	Omnivorous	Benthic	I/O
42	SJ33FFS3	08-12-93	53	--	--	--	Carnivorous	Pelagic	I/O
42	SR33FFS	07-26-94	59	--	--	--	Carnivorous	Pelagic	I/O

Table 2.--Sample information for biological samples collected for the National Irrigation Water Quality Program, San Juan River, New Mexico 1993-94--Concluded

Site number (fig. 2, table 1)	Sample identification number	Date	Laboratory number	N	Average weight (grams)	Average length (cm)	Trophic	Position	Analyses
42	SR33IB	07-26-94	59	--	--	--	Carnivorous	Pelagic	I
42	SR33OV	07-26-94	59	--	--	--	Carnivorous	Terrestrial	I
42	SR33PA	07-26-94	59	--	--	--	--	--	I
43	SJ34FFS1	08-12-93	53	2	3.05	--	Carnivorous	Benthic	I/O
43	SJ34FFS2	08-12-93	53	--	--	--	Carnivorous	Pelagic	I/O
43	SJ34IB1	08-12-93	53	--	--	--	Carnivorous	Benthic	I
43	SJ34IB2	08-12-93	53	--	--	--	Carnivorous	Benthic	I
43	SJ34PM1	08-12-93	53	--	--	--	--	--	I
43	SJ34PM2	08-12-93	53	--	--	--	--	--	I
43	SR34FFS1	07-26-94	59	--	--	--	Carnivorous	Pelagic	I/O
43	SR34FFS2	07-26-94	59	--	--	--	Carnivorous	Pelagic	I/O
43	SR34IB1	07-26-94	59	--	--	--	Carnivorous	Pelagic	I
43	SR34IB2	07-26-94	59	--	--	--	Herbivorous	Benthic	I
43	SR34OV1	07-26-94	59	--	--	--	Carnivorous	Terrestrial	I
43	SR34OV2	07-26-94	59	--	--	--	Omnivorous	Pelagic	I
43	SR34PM1	07-26-94	59	--	--	--	--	--	I
43	SR34PM2	07-26-94	59	--	--	--	--	--	I
49	SJ27FFS1	08-13-93	53	--	--	--	Unknown	Unknown	I/O
49	SJ27FFS2	08-13-93	53	--	--	--	Omnivorous	Pelagic	I/O
49	SJ27FFS3	08-13-93	53	--	--	--	Carnivorous	Pelagic	I/O
49	SJ27IB1	08-13-93	53	--	--	--	Carnivorous	Benthic	I
49	SJ27IB2	08-13-93	53	--	--	--	Carnivorous	Benthic	I
49	SJ27INK	08-13-93	53	--	--	--	Predatory	Pelagic	I
49	SJ27OV1	08-13-93	53	--	--	--	Carnivorous	Terrestrial	I
49	SJ27PA	08-13-93	53	--	--	--	--	--	I
49	SJ27PM	08-13-93	53	--	--	--	--	--	I
49	SR27FBF	07-27-94	58	1	--	--	Omnivorous	Benthic	I
49	SR27FFS1	07-27-94	58	--	--	--	Carnivorous	Pelagic	I/O
49	SR27FFS2	07-27-94	58	--	--	--	Omnivorous	Pelagic	I/O
49	SR27IB1	07-27-94	58	--	--	--	Carnivorous	Pelagic	I
49	SR27OV	07-27-94	58	4	--	--	Carnivorous	Benthic	I
49	SR27PA	07-27-94	58	--	--	--	--	--	I
49	SR27PM	07-27-94	58	--	--	--	--	--	I
51	SJ30FBF	08-11-93	53	1	--	--	Omnivorous	Benthic	I/O
51	SJ30FFS	08-11-93	53	--	--	--	Carnivorous	Pelagic	I/O
51	SJ30IB	08-11-93	53	--	--	--	Omnivorous	Pelagic	I
51	SJ30INK	08-11-93	53	--	--	--	Predatory	Pelagic	I
51	SJ30OV	08-11-93	53	--	--	--	Carnivorous	Terrestrial	I
51	SJ30PA	08-11-93	53	--	--	--	--	--	I
51	SJ30PM	08-11-93	53	--	--	--	--	--	I
51	SR30FFS1	07-26-94	58	--	--	--	Carnivorous	Pelagic	I/O
51	SR30FFS2	07-26-94	58	--	--	--	--	--	I
51	SR30FFS3	07-26-94	58	--	--	--	Omnivorous	Benthic	I/O
51	SR30IB	07-26-94	58	--	--	--	Carnivorous	Pelagic	I
51	SR30OV	07-26-94	58	--	--	--	Carnivorous	Terrestrial	I
51	SR30PA	07-26-94	58	--	--	--	--	--	I
52	SJ31FFS	08-11-93	53	--	--	--	Carnivorous	Pelagic	I/O
52	SJ31PA	08-11-93	53	--	--	--	--	--	I
52	SR31FFS	07-26-94	59	--	--	--	Omnivorous	Benthic	I/O
52	SR31IB	07-26-94	59	--	--	--	Carnivorous	Benthic	I
52	SR31PA	07-26-94	59	--	--	--	--	--	I
52	SR31PM	07-26-94	59	--	--	--	--	--	I

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94

[µS/cm, microsiemens per centimeter at 25 degrees Celsius (°C); mg/L, milligrams per liter; µg/L, micrograms per liter; e, estimated; ABQ lab DI water, U.S. Geological Survey Field Office laboratory generated deionized water; IB, inorganic blank; <, less than; --, no data]

Site number (fig. 2, table 1)	Date	Time	Discharge, instantaneous (cubic feet per second)	Specific conductance (µS/cm)	pH, field (standard units)	Temperature water (°C)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	Solids, residue at 180 °C, dissolved (mg/L)	Solids, sum of constituents, dissolved (mg/L)	Selenium, dissolved (µg/L)	H-2/H-1 stable isotope ratio per mil	O-18/O-16 stable isotope ratio per mil
1	08-23-93	1015	--	268	7.5	7.0	6.6	67	165	150	<1	-94.5	-13.14
	07-18-94	1450	--	261	8.3	7.0	11.6	--	156	141	<1	-99.8	-13.36
2	08-25-93	1000	--	3,100	7.1	17.0	0.1	2	3,020	2,860	<1	-93.8	-12.69
	07-28-94	0910	--	3,310	7.3	18.0	4.5	--	2,990	2,860	<1	-96.5	-12.90
3	08-24-93	0845	--	300	7.4	16.5	2.8	35	253	231	<1	-93.8	-12.81
	08-24-93	0900	--	--	7.5	17.0	1.2	--	244	231	<1	-93.3	-12.83
	07-19-94	1300	--	410	7.0	13.0	4.3	--	177	164	<1	-99.2	-13.32
5	08-23-93	1430	--	290	8.8	26.5	7.3	112	185	170	<1	--	--
	07-19-94	1000	--	262	7.3	12.0	8.5	--	162	136	<1	-99.0	-13.34
7	08-24-93	1130	--	352	7.1	21.5	1.3	19	696	645	<1	-28.8	-6.00
	07-18-94	1215	--	803	7.4	24.0	1.9	--	--	--	<1	--	--
	08-02-94	1330	--	--	--	--	--	--	--	--	--	-53.1	-8.48
8	08-23-93	1600	--	451	7.8	21.5	4.1	57	938	887	<1	-58.2	-8.17
	07-18-94	1030	--	4,080	7.1	23.5	2.8	41	--	--	<1	-77.7	-9.62
9	08-24-93	1330	--	1,770	7.6	23.5	1.6	23	4,270	3,990	<1	-55.7	-7.90
	07-18-94	1320	--	3,000	7.3	25.0	1.8	--	--	--	<1	-64.8	-9.31
12	08-19-93	0845	--	9,720	7.0	18.5	0.4	5	8,210	8,070	<1	-75.7	-9.64
	03-09-94	0800	--	9,070	7.4	6.5	2.4	25	8,480	8,290	<1	-88.2	-11.77
	07-20-94	0800	--	9,600	7.1	17.5	0.2	--	8,600	8,560	<1	--	--
13	09-27-94	1630	53	266	8.3	12.0	10.7	121	168	148	<1	-98.4	-13.36
14	09-28-93	1630	30	283	8.6	13.5	11.0	130	184	166	<1	-95.3	-13.02
	09-28-94	0800	36	256	7.9	10.5	9.4	103	153	148	<1	-98.1	-13.29
15	09-28-93	1400	30	284	8.4	13.0	12.3	143	--	--	<1	-96.0	-13.06
	09-28-94	1010	33	255	8.4	11.0	10.2	112	163	148	<1	-98.6	-13.27
16	09-30-93	0900	28	269	7.8	10.0	9.8	106	177	168	<1	-94.6	-13.04

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Discharge, instantaneous (cubic feet per second)	Specific conductance (µS/cm)	pH, field (standard units)	Temperature water (°C)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	Solids, residue at 180 °C, dissolved (mg/L)	Solids, sum of constituents, dissolved (mg/L)	Selenium, dissolved (µg/L)	H-2/H-1 stable isotope ratio per mil	O-18/O-16 stable isotope ratio per mil
16	09-30-93	1000	28	272	8.2	10.5	10.4	113	180	168	<1	-96.1	-13.10
	09-28-94	1220	32	256	8.7	12.0	10.8	123	167	148	<1	-99.9	-13.28
	09-28-94	1320	32	248	8.8	13.0	11.1	128	165	148	<1	-98.8	-13.26
17	03-17-93	1230	<0.10	1,630	7.4	10.0	3.1	33	1,220	1,110	1	-88.1	-11.65
	08-19-93	1100	0.43	1,690	7.0	14.5	3.3	40	1,290	1,200	1	-89.2	-11.84
	03-09-94	0950	0.01	1,670	7.1	9.0	2.7	29	1,640	1,580	2	-88.7	-11.89
	07-20-94	1115	0.32	2,000	7.2	15.5	3.6	--	1,570	1,470	2	-89.4	-11.92
	09-27-94	1430	0.06	2,200	7.1	15.5	4.5	--	1,990	1,880	4	-89.2	-11.84
18	03-17-93	1345	<0.10	2,180	7.2	8.5	4.5	47	1,840	1,700	4	-91.0	-12.38
	08-19-93	1310	0.03	2,060	7.0	16.5	3.4	43	--	--	--	-91.8	-12.22
	03-09-94	1020	0.01	2,190	7.2	7.0	5.2	53	1,740	1,670	3	-90.5	-12.10
	07-20-94	1130	0.03	1,890	7.2	15.0	4.6	--	1,420	1,350	3	-90.8	-12.26
19	03-17-93	1500	--	1,710	7.2	8.0	0.7	--	1,270	1,230	1	-89.0	-12.05
	03-17-93	1515	--	1,870	7.2	8.0	1.0	--	1,270	1,210	1	-88.6	-12.09
20	03-17-93	1000	--	2,340	7.1	8.5	1.4	15	1,950	1,790	3	-89.9	-12.31
	08-19-93	1550	--	2,070	7.0	16.5	1.4	17	1,510	1,450	3	-91.3	-12.29
	03-09-94	1210	--	1,900	7.1	7.0	8.3	85	1,460	1,360	3	-91.3	-12.17
	07-20-94	1320	--	1,630	7.1	15.0	1.8	--	1,200	1,140	3	-90.7	-12.29
21	03-17-93	1100	--	2,250	7.1	8.5	2.2	23	1,840	1,690	5	-90.1	-12.42
	08-19-93	1530	--	2,070	6.9	16.5	0.9	12	1,510	1,420	3	-90.3	-12.27
	03-09-94	1150	--	2,030	7.0	6.5	2.5	25	2,080	1,990	5	-89.9	-12.14
	07-20-94	1300	--	1,900	7.0	15.0	1.6	--	1,360	1,280	2	-90.8	-12.24
	09-27-94	1300	--	1,950	7.0	16.5	1.2	15	1,380	1,300	3	-89.5	-12.04
22	03-17-93	1315	--	2,580	7.5	9.0	8.2	87	2,100	1,950	6	-89.4	-12.00
	08-19-93	1410	--	1,880	7.4	19.5	10.3	137	1,400	1,290	2	-89.3	-11.83

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Discharge, instantaneous (cubic feet per second)	Specific conductance (µS/cm)	pH, field (standard units)	Temperature water (°C)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	Solids, residue at 180 °C, dissolved (mg/L)	Solids, sum of constituents, dissolved (mg/L)	Selenium, dissolved (µg/L)	H-2/H-1 stable isotope ratio per mil	O-18/O-16 stable isotope ratio per mil
22	03-09-94	1040	–	2,010	7.6	9.0	6.0	64	1,460	1,400	<1	-88.1	-11.58
	07-20-94	1030	–	2,150	7.2	15.5	4.9	–	1,660	1,600	2	–	–
	07-20-94	1100	–	2,180	7.2	16.0	4.4	–	2,180	2,040	3	-89.9	-12.03
23	08-20-93	1100	–	825	9.3	20.0	3.7	50	7,630	567	11	-46.6	-6.17
	03-08-94	0320	0.70	1,630	–	–	–	–	–	–	11	–	–
	05-12-94	0212	0.20	1,080	9.1	–	–	–	–	–	–	–	–
	05-12-94	0445	0.70	1,030	9.1	–	–	–	–	–	8	–	–
	05-25-94	0850	0.40	2,010	–	–	–	–	–	–	<1	–	–
	06-19-94	1843	1.6	2,030	–	–	–	–	–	–	4	–	–
	06-21-94	1845	5.0	1,870	–	–	–	–	–	–	3	–	–
	07-23-94	2023	200	1,840	–	–	–	–	–	–	2	–	–
	07-24-94	2153	14	748	–	–	–	–	–	–	9	–	–
	07-25-94	0035	0.20	658	–	–	–	–	–	–	12	–	–
	07-25-94	0056	0.90	650	–	–	–	–	–	–	11	–	–
	07-25-94	0129	2.4	646	–	–	–	–	–	–	12	–	–
	08-11-94	2100	31	2,270	7.7	–	–	–	–	–	4	–	–
	08-14-94	1920	0.30	1,360	8.5	–	–	–	–	–	4	–	–
	09-03-94	0617	–	1,180	9.6	–	–	–	772	709	1	-41.9	-7.31
	09-03-94	0622	0.70	809	9.3	–	–	–	–	–	1	–	–
	09-03-94	0647	0.40	2,460	9.6	–	–	–	–	–	<1	–	–
	09-03-94	0722	0.40	952	9.5	–	–	–	–	–	2	–	–
24	08-20-93	1200	–	2,700	8.0	20.0	4.1	55	1,850	1,850	3	-72.0	-8.99
	07-25-94	1415	–	1,090	8.5	28.0	2.7	42	–	–	10	-49.8	-6.68
25	08-20-93	0950	–	248	8.0	13.0	8.7	101	149	137	<1	-96.2	-13.29
	07-19-94	0815	–	237	7.6	12.0	9.7	–	145	129	<1	-98.6	-13.34

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Discharge, instantaneous (cubic feet per second)	Specific conductance (µS/cm)	pH, field (standard units)	Temperature water (°C)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	Solids, residue at 180 °C, dissolved (mg/L)	Solids, sum of constituents, dissolved (mg/L)	Selenium, dissolved (µg/L)	H-2/H-1 stable isotope ratio per mil	O-18/O-16 stable isotope ratio per mil
26	07-22-94	0800	--	291	8.3	--	--	--	--	--	<1	-91.4	-12.13
27	03-18-93	1115	e0.20	2,040	7.7	10.0	8.6	--	1,690	1,560	24	-83.7	-10.62
	03-08-94	1110	0.16	2,080	7.7	7.0	6.5	67	1,520	1,430	20	-84.1	-10.55
	07-22-94	0945	0.24	2,190	7.8	14.5	7.4	--	1,630	1,500	18	-83.3	-10.55
28	03-18-93	1030	--	1,860	7.9	7.5	8.9	--	1,550	1,370	24	-85.3	-10.81
	03-08-94	1050	0.08	1,840	7.7	6.0	6.6	66	1,400	1,270	17	-84.3	-10.58
	07-22-94	0910	--	1,790	7.3	16.0	6.9	--	1,450	1,310	17	-85.7	-10.58
29	03-18-93	1000	0.20	2,420	7.6	8.0	6.5	67	1,820	1,650	26	-83.8	-10.44
	03-08-94	1020	0.19	2,250	7.6	7.5	6.3	66	1,660	1,540	21	-84.0	-10.39
	07-22-94	0830	0.14	2,220	7.5	20.0	11.6	--	1,670	1,530	13	-81.6	-9.78
30	08-17-93	1300	4.6	1,310	8.4	28.5	--	--	836	849	4	-79.8	-9.67
	08-17-93	1330	4.6	1,310	8.4	28.5	--	--	902	--	5	-79.3	-9.55
	09-29-93	0830	--	615	7.9	8.0	10.9	112	--	--	2	--	--
	10-21-93	0850	25	762	--	8.5	--	--	--	--	3	--	--
	10-28-93	1040	32	825	--	7.0	--	--	--	--	3	--	--
	11-05-93	1140	8.0	680	--	9.0	--	--	--	--	11	--	--
	11-10-93	0900	6.0	2,200	--	0.5	--	--	--	--	14	--	--
	11-17-93	1030	18	2,330	--	2.5	--	--	--	--	13	--	--
	11-24-93	0945	25	1,960	--	2.5	--	--	--	--	11	--	--
	12-02-93	1000	4.0	2,860	--	0.0	--	--	--	--	14	--	--
	12-09-93	1030	19	3,110	--	0.5	--	--	--	--	22	--	--
	12-15-93	1530	e13	2,330	--	0.0	--	--	--	--	17	--	--
	12-23-93	1135	e15	3,680	--	1.0	--	--	--	--	30	--	--
	12-30-93	1130	e13	3,780	--	0.5	--	--	--	--	30	--	--
	01-06-94	1000	e16	2,720	--	0.0	--	--	--	--	20	--	--

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Discharge, instantaneous (cubic feet per second)	Specific conductance (µS/cm)	pH, field (standard units)	Temperature water (°C)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	Solids, residue at 180 °C, dissolved (mg/L)	Solids, sum of constituents, dissolved (mg/L)	Selenium, dissolved (µg/L)	H-2/H-1 stable isotope ratio per mil	O-18/O-16 stable isotope ratio per mil
30	01-12-94	1250	e12	2,890	--	0.0	--	--	--	--	20	--	--
	01-21-94	1110	e10	3,180	--	0.5	--	--	--	--	23	--	--
	01-27-94	1100	e22	1,190	--	0.5	--	--	--	--	17	--	--
	02-03-94	1340	e19	3,420	--	0.0	--	--	--	--	25	--	--
	02-11-94	1110	23	2,730	--	1.5	--	--	--	--	14	--	--
	02-17-94	1300	9.0	2,500	--	11.5	--	--	--	--	18	--	--
	02-22-94	1145	14	2,850	--	9.0	--	--	--	--	18	--	--
	02-28-94	0830	25	2,700	--	5.0	--	--	--	--	17	--	--
	03-08-94	0920	15	2,730	8.1	6.5	7.5	76	2,130	2,060	19	-83.8	-10.07
	03-16-94	1400	8.0	3,130	--	22.5	--	--	--	--	20	--	--
	03-24-94	0900	9.0	2,050	--	8.5	--	--	--	--	13	--	--
	03-29-94	0845	9.0	2,850	--	3.0	--	--	--	--	16	--	--
	04-06-94	1100	12	2,870	--	14.0	--	--	--	--	20	--	--
	04-15-94	1030	6.0	2,560	--	13.0	--	--	--	--	12	--	--
	04-19-94	0930	8.0	2,670	--	15.0	--	--	--	--	17	--	--
	04-28-94	1415	6.0	2,380	--	18.0	--	--	--	--	17	--	--
	05-05-94	1500	18	2,280	--	27.0	--	--	--	--	11	--	--
	05-11-94	1050	21	2,390	--	21.0	--	--	--	--	11	--	--
	05-19-94	1730	19	2,110	--	21.0	--	--	--	--	8	--	--
	05-23-94	1100	27	1,730	--	25.0	--	--	--	--	6	--	--
	06-01-94	1120	3.0	2,810	--	26.0	--	--	--	--	16	--	--
	06-09-94	1620	14	1,430	--	--	--	--	--	--	5	--	--
	06-15-94	0800	9.0	1,410	--	12.0	--	--	--	--	5	--	--
	06-23-94	0815	11	665	--	16.5	--	--	--	--	3	--	--
	07-05-94	1345	8.0	932	--	32.0	--	--	--	--	3	--	--

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Discharge, instantaneous (cubic feet per second)	Specific conductance (µS/cm)	pH, field (standard units)	Temperature water (°C)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	Solids, residue at 180 °C, dissolved (mg/L)	Solids, sum of constituents, dissolved (mg/L)	Selenium, dissolved (µg/L)	H-2/H-1 stable isotope ratio per mil	O-18/O-16 stable isotope ratio per mil
30	07-15-94	0820	32	739	–	16.5	–	–	–	–	2	–	–
	07-20-94	1500	18	1,300	8.6	32.5	6.4	–	918	887	4	-76.3	-8.72
	07-25-94	1600	9.0	1,120	8.3	31.5	6.2	–	–	–	4	–	–
	08-02-94	0930	9.0	1,250	–	23.5	–	–	–	–	3	–	–
	08-09-94	0945	19	940	–	22.5	–	–	–	–	3	–	–
	08-16-94	1045	23	892	–	26.5	–	–	–	–	2	–	–
	08-26-94	0900	15	1,230	–	20.0	–	–	–	–	4	–	–
	08-31-94	1450	6.0	1,420	–	33.0	–	–	–	–	6	–	–
	09-06-94	1130	1.0	1,830	–	26.0	–	–	–	–	7	–	–
	09-23-94	0800	7.0	1,270	–	6.5	–	–	–	–	5	–	–
	09-29-94	1015	34	881	–	14.5	–	–	–	–	4	–	–
	10-06-94	1350	14	1,100	–	23.0	–	–	–	–	4	–	–
	10-17-94	1340	6.0	1,890	–	13.5	–	–	–	–	5	–	–
31	03-18-93	1310	<0.10	1,870	7.8	10.5	8.9	98	1,340	1,220	22	-82.4	-10.18
	03-08-94	1330	e0.06	1,540	7.3	5.0	5.6	55	1,430	1,330	7	-82.7	-10.26
32	07-22-94	1050	–	688	7.7	21.5	7.7	–	453	417	1	-93.7	-12.64
33	03-18-93	1340	<0.20	2,040	8.2	18.5	10.9	143	1,510	1,290	9	-77.9	-9.81
	03-08-94	1300	0.13	1,860	7.7	5.0	7.3	72	1,300	1,180	9	-78.1	-9.75
34	03-18-93	1230	0.07	2,120	8.5	9.5	15.5	–	1,560	1,420	6	-77.0	-9.41
	03-08-94	1230	–	1,810	8.4	9.0	10.2	110	1,280	1,200	9	-77.8	-9.73
	07-22-94	1030	–	2,600	8.7	23.5	6.3	–	1,940	1,800	2	-40.3	-0.25
35	08-10-93	1530	2.8	1,510	8.3	25.0	7.0	105	1,110	1,020	10	-89.7	-11.66
	09-29-93	1335	–	1,560	8.3	15.0	9.9	121	–	–	13	–	–
	10-21-93	1030	3.7	2,000	–	6.0	–	–	–	–	15	–	–
	10-28-93	0930	2.1	3,210	–	4.0	–	–	–	–	28	–	–

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Discharge, instantaneous (cubic feet per second)	Specific conductance (µS/cm)	pH, field (standard units)	Temperature water (°C)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	Solids, residue at 180 °C, dissolved (mg/L)	Solids, sum of constituents, dissolved (mg/L)	Selenium, dissolved (µg/L)	H-2/H-1 stable isotope ratio per mil	O-18/O-16 stable isotope ratio per mil
35	11-05-93	1030	2.0	3,210	--	4.0	--	--	--	--	26	--	--
	11-10-93	1000	1.8	3,140	--	2.0	--	--	--	--	32	--	--
	11-17-93	0930	1.9	3,200	--	3.5	--	--	--	--	27	--	--
	11-24-93	1030	2.0	3,180	--	3.5	--	--	--	--	29	--	--
	12-02-93	1155	2.0	3,210	--	1.0	--	--	--	--	32	--	--
	12-09-93	1215	2.5	3,210	--	0.0	--	--	--	--	33	--	--
	12-15-93	1650	2.1	3,200	--	3.0	--	--	--	--	34	--	--
	12-23-93	1000	2.6	3,170	--	4.5	--	--	--	--	34	--	--
	12-30-93	1010	e2.3	3,650	--	0.0	--	--	--	--	34	--	--
	01-06-94	0910	1.7	3,220	--	0.5	--	--	--	--	32	--	--
	01-12-94	1350	e1.5	3,520	--	0.0	--	--	--	--	37	--	--
	01-21-94	1230	1.3	3,630	--	0.0	--	--	--	--	37	--	--
	01-27-94	1230	1.0	3,380	--	3.0	--	--	--	--	33	--	--
	02-03-94	1500	2.2	3,330	--	0.0	--	--	--	--	31	--	--
	02-11-94	1010	1.7	3,410	--	2.0	--	--	--	--	32	--	--
	02-17-94	1510	2.2	3,200	--	9.5	--	--	--	--	30	--	--
	02-22-94	0955	1.8	3,320	--	2.5	--	--	--	--	30	--	--
	02-28-94	0930	2.1	3,260	--	5.5	--	--	--	--	28	--	--
	03-08-94	1410	2.0	3,090	8.3	9.5	7.5	81	2,400	2,280	27	-81.3	-10.06
	03-16-94	1845	1.7	3,340	--	13.0	--	--	--	--	28	--	--
	03-24-94	1030	1.8	3,290	--	9.0	--	--	--	--	27	--	--
	03-29-94	0950	1.5	3,260	--	5.0	--	--	--	--	28	--	--
	04-06-94	0930	1.8	3,330	--	3.5	--	--	--	--	26	--	--
	04-15-94	0930	1.6	3,340	--	7.0	--	--	--	--	30	--	--
	04-19-94	1145	1.6	3,270	--	15.5	--	--	--	--	31	--	--

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Discharge, instantaneous (cubic feet per second)	Specific conductance (µS/cm)	pH, field (standard units)	Temperature water (°C)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	Solids, residue at 180 °C, dissolved (mg/L)	Solids, sum of constituents, dissolved (mg/L)	Selenium, dissolved (µg/L)	H-2/H-1 stable isotope ratio per mil	O-18/O-16 stable isotope ratio per mil
35	04-28-94	1300	2.1	2,690	--	14.0	--	--	--	--	23	--	--
	05-05-94	1400	2.0	2,590	--	23.5	--	--	--	--	23	--	--
	05-11-94	1155	2.2	2,600	--	16.5	--	--	--	--	23	--	--
	05-19-94	1630	1.7	2,540	--	23.0	--	--	--	--	23	--	--
	05-23-94	1540	1.7	2,500	--	23.0	--	--	--	--	23	--	--
	06-01-94	1215	2.6	2,550	--	20.0	--	--	--	--	22	--	--
	06-09-94	1500	1.4	2,370	--	--	--	--	--	--	17	--	--
	06-15-94	0845	1.6	2,600	--	13.0	--	--	--	--	23	--	--
	06-23-94	0915	1.7	2,580	--	16.5	--	--	--	--	21	--	--
	07-05-94	1500	0.90	2,450	--	26.5	--	--	--	--	20	--	--
	07-15-94	0900	1.8	2,600	--	17.5	--	--	--	--	22	--	--
	07-21-94	0830	1.0	2,550	8.0	18.0	8.7	--	1,870	1,760	21	-84.9	-10.68
	07-26-94	1550	0.90	2,280	8.4	28.0	8.5	--	--	--	18	--	--
	08-02-94	1220	3.0	1,650	--	22.5	--	--	--	--	10	--	--
	08-09-94	1050	3.4	1,660	--	19.5	--	--	--	--	8	--	--
	08-16-94	1125	3.4	1,650	--	20.5	--	--	--	--	9	--	--
	08-26-94	1000	2.9	1,640	--	17.5	--	--	--	--	8	--	--
	08-31-94	1605	2.7	1,500	--	22.5	--	--	--	--	9	--	--
	09-06-94	1240	3.3	1,610	--	19.5	--	--	--	--	11	--	--
	09-23-94	0900	3.2	1,590	--	10.0	--	--	--	--	10	--	--
	09-29-94	1115	3.4	1,560	--	12.0	--	--	--	--	10	--	--
	10-06-94	1450	3.6	1,550	--	13.5	--	--	--	--	11	--	--
	10-17-94	1130	8.2	1,310	--	6.5	--	--	--	--	7	--	--
36	03-08-94	1530	0.19	5,980	8.3	12.0	7.9	91	4,660	4,630	<1	-93.7	-12.61
37	08-18-93	1215	0.85	3,150	8.1	19.5	8.8	119	2,220	2,160	<1	-94.6	-12.51

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Discharge, instan-taneous (cubic feet per second)	Specific conduct-ance (µS/cm)	pH, field (standard units)	Temper-ature water (°C)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	Solids, residue at 180 °C, dissolved (mg/L)	Solids, sum of constit-uents, dissolved (mg/L)	Selenium, dissolved (µg/L)	H-2/ H-1 stable isotope ratio per mil	O-18/ O-16 stable isotope ratio per mil
37	03-08-94	1515	–	5,220	8.2	11.5	7.1	81	4,240	4,210	<1	-93.9	-12.56
	07-21-94	1000	1.1	3,240	7.5	18.0	0.1	–	2,480	2,390	<1	-97.3	-12.87
38	08-12-93	0900	–	708	7.8	19.0	6.4	84	445	–	<1	-101.0	-13.68
	07-27-94	0900	–	634	7.5	18.5	7.2	–	402	372	<1	-97.9	-13.22
39	03-18-93	1530	–	2,840	9.3	11.5	10.1	115	1,800	1,760	3	-51.9	-4.90
	08-17-93	1030	–	8,170	8.7	20.0	–	–	–	–	–	13.9	10.18
	03-07-94	1410	–	4,000	8.9	10.5	5.4	61	3,110	2,690	2	-42.7	-3.01
	07-21-94	1330	–	8,320	9.1	24.5	7.8	–	5,780	5,640	2	22.4	11.92
	07-21-94	1410	–	8,520	9.1	22.5	4.5	–	5,900	5,630	2	21.7	12.00
40	09-29-93	1200	–	1,910	8.6	15.5	9.8	121	1,180	1,180	2	-53.2	-5.92
	07-21-94	1430	–	2,240	9.1	24.5	11.7	–	1,360	1,300	2	-43.8	-2.88
41	03-18-93	1515	<0.01	1,500	8.2	12.0	10.3	117	952	932	3	-64.4	-8.76
	08-17-93	0900	0.00	1,470	8.1	19.0	–	–	886	–	2	-66.8	-8.82
	03-07-94	1500	–	1,540	7.7	7.5	7.9	82	920	909	3	-64.3	-8.70
	07-21-94	1500	–	1,470	8.0	19.5	6.1	–	860	828	2	-66.0	-8.64
42	08-12-93	1230	–	e1,730	7.7	23.5	5.6	–	1,280	1,220	<1	-96.5	-12.90
	07-26-94	1440	–	2,350	7.1	27.5	7.8	–	2,140	2,040	<1	-93.8	-12.34
43	08-12-93	1400	–	1,450	7.5	21.5	4.9	68	1,070	995	<1	-94.0	-12.65
	07-26-94	1400	0.03	1,610	7.1	23.0	1.8	–	1,190	1,100	<1	-92.2	-12.08
44	03-19-93	1130	<0.50	2,090	7.4	12.0	9.0	–	1,700	1,560	12	-95.3	-12.96
	08-13-93	1330	0.25	2,560	7.3	17.5	5.1	65	2,220	1,990	14	-95.9	-13.15
	07-27-94	1520	–	2,640	7.2	20.5	8.5	–	2,220	2,020	10	-99.6	-13.27
	07-27-94	1535	–	2,640	7.1	20.5	7.8	–	2,240	2,040	10	-97.6	-13.36
45	08-13-93	1220	66	598	7.3	20.5	7.3	99	378	365	<1	-98.0	-13.41
	07-27-94	1400	111	594	7.8	21.5	7.2	–	383	353	<1	-95.7	-12.91

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Discharge, instantaneous (cubic feet per second)	Specific conductance (µS/cm)	pH, field (standard units)	Temperature water (°C)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	Solids, residue at 180 °C, dissolved (mg/L)	Solids, sum of constituents, dissolved (mg/L)	Selenium, dissolved (µg/L)	H-2/H-1 stable isotope ratio per mil	O-18/O-16 stable isotope ratio per mil
46	07-27-94	1215	--	e9,310	e7.6	--	--	--	5,990	5,890	<1	-94.6	-12.56
47	03-19-93	1030	<0.50	2,400	7.8	12.0	10.6	--	2,150	1,920	16	-95.7	-12.89
	08-13-93	0830	0.82	2,170	7.5	16.5	4.4	56	1,860	1,700	9	-95.6	-12.99
	08-13-93	0900	0.82	2,200	7.5	16.5	4.6	59	1,850	1,660	9	-96.6	-13.07
	09-29-93	1700	0.51	1,810	7.9	20.5	11.5	157	1,460	1,350	8	-96.3	-13.12
	03-10-94	0850	0.09	2,380	7.5	5.0	7.5	71	2,140	1,930	14	-96.1	-12.83
	03-10-94	0910	0.09	2,380	7.5	5.0	7.4	70	2,160	1,930	13	-96.7	-12.85
	07-27-94	1200	1.2	2,130	7.3	21.0	5.7	--	1,740	1,580	9	-98.1	-13.08
48	03-19-93	1000	<0.50	2,390	7.8	12.5	10.9	--	1,910	1,740	15	-94.0	-12.75
49	08-13-93	1030	0.81	2,150	7.7	18.5	7.4	97	1,790	1,620	8	-96.3	-13.08
	03-10-94	0950	0.08	2,250	7.9	5.5	9.2	88	2,000	1,860	11	-95.0	-12.56
	07-27-94	1315	1.2	2,110	7.8	25.0	13.3	--	1,760	1,590	7	-96.5	-13.01
50	03-19-93	1245	--	1,780	7.9	12.0	10.4	118	1,530	1,390	37	-95.6	-13.00
51	03-15-93	1630	14	405	8.0	8.0	9.7	100	259	--	1	-96.1	-13.04
	08-11-93	0900	48	625	8.3	21.0	7.0	95	406	382	<1	-98.3	-13.24
	03-09-94	1530	26	700	8.2	9.5	7.5	79	467	433	1	-101.0	-13.42
	07-26-94	0900	13	483	7.9	21.0	7.6	--	315	292	<1	-96.9	-12.99
52	08-11-93	1200	0.52	1,520	7.5	19.5	4.6	62	1,120	1,090	<1	-93.7	-12.60
	07-26-94	1115	0.09	1,070	7.4	20.5	7.0	--	738	679	<1	-94.2	-12.66
QUALITY-ASSURANCE SAMPLES: DUPLICATES													
3	08-24-93	0845	--	300	7.4	16.5	2.8	35	253	231	<1	-93.8	-12.81
	08-24-93	0900	--	--	7.5	17.0	1.2	--	244	231	<1	-93.3	-12.83
16	09-30-93	0900	28	269	7.8	10.0	9.8	106	177	168	<1	-94.6	-13.04
	09-30-93	1000	28	272	8.2	10.5	10.4	113	180	168	<1	-96.1	-13.10
	09-28-94	1220	32	256	8.7	12.0	10.8	123	167	148	<1	-99.9	-13.28

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Discharge, instantaneous (cubic feet per second)	Specific conductance (µS/cm)	pH, field (standard units)	Temperature water (°C)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	Solids, residue at 180 °C, dissolved (mg/L)	Solids, sum of constituents, dissolved (mg/L)	Selenium, dissolved (µg/L)	H-2/H-1 stable isotope ratio per mil	O-18/O-16 stable isotope ratio per mil
16	09-28-94	1320	32	248	8.8	13.0	11.1	128	165	148	<1	-98.8	-13.26
19	03-17-93	1500	--	1,710	7.2	8.0	0.7	--	1,270	1,230	1	-89.0	-12.05
	03-17-93	1515	--	1,870	7.2	8.0	1.0	--	1,270	1,210	1	-88.6	-12.09
22	07-20-94	1030	--	2,150	7.2	15.5	4.9	--	1,660	1,600	2	--	--
	07-20-94	1100	--	2,180	7.2	16.0	4.4	--	2,180	2,040	3	-89.9	-12.03
30	08-17-93	1300	4.6	1,310	8.4	28.5	--	--	836	849	4	-79.8	-9.67
	08-17-93	1330	4.6	1,310	8.4	28.5	--	--	902	--	5	-79.3	-9.55
39	07-21-94	1330	--	8,320	9.1	24.5	7.8	--	5,780	5,640	2	22.4	11.92
	07-21-94	1410	--	8,520	9.1	22.5	4.5	--	5,900	5,630	2	21.7	12.00
44	07-27-94	1520	--	2,640	7.2	20.5	8.5	--	2,220	2,020	10	-99.6	-13.27
	07-27-94	1535	--	2,640	7.2	20.5	7.8	--	2,240	2,040	10	-97.6	-13.36
47	08-13-93	0830	0.82	2,170	7.5	16.5	4.4	56	1,860	1,700	9	-95.6	-12.99
	08-13-93	0900	0.82	2,200	7.5	16.5	4.7	59	1,850	1,660	9	-96.6	-13.07
	03-10-94	0850	0.09	2,380	7.5	5.0	7.5	71	2,140	1,930	14	-96.1	-12.83
	03-10-94	0910	0.09	2,380	7.5	5.0	7.4	70	2,160	1,930	13	-96.7	-12.85
QUALITY-ASSURANCE SAMPLES: BLANKS													
Trip blank, unfiltered, ABQ lab DI water	03-11-93	1400	--	--	--	--	--	--	<1	--	<1	--	--
Equipment blank, ABQ lab DI water	03-22-93	0915	--	--	--	--	--	--	<1	--	<1	--	--
Trip blank, ABQ lab DI water	08-10-93	0900	--	--	--	--	--	--	5	--	<1	--	--

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Discharge, instantaneous (cubic feet per second)	Specific conductance (µS/cm)	pH, field (standard units)	Temperature water (°C)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	Solids, residue at 180 °C, dissolved (mg/L)	Solids, sum of constituents, dissolved (mg/L)	Selenium, dissolved (µg/L)	H-2/H-1 stable isotope ratio per mil	O-18/O-16 stable isotope ratio per mil
Ambient blank, ABQ lab DI water	08-12-93	1430	--	--	--	--	--	--	7	--	<1	--	--
Trip blank, ABQ lab DI water	08-16-93	1130	--	--	--	--	--	--	7	--	<1	--	--
Equipment blank, ABQ lab DI water	08-18-93	1610	--	--	--	--	--	--	2	--	<1	--	--
Trip blank, ABQ lab DI water	08-22-93	1300	--	--	--	--	--	--	3	--	<1	--	--
Ambient blank, ABQ lab DI water	08-24-93	1400	--	--	--	--	--	--	3	--	<1	--	--
Trip blank, ABQ lab DI water	09-28-93	0800	--	--	--	--	--	--	<1	--	<1	-97.1	-13.30
Ambient blank, ABQ lab DI water	09-29-93	1115	--	--	--	--	--	--	<1	--	<1	-96.8	-13.28
Ambient blank, IB water	03-07-94	1350	--	--	--	--	--	--	<1	--	<1	--	--
Ambient blank, IB water (acid ampoule)	03-09-94	1600	--	--	--	--	--	--	<1	--	<1	--	--
Trip blank, IB water	07-15-94	0900	--	--	--	--	--	--	4	--	<1	--	--
Ambient blank, IB water	07-18-94	1000	--	--	--	--	--	--	<1	--	<1	--	--

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Discharge, instantaneous (cubic feet per second)	Specific conductance (µS/cm)	pH, field (standard units)	Temperature water (°C)	Oxygen, dissolved (mg/L)	Oxygen, dissolved (percent saturation)	Solids, residue at 180 °C, dissolved (mg/L)	Solids, sum of constituents, dissolved (mg/L)	Selenium, dissolved (µg/L)	H-2/H-1 stable isotope ratio per mil	O-18/O-16 stable isotope ratio per mil
Trip blank, IB water	07-25-94	1050	--	--	--	--	--	--	<1	--	<1	--	--
Ambient blank, IB water	07-26-94	0930	--	--	--	--	--	--	5	--	<1	--	--
Ambient blank, IB water	09-28-94	0920	--	--	--	--	--	--	<1	--	<1	--	--

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Hardness, total (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L)	Alkalinity, lab (mg/L as $CaCO_3$)	Sulfate, dissolved (mg/L)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)	Bromide, dissolved (mg/L)
1	08-23-93	1015	99	29	6.5	14	1.8	84	46	1.9	0.20	<0.010
	07-18-94	1450	97	29	6.0	12	1.6	77	45	1.6	0.10	<0.010
2	08-25-93	1000	2,000	610	120	110	4.1	158	1,900	24	0.70	0.31
	07-28-94	0910	1,900	590	110	230	3.6	179	1,800	22	0.40	0.41
3	08-24-93	0845	160	48	8.8	18	1.8	91	98	2.1	<0.10	0.010
	08-24-93	0900	150	47	8.7	19	1.8	91	98	2.1	<0.10	<0.010
	07-19-94	1300	110	34	6.4	13	1.9	81	58	1.7	0.20	0.010
5	08-23-93	1430	110	34	6.9	14	2.0	85	60	1.8	0.10	0.030
	07-19-94	1000	95	28	6.0	12	1.9	78	40	1.7	0.10	<0.010
7	08-24-93	1130	410	140	14	65	4.2	262	260	4.6	0.40	<0.010
8	08-23-93	1600	470	150	23	84	2.6	122	550	2.9	0.80	0.010
9	08-24-93	1330	1,300	420	68	710	8.9	234	2,600	45	0.10	0.080
12	08-19-93	0845	1,200	370	69	2,000	7.5	438	5,300	54	2.4	0.070
	03-09-94	0800	1,300	380	83	2,100	5.7	443	5,400	58	1.1	0.13
	07-20-94	0800	1,500	480	79	2,200	4.6	546	5,400	69	1.4	0.020
13	09-27-94	1630	98	29	6.1	14	1.8	81	47	1.7	0.20	<0.010
14	09-28-93	1630	110	32	7.0	16	1.7	86	55	2.0	0.20	0.020
	09-28-94	0800	97	29	6.0	14	1.7	81	47	1.7	0.20	<0.010
15	09-28-93	1400	110	33	6.9	16	1.6	89	--	--	--	--
	09-28-94	1010	97	29	6.0	14	1.7	81	47	1.8	0.20	<0.010
16	09-30-93	0900	110	34	6.8	17	1.8	89	53	1.8	0.20	<0.010
	09-30-93	1000	110	34	7.1	17	1.8	89	54	0.50	0.20	<0.010
	09-28-94	1220	97	29	6.0	14	1.7	81	47	1.8	0.20	<0.010
	09-28-94	1320	97	29	6.0	14	1.7	81	47	1.7	0.20	<0.010
17	03-17-93	1230	470	150	22	200	2.6	234	590	7.1	0.40	0.070

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Hardness, total (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L)	Alkalinity, lab (mg/L as $CaCO_3$)	Sulfate, dissolved (mg/L)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)	Bromide, dissolved (mg/L)
17	08-19-93	1100	560	180	27	180	3.2	310	620	7.5	0.50	0.080
	03-09-94	0950	710	230	34	240	2.7	321	870	10	0.50	0.10
	07-20-94	1115	760	240	39	170	3.2	316	820	9.8	0.50	0.090
	09-27-94	1430	940	300	46	230	3.9	304	1,100	14	0.60	0.14
18	03-17-93	1345	860	290	34	220	2.6	255	980	22	0.50	0.15
	03-09-94	1020	810	270	32	240	2.2	357	890	16	0.70	0.12
	07-20-94	1130	640	210	27	200	2.6	373	670	14	0.60	0.11
19	03-17-93	1500	420	140	17	300	3.0	633	310	79	0.30	0.26
	03-17-93	1515	420	140	16	290	3.2	587	330	76	0.30	0.27
20	03-17-93	1000	810	270	33	330	3.2	203	1,000	27	0.40	0.20
	08-19-93	1550	720	240	29	210	1.6	397	720	10	0.60	0.14
	03-09-94	1210	670	220	29	180	1.6	316	730	11	0.70	0.090
	07-20-94	1320	580	190	26	160	2.4	341	550	9.7	0.60	0.10
21	03-17-93	1100	840	280	35	220	2.7	274	960	23	0.60	0.15
	08-19-93	1530	690	230	28	220	1.8	415	680	11	0.70	0.14
	03-09-94	1150	960	330	33	280	2.5	365	1,100	21	0.70	0.14
	07-20-94	1300	610	200	26	190	2.4	373	620	15	0.60	0.13
	09-27-94	1300	610	200	27	190	1.9	397	630	9.0	0.80	0.11
22	03-17-93	1315	940	300	47	260	3.4	199	1,200	16	0.40	0.11
	08-19-93	1410	620	200	29	200	3.1	302	670	8.6	0.50	0.10
	03-09-94	1040	650	210	31	240	3.7	329	710	10	0.70	<0.010
	07-20-94	1030	840	270	41	190	3.6	307	900	10	0.50	0.10
	07-20-94	1100	1,100	360	50	240	4.3	304	1,200	5.7	0.60	0.13
23	08-20-93	1100	110	32	8.5	200	5.2	292	120	23	1.8	–
	09-03-94	0617	8	2.7	0.20	250	1.2	188	330	9.7	1.1	1.1

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Hardness, total (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L)	Alkalinity, lab (mg/L as $CaCO_3$)	Sulfate, dissolved (mg/L)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)	Bromide, dissolved (mg/L)
24	08-20-93	1200	94	35	1.7	600	4.3	460	900	30	2.1	0.27
25	08-20-93	0950	94	28	5.9	12	1.7	79	40	1.6	0.10	0.020
	07-19-94	0815	88	26	5.6	11	1.8	77	37	1.6	0.20	<0.010
27	03-18-93	1115	720	240	29	250	1.3	176	830	100	0.40	0.94
	03-08-94	1110	660	220	27	230	1.6	245	720	80	0.50	0.78
	07-22-94	0945	700	230	30	250	0.60	283	740	76	0.50	0.80
28	03-18-93	1030	480	160	20	300	0.90	221	670	84	0.80	0.76
	03-08-94	1050	480	160	20	250	1.2	248	610	75	0.90	0.70
	07-22-94	0910	490	160	22	280	0.40	278	600	75	1.2	0.75
29	03-18-93	1000	750	250	30	280	1.6	119	910	110	0.40	0.96
	03-08-94	1020	690	230	27	250	1.8	214	820	85	0.60	0.85
	07-22-94	0830	550	170	30	290	0.70	155	860	88	0.60	0.51
30	08-17-93	1300	290	95	14	160	4.0	137	460	33	0.50	0.35
	08-17-93	1330	300	96	14	160	<0.10	136	470	33	0.50	0.34
	03-08-94	0920	640	210	29	420	3.2	166	1,200	96	0.80	0.86
	07-20-94	1500	260	83	12	200	3.8	142	470	32	0.50	0.36
31	03-18-93	1310	570	180	29	200	1.8	220	520	150	0.70	2.2
	03-08-94	1330	710	220	38	180	2.9	237	560	180	0.60	1.8
32	07-22-94	1050	250	79	13	47	3.2	96	190	27	0.30	0.12
33	03-18-93	1340	650	200	37	210	1.5	133	580	180	0.50	0.78
	03-08-94	1300	570	180	30	180	2.3	219	530	120	0.50	1.0
34	03-18-93	1230	690	210	40	220	3.2	164	660	190	0.40	1.4
	03-08-94	1230	560	170	33	190	2.5	212	560	120	0.40	1.1
	07-22-94	1030	630	170	50	360	4.6	110	930	220	0.60	1.7
35	08-10-93	1530	390	110	28	180	1.6	172	540	58	0.70	0.41

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Hardness, total (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L)	Alkalinity, lab (mg/L as $CaCO_3$)	Sulfate, dissolved (mg/L)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)	Bromide, dissolved (mg/L)
35	03-08-94	1410	860	240	63	410	2.5	345	1,200	150	1.0	1.3
	07-21-94	0830	700	200	48	340	1.7	238	930	99	0.90	0.73
36	03-08-94	1530	850	230	66	1,200	4.0	430	2,700	170	1.4	0.33
37	08-18-93	1215	450	130	31	530	4.5	304	1,200	79	0.80	0.13
	03-08-94	1515	790	220	59	1,100	3.9	431	2,400	170	1.2	0.42
	07-21-94	1000	460	130	33	640	2.6	319	1,300	89	1.2	0.17
38	08-12-93	0900	250	79	13	44	<0.10	160	170	17	0.40	0.080
	07-27-94	0900	210	65	11	44	3.1	142	150	13	0.30	0.030
39	03-18-93	1530	48	12	4.4	640	3.9	536	500	270	7.6	0.17
	08-17-93	1030	--	--	--	--	--	--	--	--	--	--
	03-07-94	1410	62	13	7.2	930	5.5	967	770	370	11	0.64
	07-21-94	1330	87	15	12	2,100	18	1,730	1,600	830	25	1.9
	07-21-94	1410	87	15	12	2,100	11	1,740	1,600	820	23	1.1
40	09-29-93	1200	41	9.5	4.2	430	0.60	373	350	160	6.1	0.27
	07-21-94	1430	33	5.5	4.6	480	0.80	406	380	180	6.9	0.30
41	03-18-93	1515	77	23	4.8	330	0.30	334	260	110	3.7	0.20
	08-17-93	0900	50	15	3.1	280	<0.10	337	230	84	4.2	0.19
	03-07-94	1500	73	22	4.5	310	0.30	331	260	110	3.5	0.21
	07-21-94	1500	56	17	3.3	280	0.20	334	230	93	4.2	0.19
42	08-12-93	1230	730	210	51	120	4.9	244	630	62	0.40	0.19
	07-26-94	1440	1,200	340	82	230	4.2	347	1,000	170	0.40	0.27
43	08-12-93	1400	650	180	48	72	4.7	302	490	19	0.40	0.080
	07-26-94	1400	680	190	49	85	4.8	278	580	26	0.60	0.14
44	03-19-93	1130	1,000	220	110	130	4.8	259	920	19	0.30	0.080
	08-13-93	1330	1,200	280	130	150	7.2	335	1,200	22	0.40	0.11

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Hardness, total (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L)	Alkalinity, lab (mg/L as $CaCO_3$)	Sulfate, dissolved (mg/L)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)	Bromide, dissolved (mg/L)
44	07-27-94	1520	1,400	330	140	130	6.8	307	1,200	24	0.40	0.13
	07-27-94	1535	1,400	330	150	140	7.4	307	1,200	23	0.40	0.15
45	08-13-93	1220	220	67	12	38	3.0	138	150	12	0.30	0.060
	07-27-94	1400	170	54	8.5	51	3.4	126	150	10	0.30	0.060
46	07-27-94	1215	130	21	19	2,300	9.2	2,520	330	1,700	0.30	--
47	03-19-93	1030	1,100	240	110	240	3.7	240	1,100	79	0.40	0.15
	08-13-93	0830	1,000	230	110	150	6.1	306	990	26	0.50	0.10
	08-13-93	0900	960	220	100	150	6.1	303	980	26	0.50	0.080
	09-29-93	1700	840	200	82	120	4.8	235	780	20	0.50	0.070
	03-10-94	0850	1,200	260	130	190	3.7	348	1,100	41	0.50	0.060
	03-10-94	0910	1,200	260	130	190	3.7	338	1,100	38	0.50	0.060
	07-27-94	1200	990	230	100	140	5.4	284	910	22	0.40	0.080
48	03-19-93	1000	1,100	240	110	200	3.6	235	1,000	48	0.40	0.12
49	08-13-93	1030	950	220	98	150	5.6	303	940	25	0.50	0.080
	03-10-94	0950	1,100	240	120	180	3.6	301	1,100	38	0.40	0.050
	07-27-94	1315	990	230	100	140	4.9	276	920	26	0.40	0.12
50	03-19-93	1245	910	230	81	120	4.3	192	810	30	0.50	0.16
51	03-15-93	1630	160	47	11	25	1.9	102	92	<0.10	0.20	0.020
	08-11-93	0900	220	65	13	40	2.8	134	160	20	0.40	0.090
	03-09-94	1530	240	70	17	46	2.9	134	200	16	0.30	0.030
	07-26-94	0900	160	48	8.8	37	2.6	111	120	9.1	0.30	0.090
52	08-11-93	1200	650	200	37	77	8.1	312	560	22	0.60	0.090
	07-26-94	1115	420	130	24	61	3.0	213	320	13	0.40	0.070
QUALITY-ASSURANCE SAMPLES: DUPLICATES												
3	08-24-93	0845	160	48	8.8	18	1.8	91	98	2.1	<0.10	0.010
	08-24-93	0900	150	47	8.7	19	1.8	91	98	2.1	<0.10	<0.010
16	09-30-93	0900	110	34	6.8	17	1.8	89	53	1.8	0.20	<0.010
	09-30-93	1000	110	34	7.1	17	1.8	89	54	0.50	0.20	<0.010
	09-28-94	1220	97	29	6.0	14	1.7	81	47	1.8	0.20	<0.010

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Hardness, total (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L)	Alkalinity, lab (mg/L as $CaCO_3$)	Sulfate, dissolved (mg/L)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)	Bromide, dissolved (mg/L)
16	09-28-94	1320	97	29	6.0	14	1.7	81	47	1.7	0.20	<0.010
19	03-17-93	1500	420	140	17	300	3.0	633	310	79	0.30	0.26
	03-17-93	1515	420	140	16	290	3.2	587	330	76	0.30	0.27
22	07-20-94	1030	840	270	41	190	3.6	307	900	10	0.50	0.10
	07-20-94	1100	1,100	360	50	240	4.3	304	1,200	5.7	0.60	0.13
30	08-17-93	1300	290	95	14	160	4.0	137	460	33	0.50	0.35
	08-17-93	1330	300	96	14	160	<0.10	136	470	33	0.50	0.34
39	07-21-94	1330	87	15	12	2,100	18	1,730	1,600	830	25	1.9
	07-21-94	1410	87	15	12	2,100	11	1,740	1,600	820	23	1.1
44	07-27-94	1520	1,400	330	140	130	6.8	307	1,200	24	0.40	0.13
	07-27-94	1535	1,400	330	150	140	7.4	307	1,200	23	0.40	0.15
47	08-13-93	0830	1,000	230	110	150	6.1	306	990	26	0.50	0.10
	08-13-93	0900	960	220	100	150	6.1	303	980	26	0.50	0.080
	03-10-94	0850	1,200	260	130	190	3.7	348	1,100	41	0.50	0.060
	03-10-94	0910	1,200	260	130	190	3.7	338	1,100	38	0.50	0.060
QUALITY-ASSURANCE SAMPLES: BLANKS												
Trip blank, unfiltered, ABQ lab DI water	03-11-93	1400	--	<0.02	<0.01	<0.20	<0.10	1.8	<0.10	<0.10	<0.10	<0.010
Equipment blank, ABQ lab DI water	03-22-93	0915	--	0.03	<0.01	<0.20	<0.10	1.6	0.20	0.20	0.10	0.010
Trip blank, ABQ lab DI water	08-10-93	0900	--	<0.02	<0.01	<0.20	<0.10	3.6	<0.10	0.10	<0.10	0.030
Ambient blank, ABQ lab DI water	08-12-93	1430	0	0.03	0.02	<0.20	<0.10	4.1	0.10	0.20	<0.10	0.060
Trip blank, ABQ lab DI water	08-16-93	1130	--	<0.02	<0.01	<0.20	<0.10	3.5	0.10	<0.10	<0.10	0.030

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Hardness, total (mg/L as $CaCO_3$)	Calcium, dissolved (mg/L)	Magnesium, dissolved (mg/L)	Sodium, dissolved (mg/L)	Potassium, dissolved (mg/L)	Alkalinity, lab (mg/L as $CaCO_3$)	Sulfate, dissolved (mg/L)	Chloride, dissolved (mg/L)	Fluoride, dissolved (mg/L)	Bromide, dissolved (mg/L)
Equipment blank, ABQ lab DI water	08-18-93	1610	--	<0.02	<0.01	<0.20	<0.10	3.4	0.20	0.20	<0.10	0.030
Trip blank, ABQ lab DI water	08-22-93	1300	--	<0.02	<0.01	<0.20	0.30	1.5	<0.10	<0.10	<0.10	0.020
Ambient blank, ABQ lab DI water	08-24-93	1400	--	0.03	<0.01	<0.20	<0.10	1.4	0.10	<0.10	<0.10	0.040
Trip blank, ABQ lab DI water	09-28-93	0800	--	<0.02	<0.01	<0.20	<0.10	4.1	<0.10	0.10	0.10	0.020
Ambient blank, ABQ lab DI water	09-29-93	1115	--	<0.02	<0.01	<0.20	<0.10	<1.0	0.20	0.10	<0.10	<0.010
Ambient blank, IB water	03-07-94	1350	1	0.29	0.04	0.20	<0.10	<1.0	<0.10	0.10	<0.10	0.040
Ambient blank, IB water (acid ampoule)	03-09-94	1600	--	0.04	<0.01	<0.20	<0.10	--	<0.10	<0.10	<0.10	0.020
Trip blank, IB water	07-15-94	0900	--	<0.02	<0.01	<0.20	<0.10	1.3	<0.10	<0.10	<0.10	0.040
Ambient blank, IB water	07-18-94	1000	--	0.03	<0.01	<0.20	<0.10	1.4	<0.10	0.10	<0.10	0.030
Trip blank, IB water	07-25-94	1050	--	<0.02	<0.01	<0.20	<0.10	1.2	<0.10	<0.10	0.10	0.040
Ambient blank, IB water	07-26-94	0930	--	<0.02	<0.01	<0.20	<0.10	1.3	<0.10	0.10	<0.10	0.010
Ambient blank, IB water	09-28-94	0920	--	<0.02	<0.01	<0.20	<0.10	1.8	<0.10	<0.10	<0.10	<0.010

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Arsenic, dissolved (µg/L as As)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)	Chromium, dissolved (µg/L as Cr)	Copper, dissolved (µg/L)	Lead, dissolved (µg/L)	Mercury, dissolved (µg/L)	Molybdenum, dissolved (µg/L)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
1	08-23-93	1015	<1	30	<1.0	<1	1	<1	<0.1	<1	2	<3
	07-18-94	1450	1	20	<1.0	<1	1	<1	<0.1	<1	1	<3
2	08-25-93	1000	<1	130	<1.0	2	<1	<1	<0.1	14	2	<10
	07-28-94	0910	<1	140	<1.0	1	<1	<1	<0.1	8	<1	60
3	08-24-93	0845	<1	20	<1.0	<1	<1	<1	<0.1	--	2	<3
	08-24-93	0900	1	10	<1.0	<1	<1	<1	<0.1	<1	2	<3
	07-19-94	1300	1	20	<1.0	<1	1	<1	<0.1	<1	1	<3
5	08-23-93	1430	2	20	<1.0	<1	3	<1	<0.1	1	3	4
	07-19-94	1000	1	20	<1.0	<1	1	<1	<0.1	<1	1	7
7	08-24-93	1130	16	80	<1.0	<1	<1	<1	<0.1	7	4	<3
8	08-23-93	1600	2	90	<1.0	<1	3	<1	<0.1	4	3	4
9	08-24-93	1330	4	150	<1.0	<1	<1	<1	<0.1	6	5	<10
12	08-19-93	0845	2	580	<1.0	<1	<1	<1	<0.1	<1	3	<10
	03-09-94	0800	2	350	<1.0	<1	<1	<1	<0.1	<1	3	20
	07-20-94	0800	2	610	<1.0	2	<1	<4	<0.1	<1	5	10
13	09-27-94	1630	1	10	<1.0	<1	1	<1	<0.1	<1	1	9
14	09-28-93	1630	<1	20	<1.0	<1	1	<1	<0.1	<1	2	<3
	09-28-94	0800	1	10	<1.0	<1	<1	<1	<0.1	<1	1	6
15	09-28-93	1400	1	20	<1.0	<1	1	<1	<0.1	1	2	<3
	09-28-94	1010	1	20	<1.0	<1	<1	<1	<0.1	<1	1	8
16	09-30-93	0900	1	30	<1.0	<1	4	<1	<0.1	<1	1	<3
	09-30-93	1000	1	20	<1.0	<1	1	<1	<0.1	<1	1	<3
	09-28-94	1220	1	10	<1.0	<1	1	<1	<0.1	<1	1	<3
	09-28-94	1320	1	10	<1.0	<1	1	<1	<0.1	<1	1	<3
17	03-17-93	1230	<1	140	<1.0	<1	1	<1	<0.1	<1	<1	<3

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Arsenic, dissolved (µg/L as As)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)	Chromium, dissolved (µg/L as Cr)	Copper, dissolved (µg/L)	Lead, dissolved (µg/L)	Mercury, dissolved (µg/L)	Molyb-denum, dissolved (µg/L)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
17	08-19-93	1100	<1	160	<1.0	<1	2	<1	<0.1	<1	1	<3
	03-09-94	0950	<1	170	<1.0	<1	2	<1	<0.1	<1	<1	<10
	07-20-94	1115	<1	190	<1.0	<1	<1	<1	<0.1	1	<1	<3
	09-27-94	1430	<1	240	<1.0	3	<1	<1	<0.1	1	<1	<10
18	03-17-93	1345	<1	270	<1.0	<1	<1	<1	<0.1	<1	<1	<10
	03-09-94	1020	<1	280	<1.0	<1	<1	<1	<0.1	1	<1	20
	07-20-94	1130	<1	290	<1.0	<1	1	<1	<0.1	1	<1	<3
19	03-17-93	1500	<1	350	<1.0	<1	150	<1	<0.1	<1	2	200
	03-17-93	1515	<1	360	<1.0	<1	150	<1	<0.1	<1	3	190
20	03-17-93	1000	<1	310	<1.0	<1	2	<1	<0.1	<1	<1	20
	08-19-93	1550	<1	380	<1.0	1	2	<1	<0.1	<1	2	4
	03-09-94	1210	<1	240	<1.0	<1	<1	<1	<0.1	1	<1	3
	07-20-94	1320	<1	270	<1.0	<1	1	<1	<0.1	3	<1	<3
21	03-17-93	1100	<1	260	<1.0	<1	1	<1	<0.1	4	<1	<10
	08-19-93	1530	<1	380	<1.0	1	1	<1	<0.1	<1	2	<3
	03-09-94	1150	<1	270	<1.0	<1	<1	<1	<0.1	2	<1	10
	07-20-94	1300	<1	300	<1.0	<1	1	<1	<0.1	1	<1	<3
	09-27-94	1300	<1	310	<1.0	2	1	<1	<0.1	2	<1	<3
22	03-17-93	1315	<1	230	<1.0	<1	<1	<1	<0.1	<1	<1	<10
	08-19-93	1410	<1	190	<1.0	<1	1	<1	<0.1	<1	2	<3
	03-09-94	1040	1	180	<1.0	<1	<1	<1	<0.1	2	1	10
	07-20-94	1030	<1	180	<1.0	<1	<1	<1	<0.1	1	<1	<10
	07-20-94	1100	1	220	<1.0	1	<1	<1	<0.1	10	<1	<10
23	08-20-93	1100	2	570	<1.0	20	200	47	<0.1	1	390	140
	09-03-94	0617	7	110	<1.0	<1	29	<1	<0.1	<1	38	3

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Arsenic, dissolved (µg/L as As)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)	Chromium, dissolved (µg/L as Cr)	Copper, dissolved (µg/L)	Lead, dissolved (µg/L)	Mercury, dissolved (µg/L)	Molyb-denum, dissolved (µg/L)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
24	08-20-93	1200	3	230	<1.0	<1	6	<1	<0.1	11	8	<10
25	08-20-93	0950	<1	20	<1.0	<1	<1	<1	<0.1	<1	2	7
	07-19-94	0815	<1	20	<1.0	<1	1	<1	<0.1	1	1	<3
27	03-18-93	1115	<1	330	<1.0	<1	1	<1	<0.1	1	3	<10
	03-08-94	1110	<1	280	<1.0	1	<1	<1	<0.1	2	3	40
	07-22-94	0945	<1	370	<1.0	<1	<1	<1	<0.1	1	3	<10
28	03-18-93	1030	<1	340	<1.0	<1	<1	<1	<0.1	5	2	<10
	03-08-94	1050	1	310	<1.0	<1	2	<1	<0.1	5	2	3
	07-22-94	0910	<1	350	<1.0	<1	<1	<1	<0.1	5	3	<3
29	03-18-93	1000	<1	320	<1.0	<1	1	<1	<0.1	4	4	<10
	03-08-94	1020	<1	280	<1.0	<1	<1	<1	<0.1	3	3	60
	07-22-94	0830	<1	390	<1.0	<1	<1	<1	<0.1	3	4	<10
30	08-17-93	1300	1	150	<1.0	<1	2	<1	<0.1	2	4	<3
	08-17-93	1330	1	150	<1.0	<1	2	<1	<0.1	2	4	<3
	03-08-94	0920	<1	310	<1.0	<1	2	<1	<0.1	6	3	40
	07-20-94	1500	1	160	<1.0	1	4	<1	<0.1	4	5	5
31	03-18-93	1310	<1	350	<1.0	<1	1	<1	<0.1	1	5	<3
	03-08-94	1330	<1	180	<1.0	<1	<1	<1	<0.1	1	6	40
32	07-22-94	1050	<1	70	<1.0	<1	1	<1	<0.1	6	3	4
33	03-18-93	1340	<1	270	<1.0	<1	1	<1	<0.1	<1	6	10
	03-08-94	1300	<1	220	<1.0	<1	2	<1	<0.1	1	4	6
34	03-18-93	1230	<1	250	<1.0	<1	<1	<1	<0.1	<1	6	<10
	03-08-94	1230	<1	210	<1.0	<1	1	<1	<0.1	1	4	<3
	07-22-94	1030	1	440	<1.0	<1	1	<1	<0.1	<1	10	<10
35	08-10-93	1530	<1	160	<1.0	<1	2	<1	<0.1	2	3	<3

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Arsenic, dissolved (µg/L as As)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)	Chromium, dissolved (µg/L as Cr)	Copper, dissolved (µg/L)	Lead, dissolved (µg/L)	Mercury, dissolved (µg/L)	Molyb-denum, dissolved (µg/L)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
35	03-08-94	1410	<1	310	<1.0	<1	3	<1	<0.1	5	5	50
	07-21-94	0830	<1	300	<1.0	<1	2	<1	<0.1	6	4	20
36	03-08-94	1530	1	370	<1.0	<1	1	<1	<0.1	9	6	30
37	08-18-93	1215	3	210	<1.0	<1	1	<1	<0.1	2	7	10
	03-08-94	1515	2	340	<1.0	<1	<1	<1	<0.1	7	5	40
	07-21-94	1000	2	220	<1.0	<1	<1	<1	<0.1	5	4	<10
38	08-12-93	0900	<1	60	<1.0	<1	2	<1	<0.1	<1	2	<3
	07-27-94	0900	2	60	<1.0	<1	2	<1	<0.1	2	1	5
39	03-18-93	1530	5	480	<1.0	<1	10	<1	<0.1	7	11	<10
	03-07-94	1410	4	650	<1.0	2	12	5	<0.1	8	15	60
	07-21-94	1330	17	1,600	<1.0	<1	17	<1	<0.1	9	30	20
	07-21-94	1410	15	1,600	<1.0	<1	27	<1	<0.1	15	29	20
40	09-29-93	1200	<1	370	<1.0	<1	<1	<1	<0.1	11	4	25
	07-21-94	1430	<1	340	<1.0	<1	1	<1	<0.1	11	5	<10
41	03-18-93	1515	<1	200	<1.0	<1	<1	<1	<0.1	6	2	<3
	08-17-93	0900	<1	250	<1.0	<1	<1	<1	<0.1	11	4	<3
	03-07-94	1500	<1	180	<1.0	1	<1	<1	<0.1	6	3	9
	07-21-94	1500	<1	220	<1.0	<1	<1	<1	<0.1	9	4	4
42	08-12-93	1230	<1	130	<1.0	<1	3	<1	<0.1	<1	2	13
	07-26-94	1440	2	180	<1.0	1	<1	<1	<0.1	<1	3	40
43	08-12-93	1400	<1	120	<1.0	<1	1	<1	<0.1	<1	2	<3
	07-26-94	1400	4	170	<1.0	<1	<1	<1	<0.1	3	2	9
44	03-19-93	1130	<1	310	<1.0	<1	<1	<1	<0.1	2	1	<3
	08-13-93	1330	<1	370	<1.0	<1	1	<1	<0.1	1	1	40
	07-27-94	1520	1	380	<1.0	<1	<1	<1	<0.1	5	<1	<10

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Arsenic, dissolved (µg/L as As)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)	Chromium, dissolved (µg/L as Cr)	Copper, dissolved (µg/L)	Lead, dissolved (µg/L)	Mercury, dissolved (µg/L)	Molyb-denum, dissolved (µg/L)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
44	07-27-94	1535	1	370	<1.0	<1	<1	<1	<0.1	5	<1	<10
45	08-13-93	1220	<1	60	<1.0	<1	3	<1	<0.1	<1	1	<3
	07-27-94	1400	1	50	<1.0	2	2	<1	<0.1	2	2	8
46	07-27-94	1215	5	1,100	<1.0	<1	<1	<1	<0.1	<1	200	<10
47	03-19-93	1030	2	320	<1.0	<1	<1	<1	<0.1	5	2	<10
	08-13-93	0830	<1	300	<1.0	<1	<1	<1	<0.1	2	2	130
	08-13-93	0900	<1	290	<1.0	<1	<1	<1	<0.1	2	2	130
	09-29-93	1700	<1	250	<1.0	<1	<1	<1	<0.1	7	2	<3
	03-10-94	0850	1	310	<1.0	<1	<1	<1	<0.1	6	1	20
	03-10-94	0910	<1	310	<1.0	<1	<1	<1	<0.1	5	1	<10
	07-27-94	1200	1	290	<1.0	<1	<1	<1	<0.1	5	1	<10
48	03-19-93	1000	1	290	<1.0	<1	1	<1	<0.1	1	1	<10
49	08-13-93	1030	<1	290	<1.0	<1	1	<1	<0.1	1	2	110
	03-10-94	0950	1	290	<1.0	<1	<1	<1	<0.1	5	1	10
	07-27-94	1315	2	280	<1.0	<1	<1	<1	<0.1	6	2	<10
50	03-19-93	1245	<1	190	<1.0	<1	<1	<1	<0.1	5	<1	<3
51	03-15-93	1630	<1	30	<1.0	<1	1	<1	<0.1	<1	<1	<3
	08-11-93	0900	<1	40	<1.0	<1	2	<1	<0.1	<1	<1	4
	03-09-94	1530	1	70	<1.0	<1	1	<1	<0.1	1	<1	5
	07-26-94	0900	2	40	<1.0	<1	2	<1	<0.1	1	2	<3
52	08-11-93	1200	1	170	<1.0	<1	3	<1	<0.1	1	2	6
	07-26-94	1115	1	100	<1.0	<1	1	<1	<0.1	3	2	<3
					QUALITY-ASSURANCE SAMPLES: DUPLICATES							
3	08-24-93	0845	<1	20	<1.0	<1	<1	<1	<0.1	--	2	<3
	08-24-93	0900	1	10	<1.0	<1	<1	<1	<0.1	<1	2	<3
16	09-30-93	0900	1	30	<1.0	<1	4	<1	<0.1	<1	1	<3
	09-30-93	1000	1	20	<1.0	<1	1	<1	<0.1	<1	1	<3
	09-28-94	1220	1	10	<1.0	<1	1	<1	<0.1	<1	1	<3

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Arsenic, dissolved (µg/L as As)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)	Chromium, dissolved (µg/L as Cr)	Copper, dissolved (µg/L)	Lead, dissolved (µg/L)	Mercury, dissolved (µg/L)	Molyb-denum, dissolved (µg/L)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
16	09-28-94	1320	1	10	<1.0	<1	1	<1	<0.1	<1	1	<3
19	03-17-93	1500	<1	350	<1.0	<1	150	<1	<0.1	<1	2	200
	03-17-93	1515	<1	360	<1.0	<1	150	<1	<0.1	<1	3	190
22	07-20-94	1030	<1	180	<1.0	<1	<1	<1	<0.1	1	<1	<10
	07-20-94	1100	1	220	<1.0	1	<1	<1	<0.1	10	<1	<10
30	08-17-93	1300	1	150	<1.0	<1	2	<1	<0.1	2	4	<3
	08-17-93	1330	1	150	<1.0	<1	2	<1	<0.1	2	4	<3
39	07-21-94	1330	17	1,600	<1.0	<1	17	<1	<0.1	9	30	20
	07-21-94	1410	15	1,600	<1.0	<1	27	<1	<0.1	15	29	20
44	07-27-94	1520	1	380	<1.0	<1	<1	<1	<0.1	5	<1	<10
	07-27-94	1535	1	370	<1.0	<1	<1	<1	<0.1	5	<1	<10
47	08-13-93	0830	<1	300	<1.0	<1	<1	<1	<0.1	2	2	130
	08-13-93	0900	<1	290	<1.0	<1	<1	<1	<0.1	2	2	130
	03-10-94	0850	1	310	<1.0	<1	<1	<1	<0.1	6	1	20
	03-10-94	0910	<1	310	<1.0	<1	<1	<1	<0.1	5	1	<10
QUALITY-ASSURANCE SAMPLES: BLANKS												
Trip blank, unfiltered, ABQ lab DI water	03-11-93	1400	<1	<10	<1.0	<1	<1	<1	<0.1	<1	<1	<3
Equipment blank, ABQ lab DI water	03-22-93	0915	1	<10	<1.0	<1	<1	<1	<0.1	<1	<1	4
Trip blank, ABQ lab DI water	08-10-93	0900	<1	<10	<1.0	<1	<1	<1	<0.1	<1	<1	<3
Ambient blank, ABQ lab DI water	08-12-93	1430	<1	<10	<1.0	<1	<1	<1	<0.1	<1	<1	<3
Trip blank, ABQ lab DI water	08-16-93	1130	<1	<10	<1.0	2	<1	<1	<0.1	<1	<1	<3

Table 3.--Physical properties of and concentrations of selected chemical constituents in water samples and quality-assurance samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Concluded

Site number (fig. 2, table 1)	Date	Time	Arsenic, dissolved (µg/L as As)	Boron, dissolved (µg/L as B)	Cadmium, dissolved (µg/L as Cd)	Chromium, dissolved (µg/L as Cr)	Copper, dissolved (µg/L)	Lead, dissolved (µg/L)	Mercury, dissolved (µg/L)	Molyb-denum, dissolved (µg/L)	Vanadium, dissolved (µg/L as V)	Zinc, dissolved (µg/L as Zn)
Equipment blank, ABQ lab DI water	08-18-93	1610	<1	<10	<1.0	<1	<1	<1	<0.1	<1	<1	<3
Trip blank, ABQ lab DI water	08-22-93	1300	<1	<10	<1.0	<1	<1	<1	<0.1	1	<1	<3
Ambient blank, ABQ lab DI water	08-24-93	1400	<1	<10	<1.0	<1	<1	<1	<0.1	<1	<1	<3
Trip blank, ABQ lab DI water	09-28-93	0800	<1	<10	<1.0	<1	<1	<1	<0.1	<1	<1	<3
Ambient blank, ABQ lab DI water	09-29-93	1115	<1	<10	<1.0	<1	<1	<1	<0.1	<1	<1	4
Ambient blank, IB water	03-07-94	1350	<1	<10	<1.0	<1	<1	<1	<0.1	<1	<1	6
Ambient blank, IB water (acid ampoule)	03-09-94	1600	<1	10	<1.0	<1	<1	<1	<0.1	<1	<1	3
Trip blank, IB water	07-15-94	0900	<1	<10	<1.0	<1	<1	<1	<0.1	<1	--	--
Ambient blank, IB water	07-18-94	1000	<1	<10	<1.0	<1	<1	<1	<0.1	<1	<1	4
Trip blank, IB water	07-25-94	1050	1	<10	<1.0	<1	<1	<1	<0.1	<1	<1	7
Ambient blank, IB water	07-26-94	0930	<1	<10	<1.0	<1	<1	<1	<0.1	<1	<1	6
Ambient blank, IB water	09-28-94	0920	<1	<10	<1.0	<1	<1	<1	<0.1	<1	<1	3

Table 4.--Daily mean streamflow for Gallegos Canyon near Carson Trading Post, Gallegos Canyon near Farmington, and Ojo Amarillo Canyon near Fruitland, New Mexico, October 1993-October 1994

[max, maximum; min, minimum; e, estimated; --, no data]

GALLEGOS CANYON NEAR CARSON TRADING POST, NEW MEXICO
DAILY MEAN DISCHARGE IN CUBIC FEET PER SECOND
OCTOBER 1993 THROUGH SEPTEMBER 1994

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.5
4	.00	.00	.00	.00	e.02	.00	.00	.00	.00	.00	.00	.02
5	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	e.02	.00	.00	.00	.00	.00	.00	.00
7	.20	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	e.01	.06	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.01	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.82	.00	.00	.00	.00	.00	.00	.00	.00	.62	.00
12	.00	.31	.00	.00	.00	.00	.00	.40	.00	.00	.02	15
13	.00	.30	.00	.00	.00	.00	.00	.00	.00	.00	.00	e5.0
14	.00	3.2	.00	.00	.00	.00	.00	.00	.00	.00	.07	e.00
15	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.05	e.00
16	.00	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.05	.00	.00	e.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.38	.00	.00	e.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.10	.00	.00	e.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.9	.00	e.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.7	.00	e.00
25	.00	.00	.00	.00	.00	.00	.00	5.5	.00	.10	.00	e.00
26	.00	.00	.00	.00	.00	.00	.00	.13	.00	.00	.00	e.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	e.00
29	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00	e.00
30	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00	e1.0
31	.00		.00	.00		.00		.00		.00	.00	
Total	0.20	4.67	0.00	0.00	0.07	0.07	0.00	6.03	0.53	7.70	0.76	26.52
Mean	.006	.16	.000	.000	.002	.002	.000	.19	.018	.25	.025	.88
Max	.20	3.2	.00	.00	.02	.06	.00	5.5	.38	4.9	.62	15
Min	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
Acre-feet	.4	9.3	.00	.00	.1	.1	.00	12	1.1	15	1.5	53

Table 4.--Daily mean streamflow for Gallegos Canyon near Carson Trading Post, Gallegos Canyon near Farmington, and Ojo Amarillo Canyon near Fruitland, New Mexico, October 1993-October 1994--Continued

GALLEGOS CANYON NEAR FARMINGTON, NEW MEXICO
DAILY MEAN DISCHARGE IN CUBIC FEET PER SECOND
OCTOBER 1993 THROUGH OCTOBER 1994

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct
1	64	9.1	15	e14	e13	8.9	6.8	5.0	1.6	9.1	5.9	56	12
2	19	8.3	13	e12	e16	9.0	6.0	4.8	2.2	7.0	9.0	3.1	7.2
3	21	9.4	12	e13	e19	8.1	6.7	7.1	5.3	9.3	12	13	7.0
4	31	8.8	87	e12	24	8.7	6.2	10	9.7	6.7	20	1.6	9.4
5	51	7.5	10	e14	30	11	8.6	7.0	11	5.8	26	1.1	28
6	35	9.4	5.9	e16	16	12	7.0	9.2	11	10	25	1.2	22
7	95	14	14	e19	12	14	6.4	7.3	15	5.1	9.5	6.1	21
8	20	9.7	11	e16	19	16	9.6	31	9.3	14	20	7.0	32
9	10	14	28	e14	9.2	10	14	14	15	16	17	9.2	28
10	8.2	15	61	e12	9.0	9.4	11	16	18	13	23	10	28
11	7.7	31	17	e13	12	11	9.1	51	17	21	22	9.7	28
12	15	34	12	e12	8.7	13	12	18	16	25	16	16	27
13	8.1	26	64	e11	12	12	8.7	9.5	15	24	13	13	24
14	36	31	e9.0	e12	12	9.3	3.8	8.3	11	20	21	15	16
15	29	32	e13	e10	9.3	8.2	6.0	9.0	11	18	24	15	19
16	29	12	e20	e11	12	7.9	6.7	7.9	14	30	23	12	12
17	31	15	e22	e10	12	9.3	9.6	20	15	28	10	7.9	28
18	33	13	e19	e11	15	12	9.6	14	17	15	4.4	13	14
19	9.8	15	e16	e10	10	14	8.3	31	34	8.9	16	9.8	18
20	20	14	e13	e9.0	11	21	9.0	33	50	9.6	15	17	13
21	32	12	e12	e10	10	9.6	8.7	32	19	22	21	17	12
22	117	14	e13	e11	8.7	9.2	3.1	33	23	18	30	10	20
23	6.6	14	e15	e10	9.3	42	4.1	23	9.8	16	29	9.6	32
24	9.1	14	e13	e15	9.5	5.2	3.4	32	12	7.7	23	12	21
25	28	4.8	e15	e20	10	4.8	4.4	64	11	21	16	7.9	14
26	90	10	e18	e18	8.6	5.9	4.2	5.4	10	22	8.9	6.8	11
27	96	16	e20	e22	8.5	4.7	4.2	5.1	11	19	9.4	10	9.4
28	19	20	e15	e25	14	4.7	4.2	4.4	7.4	22	11	27	--
29	10	31	e12	e15		6.0	5.2	3.8	.77	24	38	32	--
30	11	27	e13	e10		5.6	5.3	3.1	8.2	24	18	28	--
31	11		e12	e11		7.4		2.5		17	11		--
Total	1,002.5	491.0	484.0	418.0	359.8	329.9	211.9	521.4	410.27	508.2	547.1	397.0	--
Mean	32.3	16.4	15.6	13.5	12.8	10.6	7.06	16.8	13.7	16.4	17.6	13.2	--
Max	117	34	61	25	30	42	14	64	50	30	38	56	--
Min	6.6	4.8	5.9	9.0	8.5	4.7	3.1	2.5	.77	5.1	4.4	1.1	--
Acre-feet	1,990	974	960	829	714	654	420	1,030	814	1,010	1,090	787	--

Table 4.--Daily mean streamflow for Gallegos Canyon near Carson Trading Post, Gallegos Canyon near Farmington, and Ojo Amarillo Canyon near Fruitland, New Mexico, October 1993-October 1994--Concluded

OJO AMARILLO CANYON NEAR FRUITLAND, NEW MEXICO
DAILY MEAN DISCHARGE IN CUBIC FEET PER SECOND
OCTOBER 1993 THROUGH OCTOBER 1994

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct
1	3.8	2.0	2.0	e2.0	e1.1	1.9	1.6	2.1	2.2	0.83	2.8	3.1	3.5
2	1.9	2.0	2.0	e1.9	e1.3	1.8	1.6	2.1	1.7	.90	2.8	3.0	3.5
3	1.5	2.0	2.0	e1.9	e2.2	1.8	1.6	2.1	1.6	.91	2.8	4.7	3.5
4	1.4	2.0	2.0	e1.8	e3.0	1.8	1.7	2.0	1.6	.91	2.8	3.6	3.4
5	1.3	2.0	2.0	e1.8	e4.0	1.9	2.1	2.0	1.5	.88	2.8	3.3	3.4
6	1.4	2.0	2.2	e1.7	e2.4	1.9	1.8	1.9	1.5	.98	2.8	3.1	3.5
7	3.2	1.9	1.9	1.5	e1.8	1.9	1.6	1.9	1.5	1.5	2.8	3.1	3.6
8	3.1	1.9	2.0	4.5	e2.5	2.0	1.6	2.0	1.3	1.6	2.9	3.1	3.6
9	3.0	1.8	2.0	e3.5	e2.2	1.9	1.8	2.1	1.4	1.6	3.1	3.0	3.6
10	3.0	1.9	1.9	e2.8	e2.0	1.7	1.9	2.6	1.4	1.6	3.1	3.1	3.7
11	3.0	2.4	2.0	e1.9	1.7	1.8	1.8	2.5	1.4	1.6	3.1	3.5	3.8
12	3.1	2.5	2.1	e1.5	1.6	1.8	1.6	2.5	1.5	1.5	3.0	3.6	4.0
13	3.0	2.2	1.9	e1.4	1.9	1.7	1.6	2.4	1.5	1.5	3.0	3.9	3.8
14	3.1	2.0	1.9	e1.4	7.7	1.7	1.6	2.1	1.5	1.5	3.0	3.4	3.7
15	3.1	2.0	2.1	e1.4	6.2	1.7	1.5	2.1	1.3	1.4	3.2	3.2	4.0
16	3.1	1.9	1.9	e1.3	4.0	1.7	1.5	2.0	1.2	1.4	3.1	3.2	4.0
17	4.1	1.9	1.9	e1.3	2.0	1.7	1.5	1.9	1.2	1.4	2.9	3.1	5.7
18	3.7	2.0	1.9	e1.3	1.9	1.7	1.5	1.8	1.3	1.5	2.9	3.8	4.4
19	3.4	1.9	1.9	e1.3	1.8	1.8	1.5	1.8	1.5	1.7	3.0	3.7	3.0
20	3.4	1.9	1.8	e1.3	2.6	1.9	1.5	1.8	1.3	1.5	3.0	3.5	3.3
21	3.8	2.0	1.7	e1.3	1.8	1.7	1.5	1.9	1.3	1.3	3.0	3.4	3.2
22	3.0	2.0	1.9	e1.2	1.8	1.8	1.5	1.8	1.4	1.4	3.0	3.3	2.8
23	2.3	2.0	2.7	e1.2	1.8	2.0	1.5	1.7	1.3	1.1	2.9	3.7	2.4
24	2.2	2.0	2.1	e1.2	1.8	1.8	1.6	1.7	1.2	1.0	2.9	3.4	2.7
25	2.1	1.7	2.1	e1.2	1.8	1.6	1.5	3.7	1.2	1.0	2.8	3.2	2.4
26	2.0	1.9	2.4	e1.1	1.8	1.6	1.8	2.6	1.1	.99	2.8	3.3	--
27	2.0	2.0	3.2	1.1	1.8	1.6	2.1	2.5	1.1	1.8	3.0	3.2	--
28	2.0	2.3	3.0	1.0	2.1	1.5	2.0	3.1	1.0	2.3	3.3	3.2	--
29	3.1	2.0	e2.7	e1.2		1.6	2.2	3.0	.97	2.5	3.1	3.2	--
30	2.8	2.0	e2.3	e1.1		1.6	2.1	2.9	.83	2.6	3.1	3.6	--
31	2.3		e2.1	e1.1		1.6		2.8		2.6	3.1		--
Total	84.2	60.1	65.6	50.2	68.6	54.5	50.7	69.4	40.80	45.30	91.9	101.5	--
Mean	2.72	2.00	2.12	1.62	2.45	1.76	1.69	2.24	1.36	1.46	2.96	3.38	--
Max	4.1	2.5	3.2	4.5	7.7	2.0	2.2	3.7	2.2	2.6	3.3	4.7	--
Min	1.3	1.7	1.7	1.0	1.1	1.5	1.5	1.7	.83	.83	2.8	3.0	--
Acre-feet	167	119	130	100	136	108	101	138	81	90	182	201	--

Table 5.--Polycyclic-aromatic-hydrocarbon (PAH) compounds and their minimum reporting limits for analyses conducted on water and bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94

[--, no data]

PAH compound	Minimum reporting limit	
	Total water (micrograms per liter)	Bottom sediment (micrograms per kilogram)
Acenaphthene	5.0	200
Acenaphthylene	5.0	200
Anthracene	5.0	200
Benzidine	40.0	--
Benzo-a anthracene 1,2-benzanthracene	10.0	400
Benzo-a pyrene	10.0	400
Benzo-b fluoranthene	10.0	400
Benzo-ghi perylene 1,12-benzo perylene	10.0	400
Benzo-k fluoranthene	10.0	400
Bis (2-chloro-ethoxy) methane	5.0	200
Bis (2-chloro-ethyl) ether	5.0	200
Bis (2-chloro-isopropyl) ether	5.0	200
Bis (2 ethyl hexyl) phthalate	5.0	200
4-Bromophenylphenylether	5.0	200
2-Chloronaphthalene	5.0	200
2-Chlorophenol	5.0	200
4-Chlorophenylphenylether	5.0	200
Chrysene	10.0	400
1,2,5,6-Dibenzanthracene	10.0	400
1,3-Dichlorobenzene	5.0	200
1,2-Dichlorobenzene	--	200
1,4-Dichlorobenzene	5.0	200
3,3'-Dichlorobenzidine	20.0	--
2,4-Dichlorophenol	5.0	200
Diethyl phthalate	5.0	200
2,4-Dimethylphenol	5.0	200
Dimethyl phthalate	5.0	200
Di-n-butyl phthalate	5.0	200
4,6-Dinitro-orthocresol	30.0	600
2,4-Dinitrophenol	20.0	600

Table 5.--Polycyclic-aromatic-hydrocarbon (PAH) compounds and their minimum reporting limits for analyses conducted on water and bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Concluded

PAH compound	Minimum reporting limit	
	Total water (micrograms per liter)	Bottom sediment (micrograms per kilogram)
2,4-Dinitrotoluene	5.0	200
2,6-Dinitrotoluene	5.0	200
Di-n-octyl phthalate	10.0	400
Fluoranthene	5.0	200
Fluorene	5.0	200
Hexachlorobenzene	5.0	200
Hexachlorobutadiene	5.0	200
Hexachlorocyclopentadiene	5.0	200
Hexachloroethane	5.0	200
Indeno (1,2,3-c,d) pyrene	10.0	400
Isophorone	5.0	200
Naphthalene	5.0	200
n-Butyl benzyl phthalate	5.0	200
Nitrobenzene	5.0	200
2-Nitrophenol	5.0	200
4-Nitrophenol	30.0	600
n-Nitrosodimethylamine	5.0	200
n-Nitrosodi-n-propylamine	5.0	200
n-Nitrosodiphenylamine	5.0	200
o-Chlorobenzene	5.0	--
Parachlorometacresol	30.0	600
Pentachlorophenol	30.0	600
Phenanthrene	5.0	200
Phenol	5.0	200
Pyrene	5.0	200
1,2,4-Trichlorobenzene	5.0	200
2,4,6-Trichlorophenol	20.0	600

Table 6.--Concentrations of selected elements in bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94

[µg/g, micrograms per gram of dry sample weight; <, less than]

Site number (fig. 2, table 1)	Date	Time	Aluminum (percent)	Calcium (percent)	Iron (percent)	Magnesium (percent)	Phosphorus (percent)	Potassium (percent)
1	08-23-93	1015	5.4	1.20	3.00	0.48	0.07	2.20
	07-18-94	1450	4.9	1.30	3.50	0.52	0.07	1.70
2	08-25-93	1000	1.4	27.00	0.62	0.48	0.03	0.48
	07-19-94	1300	4.1	13.00	1.80	0.49	0.05	1.40
3	08-24-93	0845	5.2	1.00	1.70	0.35	0.04	2.20
	08-24-93	0900	5.3	1.30	1.80	0.39	0.05	2.10
	07-19-94	1300	5.3	1.70	1.90	0.42	0.05	1.90
5	08-23-93	1430	7.1	1.10	3.10	0.84	0.08	1.80
	07-19-94	1000	6.8	1.00	2.90	0.79	0.08	1.70
7	08-24-93	1130	3.9	0.41	0.60	0.11	0.02	2.50
8	08-23-93	1600	3.6	0.47	0.55	0.10	0.02	2.30
9	08-24-93	1330	3.8	0.27	0.44	0.07	0.02	2.50
12	08-19-93	0845	5.2	3.40	1.80	0.43	0.04	2.10
	07-20-94	0800	4.8	9.40	1.70	0.51	0.04	1.80
14	09-28-93	1630	7.0	0.68	2.80	0.69	0.04	2.10
15	09-28-93	1400	5.0	1.40	1.50	0.41	0.03	2.10
16	09-30-93	0900	6.6	0.83	2.50	0.64	0.04	2.00
	09-30-93	1000	6.9	0.93	2.70	0.68	0.04	2.00
17	08-19-93	1310	5.0	0.94	1.30	0.36	0.04	2.50
	07-20-94	1130	4.6	0.69	0.94	0.27	0.03	2.50
18	08-19-93	1100	4.3	0.75	0.67	0.17	0.02	2.60
	07-20-94	1115	4.4	0.86	0.69	0.18	0.02	2.50
22	08-19-93	1410	4.5	4.50	1.30	0.33	0.03	2.10
	07-20-94	1030	5.0	4.10	1.50	0.42	0.03	2.00
	07-20-94	1100	4.2	3.90	1.10	0.30	0.03	1.90
23	08-20-93	1100	4.0	0.56	0.53	0.08	0.01	2.40
27	07-22-94	0945	3.6	0.58	0.53	0.11	0.02	2.10
28	07-22-94	0910	4.2	1.40	0.65	0.20	0.02	2.40
29	07-22-94	0830	3.5	1.10	0.41	0.10	0.01	2.10
30	08-17-93	1300	3.7	0.41	0.45	0.06	0.01	2.70
	07-20-94	1300	3.6	0.39	0.46	0.06	0.01	2.40
32	07-22-94	1050	6.4	1.50	1.40	0.31	0.03	2.30
34	07-22-94	1030	5.5	2.50	1.40	0.44	0.04	2.00
35	08-10-93	1530	4.0	1.20	1.10	0.19	0.03	2.30
	07-21-94	0830	4.7	2.10	1.40	0.31	0.03	2.10
37	08-18-93	1215	6.1	2.50	2.50	0.67	0.05	1.90
	07-21-94	1000	7.3	3.90	3.10	0.92	0.06	1.80
38	08-12-93	0900	4.7	0.71	1.40	0.23	0.03	2.40
	07-21-94	1000	3.8	0.40	0.71	0.11	0.02	2.30
39	08-17-93	1030	6.1	1.70	1.60	0.42	0.04	2.00
	07-21-94	1330	5.9	1.50	1.20	0.33	0.03	2.00
	07-21-94	1410	6.0	1.50	1.30	0.34	0.04	2.00
40	09-29-93	1200	4.5	14.00	1.50	0.66	0.03	1.40
	07-21-94	1430	4.5	15.00	1.60	0.70	0.03	1.40
41	07-21-94	1500	4.9	7.40	1.50	0.33	0.04	1.60

Table 6.--Concentrations of selected elements in bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Aluminum (percent)	Calcium (percent)	Iron (percent)	Magnesium (percent)	Phosphorus (percent)	Potassium (percent)
42	08-12-93	1230	3.5	0.38	0.69	0.09	0.02	2.40
	07-26-94	1440	4.7	0.62	1.20	0.21	0.03	2.40
43	08-12-93	1400	5.3	1.80	1.80	0.50	0.04	2.00
	07-26-94	1400	5.4	4.50	1.90	0.64	0.05	1.90
44	08-13-93	1330	5.8	4.20	2.10	1.10	0.07	2.10
	07-27-94	1520	5.8	8.40	2.30	1.30	0.07	1.60
	07-27-94	1535	5.9	8.30	2.30	1.30	0.07	1.70
45	08-13-93	1220	4.2	1.60	1.20	0.25	0.03	2.20
	07-27-94	1400	4.3	0.80	1.00	0.18	0.03	2.20
47	08-13-93	0830	5.3	3.50	1.90	0.71	0.05	2.00
	08-13-93	0900	5.2	3.70	1.90	0.73	0.05	2.00
	09-29-93	1700	6.2	5.40	2.40	1.00	0.06	1.80
	07-27-94	1200	5.8	4.40	2.10	0.89	0.06	1.90
49	08-13-93	1030	5.9	3.20	2.30	0.82	0.05	2.00
	07-27-94	1315	4.4	1.20	1.20	0.30	0.03	2.10
51	08-11-93	0900	3.3	0.34	0.55	0.07	0.02	2.50
	07-26-94	0900	5.0	1.20	1.60	0.39	0.04	2.10
52	08-11-93	1200	6.6	2.60	2.50	0.90	0.07	1.90
	07-26-94	1115	6.5	2.00	2.60	0.78	0.06	2.00

Table 6.--Concentrations of selected elements in bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Sodium (percent)	Titanium (percent)	Total carbon (percent)	Organic carbon (percent)	Inorganic carbon (percent)	Arsenic (µg/g)
1	08-23-93	1015	1.40	0.28	0.06	0.03	0.03	5.4
	07-18-94	1450	1.30	0.37	0.16	0.10	0.06	3.6
2	08-25-93	1000	0.39	0.05	11.5	4.60	6.90	1.0
	07-19-94	1300	0.88	0.16	4.39	1.85	2.54	2.9
3	08-24-93	0845	1.40	0.18	1.20	1.11	0.09	4.3
	08-24-93	0900	1.30	0.20	1.24	1.10	0.14	4.5
	07-19-94	1300	1.20	0.20	1.35	1.11	0.24	4.3
5	08-23-93	1430	0.65	0.37	2.08	1.96	0.12	6.6
	07-19-94	1000	0.73	0.30	1.86	1.76	0.10	5.9
7	08-24-93	1130	1.10	0.05	0.07	0.01	0.06	4.2
8	08-23-93	1600	1.10	0.06	<0.05	<0.05	0.08	4.0
9	08-24-93	1330	1.20	0.05	<0.05	<0.05	0.02	3.9
12	08-19-93	0845	1.20	0.21	1.78	0.96	0.82	4.2
	07-20-94	0800	1.10	0.18	4.16	1.66	2.50	2.9
14	09-28-93	1630	0.88	0.33	0.96	0.96	<0.01	4.7
15	09-28-93	1400	0.97	0.20	0.70	0.46	0.24	4.5
16	09-30-93	0900	0.87	0.29	0.88	0.84	0.04	5.3
	09-30-93	1000	0.86	0.32	0.97	0.92	0.05	5.8
17	08-19-93	1310	1.10	0.19	0.65	0.53	0.12	3.0
	07-20-94	1130	0.99	0.14	0.44	0.35	0.09	2.3
18	08-19-93	1100	1.20	0.10	0.25	0.13	0.12	2.4
	07-20-94	1115	1.10	0.11	0.35	0.21	0.14	2.0
22	08-19-93	1410	1.10	0.19	2.38	1.27	1.11	2.5
	07-20-94	1030	0.95	0.19	1.88	0.89	0.99	3.2
	07-20-94	1100	0.98	0.15	1.53	0.58	0.95	2.9
23	08-20-93	1100	1.20	0.10	0.05	<0.01	0.07	2.8
27	07-22-94	0945	0.92	0.09	0.48	0.42	0.06	2.4
28	07-22-94	0910	0.88	0.11	1.11	0.84	0.27	2.7
29	07-22-94	0830	0.91	0.07	0.39	0.20	0.19	2.0
30	08-17-93	1300	1.00	0.06	<0.05	<0.05	0.06	3.3
	07-20-94	1300	0.92	0.06	<0.05	<0.05	0.05	3.1
32	07-22-94	1050	1.90	0.22	0.19	0.11	0.08	3.8
34	07-22-94	1030	1.30	0.18	1.70	1.26	0.44	2.6
35	08-10-93	1530	1.00	0.12	0.24	0.05	0.19	4.9
	07-21-94	0830	1.10	0.15	0.67	0.26	0.41	4.2
37	08-18-93	1215	1.10	0.28	1.75	1.20	0.55	5.4
	07-21-94	1000	0.99	0.29	2.13	1.32	0.81	5.4
38	08-12-93	0900	1.20	0.14	0.21	0.11	0.10	5.6
	07-21-94	1000	0.97	0.08	0.12	0.08	0.04	3.4
39	08-17-93	1030	2.00	0.21	0.92	0.75	0.17	2.9
	07-21-94	1330	1.90	0.16	1.15	1.05	0.10	2.2
	07-21-94	1410	1.90	0.17	0.79	0.69	0.10	2.6
40	09-29-93	1200	1.40	0.20	5.49	1.67	3.82	2.4
	07-21-94	1430	1.30	0.18	5.86	1.75	4.11	2.2
41	07-21-94	1500	1.50	0.15	3.00	1.19	1.81	3.9

Table 6.--Concentrations of selected elements in bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Sodium (percent)	Titanium (percent)	Total carbon (percent)	Organic carbon (percent)	Inorganic carbon (percent)	Arsenic (µg/g)
42	08-12-93	1230	0.95	0.07	0.07	0.03	0.04	4.1
	07-26-94	1440	1.20	0.14	0.20	0.12	0.08	3.7
43	08-12-93	1400	1.00	0.22	1.55	1.17	0.38	4.2
	07-26-94	1400	0.91	0.23	2.42	1.34	1.08	3.7
44	08-13-93	1330	0.75	0.22	2.31	1.04	1.27	7.1
	07-27-94	1520	0.52	0.22	3.94	1.64	2.30	4.1
	07-27-94	1535	0.53	0.24	3.92	1.55	2.37	4.1
45	08-13-93	1220	1.20	0.21	0.48	0.07	0.41	3.9
	07-27-94	1400	1.20	0.16	0.19	0.06	0.13	3.3
47	08-13-93	0830	0.93	0.22	2.39	1.46	0.93	4.6
	08-13-93	0900	0.90	0.23	2.27	1.24	1.03	5.2
	09-29-93	1700	0.76	0.28	2.77	1.39	1.38	5.4
	07-27-94	1200	0.85	0.20	2.36	1.28	1.08	4.8
49	08-13-93	1030	0.82	0.25	2.08	1.22	0.86	5.7
	07-27-94	1315	1.00	0.14	0.52	0.29	0.23	3.3
51	08-11-93	0900	0.87	0.04	<0.05	<0.05	0.05	3.7
	07-26-94	0900	1.10	0.25	0.47	0.24	0.23	4.3
52	08-11-93	1200	0.91	0.31	1.83	1.25	0.58	6.0
	07-26-94	1115	1.10	0.31	0.93	0.56	0.37	5.4

Table 6.--Concentrations of selected elements in bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Barium (µg/g)	Beryllium (µg/g)	Bismuth (µg/g)	Cadmium (µg/g)	Cerium (µg/g)	Chromium (µg/g)	Cobalt (µg/g)
1	08-23-93	1015	870	1	<10	<2	61	25	9
	07-18-94	1450	970	1	<10	<2	62	27	11
2	08-25-93	1000	210	<1	<10	<2	12	6	4
	07-19-94	1300	550	1	<10	<2	33	16	7
3	08-24-93	0845	730	1	<10	<2	43	18	6
	08-24-93	0900	680	1	<10	<2	46	19	7
	07-19-94	1300	710	1	<10	<2	46	19	7
5	08-23-93	1430	520	2	<10	<2	73	58	12
	07-19-94	1000	550	2	<10	<2	59	50	12
7	08-24-93	1130	910	<1	<10	<2	31	6	3
8	08-23-93	1600	820	<1	<10	<2	28	5	2
9	08-24-93	1330	950	<1	<10	<2	27	5	2
12	08-19-93	0845	620	1	<10	<2	52	20	9
	07-20-94	0800	540	1	<10	<2	46	16	11
14	09-28-93	1630	670	2	<10	<2	81	34	12
15	09-28-93	1400	760	1	<10	<2	55	19	7
16	09-30-93	0900	670	2	<10	<2	70	32	10
	09-30-93	1000	670	2	<10	<2	74	34	10
17	08-19-93	1310	880	1	<10	<2	53	16	5
	07-20-94	1130	860	1	<10	<2	40	10	4
18	08-19-93	1100	910	<1	<10	<2	35	8	4
	07-20-94	1115	930	<1	<10	<2	34	7	3
22	08-19-93	1410	730	1	<10	<2	50	15	6
	07-20-94	1030	800	1	<10	<2	49	16	6
	07-20-94	1100	760	<1	<10	<2	40	11	5
23	08-20-93	1100	880	<1	<10	<2	33	6	3
27	07-22-94	0945	810	<1	<10	<2	32	6	2
28	07-22-94	0910	900	<1	<10	<2	38	7	3
29	07-22-94	0830	780	<1	<10	<2	29	4	2
30	08-17-93	1300	970	<1	<10	<2	31	4	2
	07-20-94	1300	1,000	<1	<10	<2	27	2	3
32	07-22-94	1050	930	1	<10	<2	60	10	5
34	07-22-94	1030	1,100	1	<10	<2	44	12	6
35	08-10-93	1530	1,200	<1	<10	<2	41	6	4
	07-21-94	0830	1,200	1	<10	<2	41	7	5
37	08-18-93	1215	340	1	<10	<2	58	27	10
	07-21-94	1000	580	2	<10	<2	60	34	11
38	08-12-93	0900	970	1	<10	<2	46	11	6
	07-21-94	1000	1,000	<1	<10	<2	30	4	3
39	08-17-93	1030	930	1	<10	<2	50	13	7
	07-21-94	1330	880	1	<10	<2	42	8	5
	07-21-94	1410	980	1	<10	<2	46	9	6
40	09-29-93	1200	620	<1	<10	<2	45	23	6
	07-21-94	1430	640	1	<10	<2	41	20	7
41	07-21-94	1500	910	1	<10	<2	40	13	6

Table 6.--Concentrations of selected elements in bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Barium (µg/g)	Beryllium (µg/g)	Bismuth (µg/g)	Cadmium (µg/g)	Cerium (µg/g)	Chromium (µg/g)	Cobalt (µg/g)
42	08-12-93	1230	890	<1	<10	<2	34	6	3
	07-26-94	1440	1,000	1	<10	<2	47	9	5
43	08-12-93	1400	730	1	<10	<2	57	23	7
	07-26-94	1400	640	1	<10	<2	47	23	8
44	08-13-93	1330	620	1	<10	<2	52	44	8
	07-27-94	1520	490	1	<10	<2	48	44	11
	07-27-94	1535	490	1	<10	<2	50	45	10
45	08-13-93	1220	1,100	1	<10	<2	52	15	5
	07-27-94	1400	1,200	1	<10	<2	52	8	5
47	08-13-93	0830	680	1	<10	<2	53	29	7
	08-13-93	0900	710	1	<10	<2	64	31	7
	09-29-93	1700	540	1	<10	<2	62	42	9
	07-27-94	1200	640	1	<10	<2	50	33	9
49	08-13-93	1030	620	1	<10	<2	60	34	9
	07-27-94	1315	1,000	1	<10	<2	45	12	4
51	08-11-93	0900	860	<1	<10	<2	24	3	2
	07-26-94	0900	1,100	1	<10	<2	67	18	7
52	08-11-93	1200	660	2	<10	<2	68	38	9
	07-26-94	1115	890	2	<10	<2	62	31	9

Table 6.--Concentrations of selected elements in bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Copper (µg/g)	Europium (µg/g)	Gallium (µg/g)	Gold (µg/g)	Holmium (µg/g)	Lanthanum (µg/g)	Lead (µg/g)
1	08-23-93	1015	12	<2	12	<8	<4	31	15
	07-18-94	1450	11	<2	11	<8	<4	35	16
2	08-25-93	1000	7	<2	4	<8	<4	7	4
	07-19-94	1300	12	<2	9	<8	<4	18	11
3	08-24-93	0845	11	<2	12	<8	<4	23	15
	08-24-93	0900	11	<2	11	<8	<4	24	16
	07-19-94	1300	11	<2	12	<8	<4	25	19
5	08-23-93	1430	29	<2	16	<8	<4	38	19
	07-19-94	1000	27	<2	15	<8	<4	33	21
7	08-24-93	1130	3	<2	7	<8	<4	17	17
8	08-23-93	1600	4	<2	7	<8	<4	16	13
9	08-24-93	1330	2	<2	6	<8	<4	15	16
12	08-19-93	0845	13	<2	12	<8	<4	28	13
	07-20-94	0800	13	<2	16	<8	<4	25	14
14	09-28-93	1630	20	<2	15	<8	<4	44	18
15	09-28-93	1400	12	<2	10	<8	<4	31	17
16	09-30-93	0900	19	<2	15	<8	<4	37	18
	09-30-93	1000	21	<2	15	<8	<4	39	18
17	08-19-93	1310	9	<2	11	<8	<4	29	16
	07-20-94	1130	6	<2	9	<8	<4	23	19
18	08-19-93	1100	6	<2	9	<8	<4	20	15
	07-20-94	1115	7	<2	9	<8	<4	19	19
22	08-19-93	1410	10	<2	9	<8	<4	28	13
	07-20-94	1030	14	<2	11	<8	<4	27	17
	07-20-94	1100	11	<2	9	<8	<4	22	16
23	08-20-93	1100	6	<2	8	<8	<4	19	14
27	07-22-94	0945	5	<2	8	<8	<4	19	14
28	07-22-94	0910	4	<2	8	<8	<4	23	16
29	07-22-94	0830	5	<2	7	<8	<4	17	13
30	08-17-93	1300	2	<2	7	<8	<4	18	15
	07-20-94	1300	4	<2	7	<8	<4	16	16
32	07-22-94	1050	5	<2	15	<8	<4	33	19
34	07-22-94	1030	12	<2	12	<8	<4	25	18
35	08-10-93	1530	6	<2	8	<8	<4	26	15
	07-21-94	0830	13	<2	10	<8	<4	24	16
37	08-18-93	1215	25	<2	14	<8	<4	31	22
	07-21-94	1000	31	<2	18	<8	<4	34	28
38	08-12-93	0900	19	<2	10	<8	<4	26	56
	07-21-94	1000	6	<2	7	<8	<4	17	26
39	08-17-93	1030	16	<2	13	<8	<4	28	13
	07-21-94	1330	12	<2	13	<8	<4	24	16
	07-21-94	1410	14	<2	13	<8	<4	26	18
40	09-29-93	1200	11	<2	9	<8	<4	25	58
	07-21-94	1430	13	<2	11	<8	<4	22	54
41	07-21-94	1500	16	<2	10	<8	<4	23	18

Table 6.--Concentrations of selected elements in bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Copper (µg/g)	Europium (µg/g)	Gallium (µg/g)	Gold (µg/g)	Holmium (µg/g)	Lanthanum (µg/g)	Lead (µg/g)
42	08-12-93	1230	13	<2	7	<8	<4	18	23
	07-26-94	1440	14	<2	10	<8	<4	25	41
43	08-12-93	1400	16	<2	11	<8	<4	30	22
	07-26-94	1400	17	<2	12	<8	<4	27	23
44	08-13-93	1330	19	<2	13	<8	<4	29	17
	07-27-94	1520	26	<2	17	<8	<4	28	23
	07-27-94	1535	26	<2	17	<8	<4	29	23
45	08-13-93	1220	9	<2	9	<8	<4	29	17
	07-27-94	1400	6	<2	8	<8	<4	29	26
47	08-13-93	0830	19	<2	11	<8	<4	29	20
	08-13-93	0900	19	<2	11	<8	<4	36	20
	09-29-93	1700	28	<2	14	<8	<4	33	22
	07-27-94	1200	24	<2	14	<8	<4	28	28
49	08-13-93	1030	22	<2	13	<8	<4	32	22
	07-27-94	1315	9	<2	8	<8	<4	25	34
51	08-11-93	0900	4	<2	6	<8	<4	14	22
	07-26-94	0900	15	<2	11	<8	<4	37	30
52	08-11-93	1200	21	<2	14	<8	<4	37	19
	07-26-94	1115	19	<2	15	<8	<4	35	28

Table 6.--Concentrations of selected elements in bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Lithium (µg/g)	Manganese (µg/g)	Mercury (µg/g)	Molybdenum (µg/g)	Neodymium (µg/g)	Nickel (µg/g)	Niobium (µg/g)
1	08-23-93	1015	13	390	<0.02	<2	28	9	8
	07-18-94	1450	13	440	<0.02	<2	31	10	11
2	08-25-93	1000	6	180	<0.02	26	<4	4	<4
	07-19-94	1300	13	270	<0.02	13	12	8	6
3	08-24-93	0845	15	190	<0.02	<2	21	8	7
	08-24-93	0900	16	210	<0.02	<2	21	8	8
	07-19-94	1300	16	220	<0.02	<2	22	9	9
5	08-23-93	1430	36	310	0.03	<2	33	21	15
	07-19-94	1000	31	320	0.02	<2	29	20	16
7	08-24-93	1130	7	170	<0.02	<2	12	4	<4
8	08-23-93	1600	8	180	<0.02	<2	13	3	<4
9	08-24-93	1330	6	120	<0.02	<2	12	3	<4
12	08-19-93	0845	17	2,800	<0.02	<2	22	9	9
	07-20-94	0800	16	4,400	<0.02	3	20	10	9
14	09-28-93	1630	24	300	<0.02	<2	37	14	15
15	09-28-93	1400	15	290	<0.02	<2	25	9	7
16	09-30-93	0900	22	330	<0.02	<2	30	14	11
	09-30-93	1000	24	370	<0.02	<2	33	16	13
17	08-19-93	1310	13	240	<0.02	<2	23	6	7
	07-20-94	1130	10	180	<0.02	<2	18	5	8
18	08-19-93	1100	9	190	<0.02	<2	14	3	5
	07-20-94	1115	9	190	<0.02	<2	15	4	6
22	08-19-93	1410	14	260	<0.02	<2	22	6	7
	07-20-94	1030	14	300	<0.02	<2	22	8	8
	07-20-94	1100	11	180	<0.02	<2	16	6	7
23	08-20-93	1100	8	180	<0.02	<2	16	3	4
27	07-22-94	0945	7	120	<0.02	<2	16	3	6
28	07-22-94	0910	8	97	<0.02	<2	16	3	6
29	07-22-94	0830	7	110	<0.02	<2	13	2	5
30	08-17-93	1300	6	210	<0.02	<2	14	2	<4
	07-20-94	1300	6	230	<0.02	<2	12	2	4
32	07-22-94	1050	14	310	<0.02	<2	28	5	10
34	07-22-94	1030	13	180	<0.02	<2	19	7	9
35	08-10-93	1530	8	380	<0.02	<2	16	4	4
	07-21-94	0830	9	420	<0.02	<2	19	5	7
37	08-18-93	1215	21	680	<0.02	<2	26	11	11
	07-21-94	1000	24	780	<0.02	<2	28	15	15
38	08-12-93	0900	13	600	<0.02	<2	22	6	6
	07-21-94	1000	7	260	<0.02	<2	13	3	5
39	08-17-93	1030	14	280	<0.02	<2	22	6	8
	07-21-94	1330	11	210	<0.02	<2	19	6	9
	07-21-94	1410	12	230	<0.02	<2	20	5	9
40	09-29-93	1200	16	320	<0.02	<2	16	6	7
	07-21-94	1430	16	320	<0.02	<2	17	8	8
41	07-21-94	1500	11	380	<0.02	<2	15	8	7

Table 6.--Concentrations of selected elements in bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Lithium (µg/g)	Manganese (µg/g)	Mercury (µg/g)	Molybdenum (µg/g)	Neodymium (µg/g)	Nickel (µg/g)	Niobium (µg/g)
42	08-12-93	1230	7	270	<0.02	<2	14	3	<4
	07-26-94	1440	11	400	<0.02	<2	20	5	8
43	08-12-93	1400	17	270	<0.02	<2	25	9	9
	07-26-94	1400	18	360	<0.02	<2	21	9	10
44	08-13-93	1330	29	980	<0.02	<2	23	19	11
	07-27-94	1520	29	2,700	<0.02	2	21	23	12
	07-27-94	1535	29	2,800	<0.02	<2	22	24	13
45	08-13-93	1220	11	370	<0.02	<2	23	6	6
	07-27-94	1400	10	390	<0.02	<2	23	4	7
47	08-13-93	0830	22	540	<0.02	<2	23	13	9
	08-13-93	0900	21	560	<0.02	<2	28	13	10
	09-29-93	1700	29	740	<0.02	<2	27	15	11
	07-27-94	1200	24	610	<0.02	<2	22	15	10
49	08-13-93	1030	25	560	<0.02	<2	26	14	11
	07-27-94	1315	11	290	<0.02	<2	19	6	7
51	08-11-93	0900	5	250	<0.02	<2	10	2	<4
	07-26-94	0900	14	420	<0.02	<2	30	8	10
52	08-11-93	1200	28	400	<0.02	<2	30	15	13
	07-26-94	1115	22	410	<0.02	<2	30	13	14

Table 6.--Concentrations of selected elements in bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Scandium (µg/g)	Selenium (µg/g)	Silver (µg/g)	Strontium (µg/g)	Tantalum (µg/g)	Thorium (µg/g)
1	08-23-93	1015	6	0.1	<2	240	<40	8
	07-18-94	1450	7	0.1	<2	250	<40	9
2	08-25-93	1000	<2	2.7	<2	2,600	<40	<4
	07-19-94	1300	4	1.6	<2	1,200	<40	4
3	08-24-93	0845	5	0.5	<2	210	<40	7
	08-24-93	0900	5	0.6	<2	220	<40	6
	07-19-94	1300	5	0.5	<2	220	<40	5
5	08-23-93	1430	11	1.2	<2	170	<40	11
	07-19-94	1000	10	0.9	<2	170	<40	9
7	08-24-93	1130	<2	<0.1	<2	130	<40	<4
8	08-23-93	1600	<2	<0.1	<2	130	<40	<4
9	08-24-93	1330	<2	<0.1	<2	130	<40	<4
12	08-19-93	0845	5	0.1	<2	370	<40	7
	07-20-94	0800	5	0.1	<2	850	<40	5
14	09-28-93	1630	9	0.4	<2	160	<40	12
15	09-28-93	1400	5	0.2	<2	180	<40	8
16	09-30-93	0900	8	0.4	<2	170	<40	9
	09-30-93	1000	9	0.4	<2	170	<40	11
17	08-19-93	1310	4	0.4	<2	230	<40	6
	07-20-94	1130	3	0.2	<2	190	<40	5
18	08-19-93	1100	2	0.6	<2	190	<40	4
	07-20-94	1115	2	0.3	<2	190	<40	4
22	08-19-93	1410	4	1.4	<2	600	<40	7
	07-20-94	1030	4	2.6	<2	570	<40	7
	07-20-94	1100	3	1.6	<2	530	<40	5
23	08-20-93	1100	<2	<0.1	<2	150	<40	4
27	07-22-94	0945	<2	2.5	<2	180	<40	4
28	07-22-94	0910	2	4.4	<2	330	<40	4
29	07-22-94	0830	<2	1.8	<2	220	<40	<4
30	08-17-93	1300	<2	<0.1	<2	140	<40	5
	07-20-94	1300	<2	<0.1	<2	140	<40	<4
32	07-22-94	1050	4	0.1	<2	460	<40	8
34	07-22-94	1030	4	1.5	<2	380	<40	6
35	08-10-93	1530	2	0.2	<2	240	<40	<4
	07-21-94	0830	3	0.7	<2	330	<40	4
37	08-18-93	1215	8	0.4	<2	320	<40	9
	07-21-94	1000	10	0.4	<2	410	<40	9
38	08-12-93	0900	3	0.1	<2	170	<40	7
	07-21-94	1000	<2	<0.1	<2	130	<40	<4
39	08-17-93	1030	4	0.7	<2	470	<40	6
	07-21-94	1330	3	0.5	<2	450	<40	5
	07-21-94	1410	3	0.4	<2	460	<40	5
40	09-29-93	1200	4	8.1	<2	960	<40	7
	07-21-94	1430	4	8.4	<2	1,000	<40	6
41	07-21-94	1500	3	3.2	<2	660	<40	4

Table 6.--Concentrations of selected elements in bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Scandium (µg/g)	Selenium (µg/g)	Silver (µg/g)	Strontium (µg/g)	Tantalum (µg/g)	Thorium (µg/g)
42	08-12-93	1230	<2	<0.1	<2	130	<40	4
	07-26-94	1440	3	0.1	<2	160	<40	5
43	08-12-93	1400	6	1.1	<2	190	<40	8
	07-26-94	1400	6	1.0	<2	270	<40	6
44	08-13-93	1330	7	8.1	<2	260	<40	8
	07-27-94	1520	7	23	<2	610	<40	8
	07-27-94	1535	8	16	<2	610	<40	7
45	08-13-93	1220	3	0.4	<2	180	<40	9
	07-27-94	1400	2	0.1	<2	160	<40	9
47	08-13-93	0830	6	4.7	<2	290	<40	7
	08-13-93	0900	6	4.7	<2	300	<40	10
	09-29-93	1700	8	13	<2	380	<40	9
	07-27-94	1200	6	4.4	<2	350	<40	6
49	08-13-93	1030	7	9.8	<2	280	<40	9
	07-27-94	1315	3	1.8	<2	180	<40	5
51	08-11-93	0900	<2	<0.1	<2	120	<40	<4
	07-26-94	0900	4	0.2	<2	200	<40	9
52	08-11-93	1200	8	0.7	<2	270	<40	9
	07-26-94	1115	7	0.3	<2	270	<40	8

Table 6.--Concentrations of selected elements in bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Date	Time	Tin (µg/g)	Uranium (µg/g)	Vanadium (µg/g)	Ytterbium (µg/g)	Yttrium (µg/g)	Zinc (µg/g)
1	08-23-93	1015	<5	<100	79	1	15	150
	07-18-94	1450	<5	<100	110	1	15	62
2	08-25-93	1000	<5	<100	17	<1	3	17
	07-19-94	1300	<5	<100	48	<1	9	40
3	08-24-93	0845	<5	<100	44	1	10	38
	08-24-93	0900	<5	<100	51	1	12	43
	07-19-94	1300	<5	<100	53	1	12	45
5	08-23-93	1430	<5	<100	110	2	22	96
	07-19-94	1000	<5	<100	100	2	18	92
7	08-24-93	1130	<5	<100	12	<1	6	13
8	08-23-93	1600	<5	<100	12	<1	6	11
9	08-24-93	1330	<5	<100	9	<1	5	10
12	08-19-93	0845	<5	<100	39	1	12	36
	07-20-94	0800	<5	<100	37	<1	10	34
14	09-28-93	1630	<5	<100	67	1	16	63
15	09-28-93	1400	<5	<100	41	1	12	35
16	09-30-93	0900	<5	<100	65	1	16	57
	09-30-93	1000	<5	<100	69	2	17	60
17	08-19-93	1310	<5	<100	31	1	12	31
	07-20-94	1130	<5	<100	23	<1	9	24
18	08-19-93	1100	<5	<100	16	<1	7	16
	07-20-94	1115	<5	<100	17	<1	8	16
22	08-19-93	1410	<5	<100	33	1	12	30
	07-20-94	1030	<5	<100	39	<1	12	35
	07-20-94	1100	<5	<100	32	<1	9	29
23	08-20-93	1100	<5	<100	13	<1	7	12
27	07-22-94	0945	<5	<100	14	<1	7	12
28	07-22-94	0910	<5	<100	16	<1	8	16
29	07-22-94	0830	<5	<100	11	<1	6	10
30	08-17-93	1300	<5	<100	8	<1	6	9
	07-20-94	1300	<5	<100	9	<1	5	10
32	07-22-94	1050	<5	<100	46	1	12	39
34	07-22-94	1030	<5	<100	39	<1	11	38
35	08-10-93	1530	<5	<100	22	<1	9	27
	07-21-94	0830	<5	<100	32	1	10	33
37	08-18-93	1215	<5	<100	66	2	16	83
	07-21-94	1000	<5	<100	82	2	17	93
38	08-12-93	0900	<5	<100	33	<1	10	220
	07-21-94	1000	<5	<100	16	<1	7	52
39	08-17-93	1030	<5	<100	39	1	12	39
	07-21-94	1330	<5	<100	30	1	10	37
	07-21-94	1410	<5	<100	31	<1	11	33
40	09-29-93	1200	<5	<100	40	1	12	300
	07-21-94	1430	<5	<100	42	<1	11	350
41	07-21-94	1500	<5	<100	33	<1	10	380

Table 6.--Concentrations of selected elements in bottom-sediment samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Concluded

Site number (fig. 2, table 1)	Date	Time	Tin (µg/g)	Uranium (µg/g)	Vanadium (µg/g)	Ytterbium (µg/g)	Yttrium (µg/g)	Zinc (µg/g)
42	08-12-93	1230	<5	<100	15	<1	7	63
	07-26-94	1440	<5	<100	28	1	10	110
43	08-12-93	1400	<5	<100	50	1	14	70
	07-26-94	1400	<5	<100	53	1	13	73
44	08-13-93	1330	<5	<100	97	2	16	75
	07-27-94	1520	<5	<100	99	2	15	86
	07-27-94	1535	<5	<100	100	1	16	85
45	08-13-93	1220	<5	<100	40	1	11	54
	07-27-94	1400	<5	<100	27	<1	10	56
47	08-13-93	0830	<5	<100	69	2	14	100
	08-13-93	0900	<5	<100	70	1	15	100
	09-29-93	1700	<5	<100	86	2	18	120
	07-27-94	1200	<5	<100	78	1	13	110
49	08-13-93	1030	<5	<100	71	2	16	94
	07-27-94	1315	<5	<100	34	<1	11	91
51	08-11-93	0900	<5	<100	9	<1	5	51
	07-26-94	0900	<5	<100	46	1	15	86
52	08-11-93	1200	<5	<100	78	2	19	90
	07-26-94	1115	<5	<100	76	1	18	100

Table 7.--Concentrations of selected elements in soil samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1994

[Laboratory identification number, a unique sample number assigned by the Bureau of Reclamation; percent in soil, percentage of dry soil-sample weight; µg/g, micrograms per gram of dry soil-sample weight; <, less than]

Site number (fig. 2, table 1)	Date	Time	Site name	Depth at top of sample interval (feet)	Depth at bottom of sample interval (feet)	Laboratory identification number	Latitude	Longitude
HB1-1	04-06-94	0945	Hogback Irrigation Project site 1	0	2.1	94098007	364528	1083502
HB2-1	04-06-94	1030	Hogback Irrigation Project reference site	0	5.0	94098023	364532	1083506
HB2-2	04-06-94	1045	Hogback Irrigation Project reference site	5	7.6	94098010	364532	1083506
HB3-1	04-06-94	1130	Hogback Irrigation Project site 3	0	5.0	94098004	364533	1083500
HB3-2	04-06-94	1145	Hogback Irrigation Project site 3	5	7.1	94098009	364533	1083500
HB4-1	04-06-94	1315	Hogback Irrigation Project site 4	0	5.0	94098011	364540	1083458
HB4-2	04-06-94	1345	Hogback Irrigation Project site 4	5	10.0	94098006	364540	1083458
HU1-1	04-05-94	0900	Hammond Irrigation Project site 1	0	5.0	94098003	364112	1080150
HU1-2	04-05-94	0930	Hammond Irrigation Project site 1	5	8.0	94098020	364112	1080150
HU2-1	04-05-94	1015	Hammond Irrigation Project site 2	0	5.0	94098001	364056	1080155
HU2-2	04-05-94	1030	Hammond Irrigation Project site 2	5	10.0	94098022	364056	1080155

Table 7.--Concentrations of selected elements in soil samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1994--Continued

Site number (fig. 2, table 1)	Date	Time	Site name	Depth at top of sample interval (feet)	Depth at bottom of sample interval (feet)	Laboratory identification number	Latitude	Longitude
HU2-3	04-05-94	1045	Hammond Irrigation Project site 2	10	15.0	94098002	364056	1080155
HU2-4	04-05-94	1100	Hammond Irrigation Project site 2	15	20.0	94098019	364056	1080155
HU3-1	04-05-94	1200	Hammond Irrigation Project reference site	0	5.0	94098021	364117	1080146
HU3-2	04-05-94	1230	Hammond Irrigation Project reference site	5	10.0	94098016	364117	1080146
HU4-1	04-05-94	1330	Hammond Irrigation Project site 4	0	5.0	94098015	364114	1080134
HU4-2	04-05-94	1400	Hammond Irrigation Project site 4	5	10.0	94098017	364114	1080134
HU5-1	04-05-94	1445	Hammond Irrigation Project site 5	0	5.0	94098013	364115	1080129
HU5-2	04-05-94	1500	Hammond Irrigation Project site 5	5	10.0	94098014	364115	1080129
HU5-3	04-05-94	1515	Hammond Irrigation Project site 5	10	12.5	94098012	364115	1080129

Table 7.--Concentrations of selected elements in soil samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1994--Continued

Site number (fig. 2, table 1)	Date	Time	Aluminum, total (percent in soil)	Calcium, total (percent in soil)	Iron, total (percent in soil)	Magnesium, total (percent in soil)	Phosphorus, total (percent in soil)	Potassium, total (percent in soil)	Sodium, total (percent in soil)	Titanium, total (percent in soil)
HB1-1	04-06-94	0945	6.8	4.1	2.7	1.3	0.08	2.0	0.7	0.29
HB2-1	04-06-94	1030	6.8	5.0	2.7	1.4	0.09	2.0	0.8	0.27
HB2-2	04-06-94	1045	4.3	0.7	1.0	0.2	0.03	2.6	1.2	0.12
HB3-1	04-06-94	1130	6.0	3.9	2.4	1.2	0.08	1.9	0.9	0.25
HB3-2	04-06-94	1145	5.4	1.6	2.1	0.5	0.05	2.1	1.2	0.26
HB4-1	04-06-94	1315	6.2	5.4	2.4	1.3	0.09	2.0	0.7	0.26
HB4-2	04-06-94	1345	7.2	3.4	2.9	1.1	0.07	2.0	0.8	0.31
HU1-1	04-05-94	0900	5.4	0.8	1.6	0.5	0.04	2.4	1.2	0.19
HU1-2	04-05-94	0930	5.7	1.6	1.8	0.5	0.03	2.1	1.2	0.20
HU2-1	04-05-94	1015	4.8	0.5	1.1	0.3	0.03	2.7	0.9	0.15
HU2-2	04-05-94	1030	5.6	0.9	1.7	0.5	0.03	2.3	0.9	0.21
HU2-3	04-05-94	1045	5.1	0.9	1.4	0.4	0.03	2.4	0.8	0.17
HU2-4	04-05-94	1100	7.5	1.1	2.9	0.9	0.05	2.2	0.6	0.33
HU3-1	04-05-94	1200	4.5	0.9	1.0	0.3	0.04	2.5	1.1	0.15
HU3-2	04-05-94	1230	4.7	0.8	1.1	0.3	0.03	2.5	1.1	0.15
HU4-1	04-05-94	1330	4.5	0.9	1.0	0.3	0.03	2.5	1.0	0.14
HU4-2	04-05-94	1400	4.1	0.6	0.7	0.1	0.02	2.5	1.0	0.09
HU5-1	04-05-94	1445	4.2	0.7	0.8	0.2	0.02	2.5	0.9	0.11
HU5-2	04-05-94	1500	3.8	0.5	0.5	0.1	0.02	2.6	0.9	0.07
HU5-3	04-05-94	1515	3.6	0.8	0.6	0.1	0.02	2.4	0.9	0.07

Table 7.--Concentrations of selected elements in soil samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1994--Continued

Site number (fig. 2, table 1)	Date	Time	Arsenic, total (µg/g)	Arsenic, water extract-able (µg/g)	Barium, total (µg/g)	Beryl-lium, total (µg/g)	Bismuth, total (µg/g)	Cad-mium, total (µg/g)
HB1-1	04-06-94	0945	7.9	<0.0010	540	2	<10	<2
HB2-1	04-06-94	1030	7.9	.0015	520	2	<10	<2
HB2-2	04-06-94	1045	3.4	.0007	1100	<1	<10	<2
HB3-1	04-06-94	1130	6.9	<.0009	600	2	<10	<2
HB3-2	04-06-94	1145	4.7	<.0005	980	1	<10	<2
HB4-1	04-06-94	1315	7.4	<.0009	500	2	<10	<2
HB4-2	04-06-94	1345	7.8	<.0010	620	2	<10	<2
HU1-1	04-05-94	0900	4.0	.0014	810	1	<10	<2
HU1-2	04-05-94	0930	5.0	.0010	390	1	<10	<2
HU2-1	04-05-94	1015	3.3	.0006	990	1	<10	<2
HU2-2	04-05-94	1030	3.8	<.0006	800	1	<10	<2
HU2-3	04-05-94	1045	4.0	<.0005	900	1	<10	<2
HU2-4	04-05-94	1100	5.8	<.0011	630	2	<10	<2
HU3-1	04-05-94	1200	3.4	.0030	950	1	<10	<2
HU3-2	04-05-94	1230	3.8	.0160	990	1	<10	<2
HU4-1	04-05-94	1330	3.9	.0007	990	1	<10	<2
HU4-2	04-05-94	1400	3.9	.0083	1100	<1	<10	<2
HU5-1	04-05-94	1445	3.5	<.0004	1000	<1	<10	<2
HU5-2	04-05-94	1500	3.6	.0007	1200	<1	<10	<2
HU5-3	04-05-94	1515	6.6	.0004	1400	<1	<10	<2

Table 7.--Concentrations of selected elements in soil samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1994--Continued

Site number (fig. 2, table 1)	Date	Time	Cerium, total (µg/g)	Chromium, total (µg/g)	Cobalt, total (µg/g)	Copper, total (µg/g)	Copper, water extractable (µg/g)	Europium, total (µg/g)	Gallium, total (µg/g)
HB1-1	04-06-94	0945	63	58	10	26	0.0217	<2	16
HB2-1	04-06-94	1030	59	58	10	26	.0425	<2	15
HB2-2	04-06-94	1045	52	6	4	5	.0093	<2	9
HB3-1	04-06-94	1130	55	46	9	22	.0249	<2	13
HB3-2	04-06-94	1145	60	21	8	15	.0094	<2	12
HB4-1	04-06-94	1315	54	59	9	21	.0212	<2	14
HB4-2	04-06-94	1345	69	56	11	27	.0158	<2	17
HU1-1	04-05-94	0900	51	16	6	10	.0273	<2	12
HU1-2	04-05-94	0930	52	18	7	12	.0256	<2	13
HU2-1	04-05-94	1015	57	12	5	7	.0130	<2	11
HU2-2	04-05-94	1030	58	17	7	10	.0094	<2	13
HU2-3	04-05-94	1045	52	13	6	9	.0091	<2	12
HU2-4	04-05-94	1100	84	35	11	21	.0103	<2	19
HU3-1	04-05-94	1200	42	9	5	8	.0186	<2	9
HU3-2	04-05-94	1230	57	9	5	9	.0357	<2	10
HU4-1	04-05-94	1330	47	9	4	6	.0133	<2	9
HU4-2	04-05-94	1400	34	4	4	7	.0285	<2	9
HU5-1	04-05-94	1445	43	7	3	9	.0053	<2	9
HU5-2	04-05-94	1500	34	3	3	3	.0062	<2	8
HU5-3	04-05-94	1515	39	3	3	5	.0050	<2	7

Table 7.--Concentrations of selected elements in soil samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1994--Continued

Site number (fig. 2, table 1)	Date	Time	Gold, total (µg/g)	Holmium, total (µg/g)	Lanthanum, total (µg/g)	Lead, total (µg/g)	Lithium, total (µg/g)	Manganese, total (µg/g)
HB1-1	04-06-94	0945	<8	<4	36	23	39	430
HB2-1	04-06-94	1030	<8	<4	33	20	42	470
HB2-2	04-06-94	1045	<8	<4	27	18	9	190
HB3-1	04-06-94	1130	<8	<4	31	23	32	460
HB3-2	04-06-94	1145	<8	<4	33	18	18	390
HB4-1	04-06-94	1315	<8	<4	31	20	36	340
HB4-2	04-06-94	1345	<8	<4	39	21	36	470
HU1-1	04-05-94	0900	<8	<4	29	19	15	330
HU1-2	04-05-94	0930	<8	<4	29	18	16	350
HU2-1	04-05-94	1015	<8	<4	31	19	11	310
HU2-2	04-05-94	1030	<8	<4	32	19	15	320
HU2-3	04-05-94	1045	<8	<4	29	18	13	300
HU2-4	04-05-94	1100	<8	<4	46	24	24	440
HU3-1	04-05-94	1200	<8	<4	24	18	12	280
HU3-2	04-05-94	1230	<8	<4	32	20	12	290
HU4-1	04-05-94	1330	<8	<4	26	18	11	310
HU4-2	04-05-94	1400	<8	<4	20	17	8	300
HU5-1	04-05-94	1445	<8	<4	24	17	9	240
HU5-2	04-05-94	1500	<8	<4	18	20	7	240
HU5-3	04-05-94	1515	<8	<4	21	17	7	410

Table 7.--Concentrations of selected elements in soil samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1994--Continued

Site number (fig. 2, table 1)	Date	Time	Mercury, total (µg/g)	Mercury, water extractable (µg/g)	Molybdenum, total (µg/g)	Neodymium, total (µg/g)	Nickel, total (µg/g)	Niobium, total (µg/g)	Scandium, total (µg/g)
HB1-1	04-06-94	0945	<0.02	<.0001	<2	30	23	13	9
HB2-1	04-06-94	1030	<0.02	<.0001	<2	29	25	13	10
HB2-2	04-06-94	1045	<0.02	<.0001	<2	21	4	4	2
HB3-1	04-06-94	1130	<0.02	<.0001	<2	25	19	10	8
HB3-2	04-06-94	1145	<0.02	<.0001	<2	27	9	7	5
HB4-1	04-06-94	1315	<0.02	<.0001	2	23	26	9	8
HB4-2	04-06-94	1345	<0.02	<.0001	<2	32	22	15	10
HU1-1	04-05-94	0900	<0.02	<.0001	<2	23	8	8	5
HU1-2	04-05-94	0930	<0.02	<.0001	<2	23	8	8	6
HU2-1	04-05-94	1015	<0.02	<.0001	<2	24	7	6	3
HU2-2	04-05-94	1030	<0.02	<.0001	<2	28	8	8	5
HU2-3	04-05-94	1045	<0.02	<.0001	<2	23	7	7	4
HU2-4	04-05-94	1100	<0.02	<.0001	<2	35	14	13	9
HU3-1	04-05-94	1200	<0.02	<.0001	<2	17	6	6	3
HU3-2	04-05-94	1230	<0.02	<.0001	<2	24	6	6	3
HU4-1	04-05-94	1330	<0.02	<.0001	<2	21	5	6	3
HU4-2	04-05-94	1400	<0.02	.0001	<2	16	4	4	<2
HU5-1	04-05-94	1445	<0.02	<.00004	<2	17	4	5	2
HU5-2	04-05-94	1500	<0.02	<.0001	<2	14	3	<4	<2
HU5-3	04-05-94	1515	<0.02	<.00004	<2	15	3	4	<2

Table 7.--Concentrations of selected elements in soil samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1994--Continued

Site number (fig. 2, table 1)	Date	Time	Selenium, total (µg/g)	Selenium, water extractable (µg/g)	Silver, total (µg/g)	Silver, water extractable (µg/g)	Strontium, total (µg/g)	Tantalum, total (µg/g)	Thorium, total (µg/g)
HB1-1	04-06-94	0945	2.2	0.0029	<2	<0.00010	240	<40	11
HB2-1	04-06-94	1030	3.6	1.26	<2	.00100	300	<40	10
HB2-2	04-06-94	1045	0.4	.0434	<2	<.00005	180	<40	9
HB3-1	04-06-94	1130	2.9	.3767	<2	.00010	250	<40	10
HB3-2	04-06-94	1145	1.4	.0169	<2	<.00005	220	<40	9
HB4-1	04-06-94	1315	1.5	.0071	<2	.00012	250	<40	10
HB4-2	04-06-94	1345	1.0	.036	<2	.00015	240	<40	12
HU1-1	04-05-94	0900	0.2	.0044	<2	.00067	190	<40	8
HU1-2	04-05-94	0930	0.1	.0013	<2	.00078	360	<40	9
HU2-1	04-05-94	1015	0.1	.0004	<2	<.00005	160	<40	10
HU2-2	04-05-94	1030	<0.1	<.0003	<2	<.00006	230	<40	10
HU2-3	04-05-94	1045	<0.1	<.0003	<2	<.00005	210	<40	7
HU2-4	04-05-94	1100	0.1	<.0005	<2	<.00011	270	<40	12
HU3-1	04-05-94	1200	0.1	.008	<2	.00013	190	<40	7
HU3-2	04-05-94	1230	<0.1	.0019	<2	<.00007	200	<40	9
HU4-1	04-05-94	1330	<0.1	.0005	<2	<.00009	180	<40	7
HU4-2	04-05-94	1400	<0.1	.0013	4	.00013	160	<40	4
HU5-1	04-05-94	1445	<0.1	.0003	<2	<.00004	140	<40	7
HU5-2	04-05-94	1500	<0.1	<.0003	<2	<.00005	130	<40	5
HU5-3	04-05-94	1515	<0.1	<.0002	<2	<.00004	140	<40	6

Table 7.--Concentrations of selected elements in soil samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1994--Concluded

Site number (fig. 2, table 1)	Date	Time	Tin, total (µg/g)	Uranium (µg/g)	Vanadium, total (µg/g)	Ytterbium, total (µg/g)	Yttrium, total (µg/g)	Zinc, total (µg/g)	Zinc, water extractable (µg/g)
HB1-1	04-06-94	0945	<5	<100	120	2	19	88	0.0102
HB2-1	04-06-94	1030	<5	<100	130	2	18	88	.0159
HB2-2	04-06-94	1045	<5	<100	27	<1	8	21	.0086
HB3-1	04-06-94	1130	<5	<100	100	2	16	79	.0211
HB3-2	04-06-94	1145	<5	<100	61	1	14	46	.0065
HB4-1	04-06-94	1315	<5	<100	140	2	18	87	.0149
HB4-2	04-06-94	1345	<5	<100	120	2	19	81	.0137
HU1-1	04-05-94	0900	<5	<100	37	1	10	33	.0100
HU1-2	04-05-94	0930	<5	<100	41	1	11	35	.0174
HU2-1	04-05-94	1015	<5	<100	25	<1	9	24	.0152
HU2-2	04-05-94	1030	<5	<100	40	1	11	34	.0063
HU2-3	04-05-94	1045	<5	<100	32	<1	9	29	.0061
HU2-4	04-05-94	1100	<5	<100	69	1	16	63	.0048
HU3-1	04-05-94	1200	<5	<100	23	<1	9	24	.0076
HU3-2	04-05-94	1230	<5	<100	25	<1	10	24	.0069
HU4-1	04-05-94	1330	<5	<100	23	<1	9	21	.0046
HU4-2	04-05-94	1400	<5	<100	14	<1	7	16	.0084
HU5-1	04-05-94	1445	<5	<100	18	<1	8	18	.0019
HU5-2	04-05-94	1500	<5	<100	11	<1	6	11	.0025
HU5-3	04-05-94	1515	<5	<100	10	<1	8	12	.0020

Table 8.--Tally of sample types and analyses conducted on biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94

Site-number (fig. 2, table 1)	1993					1994				
	Inorganic analyses				Organic analyses	Inorganic analyses				Organic analyses
	Plant	Invertebrate	Fish	Amphibian	Fish	Plant	Invertebrate	Fish	Amphibian	Fish
2	3	3	0	0	0	2	3	0	0	0
3	4	2	8	0	3	1	3	2	0	1
4	2	3	12	0	6	1	2	6	0	5
5	3	2	6	1	7	1	2	2	1	1
6	2	1	4	1	3	1	2	3	0	2
10	1	1	6	0	5	2	3	4	0	3
11	2	1	7	0	6	1	1	4	0	4
12	2	3	2	0	1	1	2	1	0	0
22	4	3	1	0	1	2	2	1	0	0
29	0	0	0	0	0	2	1	0	0	0
30	2	0	0	1	0	2	0	0	0	0
34	0	0	0	0	0	1	2	0	1	0
35	1	2	0	1	0	2	1	0	2	0
37	3	2	4	0	4	3	2	3	1	2
38	1	1	3	0	3	1	1	2	0	2
39	1	1	0	0	0	2	1	0	1	0
42	0	0	3	0	3	1	1	1	1	1
43	2	2	2	0	2	2	2	2	2	2
49	2	3	3	1	3	2	1	3	1	2
51	2	2	2	1	2	1	1	3	1	2
52	1	0	1	2	1	2	1	1	0	1
Total	38	32	64	8	50	33	34	38	11	28

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94

[Element concentrations are in micrograms per gram dry weight; <, less than; --, no data]

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
2	SJ01IB1	08-25-93	Whole body	Dragonfly larvae	80.7	140	<0.2	3.0	3.2	<0.01	0.12	0.30	18	199
	SJ01IB2	08-25-93	Whole body	Snail	70.2	89	0.7	<2	6.6	<0.01	0.08	<0.1	5.9	213
	SJ01INK	08-25-93	Whole body	Waterboatmen	72.3	36	<0.2	<2	0.82	<0.01	0.39	<0.1	16	110
	SJ01PA	08-25-93	Whole plant	Algae	75.2	1,530	1.1	86	44.2	0.10	0.31	1.8	15	3,910
	SJ01PM1	08-25-93	Part plant	Coontail	74.1	110	0.2	9.2	17.1	0.01	0.07	0.20	2.9	509
	SJ01PM2	08-25-93	Part plant	Cattail	82.9	45	0.2	25	1.3	<0.01	0.05	0.49	19	151
	SR01IB1	07-26-94	Whole body	Dragonfly/damselfly larvae	84.4	37	0.4	1.2	1.1	<0.04	0.13	0.83	12	74
	SR01IB2	07-26-94	Whole body	Snail	77.7	40	0.6	1.5	2.3	0.05	0.08	0.30	9.1	188
	SR01INK	07-26-94	Whole body	Waterboatmen	73.3	16	<0.1	0.5	0.73	<0.04	0.20	0.60	22	90
	SR01PM1	07-26-94	Part plant	Coontail	78.5	100	0.1	7.7	15.9	<0.04	0.02	1.2	0.3	502
	SR01PM2	07-26-94	Part plant	Cattail	85.8	49	0.2	34	1.4	<0.04	0.11	1.0	18	219
3	SJ04FBF1	08-23-93	Whole body	Common carp	69.4	57	0.4	<2	--	0.06	0.04	0.37	2.2	127
	SJ04FBF2	08-23-93	Whole body	Common carp	69.3	56	<0.3	<2	--	0.07	0.05	0.33	2.2	100
	SJ04FBF3	08-23-93	Whole body	Common carp	63.9	14	0.5	<2	--	0.08	0.04	0.10	2.0	48
	SJ04FFS1	08-23-93	Whole body	Common carp	66.1	250	0.5	<2	--	0.01	0.07	0.30	2.7	278
	SJ04FFS2	08-23-93	Whole body	Fathead minnow	70.3	1,050	0.7	<2	--	0.04	0.08	1.2	6.8	600
	SJ04FFS3	08-23-93	Whole body	Western mosquitofish	65.3	816	0.4	<2	--	0.03	0.07	0.76	7.1	482
	SJ04IB	08-23-93	Whole body	Damselfly larvae	80.0	1,600	0.3	5.0	13.2	0.07	0.29	1.4	15	980
	SJ04INK	08-23-93	Whole body	Backswimmers	63.1	557	0.3	4.0	17.0	0.02	0.19	0.54	18	382
	SJ04OV	08-23-93	Whole body	Northern leopard frog	78.8	872	0.6	2.0	23.6	0.04	0.28	0.91	9.7	716
	SJ04PA	08-23-93	Whole plant	Algae	91.2	84,500	3.5	13	2,450	0.80	0.82	13.6	17	10,900
	SJ04PM1	08-23-93	Part plant	Coontail	86.5	12,600	1.8	302	196	0.51	0.54	9.4	11	6,630
	SJ04PM2	08-23-93	Part plant	Cattail	89.8	290	0.2	17	38.9	0.01	0.08	0.36	7.2	204
	SR04OV	07-19-94	Whole body	Northern leopard frog	82.1	1,480	0.7	1.6	50.6	<0.04	0.40	1.7	23	1,240

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
3	SR04FBF	07-19-94	Whole body	Common carp	63.4	73	0.3	<0.3	5.3	<0.01	0.08	0.25	2.4	103
	SR04FFS	07-19-94	Whole body	Fathead minnow	80.9	110	0.6	0.4	16.9	<0.02	<0.1	<0.9	3.3	124
	SR04IB1	07-19-94	Whole body	Unknown	70.7	1,010	1.2	0.9	29.3	0.03	0.55	0.75	34	856
	SR04IB2	07-19-94	Whole body	Snail	82.1	552	3.1	0.5	55.7	0.03	0.67	0.62	56	659
	SR04PA	07-19-94	Whole plant	Algae	88.3	9,550	1.6	4.3	316	0.21	0.46	4.9	9.2	7,190
4	SJ02FF1	08-23-93	Fillet	Brown trout	73.2	3	0.4	<2	<0.1	<0.01	<0.02	0.10	<0.7	11
	SJ02FF2	08-23-93	Fillet	Rainbow trout	72.7	3	0.3	<2	<0.1	<0.01	<0.02	0.10	<0.7	18
	SJ02FF3	08-23-93	Fillet	Rainbow trout	73.4	3	0.4	<2	0.20	<0.01	<0.02	0.20	0.8	20
	SJ02FF4	08-23-93	Fillet	Rainbow trout	73.4	3	0.4	<2	<0.1	<0.01	<0.02	<0.1	1.0	17
	SJ02FF5	08-23-93	Fillet	Rainbow trout	72.0	3	0.5	<2	<0.1	<0.01	<0.02	<0.09	<0.7	11
	SJ02FFS1	08-23-93	Whole body	Western mosquitofish	75.0	140	<0.3	<2	--	<0.01	0.03	<0.1	3.7	126
	SJ02FFS2	08-23-93	Whole body	Rainbow trout	61.3	250	0.6	<2	--	<0.01	0.04	0.45	11	194
	SJ02FI1	08-23-93	Integrated fish	Brown trout	69.4	109	0.2	<1	--	0.01	0.02	0.19	4.6	100
	SJ02FI2	08-23-93	Integrated fish	Rainbow trout	68.3	26	0.6	<1	--	0.02	0.04	0.29	6.4	79
	SJ02FI3	08-23-93	Integrated fish	Rainbow trout	70.2	63	0.7	<1	--	0.03	0.04	0.20	4.6	100
	SJ02FI4	08-23-93	Integrated fish	Rainbow trout	67.7	33	0.5	<1	--	0.01	0.03	0.19	7.0	74
	SJ02FI5	08-23-93	Integrated fish	Rainbow trout	67.4	130	0.8	<1	--	0.10	0.03	0.56	6.3	195
	SJ02FP1	08-23-93	Part body	Brown trout	69.0	120	<0.4	<2	--	<0.02	0.02	0.20	5.0	110
	SJ02FP2	08-23-93	Part body	Rainbow trout	68.1	27	0.6	<2	--	0.02	0.05	0.30	6.6	82
	SJ02FP3	08-23-93	Part body	Rainbow trout	70.0	68	0.7	<2	--	0.03	0.04	0.20	4.9	106
	SJ02FP4	08-23-93	Part body	Rainbow trout	67.4	35	0.5	<2	--	<0.02	0.03	0.20	7.3	77
	SJ02FP5	08-23-93	Part body	Rainbow trout	67.1	140	0.8	<2	--	0.11	0.03	0.60	6.7	209
	SJ02IB1	08-23-93	Whole body	Snail	74.8	352	3.0	<2	29.9	0.02	0.10	<0.1	11	264
	SJ02IB2	08-23-93	Whole body	Roundworm	86.0	--	5.8	5.0	--	0.31	0.67	5.00	15	--
	SJ02INK	08-23-93	Whole body	Diving beetle	67.9	430	<0.5	<5	11.0	<0.03	0.19	0.02	32	364

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
4	SJ02PA	08-23-93	Whole plant	Algae	81.7	--	3.7	76	181	0.73	0.69	9.50	19	9,310
	SJ02PM	08-23-93	Whole plant	Unknown	88.2	3,540	1.0	440	99.9	0.17	0.34	2.50	14	2,250
	SR02FF01	07-18-94	Fillet	Brown trout	72.1	<1	0.3	<0.4	<0.03	<0.01	0.02	0.53	1.5	16
	SR02FF02	07-18-94	Fillet	Brown trout	76.4	<1	0.1	<0.4	<0.03	<0.01	0.01	0.67	1.4	13
	SR02FF03	07-18-94	Fillet	Rainbow trout	76.6	<1	0.2	<0.4	0.07	<0.01	<0.005	0.64	1.4	14
	SR02FF04	07-18-94	Fillet	Rainbow trout	77.2	1	0.5	<0.4	0.05	<0.01	0.02	0.88	1.5	21
	SR02FF05	07-18-94	Fillet	Rainbow trout	74.3	<1	0.2	<0.4	0.05	<0.01	<0.005	0.68	3.3	14
	SR02FFS	07-18-94	Whole body	Rainbow trout	75.7	92	2.5	<0.4	1.8	<0.01	0.04	0.66	3.8	88
	SR02FI01	07-18-94	Integrated fish	Brown trout	68.0	29	0.4	<0.2	0.84	<0.005	0.02	0.56	6.7	63
	SR02FI02	07-18-94	Integrated fish	Brown trout	72.1	30	0.1	<0.2	1.6	<0.005	0.03	0.65	3.7	50
	SR02FI03	07-18-94	Integrated fish	Rainbow trout	73.4	85	0.4	<0.2	2.9	<0.005	0.02	0.69	4.4	125
	SR02FI04	07-18-94	Integrated fish	Rainbow trout	71.9	49	0.6	<0.2	4.2	<0.005	0.08	0.75	4.0	97
	SR02FI05	07-18-94	Integrated fish	Rainbow trout	70.4	291	0.5	<0.2	7.4	0.005	0.05	0.99	12	385
	SR02FP01	07-18-94	Part body	Brown trout	67.6	32	0.4	<0.4	0.92	<0.01	0.02	0.56	7.2	68
	SR02FP02	07-18-94	Part body	Brown trout	71.7	32	<0.2	<0.4	1.7	<0.01	0.03	0.65	3.9	53
	SR02FP03	07-18-94	Part body	Rainbow trout	73.2	92	0.4	<0.4	3.1	<0.01	0.02	0.69	4.6	134
	SR02FP04	07-18-94	Part body	Rainbow trout	71.4	54	0.6	<0.4	4.6	<0.01	0.08	0.74	4.2	104
	SR02FP05	07-18-94	Part body	Rainbow trout	70.2	305	0.5	0.5	7.8	<0.01	0.05	1.0	12	403
	SR02IB1	07-18-94	Whole body	Snail	75.1	1,360	2.0	0.8	68.7	0.10	0.24	2.8	26	1,050
	SR02IB2	07-18-94	Whole body	Segmented worm	80.0	3,180	3.4	2.1	92.0	0.10	0.38	12.0	12	3,530
	SR02PA	07-18-94	Whole plant	Algae	80.4	10,100	2.6	15	143	0.24	0.19	5.8	10	9,500
5	SJ05FBF	08-24-93	Whole body	Common carp	80.1	26	0.5	<2	–	0.07	0.03	0.20	5.1	103
	SJ05FF1	08-24-93	Fillet	Brown trout	76.1	5	0.4	<2	<0.1	<0.01	<0.02	<0.1	<0.7	12
	SJ05FF2	08-24-93	Fillet	Rainbow trout	76.8	<3	0.4	<2	<0.1	<0.01	<0.02	<0.1	<0.7	10
	SJ05FF3	08-24-93	Fillet	Rainbow trout	77.5	<3	0.3	<2	<0.1	<0.01	<0.02	<0.09	<0.7	11

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
5	SJ05FF4	08-24-93	Fillet	Rainbow trout	78.5	<3	0.5	<2	<0.1	<0.01	<0.02	0.30	<0.7	14
	SJ05FF5	08-24-93	Fillet	Rainbow trout	77.2	<3	0.4	<2	<0.1	<0.01	<0.02	<0.09	<0.7	19
	SJ05FF6	08-24-93	Fillet	Rainbow trout	77.4	<3	0.3	<2	<0.1	<0.01	<0.02	<0.09	<0.7	9.5
	SJ05FFS	08-24-93	Whole body	Fathead minnow	80.7	486	0.8	<2	--	0.02	0.05	0.20	5.4	344
	SJ05FI1	08-24-93	Integrated fish	Brown trout	69.6	8	0.6	<1	--	0.07	0.01	0.09	4.7	40
	SJ05FI2	08-24-93	Integrated fish	Rainbow trout	72.2	23	0.4	<1	--	0.06	0.03	0.19	6.6	86
	SJ05FI3	08-24-93	Integrated fish	Rainbow trout	73.0	19	0.5	<1	--	0.08	0.04	0.10	3.8	68
	SJ05FI4	08-24-93	Integrated fish	Rainbow trout	75.9	30	0.5	<1	--	0.09	0.04	0.11	6.9	84
	SJ05FI5	08-24-93	Integrated fish	Rainbow trout	74.8	28	0.2	<1	4.4	<0.005	0.04	0.28	17	143
	SJ05FI6	08-24-93	Integrated fish	Rainbow trout	73.4	19	0.5	<1	1.9	<0.005	0.02	0.10	4.5	72
	SJ05FP1	08-24-93	Part body	Brown trout	68.8	8	0.6	<2	--	0.08	0.01	0.10	5.2	43
	SJ05FP2	08-24-93	Part body	Rainbow trout	71.8	25	0.4	<2	--	0.07	0.03	0.20	7.1	92
	SJ05FP3	08-24-93	Part body	Rainbow trout	72.6	21	0.5	<2	--	0.09	0.05	0.10	4.2	74
	SJ05FP4	08-24-93	Part body	Rainbow trout	75.7	32	0.5	<2	--	0.10	0.04	0.10	7.4	89
	SJ05FP5	08-24-93	Part body	Rainbow trout	74.6	30	<0.3	<2	4.7	<0.01	0.04	0.30	18	151
	SJ05FP6	08-24-93	Part body	Rainbow trout	73.1	20	0.5	<2	2.1	<0.01	0.02	0.10	4.8	77
	SJ05IB	08-24-93	Whole body	Dragonfly/damselfly larvae	75.8	936	0.7	<2	8.4	0.04	0.08	0.69	15	616
	SJ05INK	08-24-93	Whole body	Waterboatmen	86.8	823	0.5	<2	14.3	0.03	0.17	0.59	11	558
	SJ05PA	08-24-93	Whole plant	Algae	80.3	4,660	1.5	130	153	0.23	0.28	3.2	6.2	3,130
	SJ05PM1	08-24-93	Part plant	Coontail	88.1	2,590	2.2	21	184	0.14	0.25	1.6	8.8	2360
	SJ05PM2	08-24-93	Part plant	Cattail	89.3	100	<0.1	13	40.9	<0.01	<0.02	0.30	7.4	105
	SJ05PM3	08-24-93	Whole plant	Duckweed	94.4	4,430	1.2	588	92.8	0.23	0.37	2.9	15	3,540
	SR05FFS1	07-19-94	Whole body	Common carp	81.9	89	<0.2	<0.4	12.5	<0.02	<0.1	<0.8	3.9	146
	SR05FFS2	07-19-94	Whole body	Fathead minnow	80.4	157	0.6	<0.4	21.3	<0.01	0.03	0.65	3.7	153

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
5	SR05IB	07-19-94	Whole body	Damselfly larvae	83.1	704	1.0	0.9	15.0	0.07	0.43	1.7	14	699
	SR05PA	07-19-94	Whole plant	Algae	73.8	4,650	1.0	114	221	0.14	0.14	3.5	6.0	3,630
6	SJ03FF1	08-23-93	Fillet	Brown trout	72.2	<3	0.5	<2	--	<0.01	<0.02	<0.09	0.9	8.7
	SJ03FF2	08-23-93	Fillet	Rainbow trout	75.2	<3	<0.3	<2	--	<0.01	<0.02	<0.09	1.0	13
	SJ03FF3	08-23-93	Fillet	Rainbow trout	75.6	<3	0.3	<2	--	<0.01	<0.02	<0.1	<0.7	14
	SJ03FFS	08-23-93	Whole body	Brown trout	77.6	120	<0.3	<6	9.4	0.30	<0.07	<0.08	<2.0	110
	SJ03FI1	08-23-93	Integrated fish	Brown trout	69.0	107	0.6	<1	--	0.04	0.02	0.27	6.7	117
	SJ03FI2	08-23-93	Integrated fish	Rainbow trout	71.5	244	0.8	<1	--	0.05	0.06	0.62	8.3	257
	SJ03FI3	08-23-93	Integrated fish	Rainbow trout	72.1	520	0.7	<1	--	0.09	0.05	0.65	6.7	441
	SJ03FP1	08-23-93	Part body	Brown trout	68.6	120	0.6	<2	--	0.05	0.02	0.30	7.4	130
	SJ03FP2	08-23-93	Part body	Rainbow trout	71.3	260	0.8	<2	--	0.05	0.06	0.66	8.8	273
	SJ03FP3	08-23-93	Part body	Rainbow trout	71.9	556	0.7	<2	--	0.10	0.05	0.69	7.1	471
	SJ03IB	08-23-93	Whole body	Midge larvae	91.2	8,600	1.7	8.6	125	0.39	0.41	5.7	15	6,190
	SJ03OV	08-23-93	Whole body	Northern leopard frog	79.3	326	0.3	<2	24.2	0.01	0.19	0.31	9.0	365
	SJ03PA	08-23-93	Whole plant	Algae	80.8	13,400	3.9	66	173	0.58	0.55	9.2	12	8,300
	SJ03PM	08-23-93	Part plant	Cattail	87.5	210	0.1	15	35.9	<0.01	0.04	0.56	4.7	154
	SR03FF01	07-19-94	Fillet	Rainbow trout	78.2	2	0.1	<0.4	0.20	<0.01	0.01	0.74	2.4	22
	SR03FFS1	07-19-94	Whole body	Fathead minnow	76.0	335	1.2	<0.3	22.2	<0.01	0.07	0.70	3.6	278
	SR03FFS2	07-19-94	Whole body	Western mosquitofish	75.2	24	0.4	<0.4	16.5	<0.01	0.01	0.54	2.9	67
	SR03FI01	07-19-94	Integrated fish	Rainbow trout	77.2	191	0.5	0.5	6.4	0.02	0.05	1.1	7.4	227
	SR03FP01	07-19-94	Part body	Rainbow trout	77.2	201	0.5	0.5	6.7	0.02	0.06	1.1	7.6	238
	SR03IB1	07-19-94	Whole body	Mayfly larvae	72.5	2,100	1.4	3.7	57.5	0.06	0.85	4.2	19	1,580
	SR03IB2	07-19-94	Whole body	Snail	76.2	958	2.2	0.5	92.0	<0.04	0.27	1.2	14	1,030
	SR03PA	07-19-94	Whole plant	Algae	83.2	6,840	1.7	47	160	0.07	0.34	4.9	14	4,950
10	SJ06FF1	08-24-93	Fillet	Rainbow trout	74.7	<3	0.6	<2	<0.10	<0.01	<0.02	<0.1	<0.7	7.1

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
10	SJ06FF2	08-24-93	Fillet	Rainbow trout	76.0	<3	0.7	<2	<0.10	<0.01	<0.02	<0.09	<0.7	12
	SJ06FF3	08-24-93	Fillet	Rainbow trout	74.7	<3	0.3	<2	<0.10	<0.01	<0.02	0.20	<0.7	11
	SJ06FF4	08-24-93	Fillet	Brown trout	75.9	<3	0.4	<2	<0.10	<0.01	<0.02	0.10	1.0	13
	SJ06FF5	08-24-93	Fillet	Brown trout	77.5	3	0.6	<2	<0.10	<0.01	<0.02	<0.1	1.0	12
	SJ06FFS	08-24-93	Whole body	Rainbow/brown trout	77.2	210	0.3	<2	–	<0.01	0.03	0.20	3.1	149
	SJ06FI1	08-24-93	Integrated fish	Rainbow trout	70.5	88	0.7	<1	4.0	<0.005	0.02	0.29	3.2	111
	SJ06FI2	08-24-93	Integrated fish	Rainbow trout	71.9	54	0.9	<1	1.5	<0.005	0.03	0.19	3.5	80
	SJ06FI3	08-24-93	Integrated fish	Rainbow trout	71.2	100	0.5	<1	–	<0.005	0.05	0.06	2.8	96
	SJ06FI4	08-24-93	Integrated fish	Brown trout	72.2	60	0.4	<1	–	0.01	0.01	0.47	3.6	96
	SJ06FI5	08-24-93	Integrated fish	Brown trout	72.9	108	0.2	<1	–	<0.005	0.08	0.05	5.5	110
	SJ06FP1	08-24-93	Part body	Rainbow trout	70.3	93	0.7	<2	4.2	<0.01	0.02	0.30	3.3	117
	SJ06FP2	08-24-93	Part body	Rainbow trout	71.5	59	0.9	<2	1.6	<0.01	0.03	0.20	3.8	86
	SJ06FP3	08-24-93	Part body	Rainbow trout	70.8	110	0.5	<2	–	<0.01	0.05	<0.1	3.0	105
	SJ06FP4	08-24-93	Part body	Brown trout	71.9	65	0.4	<2	–	<0.02	0.01	0.50	3.9	104
	SJ06FP5	08-24-93	Part body	Brown trout	72.4	120	<0.3	<2	–	<0.01	0.08	<0.1	6.0	121
	SJ06IB	08-24-93	Whole body	Segmented worm	91.9	8,770	1.8	8.5	114	0.40	0.45	6.0	15	7,110
	SJ06PA	08-24-93	Whole plant	Algae	72.8	26,800	3.5	190	253	1.10	0.85	13.5	16	–
	SR06FF01	07-18-94	Fillet	Rainbow trout	74.9	<1	0.3	<0.3	0.05	<0.01	0.01	0.62	2.4	13
	SR06FF02	07-18-94	Fillet	Brown trout	71.7	<1	0.3	<0.4	0.05	<0.01	<0.005	0.60	1.8	9.6
	SR06FF03	07-18-94	Fillet	Brown trout	77.7	<1	0.2	<0.4	0.07	<0.01	<0.005	0.68	1.2	15
	SR06FF04	07-18-94	Fillet	Rainbow trout	77.9	<1	0.8	<0.4	0.09	<0.01	<0.005	0.69	1.1	14
	SR06FI01	07-18-94	Integrated fish	Rainbow trout	71.0	92	0.4	<0.2	3.7	<0.005	0.02	0.70	6.5	103
	SR06FI02	07-18-94	Integrated fish	Brown trout	66.5	19	0.3	<0.2	0.74	<0.005	0.01	0.48	4.7	45
	SR06FI03	07-18-94	Integrated fish	Brown trout	74.4	68	0.3	<0.2	1.9	<0.005	0.03	0.75	5.5	84
	SR06FI04	07-18-94	Integrated fish	Rainbow trout	73.5	64	0.9	<0.2	2.6	<0.005	0.02	0.91	4.6	81

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
10	SR06FP01	07-18-94	Part body	Rainbow trout	70.6	100	0.4	<0.4	4.0	<0.01	0.02	0.71	6.9	111
	SR06FP02	07-18-94	Part body	Brown trout	65.9	21	0.3	<0.4	0.82	<0.01	0.01	0.47	5.0	49
	SR06FP03	07-18-94	Part body	Brown trout	74.0	76	0.3	<0.4	2.1	<0.01	0.03	0.76	6.0	91
	SR06FP04	07-18-94	Part body	Rainbow trout	72.9	73	0.9	<0.4	2.9	<0.01	0.02	0.94	5.1	90
	SR06IB	07-18-94	Whole body	Mayfly larvae	74.9	2,870	1.5	2.1	58.0	0.13	0.58	6.6	16	2,380
	SR06PA	07-18-94	Whole plant	Algae	83.2	9,720	2.2	66	224	0.27	0.18	7.8	8.7	7,680
11	SJ07FF1	08-24-93	Fillet	Brown trout	73.4	<3	0.6	<2	<0.1	<0.01	<0.02	<0.09	0.7	14
	SJ07FF2	08-24-93	Fillet	Rainbow trout	75.4	<3	0.6	<2	<0.1	<0.01	<0.02	<0.1	<0.7	10
	SJ07FF3	08-24-93	Fillet	Rainbow trout	73.6	<3	0.5	<2	<0.1	<0.01	<0.02	0.10	<0.7	10
	SJ07FF4	08-24-93	Fillet	Rainbow trout	77.0	<3	0.4	<2	<0.1	<0.01	<0.02	<0.1	2.0	14
	SJ07FF5	08-24-93	Fillet	Brown trout	77.1	<3	0.5	<2	<0.1	<0.01	<0.02	<0.1	1.0	9.3
	SJ07FFS1	08-24-93	Whole body	Fathead/mosquitofish	81.3	651	0.8	<2	--	0.03	0.08	0.20	4.1	370
	SJ07FFS2	08-24-93	Whole body	Brown trout	72.9	89	0.4	<2	--	<0.01	0.13	<0.1	3.3	81
	SJ07FI1	08-24-93	Integrated fish	Brown trout	68.7	8	0.6	<1	1.1	<0.005	0.03	0.05	5.4	45
	SJ07FI2	08-24-93	Integrated fish	Rainbow trout	71.0	120	1.0	<1	3.3	<0.005	0.03	0.30	4.5	122
	SJ07FI3	08-24-93	Integrated fish	Rainbow trout	69.8	40	0.3	<1	2.0	<0.005	0.01	0.19	4.8	77
	SJ07FI4	08-24-93	Integrated fish	Rainbow trout	71.9	209	0.5	<1	--	0.06	0.05	0.52	3.8	311
	SJ07FI5	08-24-93	Integrated fish	Brown trout	72.0	76	0.5	<1	--	0.03	0.02	0.10	4.6	89
	SJ07FP1	08-24-93	Part body	Brown trout	68.3	9	0.6	<2	1.2	<0.01	0.03	<0.09	5.8	48
	SJ07FP2	08-24-93	Part body	Rainbow trout	70.6	130	1.0	<2	3.6	<0.01	0.03	0.32	4.8	131
	SJ07FP3	08-24-93	Part body	Rainbow trout	69.5	43	0.3	<2	2.1	<0.01	<0.02	0.20	5.1	82
	SJ07FP4	08-24-93	Part body	Rainbow trout	71.9	210	0.5	<2	--	0.06	0.05	0.52	3.8	312
	SJ07FP5	08-24-93	Part body	Brown trout	72.0	76	0.5	<2	--	0.03	0.02	0.10	4.6	89
	SJ07IB	08-24-93	Whole body	Midge larvae	90.7	9,920	1.9	11	130	0.45	0.42	6.4	15	--
	SJ07PA	08-24-93	Whole plant	Algae	77.3	--	3.4	241	253	0.68	0.58	10.0	12	9,860

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
11	SJ07PM	08-24-93	Part plant	Cattail	86.7	6,820	3.5	13	105	0.33	0.42	4.8	9.2	5,430
	SR07FF01	07-18-94	Fillet	Brown trout	73.9	<1	0.3	<0.4	<0.03	<0.01	<0.005	0.68	1.5	12
	SR07FF02	07-18-94	Fillet	Rainbow trout	75.9	<1	0.2	<0.4	0.06	<0.01	<0.005	0.70	1.9	12
	SR07FF03	07-18-94	Fillet	Brown trout	77.4	<1	0.3	<0.4	0.04	<0.01	<0.005	0.73	1.5	17
	SR07FF04	07-18-94	Fillet	Rainbow trout	78.2	<1	1.4	<0.3	0.13	<0.01	<0.005	0.73	1.3	12
	SR07FI01	07-18-94	Integrated fish	Brown trout	69.4	50	0.3	1.4	1.0	<0.005	0.01	0.66	6.5	70
	SR07FI02	07-18-94	Integrated fish	Rainbow trout	72.3	236	0.4	0.7	4.3	<0.005	0.03	0.70	5.5	229
	SR07FI03	07-18-94	Integrated fish	Brown trout	73.2	70	0.2	<0.2	7.6	<0.005	0.02	0.75	3.9	86
	SR07FI04	07-18-94	Integrated fish	Rainbow trout	74.4	42	1.3	<0.2	2.5	<0.005	0.02	0.67	5.5	66
	SR07FP01	07-18-94	Part body	Brown trout	69.0	54	0.3	<3.0	1.1	<0.01	0.01	0.66	7.0	76
	SR07FP02	07-18-94	Part body	Rainbow trout	71.9	260	0.4	0.8	4.8	<0.01	0.03	0.70	5.9	251
	SR07FP03	07-18-94	Part body	Brown trout	72.8	77	0.2	<0.4	8.4	<0.01	0.02	0.75	4.1	92
	SR07FP04	07-18-94	Part body	Rainbow trout	73.7	50	1.3	<0.4	2.9	<0.01	0.02	0.66	6.3	76
	SR07IB	07-18-94	Whole body	Mayfly larvae	74.3	2,500	1.5	1.9	54.4	0.13	0.38	5.0	17	2,090
	SR07PA	07-18-94	Whole plant	Algae	72.4	8,750	1.7	17	234	0.27	0.17	7.8	7.2	9,410
12	SJ10FFS1	08-19-93	Whole body	Plains killifish	70.9	93	<0.3	<2.0	--	<0.01	0.03	0.33	8.8	142
	SJ10FFS2	08-19-93	Whole body	Western mosquitofish	75.9	100	0.4	<2.0	--	<0.01	<0.02	0.20	5.4	132
	SJ10IB1	08-19-93	Whole body	Dragonfly/damselfly larvae	83.2	543	0.3	4.0	4.4	0.02	0.03	0.40	9.0	444
	SJ10IB2	08-19-93	Whole body	Snail	75.1	649	4.4	5.0	26.8	0.06	0.05	0.30	13	805
	SJ10INK	08-19-93	Whole body	Waterboatmen	68.3	--	0.3	--	--	<0.01	0.08	0.20	--	--
	SJ10PM1	08-19-93	Whole plant	Unknown	83.0	320	0.8	6.1	30.9	0.06	0.05	0.40	5.7	553
	SJ10PM2	08-19-93	Part plant	Cattail	81.6	38	<0.1	14	1.0	<0.01	0.04	1.5	5.4	46
	SR10FFS	07-20-94	Whole body	Plains killifish	77.2	27	<0.1	0.8	0.96	<0.02	<0.1	<0.8	7.0	91
	SR10IB1	07-20-94	Whole body	Dragonfly/damselfly larvae	84.0	818	0.7	5.0	5.0	0.04	0.02	0.40	9.2	979

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
12	SR10IB2	07-20-94	Whole body	Snail	77.0	1,190	3.1	4.7	12.2	0.10	0.01	2.3	18	1,250
	SR10PM	07-20-94	Part plant	Cattail	88.5	2,220	0.4	36	13.3	<0.04	0.03	4.0	8.0	1,950
22	SJ11FFS1	08-19-93	Whole body	Western mosquitofish	74.9	99	0.3	<2.0	3.6	<0.1	0.02	0.42	9.3	100
	SJ11IB1	08-19-93	Whole body	Snail	69.7	773	2.4	<2.0	19.8	0.05	0.14	3.3	29	570
	SJ11IB2	08-19-93	Whole body	Dragonfly/damselfly larvae	80.2	608	1.0	<2.0	8.9	<0.1	0.17	0.41	21	439
	SJ11INK	08-19-93	Whole body	Waterboatmen	64.2	577	1.5	2.0	5.4	<0.1	0.09	0.51	49	385
	SJ11PA	08-19-93	Whole plant	Algae	83.6	5,250	2.3	82	238	0.20	0.93	4.0	26	3,240
	SJ11PM1	08-19-93	Part plant	Cattail	84.4	220	<0.2	6.9	6.5	<0.1	<0.02	0.64	3.6	169
	SJ11PM2	08-19-93	Part plant	Bullrush	74.9	180	<0.2	4.0	8.6	<0.1	0.03	1.5	3.0	251
	SJ11PM3	08-19-93	Part plant	Unknown	84.9	2,590	0.6	17	94.4	0.09	--	--	18	1,670
	SR11FFS	07-26-94	Whole body	Western mosquitofish	77.8	35	0.2	<0.4	3.6	<0.01	0.03	0.65	5.5	68
	SR11IB1	07-26-94	Whole body	Dragonfly/damselfly larvae	80.7	193	0.3	1.6	3.8	0.04	0.22	1.2	17	174
	SR11IB2	07-26-94	Whole body	Snail	68.4	324	1.5	1.0	18.0	0.04	0.01	<0.2	7.6	270
	SR11PA	07-26-94	Whole plant	Algae	73.0	2,020	0.6	104	51.4	<0.04	0.04	2.7	5.3	1,580
	SR11PM	07-26-94	Part plant	Coontail	84.1	1,000	0.2	211	27.3	<0.04	0.06	1.5	6.7	651
29	SRMGIB	07-27-94	Whole body	Dragonfly larvae	82.3	289	1.1	2.4	4.8	<0.02	0.21	1.0	15	275
	SRMGPA	07-27-94	Whole plant	Algae	67.9	1,650	0.3	31	28.5	0.15	0.10	4.7	0.7	1,140
	SRMGPM	07-27-94	Part plant	Cattail	91.3	46	<0.2	16	6.6	<0.01	0.08	0.60	2.2	67
30	SJ22OV	08-17-93	Whole body	Western spadefoot	83.6	792	1.8	7.0	28.4	<0.2	0.46	<0.4	11	597
	SJ22PA	08-17-93	Whole plant	Algae	74.0	6,710	3.6	140	324	0.31	0.39	9.0	8.4	5,830
	SJ22PM	08-17-93	Part plant	Bullrush	88.7	170	<0.2	<10	3.1	<0.09	0.05	0.57	8.2	120
	SR22PA	07-20-94	Whole plant	Algae	48.9	14,600	2.8	5.8	730	0.46	0.08	4.0	13	12,100
	SR22PM	07-20-94	Part plant	Bullrush	83.8	469	0.1	8.6	17.6	<0.04	0.07	1.2	6.7	399
34	SROAIB	07-21-94	Whole body	Dragonfly/damselfly larvae	78.9	843	1.1	5.2	33.4	0.04	0.04	2.1	6.3	768

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
34	SROAINK	07-21-94	Whole body	Backswimmers	68.0	358	0.1	2.7	16.6	<0.01	0.02	1.6	8.9	380
	SROAOV	07-21-94	Whole body	Tiger salamander	87.4	140	0.6	0.9	6.0	<0.05	0.02	0.73	2.4	207
	SROAPA	07-21-94	Whole plant	Algae	89.4	2,090	1.5	71	568	0.09	0.15	3.8	23	1,720
35	SJ23IB	08-10-93	Whole body	Dragonfly larvae	79.4	4,190	2.1	6.9	625	0.10	0.32	2.7	17	4,600
	SJ23INK	08-10-93	Whole body	Backswimmers	64.1	643	0.4	<2	7.7	<0.1	0.72	0.20	39	605
	SJ23OV	08-10-93	Whole body	Western spadefoot	86.1	699	6.5	5.0	59.2	<0.2	0.29	1.0	66	1,500
	SJ23PA	08-10-93	Whole plant	Algae	80.7	13,400	1.9	14	571	0.52	0.99	14.8	16	10,600
	SR23IB	07-21-94	Whole body	Dragonfly/damselfly larvae	82.0	1,850	1.4	4.1	13.2	0.06	0.14	0.70	21	1,360
	SR23OV1	07-21-94	Whole body	Western spadefoot	84.3	13,900	2.0	11	95.5	0.63	0.33	4.5	14	9,890
	SR23OV2	07-21-94	Whole body	Western spadefoot	85.4	270	1.2	4.0	8.2	<0.02	<0.1	<0.8	12	269
	SR23PA	07-21-94	Whole plant	Algae	80.7	8,540	1.0	17	140	0.37	0.61	4.7	13	7,070
	SR23PM	07-21-94	Part plant	Coontail	68.0	2,580	0.4	6.9	66.0	0.15	0.04	2.3	3.0	1,750
37	SJ24FFS1	08-18-93	Whole body	Western mosquitofish	74.6	250	0.3	<2	9.6	<0.1	0.04	0.36	9.0	203
	SJ24FFS2	08-18-93	Whole body	Common carp	80.4	200	0.4	<10	5.0	<0.09	0.04	3.1	34	200
	SJ24FFS3	08-18-93	Whole body	Fathead minnow	84.9	2,900	1.0	<2	24.9	<0.1	0.08	1.9	8.3	1,700
	SJ24FFS4	08-18-93	Whole body	Plains killifish	80.1	2,230	0.7	<2	18.8	<0.1	0.08	1.5	12	1,400
	SJ24IB	08-18-93	Whole body	Dragonfly larvae	82.5	1,900	2.0	<3	15.0	<0.2	0.10	0.40	16	1,360
	SJ24INK	08-18-93	Whole body	Backswimmers	78.3	1,280	2.0	<7	9.2	<0.4	0.36	<0.3	61	920
	SJ24PA	08-18-93	Whole plant	Algae	86.5	24,100	3.7	11	193	0.91	0.88	5.4	22	15,600
	SJ24PM1	08-18-93	Part plant	Cattail	85.2	1,030	0.3	12	17.0	<0.1	0.08	1.2	5.4	757
	SJ24PM2	08-18-93	Part plant	Coontail	71.3	1,280	<0.2	6.5	57.6	<0.1	0.07	1.2	1.2	1,000
	SR24FBF	07-21-94	Whole body	Common carp	71.1	14	0.2	<0.3	0.92	<0.01	0.01	0.59	3.8	103
	SR24FFS1	07-21-94	Whole body	Plains killifish	77.0	45	0.3	<3	5.0	<0.01	0.01	0.80	5.9	89
	SR24FFS2	07-21-94	Whole body	Fathead minnow	82.1	1,730	0.6	1.6	16.8	0.03	0.02	2.8	4.3	1,070

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
37	SR24IB1	07-21-94	Whole body	Dragonfly/damselfly larvae	81.4	1,840	1.5	2.2	25.5	0.06	0.27	0.89	14	1,360
	SR24IB2	07-21-94	Whole body	Crayfish	80.0	1,200	1.7	1.6	40.1	0.05	0.09	0.81	93	825
	SR24OV	07-21-94	Whole body	Bullfrog tadpole	86.3	13,500	2.3	6.1	86.3	0.40	0.09	14.0	13	8,840
	SR24PA	07-21-94	Whole plant	Algae	77.5	21,200	5.8	15	182	0.54	0.16	6.8	25	14,100
	SR24PM1	07-21-94	Part plant	Coontail	90.8	6,670	3.1	14	99.5	0.23	0.12	4.1	18	6,570
	SR24PM2	07-21-94	Part plant	Cattail	85.7	228	0.0	14	4.3	<0.04	<0.01	0.50	5.2	170
38	SJ32FFS1	08-12-93	Whole body	Unknown	82.6	2,360	1.0	<3	41.8	<0.2	0.13	1.6	3.1	1,420
	SJ32FFS2	08-12-93	Whole body	Fathead minnow	81.5	2,650	1.3	<2	45.6	<0.1	0.24	2.3	14	1,650
	SJ32FFS3	08-12-93	Whole body	Fathead minnow	80.4	2,060	0.2	<2	44.0	<0.1	0.46	1.6	6.1	1,350
	SJ32IB	08-12-93	Whole body	Dragonfly larvae	82.2	4,770	2.8	3.0	101	0.10	0.62	5.7	28	3,800
	SJ32PA2	08-12-93	Whole plant	Algae	94.3	6,060	3.1	3.0	326	0.20	1.10	3.1	17	4,290
	SR32FBF	07-27-94	Whole body	Flannelmouth sucker	71.9	1,040	1.1	<0.5	16.2	0.02	0.04	1.3	3.2	605
	SR32FFS	07-27-94	Whole body	Longnose dace	68.9	427	0.7	<0.5	10.6	<0.01	0.28	0.80	2.9	290
	SR32IB	07-27-94	Whole body	Dragonfly larvae	74.0	3,810	1.9	1.6	25.2	0.11	0.71	2.2	23	2,120
	SR32PA	07-27-94	Whole plant	Algae	74.2	30,500	3.3	50	187	0.94	0.24	15.0	18	17,700
39	SJ18INK	08-17-93	Whole body	Waterboatmen	70.6	296	0.4	2.0	10.3	<0.1	0.20	0.33	17	541
	SJ18PA	08-17-93	Whole plant	Algae	93.3	3,690	1.9	84	89.5	<0.1	0.24	3.0	11	3,640
	SR18PA	07-21-94	Whole plant	Algae	90.6	4,350	1.0	27	152	0.10	0.02	4.5	3.1	5,370
	SR18PM	07-21-94	Part plant	Coontail	79.0	194	0.2	7.6	230	<0.04	0.04	0.99	3.2	795
	SR19INK	07-21-94	Whole body	Backswimmers	70.7	306	0.3	3.0	13.0	<0.04	0.21	1.5	12	574
	SR19OV	07-21-94	Whole body	Tiger salamander	87.0	1,040	0.5	2.6	14.8	<0.04	0.05	2.5	8.2	1,100
42	SJ33FFS1	08-12-93	Whole body	Western mosquitofish	70.1	140	0.7	<3	4.6	<0.2	0.16	0.30	6.0	140
	SJ33FFS2	08-12-93	Whole body	Fatheads/suckers	77.5	1,260	1.6	<2	34.4	<0.1	0.31	1.9	8.8	999
	SJ33FFS3	08-12-93	Whole body	Red shiner	71.1	405	0.6	<2	12.7	<0.1	0.16	0.60	4.2	331

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
42	SR33FFS	07-26-94	Whole body	Western mosquitofish	75.1	1,180	0.6	<0.5	17.6	<0.01	0.03	1.4	4.9	1,100
	SR33IB	07-26-94	Whole body	Dragonfly/damselfly larvae	81.3	3,810	3.8	2.3	26.2	0.12	0.56	2.7	19	4,100
	SR33OV	07-26-94	Whole body	Western spadefoot	82.6	947	1.4	3.8	36.3	<0.1	0.79	1.8	13	1,020
	SR33PA	07-26-94	Whole plant	Algae	86.5	10,200	6.3	22	328	0.39	0.39	5.7	16	10,600
43	SJ34FFS1	08-12-93	Whole body	Black bullhead	77.4	1,000	1.3	<10	18.0	<0.09	0.21	2.9	16	776
	SJ34FFS2	08-12-93	Whole body	Western mosquitofish	76.4	362	0.6	<2	8.6	<0.1	0.31	1.1	20	289
	SJ34IB1	08-12-93	Whole body	Dragonfly larvae	85.2	1,670	4.8	<4	18.0	<0.2	0.32	0.82	20	2,720
	SJ34IB2	08-12-93	Whole body	Crayfish	78.4	694	2.0	<2	24.4	<0.1	0.10	0.81	76	612
	SJ34PM1	08-12-93	Part plant	Cattail	78.0	200	<0.2	12	4.5	<0.1	1.50	1.6	31	142
	SJ34PM2	08-12-93	Part plant	Cattail	89.9	678	<0.2	12	11.8	<0.1	0.21	1.6	9.3	607
	SR34FFS1	07-26-94	Whole body	Western mosquitofish	75.9	44	0.6	<0.5	10.7	<0.01	0.02	0.90	4.7	241
	SR34FFS2	07-26-94	Whole body	Green sunfish	76.3	48	0.2	<0.5	2.0	<0.01	0.01	1.1	3.0	138
	SR34IB1	07-26-94	Whole body	Dragonfly/damselfly larvae	83.1	701	9.3	2.1	16.3	0.02	0.06	1.1	22	7,280
	SR34IB2	07-26-94	Whole body	Snail	65.2	1,130	7.5	1.0	27.3	0.07	0.10	0.58	9.4	6,750
	SR34OV1	07-26-94	Whole body	Western spadefoot	85.5	768	0.8	3.6	16.4	<0.05	0.72	1.8	12	875
	SR34OV2	07-26-94	Whole body	Bullfrog tadpole	91.0	838	11	269	36.2	0.04	0.12	2.5	9.0	12,400
	SR34PM1	07-26-94	Part plant	Widgeongrass	92.1	92	0.8	13	6.1	<0.01	0.12	1.1	11	1,020
	SR34PM2	07-26-94	Part plant	Cattail	83.1	11,900	24	6.3	168	0.51	0.24	17.0	13	31,900
49	SJ27FFS1	08-13-93	Whole body	Unknown	80.4	386	0.3	<2	4.2	<0.1	0.06	0.53	6.4	351
	SJ27FFS2	08-13-93	Whole body	Fathead minnow	76.5	1,430	0.4	<2	12.4	<0.1	0.12	1.5	5.1	907
	SJ27FFS3	08-13-93	Whole body	Western mosquitofish	76.1	447	0.4	<2	7.0	<0.1	0.04	0.65	9.0	310
	SJ27IB1	08-13-93	Whole body	Crayfish	75.6	1,440	1.7	3.0	29.4	<0.1	0.15	2.0	98	870
	SJ27IB2	08-13-93	Whole body	Dragonfly larvae	87.1	1,660	1.3	2.0	8.8	<0.1	0.12	1.5	19	1,020

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
49	SJ27INK	08-13-93	Whole body	Whirly gig	61.5	1,030	1.4	3.0	4.8	<0.1	0.11	1.1	55	603
	SJ27OV1	08-13-93	Whole body	Western spadefoot	82.4	949	0.6	<2	26.9	<0.1	0.32	121	29	1,010
	SJ27PA	08-13-93	Whole plant	Algae	79.3	17,400	6.5	48	170	0.78	1.20	7.9	24	14,300
	SJ27PM	08-13-93	Part plant	Cattail	90.8	782	<0.2	14	5.5	<0.1	0.08	2.1	5.6	534
	SR27FBF	07-27-94	Whole body	Flannelmouth sucker	77.4	1,390	0.3	1.7	13.0	<0.02	<0.1	1.0	3.6	801
	SR27FFS1	07-27-94	Whole body	Western mosquitofish	75.5	329	0.2	0.8	6.3	0.01	0.08	1.2	4.4	218
	SR27FFS2	07-27-94	Whole body	Fathead minnow	76.5	307	0.2	0.9	4.1	<0.01	0.04	1.1	3.7	235
	SR27IB1	07-27-94	Whole body	Dragonfly/damselfly larvae	83.9	3,810	1.6	5.3	26.2	0.22	0.22	7.6	30	2,550
	SR27OV	07-27-94	Whole body	Northern leopard frog	82.4	226	0.3	1.0	5.0	<0.04	0.21	0.72	7.9	243
	SR27PA	07-27-94	Whole plant	Algae	85.1	9,800	3.1	77	107	0.26	0.45	4.3	14	7,950
	SR27PM	07-27-94	Part plant	Cattail	86.8	177	0.1	25	10.7	<0.04	0.06	0.96	2.9	144
51	SJ30FBF	08-11-93	Whole body	Flannelmouth sucker	71.0	512	1.0	<3	63.6	<0.2	0.20	<0.3	4.2	512
	SJ30FFS	08-11-93	Whole body	Red shiner	85.7	1,500	0.9	<2	36.1	<0.1	0.30	1.7	12	970
	SJ30IB	08-11-93	Whole body	Mayfly larvae	80.0	5,660	3.0	4.0	96.5	0.20	1.30	33.5	30	4,140
	SJ30INK	08-11-93	Whole body	Whirly gig	65.2	100	<0.5	<3	3.4	<0.2	3.94	<0.2	24	150
	SJ30OV	08-11-93	Whole body	Western spadefoot	81.8	1,430	2.0	<6	47.5	<0.3	0.65	0.60	26	1,340
	SJ30PA	08-11-93	Whole plant	Algae	92.5	4,230	2.1	49	241	0.20	0.79	4.0	8.6	3,430
	SJ30PM	08-11-93	Whole plant	Unknown	88.1	1,850	1.6	9.7	77.1	<0.1	0.53	2.1	14	3,710
	SR30FFS1	07-26-94	Whole body	Red shiner	73.1	204	0.3	<0.4	8.1	<0.01	0.08	0.88	3.0	155
	SR30FFS2	07-26-94	Whole body	Unknown	81.3	4,610	0.7	2.8	81.1	<0.02	0.40	2.8	11	2,490
	SR30FFS3	07-26-94	Whole body	Flannelmouth sucker	73.3	530	0.3	0.6	12.0	<0.01	0.10	1.4	3.4	332
	SR30IB	07-26-94	Whole body	Dragonfly/damselfly larvae	87.2	2,840	1.5	5.4	40.8	0.11	0.86	1.5	26	1,930
	SR30OV	07-26-94	Whole body	Western spadefoot	83.6	533	0.4	2.6	19.8	0.02	0.23	0.50	9.9	419

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
51	SR30PA	07-26-94	Whole plant	Algae	86.5	8,570	1.7	184	59.7	0.23	0.28	5.0	8.4	5,220
52	SJ31FFS	08-11-93	Whole body	Red shiner	85.7	614	1.0	<3	17.4	<0.2	1.20	0.80	19	531
	SJ31PA	08-11-93	Whole plant	Algae	84.4	1,140	1.8	3.0	527	<0.1	1.30	1.3	11	834
	SR31FFS	07-26-94	Whole body	Flannelmouth sucker	75.6	1,010	0.4	<0.5	18.7	0.02	0.11	1.7	9.0	636
	SR31IB	07-26-94	Whole body	Dragonfly larvae	84.5	2,400	2.8	2.6	30.2	0.09	0.30	3.0	31	1,750
	SR31PA	07-26-94	Whole plant	Algae	80.6	10,200	3.0	120	301	0.26	0.36	5.2	11	6,340
	SR31PM	07-26-94	Part plant	Cattail	88.8	492	<0.2	15	12.2	0.02	0.05	1.2	2.8	294

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Selenium	Strontium	Vanadium	Zinc
2	SJ01IB1	08-25-93	Whole body	Dragonfly larvae	<0.4	1,180	4.6	0.040	<1	0.30	3.4	62.0	0.4	73.0
	SJ01IB2	08-25-93	Whole body	Snail	<0.4	727	--	<0.02	<1	0.20	0.50	--	<0.3	19.0
	SJ01INK	08-25-93	Whole body	Waterboatmen	<0.4	991	7.5	0.091	<1	<0.1	<0.4	59.2	<0.3	85.0
	SJ01PA	08-25-93	Whole plant	Algae	4.0	9,430	315	<0.02	<1	2.3	2.6	1,210	3.6	13.0
	SJ01PM1	08-25-93	Part plant	Coontail	0.60	2,650	48.9	<0.02	<1	0.55	0.78	1,850	<0.3	7.0
	SJ01PM2	08-25-93	Part plant	Cattail	<0.4	2,080	20.9	<0.02	3.0	0.42	0.75	196	<0.3	39.0
	SR01IB1	07-26-94	Whole body	Dragonfly/damselfly larvae	<0.2	1,120	2.1	0.088	0.4	<0.3	2.9	40.0	<0.2	72.5
	SR01IB2	07-26-94	Whole body	Snail	<0.2	1,090	37.8	0.020	<0.2	<0.3	0.79	1,840	<0.2	15.0
	SR01INK	07-26-94	Whole body	Waterboatmen	<0.2	985	5.6	0.095	0.6	<0.3	4.0	41.8	<0.2	87.8
	SR01PM1	07-26-94	Part plant	Coontail	<0.2	3,180	59.8	0.010	1.3	0.70	0.63	1,930	0.3	3.9
	SR01PM2	07-26-94	Part plant	Cattail	<0.2	2,110	48.8	0.017	3.6	0.60	1.8	236	1.2	26.0
3	SJ04FBF1	08-23-93	Whole body	Common carp	0.06	939	4.9	0.180	<1	0.20	2.2	--	<0.3	253
	SJ04FBF2	08-23-93	Whole body	Common carp	0.11	1,350	10.0	0.340	<1	0.20	2.8	--	0.3	188
	SJ04FBF3	08-23-93	Whole body	Common carp	0.01	840	5.0	0.140	<1	0.20	1.3	--	<0.3	159
	SJ04FFS1	08-23-93	Whole body	Common carp	0.70	1,580	13.0	0.190	<1	0.32	3.2	--	0.8	209
	SJ04FFS2	08-23-93	Whole body	Fathead minnow	1.6	1,420	18.0	0.085	<1	0.67	4.4	--	2.1	132
	SJ04FFS3	08-23-93	Whole body	Western mosquitofish	1.5	1,510	24.3	0.093	2.0	0.50	3.4	--	1.6	156
	SJ04IB	08-23-93	Whole body	Damselfly larvae	1.0	1,120	101	0.050	<1	0.87	6.4	9.0	3.3	76.0
	SJ04INK	08-23-93	Whole body	Backswimmers	<0.4	924	30.1	0.190	<1	0.54	2.3	12.8	1.2	101
	SJ04OV	08-23-93	Whole body	Northern leopard frog	1.0	1,460	28.4	0.150	<1	0.60	3.6	--	2.1	89.2
	SJ04PA	08-23-93	Whole plant	Algae	24	4,810	2,090	<0.02	<1	8.6	1.4	121	36	49.0
	SJ04PM1	08-23-93	Part plant	Coontail	18	3,910	866	<0.02	<1	5.9	1.2	195	22	34.0
	SJ04PM2	08-23-93	Part plant	Cattail	0.60	1,980	270	<0.02	<1	0.81	0.40	72.3	0.5	21.0
	SR04OV	07-19-94	Whole body	Northern leopard frog	0.50	1,380	46.0	0.140	0.3	0.90	6.2	64.5	2.9	91.6
	SR04FBF	07-19-94	Whole body	Common carp	0.10	698	3.0	0.170	<0.2	0.10	1.7	40.0	0.3	205
	SR04FFS	07-19-94	Whole body	Fathead minnow	<3	1,230	9.4	0.150	<0.2	<0.6	4.6	63.9	0.3	100
	SR04IB1	07-19-94	Whole body	Unknown	1.9	1,260	133	0.110	0.5	0.73	5.7	109	2.2	82.5
	SR04IB2	07-19-94	Whole body	Snail	2.1	835	345	0.050	0.3	1.3	1.8	362	1.2	29.5
	SR04PA	07-19-94	Whole plant	Algae	4.0	2,830	452	0.028	0.4	4.7	1.1	50.1	18	34.8

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Selenium	Strontium	Vanadium	Zinc
4	SJ02FF1	08-23-93	Fillet	Brown trout	<0.4	1,190	0.3	0.140	<1	<0.1	3.0	--	<0.3	12.0
	SJ02FF2	08-23-93	Fillet	Rainbow trout	<0.4	1,020	0.5	0.230	<1	<0.1	1.5	--	<0.3	11.0
	SJ02FF3	08-23-93	Fillet	Rainbow trout	<0.4	1,120	0.8	0.160	<1	<0.1	2.1	--	<0.3	14.0
	SJ02FF4	08-23-93	Fillet	Rainbow trout	<0.4	1,010	0.4	0.170	<1	<0.1	1.3	--	<0.3	12.0
	SJ02FF5	08-23-93	Fillet	Rainbow trout	<0.4	994	0.4	0.180	<1	<0.1	1.5	--	<0.3	10.0
	SJ02FFS1	08-23-93	Whole body	Western mosquitofish	0.50	1,390	15.0	0.120	<1	0.20	3.5	--	<0.3	146
	SJ02FFS2	08-23-93	Whole body	Rainbow trout	0.40	1,090	11.0	0.074	<1	0.30	6.9	--	0.5	96.8
	SJ02FI1	08-23-93	Integrated fish	Brown trout	0.04	882	1.9	0.090	<0.5	0.19	3.7	--	<0.2	76.6
	SJ02FI2	08-23-93	Integrated fish	Rainbow trout	0.01	804	4.3	0.105	<0.5	0.19	2.1	--	<0.2	64.8
	SJ02FI3	08-23-93	Integrated fish	Rainbow trout	0.05	818	5.2	0.089	<0.5	0.19	3.3	--	<0.2	56.6
	SJ02FI4	08-23-93	Integrated fish	Rainbow trout	0.03	812	4.5	0.091	<0.5	0.19	1.9	--	<0.2	69.8
	SJ02FI5	08-23-93	Integrated fish	Rainbow trout	0.09	808	10.3	0.106	<0.5	0.39	2.8	--	0.3	65.8
	SJ02FP1	08-23-93	Part body	Brown trout	0.02	849	2.1	0.085	<1	0.20	3.8	--	<0.3	83.5
	SJ02FP2	08-23-93	Part body	Rainbow trout	<0.007	795	4.5	0.100	<1	0.20	2.1	--	<0.3	67.0
	SJ02FP3	08-23-93	Part body	Rainbow trout	0.04	794	5.6	0.083	<1	0.20	3.4	--	<0.3	60.0
	SJ02FP4	08-23-93	Part body	Rainbow trout	0.02	801	4.7	0.087	<1	0.20	1.9	--	<0.3	73.0
	SJ02FP5	08-23-93	Part body	Rainbow trout	0.08	794	11.0	0.100	<1	0.42	2.9	--	0.3	70.0
	SJ02IB1	08-23-93	Whole body	Snail	0.80	451	--	0.020	<1	0.64	0.60	--	0.6	12.0
	SJ02IB2	08-23-93	Whole body	Roundworm	9.0	1,830	207	0.140	<1	3.6	18	46.2	16	145
	SJ02INK	08-23-93	Whole body	Diving beetle	1.0	876	48.0	0.150	<0.2	0.60	7.4	31.4	1.0	91.0
	SJ02PA	08-23-93	Whole plant	Algae	23	3,790	2,490	0.040	<1	8.7	2.9	132	24	39.0
	SJ02PM	08-23-93	Whole plant	Unknown	5.3	2,510	1,620	0.030	2.0	4.5	2.4	108	6.4	43.0
	SR02FF01	07-18-94	Fillet	Brown trout	<0.04	1,060	0.3	0.150	<0.2	<0.04	2.6	0.2	<0.2	14.0
	SR02FF02	07-18-94	Fillet	Brown trout	<0.04	1,260	0.4	0.130	<0.2	0.77	2.5	0.6	<0.2	22.0
	SR02FF03	07-18-94	Fillet	Rainbow trout	<0.04	1,240	0.4	0.200	<0.2	<0.04	2.4	1.3	<0.2	16.0
	SR02FF04	07-18-94	Fillet	Rainbow trout	<0.04	1,280	0.5	0.095	<0.2	<0.04	1.9	0.6	<0.2	21.0
	SR02FF05	07-18-94	Fillet	Rainbow trout	<0.04	1,090	0.5	0.180	<0.2	<0.04	2.2	0.6	<0.2	14.0
	SR02FFS	07-18-94	Whole body	Rainbow trout	<0.04	1,000	4.7	0.140	<0.2	0.08	1.7	20.7	<0.2	80.7
	SR02FI01	07-18-94	Integrated fish	Brown trout	<0.02	843	2.4	0.141	<0.1	0.07	4.2	17.0	0.2	64.2
	SR02FI02	07-18-94	Integrated fish	Brown trout	<0.02	987	4.2	0.102	<0.1	0.08	3.7	27.2	0.1	74.3

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Selenium	Strontium	Vanadium	Zinc
4	SR02FI03	07-18-94	Integrated fish	Rainbow trout	<0.02	1,020	5.2	0.163	<0.1	0.13	3.7	26.4	0.3	92.6
	SR02FI04	07-18-94	Integrated fish	Rainbow trout	<0.02	1,020	5.7	0.070	<0.1	0.02	4.1	24.5	0.3	80.8
	SR02FI05	07-18-94	Integrated fish	Rainbow trout	0.22	872	16.5	0.142	0.1	0.46	3.4	20.6	0.8	73.2
	SR02FP01	07-18-94	Part body	Brown trout	<0.04	821	2.6	0.140	<0.2	0.07	4.3	18.7	0.2	69.4
	SR02FP02	07-18-94	Part body	Brown trout	<0.04	965	4.5	0.100	<0.2	<0.04	3.8	29.3	<0.2	78.5
	SR02FP03	07-18-94	Part body	Rainbow trout	<0.04	1,000	5.6	0.160	<0.2	0.14	3.8	28.4	0.3	98.8
	SR02FP04	07-18-94	Part body	Rainbow trout	<0.04	1,000	6.2	0.068	<0.2	<0.04	4.3	26.8	0.3	86.6
	SR02FP05	07-18-94	Part body	Rainbow trout	0.23	861	17.3	0.140	<0.2	0.48	3.5	21.6	0.8	76.1
	SR02IB1	07-18-94	Whole body	Snail	1.1	1,150	153	0.042	0.6	1.7	1.6	351	2.3	26.0
	SR02IB2	07-18-94	Whole body	Segmented worm	2.0	1,300	116	0.071	0.5	3.2	9.2	38.5	9.6	84.2
	SR02PA	07-18-94	Whole plant	Algae	3.9	2,750	340	0.028	0.4	4.4	0.90	66.7	23.0	28.6
5	SJ05FBF	08-24-93	Whole body	Common carp	7.54	1,230	7.1	0.160	<1	0.30	3.3	--	<0.3	180
	SJ05FF1	08-24-93	Fillet	Brown trout	<0.4	1,170	0.2	0.150	<1	<0.1	3.2	--	<0.3	11.0
	SJ05FF2	08-24-93	Fillet	Rainbow trout	<0.4	1,160	0.3	0.180	<1	<0.1	3.0	--	<0.3	13.0
	SJ05FF3	08-24-93	Fillet	Rainbow trout	<0.4	1,140	0.8	0.140	<1	<0.1	3.5	--	<0.3	14.0
	SJ05FF4	08-24-93	Fillet	Rainbow trout	<0.4	1,130	0.4	0.210	<1	<0.1	2.9	--	<0.3	13.0
	SJ05FF5	08-24-93	Fillet	Rainbow trout	<0.4	1,160	0.4	0.310	<1	<0.1	2.4	--	<0.3	14.0
	SJ05FF6	08-24-93	Fillet	Rainbow trout	<0.4	1,130	0.4	0.140	<1	0.10	2.8	--	<0.3	13.0
	SJ05FFS	08-24-93	Whole body	Fathead minnow	0.90	1,480	19.0	0.140	<1	0.30	4.7	--	0.92	147
	SJ05FI1	08-24-93	Integrated fish	Brown trout	0.05	815	1.4	0.097	<0.5	0.18	3.2	--	<0.2	73.7
	SJ05FI2	08-24-93	Integrated fish	Rainbow trout	0.02	971	8.3	0.093	<0.5	0.19	3.7	--	<0.2	82.0
	SJ05FI3	08-24-93	Integrated fish	Rainbow trout	0.02	921	6.0	0.089	<0.5	0.10	3.8	--	<0.2	102
	SJ05FI4	08-24-93	Integrated fish	Rainbow trout	0.04	849	10.2	0.126	<0.5	0.28	3.1	--	<0.2	75.2
	SJ05FI5	08-24-93	Integrated fish	Rainbow trout	<0.2	1,030	11.3	0.197	<0.5	0.19	4.9	36.7	<0.2	103.2
	SJ05FI6	08-24-93	Integrated fish	Rainbow trout	<0.2	940	7.0	0.096	<0.5	0.10	5.0	22.8	<0.2	78.0
	SJ05FP1	08-24-93	Part body	Brown trout	0.03	774	1.5	0.091	<1	0.20	3.2	--	<0.3	81.0
	SJ05FP2	08-24-93	Part body	Rainbow trout	0.01	957	8.9	0.086	<1	0.20	3.8	--	<0.3	87.3
	SJ05FP3	08-24-93	Part body	Rainbow trout	<0.01	899	6.5	0.084	<1	0.10	3.8	--	<0.3	111
	SJ05FP4	08-24-93	Part body	Rainbow trout	0.03	827	11.0	0.120	<1	0.30	3.1	--	<0.3	80.0
	SJ05FP5	08-24-93	Part body	Rainbow trout	<0.4	1,020	12.0	0.190	<1	0.20	5.1	39.1	<0.3	109

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Selenium	Strontium	Vanadium	Zinc
5	SJ05FP6	08-24-93	Part body	Rainbow trout	<0.4	922	7.5	0.092	<1	0.10	5.2	24.7	<0.3	83.5
	SJ05IB	08-24-93	Whole body	Dragonfly/damselfly larvae	<0.4	913	66.6	0.100	<1	0.52	1.8	9.0	1.7	70.0
	SJ05INK	08-24-93	Whole body	Waterboatmen	<0.4	1,220	50.1	0.110	<1	0.46	2.1	15.3	1.3	146
	SJ05PA	08-24-93	Whole plant	Algae	7.6	4,550	1,140	<0.02	<1	3.8	1.4	314	6.6	15.0
	SJ05PM1	08-24-93	Part plant	Coontail	3.6	2,620	1,620	0.020	1	4.0	1.3	370	3.8	32.0
	SJ05PM2	08-24-93	Part plant	Cattail	<0.4	2,090	669	<0.02	1	0.48	<0.2	114	<0.3	13.0
	SJ05PM3	08-24-93	Whole plant	Duckweed	7.0	2,990	1,400	0.030	<1	4.5	2.4	195	9.1	28.0
	SR05FFS1	07-19-94	Whole body	Common carp	<3.0	1,600	11.4	0.190	<0.2	<0.6	2.4	182	0.4	199
	SR05FFS2	07-19-94	Whole body	Fathead minnow	0.05	1,310	19.9	0.160	<0.2	<0.04	3.8	96.7	0.3	151
	SR05IB	07-19-94	Whole body	Damselfly larvae	0.70	913	70.5	0.068	0.3	0.70	3.2	22.1	1.6	72.9
	SR05PA	07-19-94	Whole plant	Algae	5.1	2,970	1,300	0.025	0.3	3.7	1.5	389	7.4	22.0
6	SJ03FF1	08-23-93	Fillet	Brown trout	<0.4	1,040	<0.2	0.200	<1	<0.1	2.9	--	<0.3	11.0
	SJ03FF2	08-23-93	Fillet	Rainbow trout	<0.4	1,140	<0.2	0.200	<1	<0.1	2.5	--	<0.3	15.0
	SJ03FF3	08-23-93	Fillet	Rainbow trout	<0.4	1,140	<0.2	0.250	<1	<0.1	2.9	--	<0.3	13.0
	SJ03FFS	08-23-93	Whole body	Brown trout	0.10	1,150	7.0	0.080	<3	<0.6	7.8	37.7	<0.9	120
	SJ03FI1	08-23-93	Integrated fish	Brown trout	0.21	907	3.8	0.129	<0.5	0.18	3.9	--	<0.2	60.0
	SJ03FI2	08-23-93	Integrated fish	Rainbow trout	0.17	839	8.6	0.134	<0.5	0.54	3.5	--	0.5	69.5
	SJ03FI3	08-23-93	Integrated fish	Rainbow trout	0.28	1,030	15.9	0.147	<0.5	0.42	4.6	--	1.0	77.5
	SJ03FP1	08-23-93	Part body	Brown trout	0.21	891	4.2	0.120	<1	0.20	4.0	--	<0.3	66.0
	SJ03FP2	08-23-93	Part body	Rainbow trout	0.17	820	9.1	0.130	<1	0.57	3.6	--	0.5	73.0
	SJ03FP3	08-23-93	Part body	Rainbow trout	0.29	1,020	17.0	0.140	<1	0.45	4.7	--	1.1	82.0
	SJ03IB	08-23-93	Whole body	Midge larvae	11	2,270	188	0.060	<1	5.3	6.9	68.0	14	87.8
	SJ03OV	08-23-93	Whole body	Northern leopard frog	<0.4	1,380	17.0	0.120	<1	0.30	2.9	--	0.8	78.0
	SJ03PA	08-23-93	Whole plant	Algae	20	2,960	1,060	<0.02	<1	7.0	3.2	72.7	21	29.0
	SJ03PM	08-23-93	Part plant	Cattail	0.40	1,540	1,140	<0.02	<1	0.20	<0.2	74.3	<0.3	17.0
	SR03FF01	07-19-94	Fillet	Rainbow trout	<0.04	1,230	0.5	0.300	<0.2	<0.04	2.4	1.3	<0.2	16.0
	SR03FFS1	07-19-94	Whole body	Fathead minnow	0.17	1,100	18.9	0.230	<0.2	0.18	3.4	75.7	0.7	122
	SR03FFS2	07-19-94	Whole body	Western mosquitofish	<0.04	1,320	77.4	0.420	<0.2	<0.04	2.4	76.4	<0.2	120
	SR03FI01	07-19-94	Integrated fish	Rainbow trout	0.10	1,040	9.7	0.224	<0.1	0.43	3.4	29.4	0.4	95.9

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Selenium	Strontium	Vanadium	Zinc
6	SR03FP01	07-19-94	Part body	Rainbow trout	0.10	1,030	10.2	0.220	<0.2	0.45	3.5	30.9	0.4	100
	SR03IB1	07-19-94	Whole body	Mayfly larvae	1.8	1,650	167	0.028	0.4	2.3	4.2	14.4	4.2	81.1
	SR03IB2	07-19-94	Whole body	Snail	0.50	796	1,020	0.064	0.3	1.4	0.54	399	0.99	14.0
	SR03PA	07-19-94	Whole plant	Algae	2.9	2,190	130	0.026	0.4	4.5	1.3	63.0	15	20.0
10	SJ06FF1	08-24-93	Fillet	Rainbow trout	<0.4	1,060	0.3	0.250	<1	0.10	2.3	--	<0.3	11.0
	SJ06FF2	08-24-93	Fillet	Rainbow trout	<0.4	1,190	0.4	0.160	<1	0.50	2.5	--	<0.3	13.0
	SJ06FF3	08-24-93	Fillet	Rainbow trout	<0.4	1,210	0.5	0.160	<1	<0.1	3.8	--	<0.3	16.0
	SJ06FF4	08-24-93	Fillet	Brown trout	<0.4	1,210	0.5	0.130	<1	<0.1	3.2	--	<0.3	13.0
	SJ06FF5	08-24-93	Fillet	Brown trout	<0.4	1,340	0.4	0.140	<1	<0.1	3.4	--	<0.3	16.0
	SJ06FFS	08-24-93	Whole body	Rainbow/brown trout	1.0	1,160	10.0	0.110	<1	0.35	8.7	--	0.3	119
	SJ06FI1	08-24-93	Integrated fish	Rainbow trout	<0.2	900	8.3	0.146	<0.5	0.19	3.4	--	<0.2	77.4
	SJ06FI2	08-24-93	Integrated fish	Rainbow trout	<0.2	841	4.3	0.098	<0.5	0.23	3.7	--	<0.2	89.5
	SJ06FI3	08-24-93	Integrated fish	Rainbow trout	0.47	1,050	7.5	0.091	<0.5	0.19	7.3	--	<0.2	91.0
	SJ06FI4	08-24-93	Integrated fish	Brown trout	0.04	885	6.3	0.084	<0.5	0.38	5.0	--	<0.2	73.4
	SJ06FI5	08-24-93	Integrated fish	Brown trout	0.47	1,070	7.6	0.076	<0.5	0.34	5.6	--	<0.2	106
	SJ06FP1	08-24-93	Part body	Rainbow trout	<0.4	891	8.7	0.140	<1	0.20	3.5	23.6	<0.3	81.0
	SJ06FP2	08-24-93	Part body	Rainbow trout	<0.4	809	4.7	0.092	<1	0.20	3.8	15.9	<0.3	96.6
	SJ06FP3	08-24-93	Part body	Rainbow trout	0.50	1,030	8.3	0.084	<1	0.20	7.7	--	<0.3	99.1
	SJ06FP4	08-24-93	Part body	Brown trout	0.02	855	6.8	0.080	<1	0.41	5.2	--	<0.3	79.0
	SJ06FP5	08-24-93	Part body	Brown trout	0.50	1,040	8.4	0.069	<1	0.37	5.9	--	<0.3	116
	SJ06IB	08-24-93	Whole body	Midge larvae	11	2,470	214	0.100	<1	6.5	10	67.7	17	84.1
	SJ06PA	08-24-93	Whole plant	Algae	35	4,880	710	0.030	<1	9.9	1.7	124	41	28.0
	SR06FF01	07-18-94	Fillet	Rainbow trout	<0.04	1,160	0.7	0.330	<0.2	<0.04	2.9	0.9	<0.2	16.0
	SR06FF02	07-18-94	Fillet	Brown trout	<0.04	889	0.3	0.250	0.3	<0.04	2.3	0.4	<0.2	9.1
	SR06FF03	07-18-94	Fillet	Brown trout	<0.04	1,300	0.6	0.200	0.3	<0.04	2.9	0.7	<0.2	22.0
	SR06FF04	07-18-94	Fillet	Rainbow trout	<0.04	1,370	0.7	0.120	0.3	<0.04	1.7	1.1	<0.2	21.0
	SR06FI01	07-18-94	Integrated fish	Rainbow trout	<0.02	890	13.4	0.247	<0.1	0.08	3.7	20.8	0.3	84.7
	SR06FI02	07-18-94	Integrated fish	Brown trout	<0.02	820	4.3	0.214	0.1	0.02	3.5	20.6	0.1	72.8
	SR06FI03	07-18-94	Integrated fish	Brown trout	<0.02	1,030	11.0	0.164	0.1	0.06	4.5	29.0	0.3	84.7
	SR06FI04	07-18-94	Integrated fish	Rainbow trout	<0.02	1,110	7.9	0.088	0.1	0.09	3.1	25.6	0.3	94.1

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Selenium	Strontium	Vanadium	Zinc
10	SR06FP01	07-18-94	Part body	Rainbow trout	<0.04	866	14.5	0.240	<0.2	0.09	3.8	22.5	0.3	90.7
	SR06FP02	07-18-94	Part body	Brown trout	<0.04	812	4.7	0.210	<0.2	<0.04	3.6	22.8	<0.2	79.8
	SR06FP03	07-18-94	Part body	Brown trout	<0.04	1,000	12.2	0.160	<0.2	0.06	4.7	32.2	0.3	91.7
	SR06FP04	07-18-94	Part body	Rainbow trout	<0.04	1,080	8.9	0.084	<0.2	0.10	3.3	28.9	0.3	104
	SR06IB	07-18-94	Whole body	Mayfly larvae	2.0	1,650	272	0.034	0.3	2.9	4.7	15.9	6.2	74.0
	SR06PA	07-18-94	Whole plant	Algae	3.9	2,570	202	0.024	0.5	4.9	0.94	80.0	20	22.0
11	SJ07FF1	08-24-93	Fillet	Brown trout	<0.4	1,040	0.6	0.340	<1	<0.1	4.2	--	<0.3	9.6
	SJ07FF2	08-24-93	Fillet	Rainbow trout	<0.4	1,120	0.4	0.180	<1	<0.1	3.0	--	<0.3	13.0
	SJ07FF3	08-24-93	Fillet	Rainbow trout	<0.4	1,020	0.5	0.320	<1	<0.1	3.9	--	<0.3	11.0
	SJ07FF4	08-24-93	Fillet	Rainbow trout	<0.4	1,290	0.4	0.160	<1	0.10	3.9	--	<0.3	19.0
	SJ07FF5	08-24-93	Fillet	Brown trout	<0.4	1,310	0.4	0.160	<1	<0.1	3.9	--	<0.3	14.0
	SJ07FFS1	08-24-93	Whole body	Fathead/mosquitofish	1.4	1,490	49.2	0.270	<1	0.33	3.3	--	1.0	130
	SJ07FFS2	08-24-93	Whole body	Brown trout	0.70	1,110	21.1	0.097	<1	0.20	9.6	--	<0.3	131
	SJ07FI1	08-24-93	Integrated fish	Brown trout	<0.2	924	4.3	0.203	<0.5	0.05	5.3	--	<0.2	61.3
	SJ07FI2	08-24-93	Integrated fish	Rainbow trout	<0.2	830	9.2	0.106	<0.5	0.28	4.7	--	<0.2	79.6
	SJ07FI3	08-24-93	Integrated fish	Rainbow trout	<0.2	804	5.5	0.180	<0.5	0.10	5.4	--	<0.2	86.6
	SJ07FI4	08-24-93	Integrated fish	Rainbow trout	0.15	941	8.4	0.093	<0.5	0.37	7.2	--	0.5	82.5
	SJ07FI5	08-24-93	Integrated fish	Brown trout	0.03	911	4.9	0.110	<0.5	0.20	5.4	--	<0.2	99.2
	SJ07FP1	08-24-93	Part body	Brown trout	<0.4	913	4.6	0.190	<1	<0.1	5.4	35.4	<0.3	66.0
	SJ07FP2	08-24-93	Part body	Rainbow trout	<0.4	805	9.9	0.100	<1	0.30	4.8	24.7	<0.3	85.3
	SJ07FP3	08-24-93	Part body	Rainbow trout	<0.4	788	5.9	0.170	<1	0.10	5.5	18.4	<0.3	92.1
	SJ07FP4	08-24-93	Part body	Rainbow trout	0.15	939	8.4	0.093	<1	0.37	7.2	--	0.5	82.8
	SJ07FP5	08-24-93	Part body	Brown trout	0.03	909	4.9	0.110	<1	0.20	5.4	--	<0.3	99.7
	SJ07IB	08-24-93	Whole body	Segmented worm	13	2,170	220	0.110	<1	6.8	10	54.7	14	88.4
	SJ07PA	08-24-93	Whole plant	Algae	22	3,330	687	0.030	<1	7.9	2.7	117	26	25.0
	SJ07PM	08-24-93	Part plant	Cattail	11	3,010	407	<0.02	<1	3.9	0.40	110	12	20.0
	SR07FF01	07-18-94	Fillet	Brown trout	<0.04	1,190	0.4	0.300	0.2	<0.04	3.8	0.2	<0.2	11.0
	SR07FF02	07-18-94	Fillet	Rainbow trout	<0.04	1,180	0.6	0.370	0.3	<0.04	3.4	0.7	<0.2	15.0
	SR07FF03	07-18-94	Fillet	Brown trout	<0.04	1,290	0.6	0.280	0.4	<0.04	4.2	0.6	<0.2	18.0
	SR07FF04	07-18-94	Fillet	Rainbow trout	<0.04	1,380	0.9	0.150	<0.2	<0.04	2.1	1.5	<0.2	22.0

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Selenium	Strontium	Vanadium	Zinc
11	SR07FI01	07-18-94	Integrated fish	Brown trout	<0.02	863	4.4	0.254	0.1	0.02	3.4	17.4	0.2	72.8
	SR07FI02	07-18-94	Integrated fish	Rainbow trout	0.09	988	22.0	0.234	0.1	0.15	3.9	28.2	0.6	83.6
	SR07FI03	07-18-94	Integrated fish	Brown trout	0.04	1,030	10.6	0.216	0.1	0.07	5.1	24.3	0.3	78.9
	SR07FI04	07-18-94	Integrated fish	Rainbow trout	<0.02	1,190	7.6	0.102	<0.1	0.07	2.5	33.5	0.2	95.5
	SR07FP01	07-18-94	Part body	Brown trout	<0.04	833	4.8	0.250	<0.2	<0.04	3.4	19.0	0.2	78.5
	SR07FP02	07-18-94	Part body	Rainbow trout	0.10	968	24.2	0.220	<0.2	0.16	4.0	31.0	0.6	90.6
	SR07FP03	07-18-94	Part body	Brown trout	0.04	1,010	11.6	0.210	<0.2	0.07	5.2	26.6	0.3	84.8
	SR07FP04	07-18-94	Part body	Rainbow trout	<0.04	1,160	8.8	0.093	<0.2	0.08	2.6	39.4	0.2	109
	SR07IB	07-18-94	Whole body	Mayfly larvae	2.0	1,730	277	0.033	0.4	2.6	0.40	17.5	5.1	84.1
	SR07PA	07-18-94	Whole plant	Algae	4.9	2,150	190	0.023	<0.3	5.9	0.76	49.4	20	24.0
12	SJ10FFS1	08-19-93	Whole body	Plains killifish	<0.4	1,410	144	<0.02	<1	0.30	0.70	--	<0.3	108
	SJ10FFS2	08-19-93	Whole body	Western mosquitofish	<0.4	1,350	113	<0.02	<1	0.20	0.60	--	<0.3	90.8
	SJ10IB1	08-19-93	Whole body	Dragonfly/damselfly larvae	<0.4	1,320	223	<0.02	<1	0.90	0.60	44.7	0.8	75.0
	SJ10IB2	08-19-93	Whole body	Snail	1.4	1,090	--	<0.02	<1	1.5	0.50	--	<0.3	27.0
	SJ10INK	08-19-93	Whole body	Waterboatmen	<0.4	--	--	0.100	--	0.36	1.0	--	--	--
	SJ10PM1	08-19-93	Whole plant	Unknown	1.0	5,100	2550	<0.02	<1	0.82	<0.2	2,090	<0.3	7.5
	SJ10PM2	08-19-93	Part plant	Cattail	<0.4	1,000	1650	<0.02	<1	0.46	<0.2	132	<0.3	18.0
	SR10FFS	07-20-94	Whole body	Plains killifish	<3.0	1,420	60.5	0.017	<0.2	<0.6	0.30	124	<0.2	92.0
	SR10IB1	07-20-94	Whole body	Dragonfly/damselfly larvae	<0.4	1,260	335	0.015	0.7	0.58	0.50	90.1	1.0	74.6
	SR10IB2	07-20-94	Whole body	Snail	2.2	1,800	1,870	0.021	0.6	1.5	0.33	936	0.8	22.0
	SR10PM	07-20-94	Part plant	Cattail	0.82	2,350	1,180	0.025	0.9	1.8	<0.2	180	2.6	16.0
22	SJ11FFS1	08-19-93	Whole body	Western mosquitofish	<0.4	1,400	15.0	0.060	<1	0.20	8.1	232	0.3	127
	SJ11IB1	08-19-93	Whole body	Snail	1.0	678	171	0.008	<1	1.9	1.4	1,780	1.2	18.0
	SJ11IB2	08-19-93	Whole body	Dragonfly/damselfly larvae	1.2	918	21.9	0.033	<1	0.34	5.6	65.7	1.0	71.4
	SJ11INK	08-19-93	Whole body	Waterboatmen	1.0	1,040	37.8	0.150	<1	0.28	5.4	44.8	0.6	94.1
	SJ11PA	08-19-93	Whole plant	Algae	7.7	2,760	457	0.020	<1	3.0	1.4	1,030	10	23.6
	SJ11PM1	08-19-93	Part plant	Cattail	0.60	1,820	367	<0.007	<1	0.30	0.20	416	<0.3	9.7
	SJ11PM2	08-19-93	Part plant	Bullrush	0.50	1,000	424	<0.007	<1	0.64	0.66	142	0.3	8.7
	SJ11PM3	08-19-93	Part plant	Unknown	--	2,180	131	<0.007	<1	--	1.8	2,060	4.1	33.0

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Selenium	Strontium	Vanadium	Zinc
22	SR11FFS	07-26-94	Whole body	Western mosquitofish	<0.04	1,380	15.0	0.074	<0.2	0.05	5.2	237	<0.2	120
	SR11IB1	07-26-94	Whole body	Dragonfly/damselfly larvae	<0.2	911	19.9	0.049	<0.2	0.40	6.2	49.1	0.4	74.4
	SR11IB2	07-26-94	Whole body	Snail	<0.2	618	144	0.013	0.3	<0.3	0.71	1,920	0.3	11.0
	SR11PA	07-26-94	Whole plant	Algae	0.87	2,540	298	0.014	<0.2	1.3	1.1	1,630	3.0	7.1
	SR11PM	07-26-94	Part plant	Coontail	0.20	3,070	370	0.017	0.3	1.2	0.91	1,050	1.8	10.0
29	SRMGIB	07-27-94	Whole body	Dragonfly larvae	0.15	1,000	23.0	0.028	<0.3	<0.2	24	95.1	<0.3	78.2
	SRMGPA	07-27-94	Whole plant	Algae	2.25	1,990	166	0.013	<0.3	2.0	2.2	692	1.7	4.2
	SRMGPM	07-27-94	Part plant	Cattail	0.27	1,870	149	0.009	0.5	<0.2	1.7	230	<0.3	20.4
30	SJ22OV	08-17-93	Whole body	Western spadefoot	3.0	1,180	150	0.040	2	<0.4	3.6	243	1.0	93.0
	SJ22PA	08-17-93	Whole plant	Algae	12	2,050	258	0.020	<1	4.7	0.87	197	14	14.0
	SJ22PM	08-17-93	Part plant	Bullrush	<0.4	686	16.0	<0.007	<5	0.85	0.40	14.1	<2	8.7
	SR22PA	07-20-94	Whole plant	Algae	7.6	2,260	376	0.031	<0.3	4.6	0.60	128	24	26.0
	SR22PM	07-20-94	Part plant	Bullrush	0.30	1,020	166	0.014	0.6	0.80	1.0	49.7	0.6	12.0
34	SROAIB	07-21-94	Whole body	Dragonfly/damselfly larvae	0.70	1,590	259	0.054	<0.3	0.77	6.8	103	1.9	67.5
	SROAINK	07-21-94	Whole body	Backswimmers	0.26	1,250	46.5	0.071	<0.3	0.30	4.1	70.2	0.8	79.4
	SROAOV	07-21-94	Whole body	Tiger salamander	0.10	1,200	11.0	<0.04	<0.4	<0.1	8.2	80.1	<0.3	51.0
	SROAPA	07-21-94	Whole plant	Algae	1.52	13,400	5,750	0.025	<0.3	3.2	2.2	323	2.4	15.7
35	SJ23IB	08-10-93	Whole body	Dragonfly larvae	7.1	1,570	362	0.025	<1	2.3	7.0	110	9.6	79.8
	SJ23INK	08-10-93	Whole body	Backswimmers	1.0	959	28.2	0.058	<1	0.30	9.4	36.5	1.1	196
	SJ23OV	08-10-93	Whole body	Western spadefoot	2.0	1,420	31.0	0.035	<2	0.40	3.5	150	1.7	73.0
	SJ23PA	08-10-93	Whole plant	Algae	21	5,010	433	<0.007	<1	9.1	2.5	561	24	59.6
	SR23IB	07-21-94	Whole body	Dragonfly/damselfly larvae	0.60	1,310	91.6	0.023	0.2	1.2	12	72.3	3.2	84.2
	SR23OV1	07-21-94	Whole body	Western spadefoot	6.8	4,260	316	--	<0.3	4.8	18	374	21	50.6
	SR23OV2	07-21-94	Whole body	Western spadefoot	<3	1,390	17.5	--	0.5	<0.6	16	133	0.5	75.7
	SR23PA	07-21-94	Whole plant	Algae	5.0	4,410	349	0.013	<0.3	5.6	4.0	741	13	65.3
	SR23PM	07-21-94	Part plant	Coontail	1.1	3,640	123	0.006	<0.2	1.8	3.5	1,490	4.2	10.0
37	SJ24FFS1	08-18-93	Whole body	Western mosquitofish	0.40	1,360	79.7	0.062	<1	0.10	1.4	136	0.5	142
	SJ24FFS2	08-18-93	Whole body	Common carp	0.40	1,110	20.0	0.076	<5	0.51	1.5	177	<1	169

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Selenium	Strontium	Vanadium	Zinc
37	SJ24FFS3	08-18-93	Whole body	Fathead minnow	3.6	2,020	126	0.110	<1	0.94	3.5	153	4.6	153
	SJ24FFS4	08-18-93	Whole body	Plains killifish	3.2	1,890	129	0.058	<1	0.73	2.3	117	3.5	151
	SJ24IB	08-18-93	Whole body	Dragonfly larvae	4.0	1,430	728	0.100	<2	<0.3	2.8	31.4	3.0	106
	SJ24INK	08-18-93	Whole body	Backswimmers	3.0	1,330	262	0.078	<4	<0.3	2.0	26.0	2.0	160
	SJ24PA	08-18-93	Whole plant	Algae	35	7,520	4,720	0.010	<1	7.3	0.70	795	30	62.8
	SJ24PM1	08-18-93	Part plant	Cattail	1.8	1,370	1,570	<0.007	<1	0.71	0.30	127	1.5	14.0
	SJ24PM2	08-18-93	Part plant	Coontail	2.7	2,910	840	<0.007	<1	1.2	0.20	1,290	1.6	7.9
	SR24FBF	07-21-94	Whole body	Common carp	0.06	890	5.6	0.100	<0.2	<0.04	1.9	52.2	<0.2	244
	SR24FFS1	07-21-94	Whole body	Plains killifish	0.05	1,510	41.4	0.089	0.2	0.08	1.6	111	<0.2	151
	SR24FFS2	07-21-94	Whole body	Fathead minnow	0.68	1,510	132	0.100	<0.2	0.55	3.2	115	2.5	127
	SR24IB1	07-21-94	Whole body	Dragonfly/damselfly larvae	0.90	1,370	1,280	0.086	0.4	0.85	1.8	32.1	2.8	101
	SR24IB2	07-21-94	Whole body	Crayfish	5.6	1,680	511	0.029	0.4	1.1	1.6	728	1.5	61.4
	SR24OV	07-21-94	Whole body	Bullfrog tadpole	7.2	3,490	1,010	0.024	<0.3	4.8	2.2	167	19	85.1
	SR24PA	07-21-94	Whole plant	Algae	11	5,080	7,550	0.030	0.4	6.3	1.0	271	25	68.8
	SR24PM1	07-21-94	Part plant	Coontail	4.4	3,190	3,350	0.051	2.4	3.5	0.98	177	11	158
	SR24PM2	07-21-94	Part plant	Cattail	<0.2	1,400	1,180	0.014	<0.2	0.40	<0.2	112	<0.2	8.1
38	SJ32FFS1	08-12-93	Whole body	Unknown	3.8	1,910	35.7	0.086	<2	1.0	2.5	122	3.7	145
	SJ32FFS2	08-12-93	Whole body	Fathead minnow	7.2	1,850	237	0.069	<1	1.2	3.8	103	4.2	125
	SJ32FFS3	08-12-93	Whole body	Fathead minnow	6.0	1,690	202	0.068	<1	0.81	3.3	89.9	3.3	112
	SJ32IB	08-12-93	Whole body	Dragonfly larvae	15	1,390	1,310	0.039	<1	3.6	3.9	32.0	8.5	169
	SJ32PA2	08-12-93	Whole plant	Algae	15	2,760	806	0.009	<1	4.3	0.50	183	10	255
	SR32FBF	07-27-94	Whole body	Flannelmouth sucker	0.48	1,190	42.9	0.089	<0.3	0.30	1.8	75.0	1.4	63.7
	SR32FFS	07-27-94	Whole body	Longnose dace	0.18	1,040	19.3	0.100	<0.3	<0.2	5.5	74.1	0.7	114
	SR32IB	07-27-94	Whole body	Dragonfly larvae	3.1	1,210	211	0.069	<0.3	1.2	4.7	19.8	5.3	132
	SR32PA	07-27-94	Whole plant	Algae	16.8	5,070	579	0.038	<0.3	8.3	0.50	123	37	66.7
39	SJ18INK	08-17-93	Whole body	Waterboatmen	1.0	1,450	25.4	0.064	<1.0	0.32	3.8	68.2	0.6	210
	SJ18PA	08-17-93	Whole plant	Algae	10.0	2,510	92.5	0.063	<1	8.0	4.3	194	7.1	21.6
	SR18PA	07-21-94	Whole plant	Algae	9.8	5,740	157	0.016	<0.3	3.2	6.6	1,100	11	82.9
	SR18PM	07-21-94	Part plant	Coontail	1.4	6,500	31.8	0.013	<0.2	2.7	20	2,440	0.5	50.2

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Selenium	Strontium	Vanadium	Zinc
39	SR19INK	07-21-94	Whole body	Backswimmers	0.30	1,380	18.5	0.042	0.2	0.50	4.7	37.0	0.7	136
	SR19OV	07-21-94	Whole body	Tiger salamander	0.70	1,290	21.5	0.076	<0.2	0.60	5.7	128	2.1	60.0
42	SJ33FFS1	08-12-93	Whole body	Western mosquitofish	0.80	1,190	112	0.054	<2	0.20	7.9	82.5	<0.5	160
	SJ33FFS2	08-12-93	Whole body	Fatheads/suckers	5.7	1,380	584	0.038	<1	1.1	3.1	91.1	2.2	113
	SJ33FFS3	08-12-93	Whole body	Red shiner	1.9	1,290	152	0.059	<1	0.28	6.0	103	0.7	147
	SR33FFS	07-26-94	Whole body	Western mosquitofish	0.73	1,530	121	0.140	<0.3	0.30	3.3	92.5	1.9	141
	SR33IB	07-26-94	Whole body	Dragonfly/damselfly larvae	5.0	1,580	312	0.076	<0.3	1.9	5.7	31.1	6.3	199
	SR33OV	07-26-94	Whole body	Western spadefoot	1.9	1,580	78.9	<0.07	<0.6	0.50	3.6	94.8	1.9	105
	SR33PA	07-26-94	Whole plant	Algae	12.3	3,020	16,100	0.030	<2	4.8	1.2	202	13	272
43	SJ34FFS1	08-12-93	Whole body	Black bullhead	2.0	1,620	32.0	<0.02	<5	0.90	5.5	123	2.0	131
	SJ34FFS2	08-12-93	Whole body	Western mosquitofish	1.0	1,550	50.5	0.034	<1	0.39	4.3	109	0.7	156
	SJ34IB1	08-12-93	Whole body	Dragonfly larvae	4.5	1,520	253	0.020	<2	0.84	3.8	30.2	3.7	91.0
	SJ34IB2	08-12-93	Whole body	Crayfish	1.0	1,650	120	<0.006	<1	0.54	2.9	389	1.6	65.5
	SJ34PM1	08-12-93	Part plant	Cattail	0.70	1,240	253	<0.007	<1	0.41	<0.2	76.1	<0.3	8.5
	SJ34PM2	08-12-93	Part plant	Cattail	1.6	3,170	423	<0.007	<1	0.55	<0.2	148	1.3	14.0
	SR34FFS1	07-26-94	Whole body	Western mosquitofish	0.12	1,440	42.5	0.087	<0.3	<0.2	3.4	83.8	<0.3	158
	SR34FFS2	07-26-94	Whole body	Green sunfish	0.07	1,520	31.8	0.056	<0.3	<0.2	3.8	106	<0.3	84.2
	SR34IB1	07-26-94	Whole body	Dragonfly/damselfly larvae	0.94	1,310	140	0.043	<0.3	0.71	2.7	22.3	3.5	84.2
	SR34IB2	07-26-94	Whole body	Snail	1.6	733	244	<0.04	<0.4	1.4	0.85	600	4.1	23.5
	SR34OV1	07-26-94	Whole body	Western spadefoot	1.2	1,430	53.0	<0.04	<0.4	0.56	2.0	122	1.3	105
	SR34OV2	07-26-94	Whole body	Bullfrog tadpole	1.16	4,050	1,040	0.015	<0.3	1.4	0.61	289	6.0	41.0
	SR34PM1	07-26-94	Part plant	Widgeongrass	0.18	2,600	121	0.013	0.7	0.30	<0.1	105	0.5	17.5
	SR34PM2	07-26-94	Part plant	Cattail	17.3	3,300	302	<0.1	<0.8	6.9	2.6	105	31	137
49	SJ27FFS1	08-13-93	Whole body	Unknown	0.50	1,580	16.0	0.023	<1	0.35	20	159	0.8	206
	SJ27FFS2	08-13-93	Whole body	Fathead minnow	2.3	1,620	38.7	0.042	<1	0.62	19	108	2.8	139
	SJ27FFS3	08-13-93	Whole body	Western mosquitofish	0.60	1,630	41.7	0.038	<1	0.20	23	135	0.9	174
	SJ27IB1	08-13-93	Whole body	Crayfish	2.1	2,380	134	0.007	<1	2.0	11	586	3.2	73.1
	SJ27IB2	08-13-93	Whole body	Dragonfly larvae	2.8	1,720	103	0.010	<1	0.96	16	28.0	3.9	86.3

Table 9.--Moisture content of and trace-element concentrations in biological samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Concluded

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Selenium	Strontium	Vanadium	Zinc
49	SJ27INK	08-13-93	Whole body	Whirly gig	2.7	1,200	96.6	0.034	1.0	0.70	16	16.8	2.4	95.5
	SJ27OV1	08-13-93	Whole body	Western spadefoot	3.5	1,160	47.1	0.050	3.0	53.2	6.6	110	2.2	135
	SJ27PA	08-13-93	Whole plant	Algae	40	5,970	6,230	0.020	<1	11.0	9.6	263	35.2	120
	SJ27PM	08-13-93	Part plant	Cattail	1.6	3,210	338	<0.007	<1	0.90	1.9	101	1.5	22.0
	SR27FBF	07-27-94	Whole body	Flannelmouth sucker	<3.0	1,860	64.7	0.056	<0.2	<0.6	16	127	2.5	86.7
	SR27FFS1	07-27-94	Whole body	Western mosquitofish	0.24	1,470	48.2	0.041	<0.2	0.23	23	112	0.6	135
	SR27FFS2	07-27-94	Whole body	Fathead minnow	0.26	1,280	22.2	0.036	<0.2	0.19	24	87.0	0.6	117
	SR27IB1	07-27-94	Whole body	Dragonfly/damselfly larvae	3.0	2,270	807	0.025	0.5	3.7	16	51.6	8.4	99.5
	SR27OV	07-27-94	Whole body	Northern leopard frog	<0.2	1,330	60.3	0.041	<0.2	<0.3	20	61.5	0.4	92.4
	SR27PA	07-27-94	Whole plant	Algae	7.0	4,460	1,470	0.008	0.6	7.6	12	150	23	45.8
	SR27PM	07-27-94	Part plant	Cattail	<0.2	3,630	550	0.009	<0.2	<0.3	0.89	139	<0.2	10.0
51	SJ30FBF	08-11-93	Whole body	Flannelmouth sucker	2.0	1,330	52.9	0.060	<2	0.80	2.3	110	1.0	93.9
	SJ30FFS	08-11-93	Whole body	Red shiner	3.7	1,670	103	0.050	<1	0.79	6.0	101	2.8	136
	SJ30IB	08-11-93	Whole body	Mayfly larvae	13	1,720	578	0.034	<1	14.2	3.4	87.7	9.7	309
	SJ30INK	08-11-93	Whole body	Whirly gig	0.70	928	68.4	0.120	<2	<0.2	5.3	13.0	<0.5	192
	SJ30OV	08-11-93	Whole body	Western spadefoot	7.2	1,470	36.0	0.073	<3	0.70	4.2	130	2.9	120
	SJ30PA	08-11-93	Whole plant	Algae	14	1,510	5,680	0.020	<1	3.2	0.60	117	6.7	97.7
	SJ30PM	08-11-93	Whole plant	Unknown	9.7	2,240	970	0.020	<1	2.1	0.69	98.1	4.1	74.9
	SR30FFS1	07-26-94	Whole body	Red shiner	0.15	1,370	13.1	0.140	<0.2	0.06	5.2	108	0.2	152
	SR30FFS2	07-26-94	Whole body	Unknown	<3.0	2,150	196	0.098	<0.3	1.0	3.4	93.2	7.1	125
	SR30FFS3	07-26-94	Whole body	Flannelmouth sucker	0.30	1,200	18.1	0.130	<0.2	0.22	5.6	89.7	0.8	120
	SR30IB	07-26-94	Whole body	Dragonfly/damselfly larvae	1.6	1,320	225	0.064	0.3	1.6	3.4	20.8	4.9	121
	SR30OV	07-26-94	Whole body	Western spadefoot	<0.5	1,340	28.5	--	0.8	0.40	4.0	122	0.9	84.5
	SR30PA	07-26-94	Whole plant	Algae	3.2	2,840	180	0.030	<0.3	2.9	0.64	127	13	26.0
52	SJ31FFS	08-11-93	Whole body	Red shiner	3.0	1,380	59.7	0.058	<2	0.80	2.3	96.6	1.0	209
	SJ31PA	08-11-93	Whole plant	Algae	1.8	4,930	258	<0.007	<1	1.4	0.30	873	2.4	172
	SR31FFS	07-26-94	Whole body	Flannelmouth sucker	0.47	1,390	31.8	0.230	<0.3	0.40	4.2	79.5	1.6	123
	SR31IB	07-26-94	Whole body	Dragonfly larvae	1.89	1,640	272	0.110	<0.3	1.6	3.2	22.8	4.5	124
	SR31PA	07-26-94	Whole plant	Algae	6.24	3,500	6,670	0.025	<2	4.6	1.0	501	16	140
	SR31PM	07-26-94	Part plant	Cattail	0.28	2,220	610	0.009	0.7	0.40	<0.1	132	0.6	13.1

Table 10.--Concentrations of selected organochlorine compounds in fish samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94

[Concentrations are in micrograms per gram wet weight. DDT, dichloro diphenyl trichloroethane; DDD, dichloro diphenyl dichloroethane; DDE, dichloro diphenyl dichloroethylene; o, ortho; p, para; <, less than]

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lipid content (percent)	Moisture content (percent)	Trans nonachlor	Alpha benzene hexachloride	Gamma benzene hexachloride	p,p'-DDT	p,p'-DDD	o,p'-DDE	p,p'-DDE
2	SJ04FBF1	08-23-93	Whole body	Common carp	7.51	72.00	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.008
	SJ04FBF2	08-23-93	Whole body	Common carp	8.09	72.73	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.013
	SJ04FBF3	08-23-93	Whole body	Common carp	7.31	69.62	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.014
	SJ04FPS1	08-23-93	Whole body	Common carp	12.71	66.76	0.002	<0.002	<0.002	<0.002	0.002	<0.002	0.014
	SJ04FPS2	08-23-93	Whole body	Fathead minnow	3.50	63.69	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.007
	SJ04FPS3	08-23-93	Whole body	Western mosquitofish	4.89	72.84	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008	<0.008
	SR04FBF	07-19-94	Whole body	Common carp	15.70	63.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.010
4	SJ02FF1	08-23-93	Fillet	Brown trout	3.01	69.57	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
	SJ02FF2	08-23-93	Fillet	Rainbow trout	4.19	71.64	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002
	SJ02FF3	08-23-93	Fillet	Rainbow trout	2.50	73.50	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ02FF4	08-23-93	Fillet	Rainbow trout	1.49	73.49	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ02FF5	08-23-93	Fillet	Rainbow trout	3.56	72.48	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ02FFS2	08-23-93	Whole body	Rainbow trout	2.37	76.21	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ02FI1	08-23-93	Integrated fish	Brown trout	5.20	61.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SJ02FI2	08-23-93	Integrated fish	Rainbow trout	7.38	69.68	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002
	SJ02FI3	08-23-93	Integrated fish	Rainbow trout	11.52	69.46	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.004
	SJ02FI4	08-23-93	Integrated fish	Rainbow trout	7.32	73.28	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	0.003
	SJ02FI5	08-23-93	Integrated fish	Rainbow trout	8.96	68.58	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002
	SJ02FP1	08-23-93	Part body	Brown trout	5.42	60.21	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SJ02FP2	08-23-93	Part body	Rainbow trout	7.51	69.60	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002
	SJ02FP3	08-23-93	Part body	Rainbow trout	12.19	69.16	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.004
	SJ02FP4	08-23-93	Part body	Rainbow trout	7.62	73.27	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	0.003
	SJ02FP5	08-23-93	Part body	Rainbow trout	9.34	68.30	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002
	SR02FF01	07-18-94	Fillet	Brown trout	5.64	72.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR02FF03	07-18-94	Fillet	Rainbow trout	4.24	76.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR02FF04	07-18-94	Fillet	Rainbow trout	2.11	77.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR02FF05	07-18-94	Fillet	Rainbow trout	3.37	73.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR02FFS	07-18-94	Whole body	Rainbow trout	5.95	77.00	<0.01	<0.01	<0.01	0.010	0.010	<0.01	0.020
	SR02FI01	07-18-94	Integrated fish	Brown trout	10.82	67.43	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR02FI03	07-18-94	Integrated fish	Rainbow trout	6.35	73.24	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
	SR02FI04	07-18-94	Integrated fish	Rainbow trout	7.66	72.41	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
	SR02FI05	07-18-94	Integrated fish	Rainbow trout	8.28	70.13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.005
	SR02FP01	07-18-94	Part body	Brown trout	11.30	67.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR02FP03	07-18-94	Part body	Rainbow trout	6.53	73.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.010
	SR02FP04	07-18-94	Part body	Rainbow trout	8.15	72.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.020
	SR02FP05	07-18-94	Part body	Rainbow trout	8.51	70.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.010

Table 10.--Concentrations of selected organochlorine compounds in fish samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lipid content (percent)	Moisture content (percent)	Trans nonachlor	Alpha benzene hexachloride	Gamma benzene hexachloride	p,p'-DDT	p,p'-DDD	o,p'-DDE	p,p'-DDE
5	SJ05FF1	08-24-93	Fillet	Brown trout	2.89	58.73	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
	SJ05FF2	08-24-93	Fillet	Rainbow trout	1.61	75.14	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FF3	08-24-93	Fillet	Rainbow trout	1.16	76.36	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FF4	08-24-93	Fillet	Rainbow trout	1.11	77.71	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FF5	08-24-93	Fillet	Rainbow trout	0.35	78.87	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FF6	08-24-93	Whole body	Fathead minnow	0.40	76.76	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FFS	08-24-93	Integrated fish	Brown trout	1.60	76.92	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FI1	08-24-93	Integrated fish	Rainbow trout	1.97	75.57	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FI2	08-24-93	Integrated fish	Rainbow trout	7.94	68.64	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FI3	08-24-93	Integrated fish	Rainbow trout	4.92	73.37	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FI4	08-24-93	Integrated fish	Rainbow trout	5.19	73.62	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FI5	08-24-93	Integrated fish	Rainbow trout	3.56	76.35	<0.002	0.003	<0.002	<0.002	0.003	<0.002	0.007
	SJ05FI6	08-24-93	Whole body	Brown trout	3.38	73.99	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FP1	08-24-93	Whole body	Rainbow trout	1.87	77.34	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FP2	08-24-93	Whole body	Rainbow trout	8.39	68.17	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FP3	08-24-93	Whole body	Rainbow trout	5.26	73.10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FP4	08-24-93	Whole body	Rainbow trout	5.61	73.19	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FP5	08-24-93	Whole body	Rainbow trout	3.76	76.20	<0.002	0.003	<0.002	<0.002	0.003	<0.002	0.007
	SJ05FP6	08-24-93	Fillet	Brown trout	3.61	73.77	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
6	SJ03FF1	08-23-93	Fillet	Brown trout	9.02	68.91	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003
	SJ03FF2	08-23-93	Fillet	Rainbow trout	3.72	74.58	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.004
	SJ03FF3	08-23-93	Fillet	Rainbow trout	1.95	76.26	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.005
	SJ03FI1	08-23-93	Integrated fish	Brown trout	1.94	75.34	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002
	SJ03FI2	08-23-93	Integrated fish	Rainbow trout	8.63	70.60	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.009
	SJ03FI3	08-23-93	Integrated fish	Rainbow trout	5.95	72.66	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.010
	SJ03FP1	08-23-93	Part body	Brown trout	1.27	75.94	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002
	SJ03FP2	08-23-93	Part body	Rainbow trout	8.93	70.36	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.009
	SJ03FP3	08-23-93	Part body	Rainbow trout	6.21	72.42	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.010
	SR03FF01	07-19-94	Fillet	Rainbow trout	0.76	77.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR03FFS1	07-19-94	Whole body	Fathead minnow	6.37	76.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR03FI01	07-19-94	Integrated fish	Rainbow trout	3.54	76.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR03FP01	07-19-94	Whole body	Rainbow trout	3.68	76.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
10	SJ06FF1	08-24-93	Fillet	Rainbow trout	5.44	71.39	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ06FF2	08-24-93	Fillet	Rainbow trout	2.22	72.90	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ06FF3	08-24-93	Fillet	Rainbow trout	1.55	75.45	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.004
	SJ06FF4	08-24-93	Fillet	Brown trout	2.02	73.65	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ06FF5	08-24-93	Fillet	Brown trout	3.77	76.19	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ06FI1	08-24-93	Integrated fish	Rainbow trout	1.43	76.78	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.006

Table 10.--Concentrations of selected organochlorine compounds in fish samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lipid content (percent)	Moisture content (percent)	Trans nonachlor	Alpha benzene hexachloride	Gamma benzene hexachloride	p,p'-DDT	p,p'-DDD	o,p'-DDE	p,p'-DDE
10	SJ06FI2	08-24-93	Integrated fish	Rainbow trout	7.37	70.00	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.009
	SJ06FI3	08-24-93	Integrated fish	Rainbow trout	7.78	65.87	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.019
	SJ06FI4	08-24-93	Integrated fish	Brown trout	5.93	72.09	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.005
	SJ06FI5	08-24-93	Integrated fish	Brown trout	7.17	61.93	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.004
	SJ06FP1	08-24-93	Whole body	Rainbow trout	1.22	77.06	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007
	SJ06FP2	08-24-93	Whole body	Rainbow trout	7.79	69.76	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.010
	SJ06FP3	08-24-93	Whole body	Rainbow trout	8.39	64.93	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.021
	SJ06FP4	08-24-93	Whole body	Brown trout	6.27	71.96	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.005
	SJ06FP5	08-24-93	Whole body	Brown trout	7.49	60.60	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.004
	SR06FF01	07-18-94	Fillet	Rainbow trout	2.54	75.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR06FF02	07-18-94	Fillet	Brown trout	4.49	73.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR06FF04	07-18-94	Fillet	Rainbow trout	1.66	79.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR06FI01	07-18-94	Integrated fish	Rainbow trout	8.53	69.45	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR06FI02	07-18-94	Integrated fish	Brown trout	11.14	67.54	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.010
	SR06FI04	07-18-94	Integrated fish	Rainbow trout	5.32	73.61	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.010
	SR06FP01	07-18-94	Part body	Rainbow trout	9.02	69.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR06FP02	07-18-94	Part body	Brown trout	11.80	67.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.010
	SR06FP04	07-18-94	Part body	Rainbow trout	5.74	73.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.010
11	SJ07FF1	08-24-93	Fillet	Brown trout	5.52	69.83	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003
	SJ07FF2	08-24-93	Fillet	Rainbow trout	4.02	70.31	<0.002	<0.002	<0.002	<0.002	0.001	<0.002	0.004
	SJ07FF3	08-24-93	Fillet	Rainbow trout	2.45	76.16	<0.002	0.003	<0.002	<0.002	0.002	<0.002	0.003
	SJ07FF4	08-24-93	Fillet	Rainbow trout	3.63	74.57	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	0.004
	SJ07FF5	08-24-93	Fillet	Brown trout	4.64	72.14	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
	SJ07FFS2	08-24-93	Whole body	Brown trout	0.96	75.99	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ07FI1	08-24-93	Integrated fish	Brown trout	3.78	74.01	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002
	SJ07FI2	08-24-93	Integrated fish	Rainbow trout	8.59	67.48	<0.002	0.003	0.003	<0.002	0.002	<0.002	0.009
	SJ07FI3	08-24-93	Integrated fish	Rainbow trout	6.86	70.35	<0.002	0.004	<0.002	0.003	0.002	<0.002	0.010
	SJ07FI4	08-24-93	Integrated fish	Rainbow trout	8.61	70.50	<0.002	0.001	<0.002	<0.002	<0.002	<0.002	0.007
	SJ07FI5	08-24-93	Integrated fish	Brown trout	6.91	71.37	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	0.006
	SJ07FP1	08-24-93	Whole body	Brown trout	3.63	74.36	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.002
	SJ07FP2	08-24-93	Whole body	Rainbow trout	8.95	67.26	<0.002	0.003	0.003	<0.002	0.002	<0.002	0.009
	SJ07FP3	08-24-93	Whole body	Rainbow trout	7.16	69.95	<0.002	0.004	<0.002	0.003	0.002	<0.002	0.010
	SJ07FP4	08-24-93	Whole body	Rainbow trout	8.98	70.20	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.007
	SJ07FP5	08-24-93	Whole body	Brown trout	7.11	71.30	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	0.006
	SR07FF01	07-18-94	Fillet	Brown trout	3.12	73.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR07FF02	07-18-94	Fillet	Rainbow trout	1.60	77.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR07FF03	07-18-94	Fillet	Brown trout	2.17	75.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR07FF04	07-18-94	Fillet	Rainbow trout	1.40	78.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR07FI01	07-18-94	Integrated fish	Brown trout	9.65	68.39	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Table 10.--Concentrations of selected organochlorine compounds in fish samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lipid content (percent)	Moisture content (percent)	Trans nonachlor	Alpha benzene hexachloride	Gamma benzene hexachloride	p,p'-DDT	p,p'-DDD	o,p'-DDE	p,p'-DDE
11	SR07FI02	07-18-94	Integrated fish	Rainbow trout	6.30	71.51	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.010
	SR07FI03	07-18-94	Integrated fish	Brown trout	7.75	74.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.010
	SR07FI04	07-18-94	Integrated fish	Rainbow trout	5.94	76.27	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR07FP01	07-18-94	Part body	Brown trout	10.20	68.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR07FP02	07-18-94	Part body	Rainbow trout	6.73	71.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.010
	SR07FP03	07-18-94	Part body	Brown trout	8.22	74.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.010
	SR07FP04	07-18-94	Part body	Rainbow trout	6.64	76.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
12	SJ10FFS1	08-19-93	Whole body	Plains killifish	6.70	71.17	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003
22	SJ11FFS1	08-19-93	Whole body	Western mosquitofish	15.40	76.59	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
37	SJ24FFS1	08-18-93	Whole body	Western mosquitofish	13.50	73.26	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
	SJ24FFS2	08-18-93	Whole body	Common carp	5.33	78.87	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SJ24FFS3	08-18-93	Whole body	Fathead minnow	13.42	80.71	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006
	SJ24FFS4	08-18-93	Whole body	Plains killifish	6.29	76.33	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	SR24FBF	07-21-94	Whole body	Common carp	3.98	73.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR24FFS2	07-21-94	Whole body	Fathead minnow	3.77	82.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
38	SJ32FFS1	08-12-93	Whole body	Unknown	1.00	78.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
	SJ32FFS2	08-12-93	Whole body	Fathead minnow	1.74	82.35	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
	SJ32FFS3	08-12-93	Whole body	Fathead minnow	3.30	78.97	<0.002	<0.002	<0.002	<0.002	<0.002	0.004	0.003
	SR32FBF	07-27-94	Whole body	Flannelmouth sucker	10.10	71.00	<0.01	<0.01	<0.01	0.010	0.010	<0.01	0.010
	SR32FFS	07-27-94	Whole body	Longnose dace	10.50	72.50	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
42	SJ33FFS1	08-12-93	Whole body	Western mosquitofish	8.07	70.00	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012
	SJ33FFS2	08-12-93	Whole body	Fatheads/ suckers	3.59	80.00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	SJ33FFS3	08-12-93	Whole body	Red shiner	5.96	71.11	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.006
	SR33FFS	07-26-94	Whole body	Western mosquitofish	3.55	77.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
43	SJ34FFS1	08-12-93	Whole body	Black bullhead	1.55	80.74	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
	SJ34FFS2	08-12-93	Whole body	Western mosquitofish	3.34	76.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	SR34FFS1	07-26-94	Whole body	Western mosquitofish	5.29	77.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR34FFS2	07-26-94	Whole body	Green sunfish	2.17	78.50	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
49	SJ27FFS1	08-13-93	Whole body	Unknown	7.75	77.29	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	SJ27FFS2	08-13-93	Whole body	Fathead minnow	16.45	77.28	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	SJ27FFS3	08-13-93	Whole body	Western mosquitofish	13.25	75.77	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007

Table 10.--Concentrations of selected organochlorine compounds in fish samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Concluded

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lipid content (percent)	Moisture content (percent)	Trans nonachlor	Alpha benzene hexachloride	Gamma benzene hexachloride	p,p'-DDT	p,p'-DDD	o,p'-DDE	p,p'-DDE
49	SR27FPS1	07-27-94	Whole body	Western mosquitofish	4.82	77.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SR27FPS2	07-27-94	Whole body	Fathead minnow	5.33	80.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
51	SJ30FBF	08-11-93	Whole body	Flannelmouth sucker	14.51	74.22	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.01
	SJ30FPS	08-11-93	Whole body	Red shiner	4.70	77.85	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.00
	SR30FPS1	07-26-94	Whole body	Red shiner	6.07	74.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
	SR30FPS3	07-26-94	Whole body	Flannelmouth sucker	9.75	73.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
52	SJ31FPS	08-11-93	Whole body	Red shiner	2.09	80.37	<0.02	0.117	<0.02	<0.02	<0.02	<0.02	<0.02
	SR31FPS	07-26-94	Whole body	Flannelmouth sucker	5.58	77.00	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Table 11.--Concentrations of selected polychlorinated biphenyl (PCB) congeners in fish samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94

[Laboratory used the Ballschmitter and Zell (1980) system for identifying PCB congeners. PCB concentrations are in micrograms per gram wet weight. <, less than; --, no data]

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lipid content (percent)	Moisture content (percent)	Congener													
							Total PCB's	PCB 8	PCB 41/64	PCB 44	PCB 45	PCB 49	PCB 60/56	PCB 138	PCB 141	PCB 153	PCB 170	PCB 172	PCB 180	PCB 187/ 182/ 159
2	SJ04FBF1	08-23-93	Whole body	Common carp	7.51	72.00	0.041	<0.002	<0.002	0.002	<0.002	0.002	0.022	<0.002	<0.002	<0.002	0.016	0.004	<0.002	<0.002
	SJ04FBF2	08-23-93	Whole body	Common carp	8.09	72.73	0.046	<0.002	<0.002	<0.002	<0.002	<0.002	0.021	<0.002	<0.002	<0.002	0.012	0.003	<0.002	<0.002
	SJ04FBF3	08-23-93	Whole body	Common carp	7.31	69.62	0.039	<0.002	<0.002	0.002	<0.002	<0.002	0.021	<0.002	<0.002	<0.002	0.019	0.003	<0.002	<0.002
	SJ04FFS1	08-23-93	Whole body	Common carp	12.71	66.76	0.046	<0.003	<0.003	0.003	<0.003	<0.003	0.032	<0.003	<0.003	<0.003	0.019	0.005	<0.003	<0.003
	SJ04FFS2	08-23-93	Whole body	Fathead minnow	3.50	63.69	0.060	<0.008	<0.008	<0.008	<0.008	<0.008	0.085	<0.008	<0.008	<0.008	0.029	0.014	<0.008	<0.008
	SJ04FFS3	08-23-93	Whole body	Western mosquitofish	4.89	72.84	0.138	<0.006	<0.006	0.006	<0.006	<0.006	0.060	<0.006	<0.006	<0.006	0.025	0.008	<0.006	<0.006
	SR04FBF	07-19-94	Whole body	Common carp	15.70	63.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
4	SJ02FF1	08-23-93	Fillet	Brown trout	3.01	69.57	0.020	<0.002	<0.002	0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002
	SJ02FF2	08-23-93	Fillet	Rainbow trout	4.19	71.64	0.007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ02FF3	08-23-93	Fillet	Rainbow trout	2.50	73.50	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ02FF4	08-23-93	Fillet	Rainbow trout	1.49	73.49	0.003	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002	<0.002	0.004
	SJ02FF5	08-23-93	Fillet	Rainbow trout	3.56	72.48	0.008	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ02FFS2	08-23-93	Whole body	Rainbow trout	2.37	76.21	0.003	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
	SJ02FI1	08-23-93	Integrated fish	Brown trout	5.20	61.05	0.015	<0.002	0.010	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ02FI2	08-23-93	Integrated fish	Rainbow trout	7.38	69.68	0.015	<0.002	0.009	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ02FI3	08-23-93	Integrated fish	Rainbow trout	11.52	69.46	0.012	<0.002	0.004	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ02FI4	08-23-93	Integrated fish	Rainbow trout	7.32	73.28	0.010	<0.002	0.011	0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ02FI5	08-23-93	Integrated fish	Rainbow trout	8.96	68.58	0.016	<0.002	0.015	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ02FP1	08-23-93	Part body	Brown trout	5.42	60.21	0.015	<0.002	0.011	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ02FP2	08-23-93	Part body	Rainbow trout	7.51	69.60	0.015	<0.002	0.009	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ02FP3	08-23-93	Part body	Rainbow trout	12.19	69.16	0.013	<0.002	0.004	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ02FP4	08-23-93	Part body	Rainbow trout	7.62	73.27	0.010	<0.002	0.011	0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ02FP5	08-23-93	Part body	Rainbow trout	9.34	68.30	0.017	<0.002	0.016	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SR02FF01	07-18-94	Fillet	Brown trout	5.64	72.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 11.--Concentrations of selected polychlorinated biphenyl (PCB) congeners in fish samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lipid content (percent)	Moisture content (percent)	Congener													
							Total PCB's	PCB 8	PCB 41/64	PCB 44	PCB 45	PCB 49	PCB 60/56	PCB 138	PCB 141	PCB 153	PCB 170	PCB 172	PCB 180	PCB 187/ 182/ 159
4	SR02FF03	07-18-94	Fillet	Rainbow trout	4.24	76.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR02FF04	07-18-94	Fillet	Rainbow trout	2.11	77.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR02FF05	07-18-94	Fillet	Rainbow trout	3.37	73.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR02FFS	07-18-94	Whole body	Rainbow trout	5.95	77.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR02FI01	07-18-94	Integrated fish	Brown trout	10.82	67.43	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR02FI03	07-18-94	Integrated fish	Rainbow trout	6.35	73.24	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR02FI04	07-18-94	Integrated fish	Rainbow trout	7.66	72.41	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR02FI05	07-18-94	Integrated fish	Rainbow trout	8.28	70.13	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR02FP01	07-18-94	Part body	Brown trout	11.30	67.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR02FP03	07-18-94	Part body	Rainbow trout	6.53	73.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR02FP04	07-18-94	Part body	Rainbow trout	8.15	72.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR02FP05	07-18-94	Part body	Rainbow trout	8.51	70.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
5	SJ05FF1	08-24-93	Fillet	Brown trout	2.89	58.73	0.099	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FF2	08-24-93	Fillet	Rainbow trout	1.61	75.14	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FF3	08-24-93	Fillet	Rainbow trout	1.16	76.36	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FF4	08-24-93	Fillet	Rainbow trout	1.11	77.71	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FF5	08-24-93	Fillet	Rainbow trout	0.35	78.87	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FF6	08-24-93	Fillet	Rainbow trout	0.40	76.76	<0.002	<0.002	<0.002	0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FFS	08-24-93	Whole body	Fathead minnow	1.60	76.92	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FI1	08-24-93	Integrated fish	Brown trout	1.97	75.57	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FI2	08-24-93	Integrated fish	Rainbow trout	7.94	68.64	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FI3	08-24-93	Integrated fish	Rainbow trout	4.92	73.37	<0.002	<0.002	<0.002	0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FI4	08-24-93	Integrated fish	Rainbow trout	5.19	73.62	<0.002	<0.002	<0.002	0.002	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	0.004	<0.002	<0.002
	SJ05FI5	08-24-93	Integrated fish	Rainbow trout	3.56	76.35	0.017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002

Table 11.--Concentrations of selected polychlorinated biphenyl (PCB) congeners in fish samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lipid content (percent)	Moisture content (percent)	Congener												
							Total PCB's	PCB 8	PCB 41/64	PCB 44	PCB 45	PCB 49	PCB 60/56	PCB 138	PCB 141	PCB 153	PCB 170	PCB 172	PCB 180	PCB 187/ 182/ 159
5	SJ05FI6	08-24-93	Integrated fish	Rainbow trout	3.38	73.99	0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002
	SJ05FP1	08-24-93	Part body	Brown trout	1.87	77.34	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FP2	08-24-93	Part body	Rainbow trout	8.39	68.17	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FP3	08-24-93	Part body	Rainbow trout	5.26	73.10	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ05FP4	08-24-93	Part body	Rainbow trout	5.61	73.19	<0.002	<0.002	<0.002	0.002	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	0.004	<0.002	<0.002
	SJ05FP5	08-24-93	Part body	Rainbow trout	3.76	76.20	0.017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ05FP6	08-24-93	Part body	Rainbow trout	3.61	73.77	0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002
6	SJ03FF1	08-23-93	Fillet	Brown trout	9.02	68.91	0.020	<0.002	<0.002	0.002	<0.002	0.002	0.021	<0.002	<0.002	<0.002	0.008	0.003	<0.002	<0.002
	SJ03FF2	08-23-93	Fillet	Rainbow trout	3.72	74.58	0.036	<0.002	<0.002	0.002	<0.002	0.002	0.021	<0.002	<0.002	<0.002	0.008	0.003	<0.002	<0.002
	SJ03FF3	08-23-93	Fillet	Rainbow trout	1.95	76.26	0.037	<0.002	<0.002	0.002	<0.002	0.002	0.021	<0.002	<0.002	<0.002	0.009	0.003	<0.002	<0.002
	SJ03FI1	08-23-93	Integrated fish	Brown trout	1.94	75.34	0.036	<0.002	<0.002	0.001	<0.002	0.001	0.022	<0.002	<0.002	<0.002	0.010	0.003	<0.002	<0.002
	SJ03FI2	08-23-93	Integrated fish	Rainbow trout	8.63	70.60	0.038	<0.002	<0.002	0.001	<0.002	0.001	0.021	<0.002	<0.002	<0.002	0.011	0.003	<0.002	<0.002
	SJ03FI3	08-23-93	Integrated fish	Rainbow trout	5.95	72.66	0.035	<0.002	<0.002	0.002	<0.002	0.002	0.021	<0.002	<0.002	<0.002	0.013	0.004	<0.002	<0.002
	SJ03FP1	08-23-93	Part body	Brown trout	1.27	75.94	0.038	<0.002	<0.002	<0.002	<0.002	<0.002	0.022	<0.002	<0.002	<0.002	0.010	0.003	<0.002	<0.002
	SJ03FP2	08-23-93	Part body	Rainbow trout	8.93	70.36	0.038	<0.002	<0.002	<0.002	<0.002	<0.002	0.021	<0.002	<0.002	<0.002	0.011	0.003	<0.002	<0.002
	SJ03FP3	08-23-93	Part body	Rainbow trout	6.21	72.42	0.035	<0.002	<0.002	0.002	<0.002	0.002	0.021	<0.002	<0.002	<0.002	0.013	0.004	<0.002	<0.002
	SR03FF01	07-19-94	Fillet	Rainbow trout	0.76	77.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR03FFS1	07-19-94	Whole body	Fathead minnow	6.37	76.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR03FI01	07-19-94	Integrated fish	Rainbow trout	3.54	76.05	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR03FP01	07-19-94	Part body	Rainbow trout	3.68	76.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
10	SJ06FF1	08-24-93	Fillet	Rainbow trout	5.44	71.39	0.006	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002
	SJ06FF2	08-24-93	Fillet	Rainbow trout	2.22	72.90	0.005	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ06FF3	08-24-93	Fillet	Rainbow trout	1.55	75.45	0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002
	SJ06FF4	08-24-93	Fillet	Brown trout	2.02	73.65	0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	<0.002	<0.002

Table 11.--Concentrations of selected polychlorinated biphenyl (PCB) congeners in fish samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lipid content (percent)	Moisture content (percent)	Congener												
							Total PCB's	PCB 8	PCB 41/64	PCB 44	PCB 45	PCB 49	PCB 60/56	PCB 138	PCB 141	PCB 153	PCB 170	PCB 172	PCB 180	PCB 187/ 182/ 159
10	SJ06FF5	08-24-93	Fillet	Brown trout	3.77	76.19	0.005	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	0.010	<0.007	<0.007
	SJ06FI1	08-24-93	Integrated fish	Rainbow trout	1.43	76.78	0.016	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ06FI2	08-24-93	Integrated fish	Rainbow trout	7.37	70.00	0.003	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ06FI3	08-24-93	Integrated fish	Rainbow trout	7.78	65.87	0.002	<0.002	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ06FI4	08-24-93	Integrated fish	Brown trout	5.93	72.09	0.005	<0.002	<0.002	0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ06FI5	08-24-93	Integrated fish	Brown trout	7.17	61.93	0.004	<0.002	<0.002	<0.002	<0.002	0.001	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ06FP1	08-24-93	Part body	Rainbow trout	1.22	77.06	0.016	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ06FP2	08-24-93	Part body	Rainbow trout	7.79	69.76	0.003	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ06FP3	08-24-93	Part body	Rainbow trout	8.39	64.93	0.002	<0.002	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ06FP4	08-24-93	Part body	Brown trout	6.27	71.96	0.005	<0.002	<0.002	0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ06FP5	08-24-93	Part body	Brown trout	7.49	60.60	0.004	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SR06FF01	07-18-94	Fillet	Rainbow trout	2.54	75.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR06FF02	07-18-94	Fillet	Brown trout	4.49	73.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR06FF04	07-18-94	Fillet	Rainbow trout	1.66	79.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR06FI01	07-18-94	Integrated fish	Rainbow trout	8.53	69.45	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR06FI02	07-18-94	Integrated fish	Brown trout	11.14	67.54	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR06FI04	07-18-94	Integrated fish	Rainbow trout	5.32	73.61	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR06FP01	07-18-94	Part body	Rainbow trout	9.02	69.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR06FP02	07-18-94	Part body	Brown trout	11.80	67.00	<0.05	--	--	--	--	--	--	--	--					
	SR06FP04	07-18-94	Part body	Rainbow trout	5.74	73.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
11	SJ07FF1	08-24-93	Fillet	Brown trout	5.52	69.83	0.002	<0.002	<0.002	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	SJ07FF2	08-24-93	Fillet	Rainbow trout	4.02	70.31	0.004	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ07FF3	08-24-93	Fillet	Rainbow trout	2.45	76.16	0.017	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ07FF4	08-24-93	Fillet	Rainbow trout	3.63	74.57	0.002	<0.004	<0.004	<0.004	<0.004	0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.004	<0.004	<0.004
	SJ07FF5	08-24-93	Fillet	Brown trout	4.64	72.14	0.013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002

Table 11.--Concentrations of selected polychlorinated biphenyl (PCB) congeners in fish samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lipid content (percent)	Moisture content (percent)	Congener												
							Total PCB's	PCB 8	PCB 41/64	PCB 44	PCB 45	PCB 49	PCB 60/56	PCB 138	PCB 141	PCB 153	PCB 170	PCB 172	PCB 180	PCB 187/ 182/ 159
11	SJ07FFS2	08-24-93	Whole body	Brown trout	0.96	75.99	0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.004	<0.004	<0.004
	SJ07FI1	08-24-93	Integrated fish	Brown trout	3.78	74.01	0.010	<0.002	0.013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	0.002	<0.002	<0.002
	SJ07FI2	08-24-93	Integrated fish	Rainbow trout	8.59	67.48	0.024	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	0.002	<0.002	0.002	<0.002	0.002	<0.002	<0.002
	SJ07FI3	08-24-93	Integrated fish	Rainbow trout	6.86	70.35	0.009	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ07FI4	08-24-93	Integrated fish	Rainbow trout	8.61	70.50	0.002	<0.002	<0.002	<0.002	<0.002	0.001	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ07FI5	08-24-93	Integrated fish	Brown trout	6.91	71.37	0.007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ07FP1	08-24-93	Part body	Brown trout	3.63	74.36	0.011	<0.002	0.014	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	0.002	<0.002	<0.002
	SJ07FP2	08-24-93	Part body	Rainbow trout	8.95	67.26	0.026	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	0.002	<0.002	0.002	<0.002	0.002	<0.002	<0.002
	SJ07FP3	08-24-93	Part body	Rainbow trout	7.16	69.95	0.008	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ07FP4	08-24-93	Part body	Rainbow trout	8.98	70.20	0.002	<0.002	<0.002	<0.002	<0.002	0.001	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SJ07FP5	08-24-93	Part body	Brown trout	7.11	71.30	0.007	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.002	<0.002	<0.002
	SR07FF01	07-18-94	Fillet	Brown trout	3.12	73.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR07FF02	07-18-94	Fillet	Rainbow trout	1.60	77.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR07FF03	07-18-94	Fillet	Brown trout	2.17	75.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR07FF04	07-18-94	Fillet	Rainbow trout	1.40	78.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR07FI01	07-18-94	Integrated fish	Brown trout	9.65	68.39	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR07FI02	07-18-94	Integrated fish	Rainbow trout	6.30	71.51	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR07FI03	07-18-94	Integrated fish	Brown trout	7.75	74.08	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR07FI04	07-18-94	Integrated fish	Rainbow trout	5.94	76.27	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR07FP01	07-18-94	Part body	Brown trout	10.20	68.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR07FP02	07-18-94	Part body	Rainbow trout	6.73	71.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR07FP03	07-18-94	Part body	Brown trout	8.22	74.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR07FP04	07-18-94	Part body	Rainbow trout	6.64	76.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
12	SJ10FFS1	08-19-93	Whole body	Plains killifish	6.70	71.17	0.003	<0.003	0.011	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
22	SJ11FFS1	08-19-93	Whole body	Western mosquitofish	15.40	76.59	0.054	0.033	<0.006	<0.006	<0.006	0.008	<0.006	<0.006	<0.006	<0.006	<0.006	0.010	<0.006	<0.006
37	SJ24FFS1	08-18-93	Whole body	Western mosquitofish	13.50	73.26	0.080	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.041	<0.025	<0.025
	SJ24FFS2	08-18-93	Whole body	Common carp	5.33	78.87	0.032	<0.01	<0.01	<0.01	<0.01	0.011	<0.01	<0.01	<0.01	<0.01	<0.01	0.017	<0.01	<0.01
	SJ24FFS3	08-18-93	Whole body	Fathead minnow	13.42	80.71	0.019	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005

Table 11.--Concentrations of selected polychlorinated biphenyl (PCB) congeners in fish samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lipid content (percent)	Moisture content (percent)	Total PCB's	Congener												
								PCB 8	PCB 41/64	PCB 44	PCB 45	PCB 49	PCB 60/56	PCB 138	PCB 141	PCB 153	PCB 170	PCB 172	PCB 180	PCB 187/ 182/ 159
37	SJ24FFS4	08-18-93	Whole body	Plains killifish	6.29	76.33	0.017	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005
	SR24FBF	07-21-94	Whole body	Common carp	3.98	73.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR24FFS2	07-21-94	Whole body	Fathead minnow	3.77	82.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
38	SJ32FFS1	08-12-93	Whole body	Unknown	1.00	78.03	0.058	<0.02	<0.02	0.036	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.022	<0.02	<0.02
	SJ32FFS2	08-12-93	Whole body	Fathead minnow	1.74	82.35	0.016	<0.006	<0.006	0.010	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006
	SJ32FFS3	08-12-93	Whole body	Fathead minnow	3.30	78.97	0.016	<0.002	0.006	0.004	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	0.003	0.002	<0.002
	SR32FBF	07-27-94	Whole body	Flannelmouth sucker	10.10	71.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR32FFS	07-27-94	Whole body	Longnose dace	10.50	72.50	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
42	SJ33FFS1	08-12-93	Whole body	Western mosquitofish	8.07	70.00	0.030	<0.012	<0.012	0.019	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012
	SJ33FFS2	08-12-93	Whole body	Fatheads/ suckers	3.59	80.00	0.014	<0.005	<0.005	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	SJ33FFS3	08-12-93	Whole body	Red shiner	5.96	71.11	0.013	<0.003	<0.003	0.006	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.003	0.004	<0.003
	SR33FFS	07-26-94	Whole body	Western mosquitofish	3.55	77.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
43	SJ34FFS1	08-12-93	Whole body	Black bullhead	1.55	80.74	0.040	<0.018	<0.018	0.025	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018	<0.018
	SJ34FFS2	08-12-93	Whole body	Western mosquitofish	3.34	76.02	0.037	<0.005	0.025	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
	SR34FFS1	07-26-94	Whole body	Western mosquitofish	5.29	77.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR34FFS2	07-26-94	Whole body	Green sunfish	2.17	78.50	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
49	SJ27FFS1	08-13-93	Whole body	Unknown	7.75	77.29	0.014	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	<0.005
	SJ27FFS2	08-13-93	Whole body	Fathead minnow	16.45	77.28	0.013	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005

Table 11.--Concentrations of selected polychlorinated biphenyl (PCB) congeners in fish samples collected for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Concluded

Site number (fig. 2, table 1)	Sample identification number	Date	Type of sample	Common name	Lipid content (percent)	Moisture content (percent)	Total PCB's	PCB 8	Congener											
									PCB 41/64	PCB 44	PCB 45	PCB 49	PCB 60/56	PCB 138	PCB 141	PCB 153	PCB 170	PCB 172	PCB 180	PCB 187/ 182/ 159
49	SJ27FFS3	08-13-93	Whole body	Western mosquitofish	13.25	75.77	0.009	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	<0.007	0.009	<0.007	<0.007
	SR27FFS1	07-27-94	Whole body	Western mosquitofish	4.82	77.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR27FFS2	07-27-94	Whole body	Fathead minnow	5.33	80.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
51	SJ30FBF	08-11-93	Whole body	Flannelmouth sucker	14.51	74.22	0.056	<0.018	<0.018	<0.018	<0.018	0.019	<0.018	<0.018	<0.018	<0.018	<0.018	0.025	<0.018	<0.018
	SJ30FFS	08-11-93	Whole body	Red shiner	4.70	77.85	0.090	<0.004	0.005	0.007	0.064	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.004	0.008	<0.004
	SR30FFS1	07-26-94	Whole body	Red shiner	6.07	74.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
	SR30FFS3	07-26-94	Whole body	Flannelmouth sucker	9.75	73.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--
52	SJ31FFS	08-11-93	Whole body	Red shiner	2.09	80.37	0.080	<0.02	<0.02	0.040	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.024	<0.02	<0.02
	SR31FFS	07-26-94	Whole body	Flannelmouth sucker	5.58	77.00	<0.05	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 12.--Polycyclic-aromatic-hydrocarbon (PAH) concentrations in and sample information for semipermeable-membrane devices (SPMD's) deployed for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94

[Concentrations are in nannograms per SPMD; nd, not detected and quantified as 0; bql, below the quantification limit and not quantified with confidence; nql, near the quantification limit with uncertainty increasing to 25 percent as the quantification limit is approached, compared with uncertainty of 10 percent above the quantification limit]

Site number (fig. 2, table 1)	Type of sample	Month-year	Ace-naph-thene	Ace-naph-thene-D10	Ace-naph-thylene	An-thra-cene	1,2-benz-anthra-cene	Benzo-[a]an-thra-cene	1,2,5,6-Diben-zo[a,h]an-thra-cene	Diben-zo[a,h] an-thra-cene	Bi-phenyl	Chry-sene	Fluo-rene	1-Methyl fluo-rene	Fluor-an-thene	Benzo-[b] fluor-an-thene	Benzo-[k] fluoran-thene
13	Air	10-94	nql 2.3	--	nql 2.4	nd	nd	--	nd	--	16	nd	19	13	4.7	nd	nd
	Air	10-94	nd	--	nd	nd	nd	--	nd	--	15	nd	19	12	nql 3.7	nd	nd
	Water	10-94	nql 2.2	--	nql 2	nql 140	bql 6.5	--	nd	--	10	nd	13	17	47	nd	nd
	Water	10-94	nql 2.1	--	nql 2.1	nql 5.8	nd	--	nd	--	10	nql 6.8	14	16	54	nd	nd
14	Water	10-93	6.8	41	nql 1.7	1.1	--	12	--	nd	6.1	12	13	--	206	4.4	nql 1.7
	Air	10-94	nd	--	nd	nd	nd	--	nd	--	11	nd	18	17	nql 3.9	nd	nd
	Air	10-94	nd	--	nd	nd	nd	--	nd	--	13	nd	22	19	6.2	nd	nd
	Water	10-94	10	--	nql 2.1	50	97	--	nd	--	12	59	36	30	710	42	nd
	Water	10-94	10	--	nql 1.9	49	94	--	nd	--	11	59	36	33	680	48	nql 9.5
15	Water	10-93	8.2	51	4.9	7.4	--	18	--	nd	11.7	24	27	--	289	9.9	nql 2.5
	Air	10-94	nql 2.1	--	5.5	nd	nd	--	nd	--	43	nd	69	53	5.6	n	nd
	Air	10-94	nql 2	--	5.6	nd	nd	--	nd	--	40	nd	66	55	5.9	nd	nd
	Water	10-94	12	--	5.2	38	65	--	nd	--	18	39	59	92	520	29	nql 6.2
	Water	10-94	10	--	nql 3.6	38	53	--	nd	--	15	32	57	94	520	27	nql 6.4
16	Water	10-93	9.1	53	bql 0.7	3.2	--	2.6	--	nd	9.9	16	26	--	226	3.9	nql 2.9
	Water	10-94	11	--	nql 3.2	39	51	--	nd	--	16	nql 28	54	88	560	nql 23	nd
	Water	10-94	10	--	nql 3.5	38	65	--	nd	--	15	44	54	94	560	29	nql 7.7
17	Water	10-94	nd	--	nd	nd	nd	--	nd	--	nql 3.2	nd	nd	6.3	5.8	nd	nd
	Water	10-94	nd	--	nd	nd	nd	--	nd	--	nql 3.4	nd	nd	nql 6	6.5	nd	nd
21	Water	10-94	nd	--	nd	nd	nd	--	nd	--	nql 3.6	nd	nd	6.6	19	nd	nd
	Water	10-94	nd	--	nd	nd	nd	--	nd	--	nql 2.9	nd	nd	5.8	18	nd	nd
40	Water	10-93	nd	42	nd	nd	--	nd	--	nd	4.6	nd	nql 2.4	--	nd	nd	nd
47	Water	10-93	7.6	60	bql 1.3	bql 1.1	--	nd	--	nd	5.5	nd	8	--	6.7	nd	nd

Table 12.--Polycyclic-aromatic-hydrocarbon (PAH) concentrations in and sample information for semipermeable membrane devices (SPMD's) deployed for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Site number (fig. 2, table 1)	Type of sample	Month-year	Naph-thalene	Naph-thalene -D8	1-Ethyl naph-thalene	2-Ethyl naph-thalene	1-Methyl naph-thalene	2-Methyl naph-thalene	2,6-Dimeth-yl naph-thalene	1,3-Dimeth-yl naph-thalene	2,3-Dimeth-yl naph-thalene	1,2-Dimeth-yl naph-thalene	2,3,5-Trimeth-yl naph-thalene	Pery-lene	Benzo-[g,h,i] pery-lene	1,12-Benzo pery-lene	Phen-an-threne
13	Air	10-94	30	--	nql 4.4	9.6	19	42	16	42	14	6.2	nql 8.5	nd	--	nql 2.7	26
	Air	10-94	29	--	nql 3.4	8.1	18	40	16	41	13	nql 4.8	nql 7.9	nd	--	nd	28
	Water	10-94	30	--	nql 5.3	15	19	46	30	91	31	13	61	nd	--	nd	5.9
	Water	10-94	27	--	nql 5.5	14	19	44	29	88	30	13	59	nd	--	nd	89
14	Water	10-93	13	38	--	--	24	18	13	--	--	--	18	nd	nd	--	77
	Air	10-94	22	--	nd	3.6	9.8	19	2.4	11	4.6	nd	nd	nd	--	nd	24
	Air	10-94	25	--	nd	nql 4	11	22	nql 2.5	12	nql 5.1	nd	nd	nd	--	nd	27
	Water	10-94	32	--	nql 5	13	21	46	26	89	30	13	43	nql 4.4	--	nd	250
	Water	10-94	32	--	nql 5.1	14	21	46	26	86	29	13	49	nql 4.1	--	nd	250
15	Water	10-93	32	34	--	--	49	60	47	--	--	--	54	nd	nd	--	138
	Air	10-94	84	--	12	34	51	130	40	130	47	19	31	nd	--	nd	66
	Air	10-94	78	--	11	30	47	120	41	120	44	18	29	nd	--	nd	68
	Water	10-94	75	--	16	36	47	110	70	180	66	31	90	nql 4.6	--	nd	260
	Water	10-94	72	--	14	34	44	100	75	190	67	30	96	nd	--	nd	270
16	Water	10-93	24	35	--	--	46	57	43	--	--	--	30	nd	nd	--	112
	Water	10-94	65	--	12	33	41	95	72	180	65	30	90	nd	--	nd	270
	Water	10-94	65	--	14	31	42	96	68	180	63	30	91	nd	--	nd	270
17	Water	10-94	13	--	nd	nql 2.8	7.2	12	nql 4	13	nql 4.1	nd	nd	nd	--	nd	26
	Water	10-94	13	--	nd	nql 3.4	7.3	12	nql 4	13	nql 4.4	nql 2.3	nd	nd	--	nd	27
21	Water	10-94	14	--	nd	nd	6.2	12	nql 4.3	11	nql 3.8	nql 1.9	nd	nd	--	nd	29
	Water	10-94	11	--	nd	nd	5.4	9	nql 3.8	8.5	nql 2.8	nd	nd	nd	--	nd	26
40	Water	10-93	8	33	--	--	7.3	12	7	--	--	--	3.8	nd	nd	--	10
47	Water	10-93	17	50	--	--	16	13	10	--	--	--	7.7	nd	nd	--	106

Table 12.--Polycyclic-aromatic-hydrocarbon (PAH) concentrations in and sample information for semipermeable membrane devices (SPMD's) deployed for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Concluded

Site number (fig. 2, table 1)	Type of sample	Month-year	Phen-an-threne D10	1-Methyl phen-an-threne	2-Methyl phen-an-threne	Pyrene	Benzo-[a] py-rene	Benzo-[a] py-rene-D12	Benzo-[e] py-rene	Indeno [1,2,3-c,d] py-rene	Diben-zo thio-phene	Total PAH's[1]	Total PAH's[2]
13	Air	10-94	--	nql 3.8	5.8	nql 3.2	nd	--	--	nql 3.5	nd	290	200
	Air	10-94	--	nql 2.1	nql 4.1	nql 2.4	nd	--	--	nd	nd	270	180
	Water	10-94	--	44	71	nd	nd	--	--	nd	85	800	700
	Water	10-94	--	70	150	52	nd	--	--	nd	13	810	720
14	Water	10-93	5,600	23	--	170	bql 0.44	nd	3.5	nd	--	--	--
	Air	10-94	--	nd	nql 4	nql 2.5	nd	--	--	nd	nd	150	100
	Air	10-94	--	nd	nql 4	nql 4.9	nd	--	--	nd	nd	180	120
	Water	10-94	--	84	160	650	nd	--	--	nd	15	2,500	2,400
	Water	10-94	--	85	170	650	nql 4.8	--	--	nd	15	2,500	2,400
15	Water	10-93	6,671	84	--	275	nd	nd	6.2	nd	--	--	--
	Air	10-94	--	7.7	25	nql 3.9	nd	--	--	nd	nd	860	590
	Air	10-94	--	8.5	27	nql 3.7	nd	--	--	nd	nd	820	570
	Water	10-94	--	140	280	350	nd	--	--	nd	20	2,600	2,400
	Water	10-94	--	140	300	330	nd	--	--	nd	19	2,600	2,400
16	Water	10-93	5,999	66	--	165	nd	nd	4.7	nd	--	--	--
	Water	10-94	--	160	320	510	nd	--	--	nd	23	2,800	2,600
	Water	10-94	--	150	290	470	nd	--	--	nd	22	2,800	2,600
17	Water	10-94	--	nql 3	5.9	5.4	nd	--	--	nd	nd	110	80
	Water	10-94	--	nql 2.9	6.3	5.6	nd	--	--	nd	nd	120	85
21	Water	10-94	--	nql 4.1	8.6	97	nd	--	--	nd	nql 4.4	230	190
	Water	10-94	--	nql 3.6	7	110	nd	--	--	nd	nql 3.1	220	190
40	Water	10-93	8,410	nd	--	nd	nd	nd	nd	nd	--	--	--
47	Water	10-93	14,353	26	--	6.6	nd	nd	nd	nd	--	--	--

[1]Total PAH's without compounds qualified as bql.
[2]Total PAH's without compounds qualified as bql; or naphthalene, 1-methyl naphthalene, and 2-methyl naphthalene, which were routinely found in laboratory blanks.

Table 13.--Analyte concentration ranges in environmental samples and blanks, and the percentage of 17 blanks with analyte concentrations at or above the U.S. Geological Survey National Water Quality Laboratory minimum reporting level

[mg/L, milligrams per liter; µg/L, micrograms per liter; <, less than]

Analyte	Analyte concentration range		Percentage of blanks with analyte concentration at or above the minimum reporting level
	Environmental samples	Blanks	
Alkalinity (lab) (mg/L)	77 - 2,520	<1.0 - 4.1	88
Dissolved arsenic (µg/L)	<1 - 17	<1 - 1	12
Dissolved boron (µg/L)	10 - 1,600	<10 - 10	6
Dissolved bromide (mg/L)	<0.01 - 2.2	<0.01 - 0.06	82
Dissolved cadmium (µg/L)	<1.0 - <1.0	<1.0 - <1.0	0
Dissolved calcium (mg/L)	5.5 - 610	<0.02 - 0.29	35
Dissolved chloride (mg/L)	<0.10 - 1,700	<0.10 - 0.20	53
Dissolved chromium (µg/L)	<1 - 20	<1 - 2	6
Dissolved copper (µg/L)	<1 - 200	<1 - <1	0
Dissolved fluoride (µg/L)	<0.10 - 25	<0.1 - 0.1	18
Dissolved lead (µg/L)	<1 - 47	<1 - <1	0
Dissolved magnesium (mg/L)	0.2 - 150	<0.01 - 0.04	12
Dissolved mercury (µg/L)	<0.1 - <0.1	<0.1 - <0.1	0
Dissolved molybdenum (µg/L)	<1 - 15	<1 - <1	0
Dissolved potassium (mg/L)	<0.10 - 18	<0.10 - 0.30	6
Dissolved selenium (µg/L)	<1 - 37	<1 - <1	0
Dissolved sodium (mg/L)	11 - 2,300	<0.2 - 0.20	6
Dissolved solids (mg/L)	145 - 8,600	<1 - 7	47
Dissolved sulfate (mg/L)	37 - 5,400	<0.10 - 0.20	35
Dissolved vanadium (µg/L)	<1 - 390	<1 - <1	0
Dissolved zinc (µg/L)	<3 - 200	<3 - 7	50

Table 14.--Quality-control data for selenium analyses conducted on biological tissue analyzed for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94

[µg, micrograms, dry weight; <, less than; --, no data; NIST, National Institute of Standards and Technology]

Laboratory batch number	Laboratory identification number	Selenium method blank (µg, dry weight)
52	1	<0.1
52	25	<0.2
52	0025A	<0.2
52	43	<0.2
52	50	<0.2
52	56	<0.2
52	0056A	<0.2
52	77	<0.1
52	102	<0.06
52	125	<0.08
53	227	<0.09
53	227A	<0.2
53	238	<0.09
53	238A	0.1
53	261	<0.08
53	273	<0.09
53	292	<0.09
53	292A	<0.2
53	311	<0.09
58	1	<0.05
58	20	<0.01
58	31	<0.05
58	42	<0.1
58	60	<0.1
58	73	<0.1
58	92	<0.02
58	115	<0.07
59	98	<0.1
59	109	<0.03
59	118	<0.07
59	131	<0.07

Table 14.--Quality-control data for selenium analyses conducted on biological tissue analyzed for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Laboratory batch number	Sample identification number	Relative percent difference for laboratory duplicate
52	SJ10IB2	85.71
52	SJ1IB1	2.99
52	SJ5INK	13.33
52	SJ5FF5	13.33
52	SJ7FF2	3.28
52	SJ1PM1	18.6
52	SJ5PM2	0
52	SJ10FFS1	0
52	SJ2FP4	0
52	SJ3FF1	7.14
52	SJ4OV	0
52	SJ5FP1	0
52	SJ7FP2	2.06
53	SJ18INK	10
53	SJ24IB	11.32
53	SJ32IB	5
53	SJ34IB2	18.87
53	SJ11PM1	66.67
53	SJ24PM2	40
53	SJ11FFS1	11.63
53	SJ22OV	0
53	SJ27FFS1	7.23
53	SJ30FBF	4.44
58	SR02IB1	37.04
58	SR02IB2	10.29
58	SR23IB	0
58	SR02FF01	0
58	SR07FF01	5.41
58	SR01PM2	5.71
58	SR10PM	66.67
58	SR23PA	0
58	SR02FP03	8.56
58	SR04FBF	12.5
58	SR07FP03	0
58	SR23OV1	5.71
58	SR24FFS2	3.08
59	SR32IB	0
59	SR31PM	0
59	SR32FFS	1.83
59	SROAOV	7.06
Average		12.14

Table 14.--Quality-control data for selenium analyses conducted on biological tissue analyzed for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Continued

Laboratory batch number	Sample identification number	Recovery for laboratory spike (percent)
52	SJ1IB2	106.05
52	SJ2IB2	101.6
52	SJ7IB	100.8
52	SJ2FF3	109.22
52	SJ6FF2	105
52	SJ1PM2	112.28
52	SJ7PA	103
52	SJ3FF3	101.81
52	SJ3FP1	100.4
52	SJ3OV	102.21
52	SJ5FP3	85.18
52	SJ7FFS2	115.37
52	SJ7FP3	106.26
53	SJ11IB1	86.86
53	SK11IB2	85.34
53	SJ24INK	--
53	SK30IB	86.69
53	SJ11PM3	82.49
53	SJ27PM	--
53	SJ23OV	80.51
53	SJ27FFS3	71.56
53	SJ31FFS	114.18
53	SJ32FFS3	117.94
58	SR03IB2	87.9
58	SR05IB2	87.72
58	SR27IB1	94.68
58	SR02FF05	88.18
58	SR07FF03	93.1
58	SR02PA	93.37
58	SR18PA	114.91
58	SR24PM2	97.02
58	SR02FP04	88.22
58	SR06FP02	74.59
58	SR07FP04	101.8
58	SR24OV	79.63
58	SR30FFS1	107.86
59	SR34IB2	94.21
59	SROAINK	100.58
59	SR32PA	104.45
59	SR34FFS2	106.85
Average		94.29

Table 14.--Quality-control data for selenium analyses conducted on biological tissue analyzed for the National Irrigation Water Quality Program, San Juan River area, New Mexico, 1993-94--Concluded

Lab batch number	NIST number	Type of sample	Standard reference material (percent recovery)
52	NIST 1547	Peach leaves	166.67
52	NIST 1566a	Oyster tissue	104.07
52	NIST 1566a	Oyster tissue	113.12
52	NIST 1566a	Oyster tissue	104.07
52	NIST 1566a	Oyster tissue	99.55
52	NIST 1566a	Oyster tissue	104.07
52	NIST 1566a	Oyster tissue	104.07
52	NIST 1566a	Oyster tissue	108.6
52	NIST 1566a	Oyster tissue	104.07
52	NIST 1566a	Oyster tissue	113.12
53	NIST 1547	Peach leaves	333.33
53	NIST 1547	Peach leaves	166.67
53	NIST 1566a	Oyster tissue	95.02
53	NIST 1566a	Oyster tissue	104.07
53	NIST 1566a	Oyster tissue	99.55
53	NIST 1566a	Oyster tissue	85.97
53	NIST 1566a	Oyster tissue	99.55
53	NIST 1566a	Oyster tissue	95.02
58	NIST 1547	Peach leaves	166.67
58	NIST 1547	Peach leaves	250
58	NIST 1566a	Oyster tissue	85.97
58	NIST 1566a	Oyster tissue	95.02
58	NIST 1566a	Oyster tissue	85.97
58	NIST 1566a	Oyster tissue	95.02
58	NIST 1566a	Oyster tissue	85.97
58	NIST 1566a	Oyster tissue	90.5
58	NIST 1566a	Oyster tissue	90.5
59	NIST 1566a	Oyster tissue	95.02
59	NIST 1566a	Oyster tissue	104.07
59	NIST 1566a	Oyster tissue	95.02
59	NIST 1572	Citrus leaves	400

Table 15.--Sampling sites for supplemental water and biological data collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95

[RM, river mile]

Site number (fig. 3)	Site name	Site latitude	Site longitude	Habitat
01S	San Juan River at Navajo Dam	36°48'28" N	107°36'31" W	San Juan River
02S	San Juan River at hydro plant below Navajo Dam	36°48'21" N	107°36'46" W	San Juan River
03S	San Juan River about 1 mile below Navajo Dam	36°48'56" N	107°37'30" W	San Juan River
04S	San Juan River above Gobernador Canyon	36°48'34" N	107°41'32" W	San Juan River
05S	San Juan River at Archuleta Bridge	36°48'17" N	107°41'57" W	San Juan River
06S	Gobernador Canyon	36°47'43" N	107°42'23" W	San Juan River tributary
07S	San Juan River below Gobernador	36°47'38" N	107°42'49" W	San Juan River
08S	San Juan River below Gobernador	36°47'20" N	107°42'55" W	San Juan River
09S	San Juan River above Cañon Largo	36°43'81" N	107°48'45" W	San Juan River
10S	San Juan River at Blanco Bridge	36°43'27" N	107°48'48" W	San Juan River
11S	San Juan River above Cañon Largo	36°44'05" N	107°49'04" W	San Juan River
12S	San Juan River above Cañon Largo	36°44'52" N	107°49'08" W	San Juan River
13S	San Juan River below Cañon Largo	36°42'19" N	107°50'23" W	San Juan River
14S	San Juan River below Cañon Largo	36°42'18" N	107°50'55" W	San Juan River
15S	Kutz Canyon - 2-mile pond	36°34'54" N	107°55'52" W	Pond
16S	Kutz Canyon - 1-mile pond	36°35'30" N	107°56'36" W	Pond
17S	San Juan River above Bloomfield	36°42'36" N	107°56'47" W	San Juan River
18S	San Juan River below Bloomfield Refinery	36°42'05" N	107°59'06" W	San Juan River
19S	San Juan River at Bloomfield Bridge	36°41'59" N	107°59'11" W	San Juan River

Table 15.--Sampling sites for supplemental water and biological data collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3)	Site name	Site latitude	Site longitude	Habitat
20S	San Juan River above Kutz Wash	36°41'49" N	107°59'47" W	San Juan River
21S	Animas River at Aztec Bridge	36°49'34" N	108°00'08" W	San Juan River tributary
22S	Block 5 - pond	36°32'30" N	108°00'39" W	Pond
23S	San Juan River above Kutz Wash	36°42'08" N	108°00'52" W	San Juan River
24S	San Juan River below Kutz Wash	36°41'19" N	108°03'44" W	San Juan River
25S	San Juan River below Kutz Wash	36°41'24" N	108°04'57" W	San Juan River
26S	San Juan River at Hammond Bridge	36°41'23" N	108°05'42" W	San Juan River
27S	Pond near Gallegos Siphon	36°32'11" N	108°06'18" W	Pond
28S	San Juan River above Gallegos Wash	36°41'43" N	108°06'29" W	San Juan River
29S	Gallegos Canyon	36°41'27" N	108°06'32" W	San Juan River tributary
30S	1-18 pond	36°38'41" N	108°07'02" W	Pond
31S	San Juan River just below Gallegos Wash	36°42'04" N	108°07'16" W	San Juan River
32S	1-25 pond	36°37'56" N	108°07'43" W	Pond
33S	1-25 small pond	36°35'56" N	108°07'47" W	Pond
34S	1-35 pond	36°35'47" N	108°08'02" W	Pond
35S	San Juan River 1 mile below Gallegos Wash	36°41'58" N	108°08'14" W	San Juan River
36S	San Juan River 3 miles below Gallegos Wash	36°42'32" N	108°10'03" W	San Juan River
37S	La Plata River at La Plata Bridge	36°55'44" N	108°11'00" W	San Juan River tributary
38S	Animas River at Flora Vista Bridge	36°43'38" N	108°11'25" W	San Juan River tributary
39S	San Juan River 4 miles below Gallegos Wash	36°42'20" N	108°11'35" W	San Juan River

Table 15.--Sampling sites for supplemental water and biological data collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3)	Site name	Site latitude	Site longitude	Habitat
40S	Animas River at Farmington-Miller Bridge	36°43'13" N	108°12'07" W	San Juan River tributary
41S	San Juan River at Animas	36°42'49" N	108°13'18" W	San Juan River
42S	San Juan River below Animas confluence	36°43'03" N	108°13'19" W	San Juan River
43S	San Juan River at Highway 371 Bridge	36°43'17" N	108°13'25" W	San Juan River
44S	La Plata River at mouth	36°44'23" N	108°14'52" W	San Juan River tributary
45S	San Juan River above Ojo Amarillo	36°44'08" N	108°15'08" W	San Juan River
46S	Ojo Amarillo small pond	36°39'44" N	108°19'00" W	Pond
47S	Ojo Amarillo Pond	36°39'43" N	108°19'06" W	Pond
48S	San Juan River above Ojo Amarillo	36°43'31" N	108°20'29" W	San Juan River
49S	Ojo Amarillo Canyon	36°42'48" N	108°20'35" W	San Juan River tributary
50S	San Juan River below Ojo Amarillo	36°43'38" N	108°21'48" W	San Juan River
51S	San Juan River below Ojo Amarillo	36°43'38" N	108°22'49" W	San Juan River
52S	2-74 pond	36°42'30" N	108°23'43" W	Pond
53S	San Juan River RM 168-167	36°44'06" N	108°23'52" W	San Juan River
54S	San Juan River at Fruitland Bridge (Kirtland)	36°44'21" N	108°24'10" W	San Juan River
55S	San Juan River RM 166.5-166	36°45'06" N	108°24'56" W	San Juan River
56S	San Juan River RM 166-165	36°44'48" N	108°25'23" W	San Juan River
57S	San Juan River RM 165-164	36°44'28" N	108°26'16" W	San Juan River
58S	San Juan River above Hogback Diversion	36°44'43" N	108°32'11" W	San Juan River
59S	Chaco Wash	36°43'15" N	108°34'39" W	San Juan River tributary
60S	San Juan River above Chaco Wash	36°46'15" N	108°37'18" W	San Juan River

Table 15.--Sampling sites for supplemental water and biological data collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Concluded

Site number (fig. 3)	Site name	Site latitude	Site longitude	Habitat
61S	San Juan River below Chaco Wash	36°46'01" N	108°39'53" W	San Juan River
62S	San Juan River below Chaco Wash	36°46'39" N	108°40'57" W	San Juan River
63S	San Juan River at Shiprock Bridge	36°46'51" N	108°41'30" W	San Juan River
64S	San Juan River at Shiprock	36°47'20" N	108°41'44" W	San Juan River
65S	San Juan River below Shiprock	36°47'25" N	108°42'09" W	San Juan River
66S	San Juan River at Cudei	36°50'14" N	108°44'43" W	San Juan River
67S	San Juan River below Cudei	36°52'03" N	108°46'46" W	San Juan River
68S	San Juan River at Mixer above Red Wash	36°53'20" N	108°53'06" W	San Juan River
69S	San Juan River at Mixer	36°53'21" N	108°54'12" W	San Juan River
70S	San Juan River at Mixer below Red Wash	36°54'20" N	108°55'04" W	San Juan River
71S	Mancos River near Four Corners	36°59'15" N	108°57'46" W	San Juan River
72S	San Juan River at Four Corners	37°00'08" N	109°01'54" W	San Juan River

Table 16.--Information for supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95

[N, number of individuals in sample; length, average length of fish in a composite, in centimeters; --, no data; >, greater than]

Sample identification number	Site number (fig. 3, table 15)	Date	Laboratory batch number	Type of sample	Common name	N	Length
001-0363F	02S	04-15-92	2	Whole body	Rainbow trout	1	--
001-0364F	02S	04-15-92	2	Whole body	Rainbow trout	1	--
001-0365F	02S	04-15-92	2	Whole body	Rainbow trout	1	--
049-0507F	02S	02-17-93	3	Whole body	Rainbow trout	1	28
049-0508F	02S	02-17-93	3	Whole body	Rainbow trout	1	46
049-0509F	02S	02-17-93	3	Whole body	Rainbow trout	1	42
002-0366F	03S	04-15-92	2	Whole body	Rainbow trout	1	--
002-0367F	03S	04-15-92	2	Whole body	Rainbow trout	1	--
002-0368F	03S	04-15-92	2	Whole body	Rainbow trout	1	--
002-0369F	03S	04-15-92	2	Whole body	Carp	1	--
002-0370F	03S	04-15-92	2	Whole body	Carp	1	--
075-0651M	03S	02-17-93	3	Whole body	Macroinvertebrates	>1	--
003-0371F	04S	04-15-92	2	Whole body	Rainbow trout	1	--
003-0372F	04S	04-15-92	2	Whole body	Rainbow trout	1	--
003-0373F	04S	04-15-92	2	Whole body	Rainbow trout	1	--
004-0374F	07S	04-15-92	2	Whole body	Rainbow trout	1	--
004-0375F	07S	04-15-92	2	Whole body	Rainbow trout	1	--
004-0376F	07S	04-15-92	2	Whole body	Rainbow trout	1	--
075-0652M	07S	02-17-93	3	Whole body	Macroinvertebrates	>1	--
BGD-0431M	07S	03-15-94	7	Whole body	Macroinvertebrates	>1	--
050-0510F	08S	02-17-93	3	Whole body	Rainbow trout	1	25
050-0511F	08S	02-17-93	3	Whole body	Rainbow trout	1	35
050-0512F	08S	02-17-93	3	Whole body	Rainbow trout	1	24
050-0513F	08S	02-17-93	3	Whole body	Flannelmouth	1	54
050-0514F	08S	02-17-93	3	Whole body	Flannelmouth	1	55
050-0515F	08S	02-17-93	3	Whole body	Flannelmouth	1	53
BGD-0426 F	08S	03-15-94	6	Whole body	Rainbow trout	--	--
BGD-0426 F	08S	03-15-94	6	Whole body	Rainbow trout	--	--
BGD-0426 F	08S	03-15-94	6	Whole body	Rainbow trout	--	--
BGD-0427 F	08S	03-15-94	6	Whole body	Flannelmouth	--	--
BGD-0427 F	08S	03-15-94	6	Whole body	Flannelmouth	--	--
BGD-0427 F	08S	03-15-94	6	Whole body	Flannelmouth	--	--
BGD-0428 F	08S	03-15-94	6	Whole body	Brown trout	--	--
BGD-0428 F	08S	03-15-94	6	Whole body	Brown trout	--	--
BGD-0428 F	08S	03-15-94	6	Whole body	Brown trout	--	--

Table 16.--Information for supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Sample identification number	Site number (fig. 3, table 15)	Date	Laboratory batch number	Type of sample	Common name	N	Length
BGD-0429 F	08S	03-15-94	6	Whole body	Small fish (seined)	>1	--
06-0831F	09S	05-13-91	1	Whole body	Flannelmouth	1	--
07-0832F	09S	05-13-91	1	Whole body	Flannelmouth	1	--
08-0833F	09S	05-13-91	1	Whole body	Flannelmouth	1	--
03-0303F	10S	03-01-94	6	Whole body	Rainbow trout	--	--
03-0304	10S	03-01-94	6	Whole body	Flannelmouth	--	--
03-0305	10S	03-01-94	6	Whole body	Flannelmouth	--	--
03-0306	10S	03-01-94	6	Whole body	Periphyton	>1	--
03-0307	10S	03-01-94	6	Whole body	Small fish (seined)	>1	--
03-0308	10S	03-01-94	6	Whole body	Macroinvertebrates	>1	--
03-0309	10S	03-01-94	6	Whole body	Flannelmouth	--	--
461-2639	10S	09-13-94	8	Whole body	Periphyton	>1	--
461-2640	10S	09-13-94	8	Whole body	Macroinvertebrates	>1	--
461-2641	10S	09-13-94	8	Whole body	Small fish (seined)	>1	--
461-2642	10S	09-13-94	8	Whole body	Small fish (seined)	>1	--
461-2643	10S	09-13-94	8	Whole body	Flannelmouth	--	--
461-2644	10S	09-13-94	8	Whole body	Rainbow trout	--	--
461-2645	10S	09-13-94	8	Whole body	Carp	--	--
01-0826F	11S	05-13-91	1	Whole body	Bluehead	1	--
02-0827F	11S	05-13-91	1	Whole body	Bluehead	1	--
03-0828F	11S	05-13-91	1	Whole body	Carp	1	--
04-0829F	11S	05-13-91	1	Whole body	Carp	1	--
05-0830F	11S	05-13-91	1	Whole body	Carp	1	--
051-0516F	11S	02-17-93	3	Whole body	Flannelmouth	1	51
051-0517F	11S	02-17-93	3	Whole body	Flannelmouth	1	46
051-0518F	11S	02-17-93	3	Whole body	Flannelmouth	1	54
051-0519F	11S	02-17-93	3	Whole body	Rainbow trout	1	22
051-0520F	11S	02-17-93	3	Whole body	Rainbow trout	1	22
051-0521F	11S	02-17-93	3	Whole body	Rainbow trout	1	37
005-0377F	12S	04-15-92	2	Whole body	Flannelmouth	1	--
005-0378F	12S	04-15-92	2	Whole body	Flannelmouth	1	--
005-0379F	12S	04-15-92	2	Whole body	Flannelmouth	1	--
075-0653M	12S	02-17-93	3	Whole body	Macroinvertebrates	>1	--
006-0380F	13S	04-16-92	2	Whole body	Flannelmouth	1	--
006-0381F	13S	04-16-92	2	Whole body	Flannelmouth	1	--

Table 16.--Information for supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Sample identification number	Site number (fig. 3, table 15)	Date	Laboratory batch number	Type of sample	Common name	N	Length
006-0382F	13S	04-16-92	2	Whole body	Flannelmouth	1	--
006-0383F	13S	04-16-92	2	Whole body	Bluehead	1	--
052-0522F	13S	02-16-93	3	Whole body	Flannelmouth	1	52
052-0523F	13S	02-16-93	3	Whole body	Flannelmouth	1	43
052-0524F	13S	02-16-93	3	Whole body	Flannelmouth	1	43
075-0654M	13S	02-16-93	3	Whole body	Macroinvertebrates	>1	--
09-0834F	13S	05-13-91	1	Whole body	Flannelmouth	1	--
10-0835F	13S	05-13-91	1	Whole body	Flannelmouth	1	--
11-0836F	13S	05-13-91	1	Whole body	Flannelmouth	1	--
12-0837F	14S	05-13-91	1	Whole body	Bluehead	1	--
13-0838F	14S	05-13-91	1	Whole body	Bluehead	1	--
14-0839F	14S	05-13-91	1	Whole body	Bluehead	1	--
82-0907F	15S	05-13-91	1	Whole body	Western mosquitofish	>1	--
79-0904F	16S	05-13-91	1	Whole body	Banded killifish	>1	--
80-0905F	16S	05-13-91	1	Whole body	Flathead minnow	>1	--
81-0906F	16S	05-13-91	1	Whole body	Western mosquitofish	>1	--
15-0840F	17S	05-13-91	1	Whole body	Flannelmouth	1	--
16-0841F	17S	05-13-91	1	Whole body	Flannelmouth	1	--
17-0842F	17S	05-13-91	1	Whole body	Flannelmouth	1	--
18-0843F	17S	05-13-91	1	Whole body	Bluehead	1	--
19-0844F	17S	05-13-91	1	Whole body	Bluehead	1	--
20-0845F	17S	05-13-91	1	Whole body	Bluehead	1	--
055-0537F	18S	02-18-93	3	Whole body	Flannelmouth	1	32
055-0538F	18S	02-18-93	3	Whole body	Flannelmouth	1	31
055-0539F	18S	02-18-93	3	Whole body	Flannelmouth	1	30
055-0540F	18S	02-18-93	3	Whole body	Bluehead	1	37
055-0541F	18S	02-18-93	3	Whole body	Bluehead	1	34
055-0542F	18S	02-18-93	3	Whole body	Bluehead	1	40
055-0543F	18S	02-18-93	3	Whole body	Rainbow trout	1	29
055-0544F	18S	02-18-93	3	Whole body	Rainbow trout	1	28
055-0545F	18S	02-18-93	3	Whole body	Rainbow trout	1	26
075-0657M	18S	02-18-93	3	Whole body	Macroinvertebrates	>1	--
462-2650	19S	09-13-94	8	Whole body	Flannelmouth	--	--
04-0310	20S	03-01-94	6	Whole body	Flannelmouth	--	--
04-0311	20S	03-01-94	6	Whole body	Carp	--	--

Table 16.--Information for supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Sample identification number	Site number (fig. 3, table 15)	Date	Laboratory batch number	Type of sample	Common name	N	Length
04-0312	20S	03-01-94	6	Whole body	Rainbow trout	--	--
04-0313	20S	03-01-94	6	Whole body	Periphyton	>1	--
04-0314	20S	03-01-94	6	Whole body	Macroinvertebrates	>1	--
04-0315	20S	03-01-94	6	Whole body	Small fish (seined)	>1	--
053-0525F	20S	02-16-93	3	Whole body	Flannelmouth	1	41
053-0526F	20S	02-16-93	3	Whole body	Flannelmouth	1	43
053-0527F	20S	02-16-93	3	Whole body	Flannelmouth	1	42
053-0528F	20S	02-16-93	3	Whole body	Bluehead	1	38
053-0529F	20S	02-16-93	3	Whole body	Bluehead	1	38
053-0530F	20S	02-16-93	3	Whole body	Bluehead	1	39
462-2646	20S	09-13-94	8	Whole body	Periphyton	>1	--
462-2647	20S	09-13-94	8	Whole body	Macroinvertebrates	>1	--
462-2648	20S	09-13-94	8	Whole body	Small fish (seined)	>1	--
462-2649	20S	09-13-94	8	Whole body	Small fish (seined)	>1	--
462-2651	20S	09-13-94	8	Whole body	Bluehead	--	--
462-2652	20S	09-13-94	8	Whole body	Carp	--	--
83-0908F	22S	05-13-91	1	Whole body	Western mosquitofish	>1	--
007-0384F	23S	04-16-92	2	Whole body	Flannelmouth	1	--
007-0385F	23S	04-16-92	2	Whole body	Flannelmouth	1	--
007-0386F	23S	04-16-92	2	Whole body	Flannelmouth	1	--
075-0655M	23S	02-16-93	3	Whole body	Macroinvertebrates	>1	--
054-0531F	24S	02-18-93	3	Whole body	Flannelmouth	1	--
054-0532F	24S	02-18-93	3	Whole body	Flannelmouth	1	--
054-0533F	24S	02-18-93	3	Whole body	Flannelmouth	1	--
054-0534F	24S	02-18-93	3	Whole body	Bluehead	1	--
054-0535F	24S	02-18-93	3	Whole body	Bluehead	1	--
054-0536F	24S	02-18-93	3	Whole body	Bluehead	1	--
21-0846F	24S	05-13-91	1	Whole body	Flannelmouth	1	--
22-0847F	24S	05-13-91	1	Whole body	Flannelmouth	1	--
23-0848F	24S	05-13-91	1	Whole body	Flannelmouth	1	--
24-0849F	24S	05-13-91	1	Whole body	Bluehead	1	--
25-0850F	24S	05-13-91	1	Whole body	Bluehead	1	--
26-0851F	24S	05-13-91	1	Whole body	Bluehead	1	--
008-0387F	25S	04-16-92	2	Whole body	Flannelmouth	1	--
008-0388F	25S	04-16-92	2	Whole body	Flannelmouth	1	--

Table 16.--Information for supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Sample identification number	Site number (fig. 3, table 15)	Date	Laboratory batch number	Type of sample	Common name	N	Length
008-0389F	25S	04-16-92	2	Whole body	Flannelmouth	1	--
008-0390F	25S	04-16-92	2	Whole body	Bluehead	1	--
008-0391F	25S	04-16-92	2	Whole body	Bluehead	1	--
008-0392F	25S	04-16-92	2	Whole body	Bluehead	1	--
075-0656M	25S	02-18-93	3	Whole body	Macroinvertebrates	>1	--
119-0591A	27S	05-20-92	2	Whole body	Tiger salamander	1	--
120-0596A	27S	05-20-92	2	Whole body	Macroinvertebrates	>1	--
AG-0414	28S	03-07-94	6	Whole body	Bluehead		--
AG-0415	28S	03-07-94	6	Whole body	Flannelmouth		--
AG-04416	28S	03-07-94	6	Whole body	Macroinvertebrates	>1	--
AG-0417	28S	03-07-94	6	Whole body	Macroinvertebrates	>1	--
070-0634M	30S	10-07-92	4	Whole body	Macroinvertebrates	>1	--
071-0636M	30S	10-28-92	4	Whole body	Macroinvertebrates	>1	--
072-0640M	30S	03-23-93	4	Whole body	Macroinvertebrates	>1	--
074-0648A	30S	03-22-93	3	Whole body	Tiger salamander	1	--
119-0586A	30S	05-20-92	2	Whole body	Tiger salamander	1	--
120-0593A	30S	05-20-92	2	Whole body	Macroinvertebrates	>1	--
259-2099M	30S	11-04-93	5	Whole body	Macroinvertebrates	>1	--
260-2103A	30S	11-04-93	5	Whole body	Tiger salamander	1	--
392-1495M	30S	03-22-94	7	Whole body	Macroinvertebrates	>1	--
392-1500A	30S	03-22-94	7	Whole body	Tiger salamander	1	--
544-2375A	30S	04-10-95	9	Whole body	Tiger salamander	1	--
009-0393F	31S	04-16-92	2	Whole body	Flannelmouth	1	--
009-0394F	31S	04-16-92	2	Whole body	Flannelmouth	1	--
009-0395F	31S	04-16-92	2	Whole body	Flannelmouth	1	--
009-0396F	31S	04-16-92	2	Whole body	Bluehead	1	--
009-0397F	31S	04-16-92	2	Whole body	Bluehead	1	--
009-0398F	31S	04-16-92	2	Whole body	Bluehead	1	--
056-0546F	31S	02-18-93	3	Whole body	Flannelmouth	1	27
056-0547F	31S	02-18-93	3	Whole body	Flannelmouth	1	27
056-0548F	31S	02-18-93	3	Whole body	Flannelmouth	1	45
056-0549F	31S	02-18-93	3	Whole body	Bluehead	1	40
056-0550F	31S	02-18-93	3	Whole body	Bluehead	1	36
056-0551F	31S	02-18-93	3	Whole body	Bluehead	1	44
075-0658M	31S	02-18-93	3	Whole body	Macroinvertebrates	>1	--

Table 16.--Information for supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Sample identification number	Site number (fig. 3, table 15)	Date	Laboratory batch number	Type of sample	Common name	N	Length
27-0852F	31S	05-13-91	1	Whole body	Flannelmouth	1	--
28-0853F	31S	05-13-91	1	Whole body	Flannelmouth	1	--
29-0854F	31S	05-13-91	1	Whole body	Flannelmouth	1	--
30-0855F	31S	05-13-91	1	Whole body	Bluehead	1	--
31-0856F	31S	05-13-91	1	Whole body	Bluehead	1	--
32-0857F	31S	05-13-91	1	Whole body	Bluehead	1	--
BG-0418	31S	03-07-94	6	Whole body	Flannelmouth	--	--
BG-0419	31S	03-07-94	6	Whole body	Bluehead	--	--
BG-0420	31S	03-07-94	6	Whole body	Macroinvertebrates	>1	--
BG-0421	31S	03-07-94	6	Whole body	Macroinvertebrates	>1	--
070-0632M	32S	10-07-92	4	Whole body	Macroinvertebrates	>1	--
072-0638M	32S	03-23-93	4	Whole body	Macroinvertebrates	>1	--
073-0643A	32S	10-07-92	3	Whole body	Tiger salamander	1	--
074-0647A	32S	03-23-93	3	Whole body	Tiger salamander	1	--
119-0587A	32S	05-20-92	2	Whole body	Tiger salamander	1	--
120-0594A	32S	05-20-92	2	Whole body	Macroinvertebrates	>1	--
259-2100M	32S	11-04-93	5	Whole body	Macroinvertebrates	>1	--
260-2104A	32S	11-04-93	5	Whole body	Tiger salamander	1	--
392-1496M	32S	03-22-94	7	Whole body	Macroinvertebrates	>1	--
392-1501A	32S	03-22-94	7	Whole body	Tiger salamander	1	--
526-2273A	32S	09-22-94	9	Whole body	Tiger salamander	1	--
544-2377A	32S	05-01-95	9	Whole body	Tiger salamander	1	--
119-0589A	33S	05-20-92	2	Whole body	Tiger salamander	1	--
120-0595A	33S	05-20-92	2	Whole body	Macroinvertebrates	>1	--
070-0633M	34S	10-07-92	4	Whole body	Macroinvertebrates	>1	--
072-0639M	34S	03-23-93	4	Whole body	Macroinvertebrates	>1	--
073-0644A	34S	10-23-92	3	Whole body	Tiger salamander	1	--
074-0646A	34S	03-19-93	3	Whole body	Tiger salamander	1	--
259-2101M	34S	11-04-93	5	Whole body	Macroinvertebrates	>1	--
260-2105A	34S	11-04-93	5	Whole body	Tiger salamander	1	--
392-1497M	34S	03-22-94	7	Whole body	Macroinvertebrates	>1	--
392-1502A	34S	04-05-94	7	Whole body	Tiger salamander	1	--
544-2379A	34S	03-31-95	9	Whole body	Tiger salamander	1	--
33-0858F	35S	05-13-91	1	Whole body	Bluehead	1	--
34-0859F	35S	05-13-91	1	Whole body	Bluehead	1	--

Table 16.--Information for supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Sample identification number	Site number (fig. 3, table 15)	Date	Laboratory batch number	Type of sample	Common name	N	Length
35-0860F	36S	05-13-91	1	Whole body	Flathead minnow	1	--
36-0861F	36S	05-13-91	1	Whole body	Flathead minnow	1	--
37-0862F	36S	05-13-91	1	Whole body	Flathead minnow	1	--
38-0863F	36S	05-13-91	1	Whole body	Speckled dace	1	--
39-0864F	36S	05-13-91	1	Whole body	Speckled dace	1	--
40-0865F	36S	05-13-91	1	Whole body	Speckled dace	1	--
41-0866F	39S	05-13-91	1	Whole body	Bluehead	1	--
42-0867F	39S	05-13-91	1	Whole body	Bluehead	1	--
43-0868F	39S	05-13-91	1	Whole body	Bluehead	1	--
44-0869F	39S	05-13-91	1	Whole body	Flannelmouth	1	--
45-0870F	39S	05-13-91	1	Whole body	Flannelmouth	1	--
46-0871F	39S	05-13-91	1	Whole body	Flannelmouth	1	--
05-O318	41S	03-02-94	6	Whole body	Flannelmouth	--	--
05-O319	41S	03-02-94	6	Whole body	Bluehead	--	--
05-O320	41S	03-02-94	6	Whole body	Small fish (seined)	>1	--
05-O321	41S	03-02-94	6	Whole body	Small fish (seined)	>1	--
05-O322	41S	03-02-94	6	Whole body	Macroinvertebrates	>1	--
05-O323	41S	03-02-94	6	Whole body	Periphyton	>1	--
05-O324	41S	03-02-94	6	Whole body	Rainbow trout		--
463-2653	41S	09-13-94	8	Whole body	Periphyton	>1	--
463-2654	41S	09-13-94	8	Whole body	Macroinvertebrates	>1	--
463-2655	41S	09-13-94	8	Whole body	Small fish (seined)	>1	--
463-2656	41S	09-13-94	8	Whole body	Flannelmouth	--	--
463-2657	41S	09-13-94	8	Whole body	Bluehead	--	--
057-0552F	42S	02-18-93	3	Whole body	Flannelmouth	1	31
057-0553F	42S	02-18-93	3	Whole body	Flannelmouth	1	37
057-0554F	42S	02-18-93	3	Whole body	Flannelmouth	1	46
057-0555F	42S	02-18-93	3	Whole body	Bluehead	1	41
057-0556F	42S	02-18-93	3	Whole body	Bluehead	1	37
057-0557F	42S	02-18-93	3	Whole body	Bluehead	1	38
05-O316	43S	03-01-94	6	Whole body	Flannelmouth	--	--
05-O317	43S	03-01-94	6	Whole body	Flannelmouth	--	--
06-O325	43S	03-02-94	6	Whole body	Small fish (seined)	>1	--
06-O326	43S	03-02-94	6	Whole body	Macroinvertebrates	>1	--
06-O327	43S	03-02-94	6	Whole body	Periphyton	>1	--

Table 16.--Information for supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Sample identification number	Site number (fig. 3, table 15)	Date	Laboratory batch number	Type of sample	Common name	N	Length
075-0659M	43S	03-03-93	3	Whole body	Macroinvertebrates	>1	--
464-2658	43S	09-13-94	8	Whole body	Periphyton	>1	--
464-2659	43S	09-13-94	8	Whole body	Macroinvertebrates	>1	--
464-2660	43S	09-13-94	8	Whole body	Small fish (seined)	>1	--
464-2661	43S	09-13-94	8	Whole body	Flannelmouth	--	--
464-2662	43S	09-13-94	8	Whole body	Bluehead	--	--
47-0872F	45S	05-13-91	1	Whole body	Flannelmouth	1	--
48-0873F	45S	05-13-91	1	Whole body	Flannelmouth	1	--
49-0874F	45S	05-13-91	1	Whole body	Flannelmouth	1	--
50-0875F	45S	05-13-91	1	Whole body	Bluehead	1	--
51-0876F	45S	05-13-91	1	Whole body	Bluehead	1	--
52-0877F	45S	05-13-91	1	Whole body	Bluehead	1	--
072-0641M	46S	03-23-93	4	Whole body	Macroinvertebrates	>1	--
074-0649A	46S	03-16-93	3	Whole body	Tiger salamander	1	--
070-0635M	47S	10-07-92	4	Whole body	Macroinvertebrates	>1	--
071-0637M	47S	10-28-92	4	Whole body	Macroinvertebrates	>1	--
072-0642M	47S	03-23-93	4	Whole body	Macroinvertebrates	>1	--
073-0645A	47S	10-28-92	3	Whole body	Tiger salamander	1	--
074-0650A	47S	03-17-93	3	Whole body	Tiger salamander	1	--
119-0590A	47S	05-20-92	2	Whole body	Tiger salamander	1	--
259-2102M	47S	11-04-93	5	Whole body	Macroinvertebrates	>1	--
260-2106A	47S	11-04-93	5	Whole body	Tiger salamander	1	--
392-1498M	47S	03-22-94	7	Whole body	Macroinvertebrates	>1	--
526-2270A	47S	11-30-94	9	Whole body	Tiger salamander	1	--
010-0399F	48S	04-17-92	2	Whole body	Flannelmouth	1	--
010-0400F	48S	04-17-92	2	Whole body	Flannelmouth	1	--
010-0401F	48S	04-17-92	2	Whole body	Flannelmouth	1	--
010-0402F	48S	04-17-92	2	Whole body	Bluehead	1	--
010-0403F	48S	04-17-92	2	Whole body	Bluehead	1	--
010-0404F	48S	04-17-92	2	Whole body	Bluehead	1	--
53-0878F	50S	05-13-91	1	Whole body	Flannelmouth	1	--
54-0879F	50S	05-13-91	1	Whole body	Flannelmouth	1	--
55-0880F	50S	05-13-91	1	Whole body	Flannelmouth	1	--
56-0881F	50S	05-13-91	1	Whole body	Bluehead	1	--
57-0882F	50S	05-13-91	1	Whole body	Bluehead	1	--

Table 16.--Information for supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Sample identification number	Site number (fig. 3, table 15)	Date	Laboratory batch number	Type of sample	Common name	N	Length
58-0883F	50S	05-13-91	1	Whole body	Bluehead	1	--
011-0405F	51S	04-14-92	2	Whole body	Flannelmouth	1	--
011-0406F	51S	04-14-92	2	Whole body	Flannelmouth	1	--
011-0407F	51S	04-14-92	2	Whole body	Flannelmouth	1	--
B0-0411	51S	03-09-94	6	Whole body	Channel catfish	--	--
B0-0412	51S	03-09-94	6	Whole body	Bluehead	--	--
B0-0413	51S	03-09-94	6	Whole body	Flannelmouth	--	--
B0-0422	51S	03-09-94	6	Whole body	Macroinvertebrates	>1	--
392-1499F	52S	03-22-94	7	Whole body	Small fish (seined)	>1	--
134-0672 F	53S	04-13-94	6	Whole body	Bluehead	--	--
134-0672 F	53S	04-13-94	6	Whole body	Bluehead	--	--
134-0672 F	53S	04-13-94	6	Whole body	Bluehead	--	--
135-0673 F	53S	04-13-94	6	Whole body	Flannelmouth	--	--
135-0673 F	53S	04-13-94	6	Whole body	Flannelmouth	--	--
135-0673 F	53S	04-13-94	6	Whole body	Flannelmouth	--	--
136-0674 F	53S	04-13-94	6	Whole body	Bluehead	--	--
136-0674 F	53S	04-13-94	6	Whole body	Bluehead	--	--
136-0674 F	53S	04-13-94	6	Whole body	Bluehead	--	--
137-0675 F	53S	04-13-94	6	Whole body	Bluehead	--	--
137-0675 F	53S	04-13-94	6	Whole body	Bluehead	--	--
137-0675 F	53S	04-13-94	6	Whole body	Bluehead	--	--
59-0884F	53S	05-13-91	1	Whole body	Flannelmouth	1	--
60-0885F	53S	05-13-91	1	Whole body	Bluehead	1	--
61-0886F	53S	05-13-91	1	Whole body	Bluehead	1	--
62-0887F	53S	05-13-91	1	Whole body	Bluehead	1	--
63-0888F	53S	05-13-91	1	Whole body	Speckled dace	1	--
64-0889F	53S	05-13-91	1	Whole body	Speckled dace	1	--
65-0890F	53S	05-13-91	1	Whole body	Speckled dace	1	--
66-0891F	53S	05-13-91	1	Whole body	Flannelmouth	1	--
132-0670-F	55S	04-13-94	6	Whole body	Flannelmouth	--	--
132-0670-F	55S	04-13-94	6	Whole body	Flannelmouth	--	--
132-0670-F	55S	04-13-94	6	Whole body	Flannelmouth	--	--
133-0671 F	55S	04-13-94	6	Whole body	Bluehead	--	--
133-0671 F	55S	04-13-94	6	Whole body	Bluehead	--	--
133-0671 F	55S	04-13-94	6	Whole body	Bluehead	--	--

Table 16.--Information for supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Sample identification number	Site number (fig. 3, table 15)	Date	Laboratory batch number	Type of sample	Common name	N	Length
138-0676 F	56S	04-13-94	6	Whole body	Flannelmouth	--	--
138-0676 F	56S	04-13-94	6	Whole body	Flannelmouth	--	--
138-0676 F	56S	04-13-94	6	Whole body	Flannelmouth	--	--
139-0677 F	57S	04-12-94	6	Whole body	Bluehead	--	--
139-0677 F	57S	04-12-94	6	Whole body	Bluehead	--	--
139-0677 F	57S	04-12-94	6	Whole body	Bluehead	--	--
140-0678 F	57S	04-12-94	6	Whole body	Flannelmouth	--	--
140-0678 F	57S	04-12-94	6	Whole body	Flannelmouth	--	--
140-0678 F	57S	04-12-94	6	Whole body	Flannelmouth	--	--
058-0558F	60S	02-15-93	3	Whole body	Flannelmouth	1	34
058-0559F	60S	02-15-93	3	Whole body	Flannelmouth	1	44
058-0560F	60S	02-15-93	3	Whole body	Flannelmouth	1	40
058-0561F	60S	02-15-93	3	Whole body	Bluehead	1	32
058-0562F	60S	02-15-93	3	Whole body	Bluehead	1	41
058-0563F	60S	02-15-93	3	Whole body	Bluehead	1	42
075-0660M	60S	02-15-93	3	Whole body	Macroinvertebrates	>1	--
059-0564F	61S	02-15-93	3	Whole body	Flannelmouth	1	30
059-0565F	61S	02-15-93	3	Whole body	Flannelmouth	1	48
059-0566F	61S	02-15-93	3	Whole body	Flannelmouth	1	31
059-0567F	61S	02-15-93	3	Whole body	Bluehead	1	27
059-0568F	61S	02-15-93	3	Whole body	Bluehead	1	30
059-0569F	61S	02-15-93	3	Whole body	Bluehead	1	33
075-0661M	61S	02-15-93	3	Whole body	Macroinvertebrates	>1	--
012-0408F	62S	04-14-92	2	Whole body	Flannelmouth	1	--
012-0409F	62S	04-14-92	2	Whole body	Flannelmouth	1	--
012-0410F	62S	04-14-92	2	Whole body	Flannelmouth	1	--
67-0892F	62S	05-13-91	1	Whole body	Flannelmouth	1	--
68-0893F	62S	05-13-91	1	Whole body	Flannelmouth	1	--
69-0894F	62S	05-13-91	1	Whole body	Flannelmouth	1	--
70-0895F	62S	05-13-91	1	Whole body	Carp	1	--
71-0896F	62S	05-13-91	1	Whole body	Carp	1	--
72-0897F	62S	05-13-91	1	Whole body	Carp	1	--
08-0330	63S	03-02-94	6	Whole body	Carp	--	--
08-0334	63S	03-02-94	6	Whole body	Macroinvertebrates	>1	--
08-0328	64S	03-02-94	6	Whole body	Channel catfish	--	--

Table 16.--Information for supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Sample identification number	Site number (fig. 3, table 15)	Date	Laboratory batch number	Type of sample	Common name	N	Length
08-0329	64S	03-02-94	6	Whole body	Channel catfish	--	--
08-0331	64S	03-02-94	6	Whole body	Flannelmouth	--	--
08-0332	64S	03-02-94	6	Whole body	Flannelmouth	--	--
08-0333	64S	03-02-94	6	Whole body	White sucker	--	--
08-0335	64S	03-02-94	6	Whole body	Periphyton	>1	--
08-0336	64S	03-02-94	6	Whole body	Small fish (seined)	>1	--
465-2663	64S	09-14-94	8	Whole body	Periphyton	>1	--
465-2664	64S	09-14-94	8	Whole body	Macroinvertebrates	>1	--
465-2665	64S	09-14-94	8	Whole body	Small fish (seined)	>1	--
465-2666	64S	09-14-94	8	Whole body	Flannelmouth	--	--
465-2667	64S	09-14-94	8	Whole body	Bluehead	--	--
465-2668	64S	09-14-94	8	Whole body	Channel catfish	--	--
465-2669	64S	09-14-94	8	Whole body	Carp	--	--
465-2670	64S	09-14-94	8	Whole body	Carp	--	--
060-0570F	65S	02-22-93	3	Whole body	Flannelmouth	1	46
060-0571F	65S	02-22-93	3	Whole body	Flannelmouth	1	48
060-0572F	65S	02-22-93	3	Whole body	Flannelmouth	1	42
060-0573F	65S	02-22-93	3	Whole body	Bluehead	1	13
060-0574F	65S	02-22-93	3	Whole body	Bluehead	1	27
060-0575F	65S	02-22-93	3	Whole body	Bluehead	1	28
060-0576F	65S	02-22-93	3	Whole body	Channel catfish	1	41
060-0577F	65S	02-22-93	3	Whole body	Channel catfish	1	52
060-0578F	65S	02-22-93	3	Whole body	Channel catfish	1	37
075-0662M	65S	02-22-93	3	Whole body	Macroinvertebrates	>1	--
09-0337	66S	03-02-94	6	Whole body	Carp	--	--
09-0338	66S	03-02-94	6	Whole body	Channel catfish	--	--
09-0339	66S	03-02-94	6	Whole body	Flannelmouth	--	--
09-0340	66S	03-02-94	6	Whole body	Small fish (seined)	>1	--
09-0341	66S	03-02-94	6	Whole body	Macroinvertebrates	>1	--
09-0342	66S	03-02-94	6	Whole body	Periphyton	>1	--
466-2671	66S	09-14-94	8	Whole body	Periphyton	>1	--
466-2672	66S	09-14-94	8	Whole body	Macroinvertebrates	>1	--
466-2673	66S	09-14-94	8	Whole body	Small fish (seined)	>1	--
466-2674	66S	09-14-94	8	Whole body	Bluehead	--	--
466-2675	66S	09-14-94	8	Whole body	Carp	--	--

Table 16.--Information for supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Sample identification number	Site number (fig. 3, table 15)	Date	Laboratory batch number	Type of sample	Common name	N	Length
466-2676	66S	09-14-94	8	Whole body	Channel catfish	--	--
466-2677	66S	09-14-94	8	Whole body	Flannelmouth	--	--
061-0579F	67S	02-22-93	3	Whole body	Flannelmouth	1	41
061-0580F	67S	02-22-93	3	Whole body	Flannelmouth	1	40
061-0581F	67S	02-22-93	3	Whole body	Flannelmouth	1	36
061-0582F	67S	02-22-93	3	Whole body	Bluehead	1	26
061-0583F	67S	02-22-93	3	Whole body	Bluehead	1	32
061-0584F	67S	02-22-93	3	Whole body	Bluehead	1	40
075-0663M	67S	02-22-93	3	Whole body	Macroinvertebrates	>1	--
062-0585F	68S	02-22-93	3	Whole body	Flannelmouth	1	33
062-0586F	68S	02-22-93	3	Whole body	Flannelmouth	1	28
062-0587F	68S	02-22-93	3	Whole body	Flannelmouth	1	31
062-0588F	68S	02-22-93	3	Whole body	Bluehead	1	24
062-0589F	68S	02-22-93	3	Whole body	Bluehead	1	33
062-0590F	68S	02-22-93	3	Whole body	Bluehead	1	22
10-0343	69S	03-02-94	6	Whole body	Flannelmouth	--	--
10-0345	69S	03-02-94	6	Whole body	Macroinvertebrates	>1	--
10-0346	69S	03-02-94	6	Whole body	Periphyton	>1	--
10-0347	69S	03-02-94	6	Whole body	Small fish (seined)	>1	--
10-0348	69S	03-02-94	6	Whole body	Macroinvertebrates	>1	--
10-0408	69S	03-08-94	6	Whole body	Bluehead	--	--
10-0409	69S	03-08-94	6	Whole body	Channel catfish	--	--
10-0410	69S	03-08-94	6	Whole body	Flannelmouth	--	--
467-2678	69S	09-14-94	8	Whole body	Periphyton	>1	--
467-2680	69S	09-14-94	8	Whole body	Small fish (seined)	>1	--
467-2681	69S	09-14-94	8	Whole body	Small fish (seined)	>1	--
467-2682	69S	09-14-94	8	Whole body	Flannelmouth	--	--
467-2683	69S	09-14-94	8	Whole body	Bluehead	--	--
063-0591F	70S	02-22-93	3	Whole body	Flannelmouth	1	25
063-0592F	70S	02-22-93	3	Whole body	Flannelmouth	1	33
063-0593F	70S	02-22-93	3	Whole body	Flannelmouth	1	33
063-0594F	70S	02-22-93	3	Whole body	Bluehead	1	34
063-0595F	70S	02-22-93	3	Whole body	Bluehead	1	29
063-0596F	70S	02-22-93	3	Whole body	Bluehead	1	24
11-0349	71S	03-02-94	6	Whole body	Macroinvertebrates	>1	--

Table 16.--Information for supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Concluded

Sample identification number	Site number (fig. 3, table 15)	Date	Laboratory batch number	Type of sample	Common name	N	Length
11-0350	71S	03-02-94	6	Whole body	Macroinvertebrates	>1	--
11-0351	71S	03-02-94	6	Whole body	Bluehead	--	--
11-0352	71S	03-02-94	6	Whole body	Small fish (seined)	>1	--
12-0353	72S	03-02-94	6	Whole body	Flannelmouth	--	--
12-0354	72S	03-02-94	6	Whole body	Flannelmouth	--	--
12-0355	72S	03-02-94	6	Whole body	Macroinvertebrates	>1	--
12-0356	72S	03-02-94	6	Whole body	Small fish (seined)	>1	--
12-0357	72S	03-02-94	6	Whole body	Periphyton	>1	--
468-2684	72S	09-14-94	8	Whole body	Periphyton	>1	--
468-2685	72S	09-14-94	8	Whole body	Macroinvertebrates	>1	--
468-2686	72S	09-14-94	8	Whole body	Small fish (seined)	>1	--
468-2687	72S	09-14-94	8	Whole body	Flannelmouth	--	--
468-2688	72S	09-14-94	8	Whole body	Bluehead	--	--

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95

[µS/cm, microsiemens per centimeter at 25 degrees Celsius (°C); mv, millivolts; NTU, nephelometric turbidity units; mg/L, milligrams per liter; <, less than; --, no data]

Site number (fig. 3, table 15)	Date	Time	Specific conductance (µS/cm)	pH, field (standard units)	Reduction-oxidation potential (mv)	Temperature, water (°C)	Turbidity (NTU)	Oxygen, dissolved (mg/L)	Solids, total suspended (mg/L)	Arsenic, total (mg/L)	Arsenic, dissolved (mg/L)	Lead, total (mg/L)	Lead, dissolved (mg/L)
1S	04-20-94	1355	242	7.9	344	13.6	--	--	--	<0.001	<0.001	0.0007	<0.0001
1S	05-16-94	1615	282	7.3	324	16.4	4.5	6.5	14	<0.001	0.001	<0.0004	<0.0002
1S	06-13-94	1750	232	8.1	336	19.1	1.5	6.3	<2	0.002	0.001	0.0003	<0.0001
1S	07-18-94	1630	238	7.8	298	22.6	3.2	6.1	6	0.002	0.001	0.0105	<0.0001
1S	08-29-94	1530	231	8.3	298	24.4	11.3	3.1	18	<0.001	<0.001	0.0006	<0.0001
1S	09-19-94	1545	228	8.1	359	21.4	0.8	3.8	<2	0.001	0.001	0.0003	<0.0001
1S	10-17-94	1710	225	7.9	405	14.5	1.69	6.4	<5	<0.002	<0.001	<0.0002	<0.0001
1S	11-29-94	1310	218	8.0	290	10.2	3.6	5.7	<5	<0.002	<0.001	<0.0004	<0.0002
1S	12-19-94	1500	220	8.6	274	8.0	5	10.1	10	<0.002	<0.002	0.0007	<0.0004
1S	01-23-95	1415	265	7.8	321	6.4	5.5	8.6	6	<0.002	<0.002	<0.0004	<0.0004
1S	02-21-95	1400	220	7.8	363	7.1	4.5	11.1	6	<0.002	0.001	<0.0004	<0.0002
1S	03-27-95	1600	235	7.9	464	8.7	9.6	9.4	10	<0.002	<0.002	0.0005	<0.0004
2S	04-20-94	1420	297	7.4	348	5.6	--	--	--	<0.001	0.001	0.0011	<0.0001
2S	05-16-94	1630	298	7.5	409	7.4	4.9	8.3	<2	<0.001	0.001	<0.0004	<0.0002
2S	06-13-94	1820	248	8.2	340	6.7	5.4	11.6	8	0.001	0.001	0.0018	<0.0001
2S	07-18-94	1650	284	7.5	334	7.0	2.2	9.0	6	0.001	0.001	0.0004	<0.0001
2S	08-29-94	1500	260	7.7	307	7.7	2	4.6	2	<0.001	<0.001	0.0009	<0.0001
2S	09-19-94	1515	279	7.7	380	7.8	1.1	5.6	<2	0.001	0.001	0.0004	<0.0001
2S	10-17-94	1730	349	7.7	413	7.3	4.8	8.3	<5	<0.002	<0.001	0.0002	<0.0001
2S	11-29-94	1330	360	7.8	313	7.3	4.6	8.1	<5	<0.002	<0.001	<0.0004	<0.0002
2S	12-19-94	1440	260	8.6	246	5.6	8.6	12.1	8	<0.002	<0.002	<0.0004	<0.0004
2S	01-23-95	1345	366	8.0	311	6.2	6.9	10.2	8	<0.002	<0.002	<0.0004	<0.0004
2S	02-21-95	1320	403	8.0	380	7.2	4	12.6	<5	<0.002	0.001	<0.0004	<0.0002
2S	03-27-95	1530	284	7.9	468	5.4	34	10.4	20	<0.002	<0.002	0.001	<0.0004
5S	04-19-94	1445	283	8.1	394	8.7	--	--	--	<0.001	0.001	0.0009	0.0001

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Specific conductance (µS/cm)	pH, field (standard units)	Reduction-oxidation potential (mv)	Temperature, water (°C)	Turbidity (NTU)	Oxygen, dissolved (mg/L)	Solids, total suspended (mg/L)	Arsenic, total (mg/L)	Arsenic, dissolved (mg/L)	Lead, total (mg/L)	Lead, dissolved (mg/L)
5S	05-16-94	1715	278	7.9	385	7.2	6.8	9.2	14	<0.001	0.001	0.0013	<0.0002
5S	06-13-94	1845	239	8.3	335	7.8	2.9	11.9	<2	0.642	0.001	0.0030	<0.0001
5S	07-18-94	1745	242	8.4	322	8.9	4.2	10.9	12	0.001	<0.001	0.0067	<0.0001
5S	08-29-94	1630	236	8.9	283	12.8	1.8	5.4	2	0.001	0.001	<0.0002	<0.0001
5S	09-19-94	1700	241	8.9	309	12.3	1.3	5.5	<2	<0.001	0.001	0.0002	<0.0001
5S	10-17-94	1815	245	8.5	367	7.6	1.9	10.8	<5	<0.002	<0.001	<0.0002	<0.0001
5S	11-29-94	1400	251	8.9	281	6.1	3	11.5	<5	<0.002	<0.001	<0.0004	<0.0002
5S	12-19-94	1610	245	8.7	223	6.7	7	11.5	6	<0.002	<0.002	0.0006	<0.0004
5S	01-15-95	1330	240	8.6	450	6.0	6	11.4	<5	<0.002	<0.002	<0.0004	<0.0004
5S	02-21-95	1500	236	8.6	313	8.1	6.5	14.1	8	<0.002	0.002	0.0013	<0.0002
5S	03-27-95	1700	254	8.4	444	7.0	33	11.1	<5	<0.002	<0.002	0.0011	<0.0004
6S	04-20-94	1320	1,090	7.5	305	18.9	--	--	--	0.002	0.001	0.0005	<0.0001
6S	05-16-94	1540	1,230	7.5	352	22.1	2.1	4.3	8	<0.001	0.001	<0.0004	<0.0002
6S	06-13-94	1705	1,220	7.8	324	24.9	0.8	5.9	6	0.002	0.002	0.0002	<0.0001
6S	07-18-94	1600	1,140	7.2	299	20.2	6.7	4.4	32	0.003	0.004	0.0004	0.0003
6S	08-29-94	1600	1,260	7.8	224	23.3	0.5	3.3	<2	<0.001	0.001	<0.0002	<0.0001
6S	09-19-94	1630	1,360	7.8	355	22.2	1.2	4.1	<2	0.002	0.002	0.0004	0.0001
6S	10-17-94	1630	1,330	7.7	419	11.0	3	6.7	<5	<0.002	0.002	<0.0002	<0.0001
6S	11-29-94	1230	1,270	8.1	270	8.1	0.5	9.0	<5	<0.002	<0.001	<0.0004	<0.0002
6S	12-19-94	1530	1,270	8.1	286	9.3	0.4	9.8	<5	<0.002	<0.002	<0.0004	<0.0004
6S	01-23-95	1500	1,230	8.3	437	9.5	1.2	9.8	6	<0.002	<0.002	<0.0004	<0.0004
6S	02-21-95	1430	1,170	8.3	375	19.0	0.4	11.4	<5	<0.002	0.001	<0.0004	<0.0002
6S	03-27-95	1630	1,170	7.8	440	13.3	0.8	7.8	10	<0.002	<0.002	<0.0004	<0.0004
10S	04-20-94	1235	301	7.7	334	7.9	--	--	--	0.001	<0.001	0.0016	<0.0001
10S	05-16-94	1500	280	7.8	376	8.6	13.1	8.2	30	<0.001	0.001	0.0082	<0.0002

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Specific conductance (µS/cm)	pH, field (standard units)	Reduction-oxidation potential (mv)	Temperature, water (°C)	Turbidity (NTU)	Oxygen, dissolved (mg/L)	Solids, total suspended (mg/L)	Arsenic, total (mg/L)	Arsenic, dissolved (mg/L)	Lead, total (mg/L)	Lead, dissolved (mg/L)
10S	06-13-94	1620	238	8.7	317	10.1	3.1	11.4	6	0.002	0.001	0.0025	<0.0001
10S	07-18-94	1530	256	7.6	335	11.8	2.2	8.8	<2	0.002	0.001	0.0037	<0.0001
10S	08-29-94	1420	272	8.3	307	15.4	2.3	3.4	2	<0.001	0.001	0.0005	<0.0001
10S	09-19-94	1430	268	8.2	357	12.6	2.1	5.5	<2	0.002	0.000	0.0006	0.0002
10S	10-17-94	1545	269	8.2	413	7.9	13.5	11.0	32	<0.002	0.001	0.0008	<0.0001
10S	11-29-94	1150	275	8.0	273	3.5	4.8	10.0	<5	<0.002	<0.001	0.001	<0.0002
10S	12-19-94	1400	260	8.6	246	5.6	6.7	12.1	8	<0.002	<0.002	0.0005	<0.0004
10S	01-23-95	1300	307	8.6	308	4.6	5.6	12.1	8	<0.002	<0.002	<0.0004	<0.0004
10S	02-21-95	1230	258	8.4	361	7.7	5.8	12.8	20	<0.002	0.001	0.0009	<0.0002
10S	03-27-95	1445	264	8.0	466	7.6	40	10.7	56	<0.002	<0.002	0.0022	<0.0004
19S	04-20-94	1130	360	7.8	321	10.6	--	--	--	0.001	0.001	0.0043	<0.0001
19S	04-20-94	1130	360	7.8	321	10.6	--	--	--	0.001	0.001	0.0051	<0.0001
19S	05-16-94	1330	292	7.7	373	8.2	22	7.8	58	<0.001	0.001	0.0084	<0.0002
19S	05-16-94	1330	292	7.7	373	8.2	21	7.8	62	<0.001	0.001	0.0100	<0.0002
19S	06-13-94	1500	251	8.1	345	9.9	3.2	10.4	6	0.001	0.001	0.0045	<0.0001
19S	06-13-94	1500	251	8.1	345	9.9	3.4	10.4	<2	0.002	0.001	0.0050	<0.0001
19S	07-18-94	1420	273	7.6	288	12.5	2.6	8.8	16	0.001	0.002	0.0104	0.0004
19S	07-18-94	1420	273	7.6	288	12.5	2.6	8.8	14	<0.001	0.002	0.0110	0.0003
19S	08-29-94	1300	330	8.4	307	18.2	40	3.8	114	<0.001	0.001	0.0071	0.0003
19S	08-29-94	1300	330	8.4	307	18.2	31	3.8	100	0.001	0.001	0.0070	0.0004
19S	09-19-94	1300	333	8.3	332	14.6	54	5.1	200	0.003	0.001	0.0048	0.0002
19S	09-19-94	1300	333	8.3	332	14.6	52	5.1	160	0.002	0.001	0.0033	0.0001
19S	10-17-94	1500	362	8.0	423	8.6	640	10.1	880	0.005	0.002	0.0263	<0.0001
19S	10-17-94	1500	362	8.0	423	8.6	540	10.1	827	0.005	0.002	0.0243	<0.0001
19S	11-29-94	1050	331	8.3	351	1.1	8.3	11.3	28	<0.002	<0.001	0.0009	<0.0002

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Specific conductance (µS/cm)	pH, field (standard units)	Reduction-oxidation potential (mv)	Temperature, water (°C)	Turbidity (NTU)	Oxygen, dissolved (mg/L)	Solids, total suspended (mg/L)	Arsenic, total (mg/L)	Arsenic, dissolved (mg/L)	Lead, total (mg/L)	Lead, dissolved (mg/L)
19S	11-29-94	1050	331	8.3	252	1.1	8	11.3	28	<0.002	<0.001	<0.0004	<0.0002
19S	12-19-94	1315	325	8.4	216	4.8	6.8	11.8	42	<0.002	<0.002	0.0028	<0.0004
19S	12-19-94	1315	325	8.4	216	4.8	7.3	11.8	38	<0.002	<0.002	0.0025	<0.0004
19S	01-23-95	1130	412	8.3	290	3.2	8	11.9	22	<0.002	<0.002	0.001	<0.0004
19S	01-23-95	1130	412	8.3	290	3.2	6.7	11.9	26	<0.002	<0.002	0.001	<0.0004
19S	02-21-95	1115	347	7.9	347	6.7	780	11.6	2,200	0.005	0.001	0.0264	<0.0002
19S	02-21-95	1115	347	7.9	347	6.7	790	11.6	1,800	0.005	<0.001	0.0246	<0.0002
19S	03-27-95	1330	280	7.8	480	6.9	49	10.3	220	<0.002	<0.002	0.0055	<0.0004
19S	03-27-95	1330	280	7.8	480	6.9	57	10.3	234	<0.002	<0.002	0.004	<0.0004
21S	04-20-94	1645	419	7.8	419	15.0	–	–	–	0.002	<0.001	0.0390	0.0002
21S	04-20-94	1645	419	7.8	419	15.0	–	–	–	0.003	<0.001	0.0370	<0.0001
21S	05-16-94	1945	260	7.6	386	13.2	–	0.4	–	0.004	0.001	0.0733	<0.0002
21S	05-16-94	1945	256	7.6	386	13.2	105	0.4	200	0.006	0.001	0.0657	0.0004
21S	06-18-94	1000	259	7.8	382	13.3	7.2	7.0	18	0.002	0.001	0.0256	0.0015
21S	06-18-94	1000	259	7.8	382	13.3	5.7	7.0	24	0.001	<0.001	0.0199	0.0013
21S	07-20-94	1015	650	8.3	316	19.3	11.2	0.0	30	<0.001	<0.001	0.0040	<0.0001
21S	07-20-94	1015	650	8.3	316	19.3	12.5	0.0	22	0.002	0.001	0.0041	<0.0001
21S	08-29-94	1900	660	8.3	312	23.0	3.5	3.2	10	<0.001	0.001	0.0011	0.0001
21S	08-29-94	1900	660	8.3	312	23.0	2.5	3.2	14	<0.001	0.001	0.0010	0.0001
21S	09-20-94	1345	508	8.3	327	18.8	39	3.9	86	0.002	0.001	0.0063	0.0001
21S	09-20-94	1345	508	8.3	327	18.8	37	3.9	86	0.002	0.001	0.0065	0.0001
21S	10-19-94	1600	544	8.5	385	11.7	65	9.9	164	0.002	0.001	0.0058	<0.0001
21S	10-19-94	1600	544	8.5	385	11.7	66	9.9	160	0.001	<0.001	0.0054	<0.0001
21S	11-29-94	1545	590	8.5	350	0.7	19.5	11.2	54	<0.002	<0.001	0.002	<0.0002
21S	11-29-94	1545	590	8.5	350	0.7	16.8	11.2	72	<0.002	<0.001	0.002	<0.0002

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Specific conductance (µS/cm)	pH, field (standard units)	Reduction-oxidation potential (mv)	Temperature, water (°C)	Turbidity (NTU)	Oxygen, dissolved (mg/L)	Solids, total suspended (mg/L)	Arsenic, total (mg/L)	Arsenic, dissolved (mg/L)	Lead, total (mg/L)	Lead, dissolved (mg/L)
21S	12-21-94	1245	618	8.4	330	2.0	7.7	8.5	24	<0.002	<0.002	0.0018	<0.0004
21S	12-21-94	1245	618	8.4	330	2.0	7.6	8.5	28	<0.002	<0.002	0.0017	<0.0004
21S	01-25-95	1130	599	8.6	382	3.6	5	0.0	6	<0.002	<0.002	0.007	<0.0004
21S	01-25-95	1130	599	8.6	382	3.6	5.9	0.0	16	<0.002	<0.002	0.007	<0.0004
21S	02-21-95	1700	577	8.2	394	10.0	275	0.0	430	0.003	<0.001	0.0142	<0.0002
21S	02-21-95	1700	577	8.2	394	10.0	265	0.0	440	<0.002	<0.001	0.0131	<0.0002
21S	03-29-95	1145	457	8.3	456	7.1	18.2	9.9	64	<0.002	<0.002	0.004	<0.0004
21S	03-29-95	1145	457	8.3	456	7.1	13.6	9.9	64	<0.002	<0.002	0.004	<0.0004
26S	04-20-94	1045	398	7.7	338	10.7	--	--	--	0.001	0.001	0.0021	<0.0001
26S	05-16-94	1230	300	7.9	308	8.0	29	7.7	54	<0.001	0.001	0.0058	<0.0002
26S	06-13-94	1345	257	7.7	383	9.6	3.7	10.0	10	0.002	0.001	0.0039	<0.0001
26S	07-18-94	1320	292	7.7	340	12.7	5.4	9.3	14	0.003	0.001	0.0375	0.0003
26S	08-29-94	1145	373	8.4	342	17.7	40	3.6	104	0.002	0.001	0.0076	0.0003
26S	09-19-94	1200	374	8.3	313	14.0	63	5.2	212	0.003	<0.001	0.0044	0.0002
26S	10-17-94	1400	423	8.1	419	8.0	1,250	10.1	3,120	0.010	0.004	0.0516	0.0001
26S	11-29-94	0950	387	8.0	352	0.1	9.8	10.8	86	<0.002	<0.001	0.001	0.0023
26S	12-19-94	1230	376	8.3	272	4.1	12.5	12.0	56	0.002	<0.002	0.0012	<0.0004
26S	01-23-95	1030	492	8.0	320	2.6	13.1	11.6	36	<0.002	<0.002	0.002	<0.0004
26S	02-21-95	1000	407	7.9	397	6.6	1,440	11.5	2,800	0.008	0.001	0.0448	<0.0002
26S	03-27-95	1230	290	7.8	489	6.2	55	11.0	214	<0.002	<0.002	0.0044	<0.0004
29S	04-19-94	--	--	--	--	--	--	--	--	0.003	0.002	0.0110	0.0001
29S	05-23-94	1130	--	--	--	--	640	--	1,388	0.013	0.001	0.0244	<0.0002
29S	06-23-94	0800	--	--	--	--	6,150	--	9,990	0.026	0.002	0.1640	0.0002
29S	08-02-94	0930	1,250	8.6	354	23.3	148	--	15,550	0.002	0.003	0.0124	<0.0001
29S	08-30-94	1330	--	--	--	--	230	--	382	0.002	0.002	0.0063	0.0001

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Specific conductance (µS/cm)	pH, field (standard units)	Reduction-oxidation potential (mv)	Temperature, water (°C)	Turbidity (NTU)	Oxygen, dissolved (mg/L)	Solids, total suspended (mg/L)	Arsenic, total (mg/L)	Arsenic, dissolved (mg/L)	Lead, total (mg/L)	Lead, dissolved (mg/L)
29S	09-22-94	0800	--	--	--	--	245	--	466	0.006	0.003	0.0100	0.0003
29S	10-24-94	1130	650	--	364	10.8	900	--	3,540	0.009	0.002	0.0315	<0.0001
29S	11-30-94	1100	--	--	--	--	26	--	38	0.004	<0.005	0.0015	<0.001
29S	01-26-95	1450	--	--	--	--	8,700	--	19,000	0.038	<0.005	0.338	<0.001
29S	02-21-95	--	--	--	--	--	365	--	940	0.013	<0.001	0.0144	<0.0002
29S	03-22-95	1300	--	--	--	--	165	--	370	0.005	0.002	0.0078	<0.0004
30S	04-21-94	1145	--	--	--	--	--	--	--	0.002	0.002	0.0005	0.0021
30S	05-23-94	1230	--	--	--	--	0.7	--	8	0.002	0.001	<0.0004	<0.0002
30S	06-23-94	1230	2,120	7.3	545	24.2	0.5	--	14	0.002	0.003	0.0008	<0.0001
30S	08-02-94	1040	602	8.3	346	17.3	1.4	--	2	0.001	<0.001	<0.0002	<0.0001
30S	08-30-94	1300	--	--	--	--	0.08	--	8	0.001	0.001	<0.0002	<0.0001
30S	09-22-94	1230	--	--	--	15.0	1.3	--	<2	<0.001	0.002	<0.0002	0.0002
30S	10-24-94	1200	1,840	--	191	11.7	6.3	--	<5	0.006	0.005	0.0003	<0.0001
30S	11-30-94	1030	--	--	--	--	14	--	8	0.003	<0.001	<0.0004	<0.001
30S	01-26-95	1405	--	--	--	--	1.1	--	8	<0.006	<0.005	<0.001	<0.001
30S	02-21-95	1100	--	--	--	--	18	--	28	0.005	0.002	<0.0004	<0.0002
30S	03-22-95	1330	--	--	--	--	6.2	--	14	<0.002	0.004	<0.0004	<0.0004
32S	04-21-94	1100	--	--	--	--	--	--	--	0.001	0.001	0.0014	0.0001
32S	05-23-94	1250	--	--	--	--	4.9	--	16	0.005	0.004	<0.0004	<0.0002
32S	06-23-94	1200	319	8.9	523	18.9	3.4	--	6	0.001	0.001	0.0022	<0.0001
32S	08-02-94	1105	2,750	8.6	153	25.0	11.8	--	20	0.014	0.010	0.0018	0.0010
32S	08-30-94	1235	--	--	--	--	2.9	--	18	0.009	0.009	<0.0002	<0.0001
32S	09-22-94	1200	--	--	--	21.0	1.2	--	6	0.007	0.010	0.0006	0.0003
32S	10-24-94	1240	2,050	--	235	10.2	7.5	--	<5	0.007	0.004	0.0007	<0.0001
32S	11-30-94	1015	--	--	--	--	1.8	--	<5	0.004	<0.001	<0.0004	<0.001

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Specific conduct-ance (µS/cm)	pH, field (standard units)	Reduction-oxidation potential (mv)	Temper-ature, water (°C)	Turbidity (NTU)	Oxygen, dissolved (mg/L)	Solids, total sus-pended (mg/L)	Arse-nic, total (mg/L)	Arse-nic, dis-solved (mg/L)	Lead, total (mg/L)	Lead, dis-solved (mg/L)
32S	01-26-95	1330	--	--	--	--	1.4	--	<5	<0.006	<0.005	<0.001	<0.001
32S	02-21-95	1015	--	--	--	--	10.4	--	28	0.005	0.003	0.0005	<0.0002
32S	03-22-95	1400	--	--	--	--	5.6	--	48	0.003	0.002	0.0009	<0.0004
34S	04-21-94	1310	--	--	--	--	--	--	--	0.001	0.001	0.0002	<0.0001
34S	04-21-94	1310	--	--	--	--	--	--	--	0.001	0.001	0.0005	<0.0001
34S	05-23-94	1310	--	--	--	--	2.4	--	4	0.001	0.001	<0.0004	<0.0002
34S	05-23-94	1310	--	--	--	--	2.3	--	4	<0.001	0.008	<0.0004	<0.0002
34S	06-23-94	1100	238	8.8	501	17.1	4	--	12	0.001	<0.001	0.0057	<0.0001
34S	06-23-94	1100	238	8.8	501	17.1	4.9	--	12	0.001	0.001	0.0004	<0.0001
34S	08-02-94	1135	245	8.9	247	18.5	2.9	--	2	0.001	0.001	<0.0002	<0.0001
34S	08-02-94	1135	245	8.9	247	18.5	3	--	4	0.001	0.001	<0.0002	<0.0001
34S	08-30-94	1216	--	--	--	--	1	--	2	<0.001	0.001	<0.0002	<0.0001
34S	08-30-94	1216	--	--	--	--	1	--	4	<0.001	0.001	<0.0002	<0.0001
34S	09-22-94	1130	--	--	--	16.0	1	--	<2	0.001	0.001	0.0003	0.0002
34S	09-22-94	1130	--	--	--	16.0	1.2	--	<2	0.001	0.002	0.0004	0.0001
34S	10-24-94	1300	570	--	221	11.5	41	--	74	0.005	0.002	0.0013	<0.0001
34S	10-24-94	1300	570	--	221	11.5	31	--	24	0.005	0.002	0.0013	<0.0001
34S	11-30-94	1000	--	--	--	--	8.6	--	<5	0.004	<0.001	<0.0004	<0.001
34S	11-30-94	1000	--	--	--	--	8.8	--	34	0.003	<0.001	<0.0004	<0.001
34S	01-26-95	1345	--	--	--	--	2.8	--	8	<0.006	<0.005	<0.001	<0.001
34S	01-26-95	1345	--	--	--	--	2.5	--	6	<0.006	<0.005	<0.001	<0.001
34S	02-21-95	1035	--	--	--	--	33	--	52	0.005	<0.001	0.0005	<0.0002
34S	02-21-95	1035	--	--	--	--	33	--	50	0.006	<0.001	0.0006	<0.0002
34S	03-22-95	1430	--	--	--	--	22	--	36	0.003	0.002	0.0007	<0.0004
34S	03-22-95	1430	--	--	--	--	20	--	38	0.003	0.003	0.0009	<0.0004

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Specific conductance (µS/cm)	pH, field (standard units)	Reduction-oxidation potential (mv)	Temperature, water (°C)	Turbidity (NTU)	Oxygen, dissolved (mg/L)	Solids, total suspended (mg/L)	Arsenic, total (mg/L)	Arsenic, dissolved (mg/L)	Lead, total (mg/L)	Lead, dissolved (mg/L)
37S	04-19-94	1705	300	7.6	448	4.8	--	--	--	0.002	0.001	0.0040	<0.0001
37S	05-18-94	1220	979	8.1	386	16.1	100	8.4	168	0.003	0.001	0.0060	<0.0002
37S	06-17-94	1830	1,150	8.1	380	23.5	4.8	6.4	2	0.002	0.002	0.0010	<0.0001
37S	07-20-94	1630	1,610	7.8	334	24.8	2.8	5.6	<2	0.003	0.001	0.0002	<0.0001
37S	08-31-94	1200	1,540	7.8	359	19.6	6.8	2.9	22	0.002	0.002	0.0016	<0.0001
37S	09-20-94	1300	1,430	8.3	333	19.0	3.4	7.0	8	0.002	0.002	0.0021	0.0002
37S	10-19-94	1315	1,630	8.2	396	11.4	2.5	9.6	6	0.004	0.003	0.0022	<0.0001
37S	12-01-94	1330	1,590	8.1	353	2.1	17.2	9.8	20	0.004	0.005	0.0014	<0.001
37S	12-21-94	1530	1,690	8.2	338	4.4	20	10.4	72	<0.002	<0.002	0.0033	<0.0004
37S	01-25-95	1645	1,600	8.4	448	5.4	33	10.0	62	<0.002	<0.002	0.004	<0.0004
37S	02-23-95	1130	1,320	8.2	344	6.0	420	12.6	730	0.008	0.001	0.018	<0.0002
37S	03-29-95	1500	844	8.3	462	7.8	51	10.4	122	<0.002	<0.002	0.0032	<0.0004
38S	04-20-94	1715	461	7.8	421	16.4	--	--	--	0.002	<0.001	0.0340	<0.0001
38S	05-19-94	1305	224	7.8	364	10.7	48	8.7	84	0.002	<0.001	0.0466	<0.0002
38S	06-18-94	1115	274	7.8	391	14.6	8.7	7.9	22	0.002	0.001	0.0194	0.0008
38S	07-20-94	1130	740	8.3	387	21.1	6.8	7.8	12	<0.001	0.001	0.0027	<0.0001
38S	08-31-94	1740	770	8.3	373	23.2	2	3.8	8	<0.001	0.001	0.0019	<0.0001
38S	09-20-94	1420	546	8.3	355	18.6	50	4.0	128	0.002	0.001	0.0085	0.0001
38S	10-19-94	1640	588	8.4	397	12.1	50	9.8	128	0.002	<0.001	0.0054	<0.0001
38S	11-29-94	1650	664	8.4	315	0.9	18.4	11.5	54	<0.002	<0.001	0.0022	<0.0002
38S	12-21-94	1145	688	8.4	303	1.4	7.6	12.7	28	<0.002	<0.002	0.0027	<0.0004
38S	01-25-95	1030	687	8.5	386	3.2	7.8	12.5	<5	<0.002	<0.002	0.024	<0.0004
38S	02-21-95	1745	592	8.1	403	10.4	345	10.8	630	0.003	0.001	0.0171	<0.0002
38S	03-29-95	1100	483	8.3	462	7.1	17	10.7	68	<0.002	<0.002	0.006	<0.0004
40S	04-20-94	1815	494	7.8	402	18.0	--	--	--	0.003	0.001	0.0340	<0.0001

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Specific conductance (µS/cm)	pH, field (standard units)	Reduction-oxidation potential (mv)	Temperature, water (°C)	Turbidity (NTU)	Oxygen, dissolved (mg/L)	Solids, total suspended (mg/L)	Arsenic, total (mg/L)	Arsenic, dissolved (mg/L)	Lead, total (mg/L)	Lead, dissolved (mg/L)
40S	05-19-94	1420	236	7.9	367	11.9	50	8.5	148	0.003	<0.001	0.0535	<0.0002
40S	06-18-94	1230	283	7.9	385	16.9	5	7.8	22	0.002	<0.001	0.0200	0.0008
40S	07-20-94	1230	767	8.3	357	23.5	2.7	7.1	6	0.002	0.001	0.0021	<0.0001
40S	08-31-94	1515	809	8.2	362	25.0	3	3.7	<2	<0.001	0.001	0.0008	<0.0001
40S	09-20-94	1500	570	8.3	351	18.4	53	4.4	116	0.002	0.001	0.0075	<0.0001
40S	10-19-94	1740	613	8.5	393	12.2	65	9.9	128	0.001	<0.001	0.0054	<0.0001
40S	11-29-94	1740	674	8.6	364	0.9	18.6	11.0	40	<0.002	<0.001	0.0021	<0.0002
40S	12-21-94	1100	700	8.3	343	0.5	6.4	13.0	28	<0.002	<0.002	0.0021	<0.0004
40S	01-25-95	1500	714	8.9	444	5.4	5.7	12.6	18	<0.002	<0.002	0.002	<0.0004
40S	02-21-95	1830	623	8.2	374	10.4	210	10.8	370	<0.002	<0.001	0.0098	<0.0002
40S	03-29-95	1000	496	8.2	472	6.8	21	10.3	72	<0.002	<0.002	0.0052	<0.0004
43S	04-20-94	1835	469	7.8	395	16.5	--	--	--	0.003	0.001	0.0230	<0.0001
43S	05-19-94	1120	279	7.7	316	7.8	43	7.3	96	0.002	0.001	0.0269	<0.0002
43S	06-17-94	1550	256	7.9	352	10.9	2.5	7.8	26	0.002	<0.001	0.0190	0.0002
43S	07-19-94	2010	355	8.6	320	17.6	3.6	8.0	12	0.001	0.001	0.0028	<0.0001
43S	08-30-94	1845	470	8.4	362	22.4	42	3.7	82	<0.001	0.001	0.0032	<0.0001
43S	09-20-94	1810	533	8.2	352	18.0	87	4.0	192	0.002	0.002	0.0073	0.0002
43S	10-19-94	1030	510	8.1	336	9.8	134	9.2	270	0.005	0.002	0.0070	<0.0001
43S	12-01-94	1115	560	8.3	327	0.7	44	11.1	96	0.003	<0.005	0.0033	<0.001
43S	12-21-94	0745	563	7.8	358	1.0	16.2	11.0	42	<0.002	<0.002	0.0029	<0.0004
43S	01-25-95	0930	630	8.0	372	3.7	286	10.5	760	<0.002	<0.002	0.015	<0.0004
43S	02-23-95	0745	544	8.2	411	6.4	480	11.4	1,100	0.005	<0.001	0.0214	<0.0002
43S	03-27-95	1945	303	8.1	436	8.2	59	9.7	146	<0.002	<0.002	0.0071	<0.0004
44S	05-18-94	--	979	8.1	386	16.1	40	8.4	52	0.004	0.001	0.0375	<0.0002
44S	05-25-94	--	979	8.1	386	16.1	<2,000	--	65,600	0.005	0.002	0.1220	0.0004

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Specific conductance (µS/cm)	pH, field (standard units)	Reduction-oxidation potential (mv)	Temperature, water (°C)	Turbidity (NTU)	Oxygen, dissolved (mg/L)	Solids, total suspended (mg/L)	Arsenic, total (mg/L)	Arsenic, dissolved (mg/L)	Lead, total (mg/L)	Lead, dissolved (mg/L)
44S	06-17-94	1900	3,010	7.9	368	26.9	2.2	5.9	12	0.002	0.002	0.0007	<0.0001
44S	07-20-94	1700	1,610	7.8	334	24.8	0.7	5.6	2	0.002	0.001	0.0016	<0.0001
44S	08-31-94	1230	1,360	8.0	343	29.2	3.4	3.1	12	<0.001	0.001	0.0003	<0.0001
44S	09-20-94	1100	2,270	8.0	312	18.8	37	6.1	28	0.002	0.000	0.0020	0.0002
44S	10-19-94	1130	2,440	8.3	421	9.9	235	9.8	308	0.007	0.004	0.0062	0.0001
44S	12-01-94	1145	2,070	8.4	345	--	114	9.9	280	0.005	<0.005	0.005	<0.001
44S	12-21-94	1600	1,960	8.3	335	2.4	89	11.1	230	<0.002	<0.002	0.0039	<0.0004
44S	01-25-95	1545	1,990	8.4	459	5.8	60	10.4	98	<0.002	<0.002	0.002	<0.0004
44S	02-23-95	1030	1,440	8.3	331	7.7	580	12.8	910	0.009	0.001	0.0214	<0.0002
44S	03-29-95	1600	1,040	8.5	459	10.6	96	9.3	308	0.003	<0.002	0.006	<0.0004
47S	04-21-94	1030	--	--	--	--	--	--	--	0.031	0.003	0.0173	<0.0001
47S	05-23-94	1430	--	--	--	--	1	--	10	0.003	0.002	0.0011	<0.0002
47S	06-23-94	1035	2,270	8.2	315	24.3	1.4	--	14	0.005	0.004	0.0007	<0.0001
47S	07-29-94	1500	572	8.3	326	25.0	1.1	--	16	0.003	0.001	<0.0002	0.0002
47S	08-30-94	1135	--	--	--	--	1.3	--	8	<0.001	0.001	<0.0002	0.0001
47S	09-22-94	1036	--	--	--	17.0	0.6	--	12	0.001	0.002	0.0003	0.0002
47S	10-24-94	1345	340	--	329	11.1	2.7	--	<5	0.003	0.001	<0.0002	<0.0001
47S	11-30-94	0930	--	--	--	--	0.9	--	<5	<0.002	<0.005	<0.0004	<0.001
47S	01-26-95	1300	--	--	--	--	1.3	--	12	<0.006	<0.005	<0.001	<0.001
47S	02-21-95	1000	--	--	--	--	1	--	6	0.009	0.006	<0.0004	<0.0002
47S	03-23-95	1430	--	--	--	--	2.4	--	50	0.004	0.002	0.0021	<0.0004
49S	04-19-94	--	--	--	--	--	--	--	--	0.003	0.003	0.0016	<0.0001
49S	05-23-94	1540	--	--	--	--	4.3	--	10	0.003	0.001	<0.0004	<0.0002
49S	06-23-94	0900	--	--	--	--	1.4	--	16	0.003	0.003	0.0004	<0.0001
49S	07-29-94	1400	1,820	8.6	304	25.4	3.2	--	6	0.003	0.004	<0.0002	<0.0001

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Specific conduct-ance (µS/cm)	pH, field (standard units)	Reduction-oxidation potential (mv)	Temper-ature, water (°C)	Turbidity (NTU)	Oxygen, dissolved (mg/L)	Solids, total sus-pended (mg/L)	Arse-nic, total (mg/L)	Arse-nic, dis-solved (mg/L)	Lead, total (mg/L)	Lead, dis-solved (mg/L)
49S	09-22-94	0900	--	--	--	--	2	--	6	<0.001	0.002	0.0004	0.0002
49S	10-24-94	1430	2,140	--	336	10.2	3.4	--	<5	0.005	0.004	<0.0002	0.0001
49S	11-30-94	0850	--	--	--	--	9.1	--	8	0.004	0.006	<0.0004	<0.001
49S	01-26-95	1145	--	--	--	--	2.4	--	22	<0.006	<0.005	<0.001	<0.001
49S	02-21-95	0900	--	--	--	--	5.6	--	16	0.011	0.006	<0.0004	<0.0002
49S	03-23-95	1330	--	--	--	--	4.3	--	30	0.005	0.003	0.0008	<0.0004
54S	04-20-94	1920	499	7.7	398	16.5	--	--	--	0.003	0.001	0.0220	0.0280
54S	05-18-94	1430	257	7.8	393	10.3	65	9.1	264	0.002	0.001	0.0380	0.0006
54S	06-17-94	1500	270	7.8	347	11.8	6.3	9.1	22	0.002	0.001	0.0128	0.0002
54S	07-19-94	1920	379	9.2	258	19.4	3.4	9.5	8	<0.001	0.001	0.0030	<0.0001
54S	08-30-94	1730	528	8.8	331	22.5	88	3.5	168	0.001	0.001	0.0055	0.0001
54S	09-20-94	1710	550	8.3	373	17.8	84	4.0	192	0.002	<0.001	0.0090	0.0002
54S	10-18-94	1945	585	8.2	444	9.4	610	9.6	1,360	0.004	0.001	0.0245	<0.0001
54S	12-01-94	1000	552	8.3	320	0.6	16.1	11.8	38	0.004	0.011	0.0022	<0.001
54S	12-20-94	1745	596	8.7	328	3.2	11	13.1	22	<0.002	<0.002	0.0014	<0.0004
54S	01-25-95	0800	665	8.0	364	3.6	38	10.2	12	<0.002	<0.002	0.01	0.0004
54S	02-22-95	1745	609	8.1	424	9.5	1,750	11.1	3,100	0.010	<0.001	0.05	<0.0002
54S	03-27-95	1815	395	8.1	456	8.3	68	9.8	278	<0.002	<0.002	0.0068	<0.0004
58S	04-19-94	1340	574	7.8	311	17.4	--	--	--	0.003	0.001	0.0180	0.0002
58S	05-18-94	1515	269	7.8	414	11.2	72	8.7	228	0.003	0.001	0.0353	<0.0002
58S	06-17-94	1335	280	7.9	305	12.4	8.4	8.5	28	0.001	0.001	0.0062	0.0001
58S	07-19-94	1835	393	9.0	257	20.6	4.3	7.6	2	0.002	0.001	0.0031	<0.0001
58S	08-30-94	1645	605	8.6	335	22.8	45	3.6	86	0.001	0.001	0.0013	0.0001
58S	09-20-94	1545	550	8.3	339	18.6	76	4.2	78	0.003	0.001	0.0067	<0.0001
58S	10-18-94	1900	636	8.2	434	9.7	1,380	10.2	2,800	0.007	0.001	0.0550	<0.0001

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Specific conductance (µS/cm)	pH, field (standard units)	Reduction-oxidation potential (mv)	Temperature, water (°C)	Turbidity (NTU)	Oxygen, dissolved (mg/L)	Solids, total suspended (mg/L)	Arsenic, total (mg/L)	Arsenic, dissolved (mg/L)	Lead, total (mg/L)	Lead, dissolved (mg/L)
58S	11-30-94	1800	598	8.7	377	1.7	9.2	12.5	20	<0.002	<0.001	0.0009	<0.0002
58S	12-20-94	1700	625	8.7	341	3.4	6.3	13.6	22	<0.002	<0.002	0.0012	<0.0004
58S	01-24-95	1815	646	8.8	433	4.8	10.8	12.6	22	<0.002	<0.002	<0.0004	<0.0004
58S	02-22-95	1700	644	8.1	421	10.0	1,900	10.5	4,000	0.011	<0.001	0.0576	0.0003
58S	03-28-95	1745	402	8.1	472	8.6	67	9.9	264	<0.002	<0.002	0.0052	<0.0004
59S	04-19-94	1300	1,370	8.2	320	23.0	--	--	--	0.003	0.001	0.0056	<0.0001
59S	05-18-94	1855	1,530	8.5	363	22.7	390	6.4	633	0.005	0.001	0.0164	<0.0002
59S	05-25-94	1245	1,530	8.5	363	22.7	<1,000	--	1,640	0.008	0.001	0.0470	<0.0001
59S	06-17-94	1250	1,280	8.3	322	27.3	110	6.5	280	0.004	0.001	0.0055	<0.0001
59S	07-20-94	0900	1,250	8.2	287	19.0	53,000	4.6	75,300	0.197	0.007	1.4800	0.0105
59S	09-20-94	1630	1,450	8.4	326	20.4	26,500	4.0	29,300	0.012	0.002	0.0680	0.0001
59S	10-18-94	1820	823	8.5	420	10.5	6,600	9.8	51,500	0.040	0.003	0.4410	0.0029
59S	11-30-94	1720	1,410	8.5	369	9.3	740	8.0	1,600	0.008	0.002	0.03	<0.0002
59S	12-20-94	1630	1,360	8.5	352	11.3	234	8.8	630	0.004	<0.002	0.0116	<0.0004
59S	01-24-95	1730	1,300	8.4	419	12.0	1,630	8.7	3,400	0.008	0.002	0.061	<0.0004
59S	02-22-95	1630	1,290	8.5	389	17.5	2,050	8.5	5,000	0.022	0.002	0.0891	0.0002
59S	03-28-95	1700	2,250	8.6	464	14.8	166	8.4	408	0.003	0.002	0.007	<0.0004
63S	04-21-94	0940	532	7.7	333	14.6	--	--	633	0.003	0.001	0.0170	<0.0001
63S	04-21-94	0940	532	7.7	333	14.6	--	--	264	0.003	0.001	0.0180	0.0006
63S	05-18-94	1600	274	7.9	383	12.3	98	8.7	332	0.003	0.001	0.0537	<0.0002
63S	05-18-94	1600	274	7.9	383	12.3	97	8.7	346	0.004	0.001	0.0573	<0.0002
63S	06-17-94	1215	278	8.0	343	13.3	8.7	8.5	32	0.002	0.001	0.0147	0.0003
63S	06-17-94	1215	278	8.0	343	13.3	8.7	8.5	42	0.002	0.001	0.0005	0.0002
63S	07-19-94	1800	565	8.3	331	22.3	11,100	6.8	16,920	0.039	0.001	0.3230	<0.0001
63S	07-19-94	1800	565	8.3	331	22.3	11,100	6.8	15,700	0.044	0.001	0.3080	<0.0001

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Specific conductance (µS/cm)	pH, field (standard units)	Reduction-oxidation potential (mv)	Temperature, water (°C)	Turbidity (NTU)	Oxygen, dissolved (mg/L)	Solids, total suspended (mg/L)	Arsenic, total (mg/L)	Arsenic, dissolved (mg/L)	Lead, total (mg/L)	Lead, dissolved (mg/L)
63S	08-30-94	1600	653	8.7	347	23.7	38	3.6	60	0.001	0.002	0.0032	<0.0001
63S	08-30-94	1600	653	8.7	347	23.7	41	3.6	66	0.002	0.001	0.0027	<0.0001
63S	09-22-94	1800	500	8.3	392	18.6	380	4.8	540	0.007	0.002	0.0160	0.0003
63S	09-22-94	1800	500	8.3	392	18.6	380	4.8	540	--	--	0.0170	0.0002
63S	10-18-94	1730	740	8.2	383	9.9	5,750	9.9	17,700	0.015	0.002	0.1110	<0.0001
63S	10-18-94	1730	740	8.2	383	9.9	5,050	9.9	12,600	0.014	0.002	0.0965	<0.0001
63S	11-30-94	1630	641	8.6	351	1.5	45	12.7	84	<0.002	<0.001	0.0047	<0.0002
63S	11-30-94	1630	641	8.6	351	1.5	45	12.7	94	<0.002	<0.001	0.0043	<0.0002
63S	12-20-94	1545	662	8.7	356	3.8	25	13.8	46	<0.002	<0.002	0.0443	<0.0004
63S	12-20-94	1545	662	8.7	356	3.8	28	13.8	46	<0.002	<0.002	0.0051	<0.0004
63S	01-24-95	1700	686	8.9	422	5.2	53	13.5	66	0.003	<0.002	0.009	<0.0004
63S	01-24-95	1700	686	8.9	422	5.2	53	13.5	72	<0.002	<0.002	0.011	<0.0004
63S	02-22-95	1545	638	8.2	399	11.2	645	10.9	1,300	0.007	<0.005	0.0264	<0.0010
63S	02-22-95	1545	638	8.2	399	11.2	620	10.9	1,400	0.007	<0.005	0.0274	<0.0010
63S	03-28-95	1630	422	8.1	485	9.1	54	9.8	252	<0.002	<0.002	0.0067	<0.0004
63S	03-28-95	1630	422	8.1	485	9.1	62	9.8	272	<0.002	<0.002	0.0067	<0.0004
71S	04-21-94	1110	663	7.9	356	15.7	--	--	--	0.002	<0.001	0.0140	<0.0001
71S	05-17-94	1840	459	8.0	382	17.4	950	7.3	2,604	0.019	<0.001	0.0433	<0.0002
71S	06-17-94	1000	1,960	8.2	319	19.1	10	8.1	26	0.002	0.001	0.0182	<0.0001
71S	09-22-94	1600	2,100	8.4	366	21.2	50	6.3	54	0.002	0.003	0.0016	0.0004
71S	10-18-94	1530	1,620	8.4	358	10.4	850	10.1	1,290	0.008	0.002	0.0210	<0.0001
71S	11-30-94	1430	2,300	8.4	352	0.7	30	10.8	34	<0.002	0.001	0.0007	<0.0002
71S	12-20-94	1400	2,250	8.3	492	0.9	61	11.7	74	<0.002	<0.002	0.002	<0.0004
71S	01-24-95	1500	2,450	8.3	432	3.9	16.1	11.4	24	<0.002	<0.002	<0.0004	<0.0004
71S	02-22-95	1415	2,250	8.4	394	10.8	85	12.4	110	0.003	<0.005	0.0020	<0.0010
71S	03-28-95	1445	1,280	8.3	455	11.0	81	9.4	176	<0.002	<0.002	0.0052	<0.0004

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Specific conductance (µS/cm)	pH, field (standard units)	Reduction-oxidation potential (mv)	Temperature, water (°C)	Turbidity (NTU)	Oxygen, dissolved (mg/L)	Solids, total suspended (mg/L)	Arsenic, total (mg/L)	Arsenic, dissolved (mg/L)	Lead, total (mg/L)	Lead, dissolved (mg/L)
QUALITY-ASSURANCE SAMPLES: DUPLICATES													
34S	04-21-94	1310	--	--	--	--	--	--	--	0.001	0.001	0.0002	<0.0001
34S	04-21-94	1310	--	--	--	--	--	--	--	0.001	0.001	0.0005	<0.0001
34S	05-23-94	1310	--	--	--	--	2.4	--	4	0.001	0.001	<0.0004	<0.0002
34S	05-23-94	1310	--	--	--	--	2.3	--	4	<0.001	0.008	<0.0004	<0.0002
34S	06-23-94	1100	238	8.8	501	17.1	4	--	12	0.001	<0.001	0.0057	<0.0001
34S	06-23-94	1100	238	8.8	501	17.1	4.9	--	12	0.001	0.001	0.0004	<0.0001
34S	08-02-94	1135	245	8.9	247	18.5	2.9	--	2	0.001	0.001	<0.0002	<0.0001
34S	08-02-94	1135	245	8.9	247	18.5	3	--	4	0.001	0.001	<0.0002	<0.0001
34S	08-30-94	1216	--	--	--	--	1	--	2	<0.001	0.001	<0.0002	<0.0001
34S	08-30-94	1216	--	--	--	--	1	--	4	<0.001	0.001	<0.0002	<0.0001
34S	09-22-94	1130	--	--	--	16.0	1	--	<2	0.001	0.001	0.0003	0.0002
34S	09-22-94	1130	--	--	--	16.0	1.2	--	<2	0.001	0.002	0.0004	0.0001
34S	10-24-94	1300	570	--	221	11.5	41	--	74	0.005	0.002	0.0013	<0.0001
34S	10-24-94	1300	570	--	221	11.5	31	--	24	0.005	0.002	0.0013	<0.0001
34S	11-30-94	1000	--	--	--	--	8.6	--	<5	0.004	<0.001	<0.0004	<0.001
34S	11-30-94	1000	--	--	--	--	8.8	--	34	0.003	<0.001	<0.0004	<0.001
34S	01-26-95	1345	--	--	--	--	2.8	--	8	<0.006	<0.005	<0.001	<0.001
34S	01-26-95	1345	--	--	--	--	2.5	--	6	<0.006	<0.005	<0.001	<0.001
34S	02-21-95	1035	--	--	--	--	33	--	52	0.005	<0.001	0.0005	<0.0002
34S	02-21-95	1035	--	--	--	--	33	--	50	0.006	<0.001	0.0006	<0.0002
34S	03-22-95	1430	--	--	--	--	22	--	36	0.003	0.002	0.0007	<0.0004
34S	03-22-95	1430	--	--	--	--	20	--	38	0.003	0.003	0.0009	<0.0004

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Specific conductance (µS/cm)	pH, field (standard units)	Reduction-oxidation potential (mv)	Temperature, water (°C)	Turbidity (NTU)	Oxygen, dissolved (mg/L)	Solids, total suspended (mg/L)	Arsenic, total (mg/L)	Arsenic, dissolved (mg/L)	Lead, total (mg/L)	Lead, dissolved (mg/L)
QUALITY-ASSURANCE SAMPLES: SPIKES													
26S	04-20-94	1045	--	--	--	--	--	--	--	0.010	0.011	0.0160	0.0104
26S	05-16-94	1230	--	--	--	--	--	--	--	0.009	0.010	0.0182	0.0104
26S	06-13-94	1345	--	--	--	--	--	--	--	0.012	0.013	0.0171	0.0113
26S	07-18-94	1320	--	--	--	--	--	--	--	0.010	0.011	0.0428	0.0110
26S	08-29-94	1145	--	--	--	--	--	--	--	0.011	0.011	0.0175	0.0094
26S	09-19-94	1200	--	--	--	--	--	--	--	0.008	0.012	0.0160	0.0130
26S	10-17-94	1400	--	--	--	--	--	--	--	0.015	0.014	0.0612	0.0130
26S	11-29-94	0950	--	--	--	--	--	--	--	0.010	0.012	0.011	0.011
26S	12-19-94	1230	--	--	--	--	--	--	--	0.011	0.011	0.0104	0.011
26S	01-23-95	1030	--	--	--	--	--	--	--	0.010	0.009	0.011	0.0104
26S	02-21-95	1000	--	--	--	--	--	--	--	0.015	0.011	0.0528	0.0099
26S	03-27-95	1230	--	--	--	--	--	--	--	0.010	0.011	0.0148	0.0122
54S	04-20-94	1920	--	--	--	--	--	--	--	0.009	0.010	0.0370	0.0110
54S	05-18-94	1430	--	--	--	--	--	--	--	0.011	0.010	0.0480	0.0127
54S	06-17-94	1500	--	--	--	--	--	--	--	0.011	0.010	0.0184	0.0105
54S	07-19-94	1920	--	--	--	--	--	--	--	0.015	0.011	0.0142	0.0100
54S	08-30-94	1730	--	--	--	--	--	--	--	0.010	0.012	0.0165	0.0097
54S	09-20-94	1710	--	--	--	--	--	--	--	0.008	0.009	0.0200	0.0100
54S	10-18-94	1945	--	--	--	--	--	--	--	0.012	0.012	0.0360	0.0128
54S	12-01-94	1000	--	--	--	--	--	--	--	0.013	0.018	0.014	0.011
54S	12-20-94	1745	--	--	--	--	--	--	--	0.010	0.011	0.011	0.012
54S	01-25-95	0800	--	--	--	--	--	--	--	0.012	0.011	0.021	0.0112
54S	02-22-95	1745	--	--	--	--	--	--	--	0.018	0.011	0.0594	0.0119
54S	03-27-95	1815	--	--	--	--	--	--	--	0.010	0.012	0.0171	0.0122

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Mercury, total (mg/L)	Mercury, dissolved (mg/L)	Selenium, total (mg/L as Se)	Selenium, dissolved (mg/L)	Selenium, dissolved (mg/L as Se+4)	Selenium, dissolved (mg/L as Se+6)	Selenium, dissolved organic (mg/L)	Strontium, total, (mg/L)	Strontium, dissolved (mg/L)	Zinc, total (mg/L)	Zinc, dissolved (mg/L)
1S	04-20-94	1355	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
1S	05-16-94	1615	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
1S	06-13-94	1750	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
1S	07-18-94	1630	<0.0002	<0.0002	<0.005	<0.001	--	--	--	--	--	0.04	<0.01
1S	08-29-94	1530	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
1S	09-19-94	1545	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
1S	10-17-94	1710	<0.0002	<0.0002	<0.001	0.001	--	--	--	--	--	0.01	<0.01
1S	11-29-94	1310	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
1S	12-19-94	1500	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
1S	01-23-95	1415	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
1S	02-21-95	1400	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
1S	03-27-95	1600	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
2S	04-20-94	1420	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
2S	05-16-94	1630	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
2S	06-13-94	1820	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
2S	07-18-94	1650	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
2S	08-29-94	1500	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
2S	09-19-94	1515	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
2S	10-17-94	1730	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
2S	11-29-94	1330	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
2S	12-19-94	1440	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
2S	01-23-95	1345	0.0004	0.0003	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
2S	02-21-95	1320	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
2S	03-27-95	1530	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
5S	04-19-94	1445	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Mercury, total (mg/L)	Mercury, dissolved (mg/L)	Selenium, total (mg/L as Se)	Selenium, dissolved (mg/L)	Selenium, dissolved (mg/L as Se+4)	Selenium, dissolved (mg/L as Se+6)	Selenium, dissolved organic (mg/L)	Strontium, total, (mg/L)	Strontium, dissolved (mg/L)	Zinc, total (mg/L)	Zinc, dissolved (mg/L)
5S	05-16-94	1715	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.36	<0.01
5S	06-13-94	1845	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
5S	07-18-94	1745	<0.0002	<0.0002	<0.001	<0.001	--	--	--	0.26	0.26	0.02	<0.01
5S	08-29-94	1630	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
5S	09-19-94	1700	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
5S	10-17-94	1815	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
5S	11-29-94	1400	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
5S	12-19-94	1610	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.25	<0.01
5S	01-15-95	1330	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
5S	02-21-95	1500	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
5S	03-27-95	1700	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
6S	04-20-94	1320	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
6S	05-16-94	1540	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
6S	06-13-94	1705	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
6S	07-18-94	1600	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
6S	08-29-94	1600	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
6S	09-19-94	1630	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
6S	10-17-94	1630	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
6S	11-29-94	1230	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
6S	12-19-94	1530	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
6S	01-23-95	1500	0.0003	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
6S	02-21-95	1430	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
6S	03-27-95	1630	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
10S	04-20-94	1235	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
10S	05-16-94	1500	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Mercury, total (mg/L)	Mercury, dissolved (mg/L)	Selenium, total (mg/L as Se)	Selenium, dissolved (mg/L)	Selenium, dissolved (mg/L as Se+4)	Selenium, dissolved (mg/L as Se+6)	Selenium, dissolved organic (mg/L)	Strontium, total, (mg/L)	Strontium, dissolved (mg/L)	Zinc, total (mg/L)	Zinc, dissolved (mg/L)
10S	06-13-94	1620	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
10S	07-18-94	1530	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
10S	08-29-94	1420	<0.0002	<0.0002	<0.001	0.001	--	--	--	--	--	<0.01	<0.01
10S	09-19-94	1430	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
10S	10-17-94	1545	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
10S	11-29-94	1150	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
10S	12-19-94	1400	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
10S	01-23-95	1300	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	0.04
10S	02-21-95	1230	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
10S	03-27-95	1445	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
19S	04-20-94	1130	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
19S	04-20-94	1130	<0.0002	<0.0002	<0.001	0.001	--	--	--	--	--	0.02	<0.01
19S	05-16-94	1330	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
19S	05-16-94	1330	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
19S	06-13-94	1500	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	0.26	0.26	<0.01	<0.01
19S	06-13-94	1500	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
19S	07-18-94	1420	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
19S	07-18-94	1420	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
19S	08-29-94	1300	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
19S	08-29-94	1300	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
19S	09-19-94	1300	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
19S	09-19-94	1300	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
19S	10-17-94	1500	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.11	<0.01
19S	10-17-94	1500	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.10	<0.01
19S	11-29-94	1050	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Mercury, total (mg/L)	Mercury, dissolved (mg/L)	Selenium, total (mg/L as Se)	Selenium, dissolved (mg/L)	Selenium, dissolved (mg/L as Se+4)	Selenium, dissolved (mg/L as Se+6)	Selenium, dissolved organic (mg/L)	Strontium, total, (mg/L)	Strontium, dissolved (mg/L)	Zinc, total (mg/L)	Zinc, dissolved (mg/L)
19S	11-29-94	1050	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
19S	12-19-94	1315	<0.0002	0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
19S	12-19-94	1315	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
19S	01-23-95	1130	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
19S	01-23-95	1130	0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
19S	02-21-95	1115	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.20	<0.01
19S	02-21-95	1115	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.19	<0.01
19S	03-27-95	1330	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.06	<0.01
19S	03-27-95	1330	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
21S	04-20-94	1645	<0.0002	<0.0002	<0.001	0.001	--	--	--	--	--	0.28	<0.01
21S	04-20-94	1645	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.25	<0.01
21S	05-16-94	1945	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.35	<0.01
21S	05-16-94	1945	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.33	<0.01
21S	06-18-94	1000	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.09	<0.01
21S	06-18-94	1000	<0.0002	<0.0002	<0.001	<0.001	--	--	--	0.35	0.35	0.07	<0.01
21S	07-20-94	1015	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
21S	07-20-94	1015	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
21S	08-29-94	1900	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
21S	08-29-94	1900	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
21S	09-20-94	1345	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.05	<0.01
21S	09-20-94	1345	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.05	<0.01
21S	10-19-94	1600	<0.0002	<0.0002	<0.001	0.001	--	--	--	--	--	0.05	<0.01
21S	10-19-94	1600	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.05	<0.01
21S	11-29-94	1545	<0.0002	<0.0002	<0.001	0.001	--	--	--	--	--	0.03	<0.01
21S	11-29-94	1545	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.04	<0.01

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Mercury, total (mg/L)	Mercury, dissolved (mg/L)	Selenium, total (mg/L as Se)	Selenium, dissolved (mg/L)	Selenium, dissolved (mg/L as Se+4)	Selenium, dissolved (mg/L as Se+6)	Selenium, dissolved organic (mg/L)	Strontium, total, (mg/L)	Strontium, dissolved (mg/L)	Zinc, total (mg/L)	Zinc, dissolved (mg/L)
21S	12-21-94	1245	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
21S	12-21-94	1245	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
21S	01-25-95	1130	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.04	<0.01
21S	01-25-95	1130	0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.04	<0.01
21S	02-21-95	1700	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.12	<0.01
21S	02-21-95	1700	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.12	0.01
21S	03-29-95	1145	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.05	<0.01
21S	03-29-95	1145	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.05	<0.01
26S	04-20-94	1045	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
26S	05-16-94	1230	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	0.29	0.3	0.02	<0.01
26S	06-13-94	1345	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
26S	07-18-94	1320	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.08	<0.01
26S	08-29-94	1145	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.06	<0.01
26S	09-19-94	1200	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
26S	10-17-94	1400	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.24	<0.01
26S	11-29-94	0950	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
26S	12-19-94	1230	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	0.01
26S	01-23-95	1030	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
26S	02-21-95	1000	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.32	<0.01
26S	03-27-95	1230	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
29S	04-19-94	--	<0.0002	<0.0002	0.008	0.015	--	--	--	--	--	0.02	<0.01
29S	05-23-94	1130	<0.0002	<0.0002	0.003	0.002	<0.001	0.002-	<0.001	2.56	2.1	0.09	<0.01
29S	06-23-94	0800	<0.0002	<0.0002	0.003	0.002	<0.001	0.002	<0.001	3.32	0.68	0.71	<0.01
29S	08-02-94	0930	<0.0002	<0.0002	0.001	0.003	<0.001	0.003	<0.001	2.59	1.56	0.04	<0.01
29S	08-30-94	1330	<0.0002	<0.0002	0.003	0.004	<0.001	0.004	<0.001	1.44	1.41	0.03	<0.01

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Mercury, total (mg/L)	Mercury, dissolved (mg/L)	Selenium, total (mg/L as Se)	Selenium, dissolved (mg/L)	Selenium, dissolved (mg/L as Se+4)	Selenium, dissolved (mg/L as Se+6)	Selenium, dissolved organic (mg/L)	Strontium, total, (mg/L)	Strontium, dissolved (mg/L)	Zinc, total (mg/L)	Zinc, dissolved (mg/L)
29S	09-22-94	0800	<0.0002	<0.0002	0.006	0.005	--	--	--	--	--	0.04	<0.01
29S	10-24-94	1130	<0.0002	<0.0002	0.002	0.002	--	--	--	--	--	0.12	<0.01
29S	11-30-94	1100	<0.0002	0.0002	0.020	0.020	--	--	--	--	--	0.01	<0.01
29S	01-26-95	1450	0.0003	<0.0002	0.002	0.013	--	--	--	--	--	1.60	<0.01
29S	02-21-95	--	<0.0002	<0.0002	0.019	0.018	--	--	--	--	--	0.07	<0.01
29S	03-22-95	1300	<0.0002	<0.0002	0.022	0.018	--	--	--	--	--	0.03	<0.01
30S	04-21-94	1145	<0.0002	<0.0002	0.012	0.016	--	--	--	--	--	<0.01	<0.01
30S	05-23-94	1230	<0.0002	<0.0002	0.010	0.011	--	--	--	--	--	<0.01	<0.01
30S	06-23-94	1230	<0.0002	<0.0002	0.005	0.005	--	--	--	--	--	0.02	<0.01
30S	08-02-94	1040	<0.0002	<0.0002	0.002	0.002	--	--	--	--	--	<0.01	<0.01
30S	08-30-94	1300	<0.0002	<0.0002	0.004	0.005	--	--	--	--	--	<0.01	<0.01
30S	09-22-94	1230	<0.0002	<0.0002	0.004	0.006	--	--	--	--	--	<0.01	<0.01
30S	10-24-94	1200	<0.0002	0.0004	0.013	0.013	--	--	--	--	--	<0.01	<0.01
30S	11-30-94	1030	<0.0002	0.0003	0.020	0.019	--	--	--	--	--	<0.01	<0.01
30S	01-26-95	1405	<0.0002	0.0002	0.015	0.014	--	--	--	--	--	0.01	<0.01
30S	02-21-95	1100	<0.0002	<0.0002	0.015	0.015	--	--	--	--	--	<0.01	<0.01
30S	03-22-95	1330	<0.0002	<0.0002	0.017	0.012	--	--	--	--	--	<0.01	<0.01
32S	04-21-94	1100	<0.0002	<0.0002	<0.001	0.001	--	--	--	--	--	0.03	<0.01
32S	05-23-94	1250	<0.0002	<0.0002	0.006	0.006	--	--	--	--	--	<0.01	0.01
32S	06-23-94	1200	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
32S	08-02-94	1105	<0.0002	<0.0002	0.002	0.001	--	--	--	--	--	<0.01	<0.01
32S	08-30-94	1235	<0.0002	<0.0002	0.001	0.002	--	--	--	--	--	<0.01	<0.01
32S	09-22-94	1200	<0.0002	<0.0002	0.002	0.003	--	--	--	--	--	<0.01	<0.01
32S	10-24-94	1240	<0.0002	<0.0002	0.014	0.015	--	--	--	--	--	0.01	<0.01
32S	11-30-94	1015	<0.0002	<0.0002	0.024	0.012	--	--	--	--	--	<0.01	<0.01

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Mercury, total (mg/L)	Mercury, dissolved (mg/L)	Selenium, total (mg/L as Se)	Selenium, dissolved (mg/L)	Selenium, dissolved (mg/L as Se+4)	Selenium, dissolved (mg/L as Se+6)	Selenium, dissolved organic (mg/L)	Strontium, total, (mg/L)	Strontium, dissolved (mg/L)	Zinc, total (mg/L)	Zinc, dissolved (mg/L)
32S	01-26-95	1330	<0.0002	<0.0002	0.025	0.022	--	--	--	--	--	<0.01	<0.01
32S	02-21-95	1015	<0.0002	<0.0002	0.022	0.021	--	--	--	--	--	<0.01	<0.01
32S	03-22-95	1400	<0.0002	<0.0002	0.023	0.019	--	--	--	--	--	<0.01	<0.01
34S	04-21-94	1310	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	04-21-94	1310	<0.0002	<0.0002	<0.001	0.001	--	--	--	--	--	<0.01	0.04
34S	05-23-94	1310	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	05-23-94	1310	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	06-23-94	1100	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	06-23-94	1100	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	08-02-94	1135	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	08-02-94	1135	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	08-30-94	1216	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	08-30-94	1216	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	09-22-94	1130	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	09-22-94	1130	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	10-24-94	1300	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
34S	10-24-94	1300	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
34S	11-30-94	1000	<0.0002	<0.0002	0.005	0.005	--	--	--	--	--	<0.01	<0.01
34S	11-30-94	1000	<0.0002	<0.0002	0.004	0.005	--	--	--	--	--	<0.01	<0.01
34S	01-26-95	1345	<0.0002	<0.0002	0.013	0.012	--	--	--	--	--	0.01	<0.01
34S	01-26-95	1345	<0.0002	<0.0002	0.013	0.012	--	--	--	--	--	0.01	<0.01
34S	02-21-95	1035	<0.0002	<0.0002	0.009	0.009	--	--	--	--	--	<0.01	<0.01
34S	02-21-95	1035	<0.0002	<0.0002	0.009	0.008	--	--	--	--	--	0.01	<0.01
34S	03-22-95	1430	<0.0002	<0.0002	0.007	0.005	--	--	--	--	--	<0.01	<0.01
34S	03-22-95	1430	<0.0002	<0.0002	0.007	0.005	--	--	--	--	--	<0.01	<0.01

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Mercury, total (mg/L)	Mercury, dissolved (mg/L)	Selenium, total (mg/L as Se)	Selenium, dissolved (mg/L)	Selenium, dissolved (mg/L as Se+4)	Selenium, dissolved (mg/L as Se+6)	Selenium, dissolved organic (mg/L)	Strontium, total, (mg/L)	Strontium, dissolved (mg/L)	Zinc, total (mg/L)	Zinc, dissolved (mg/L)
37S	04-19-94	1705	<0.0002	<0.0002	0.001	<0.001	--	--	--	--	--	0.01	<0.01
37S	05-18-94	1220	<0.0002	<0.0002	0.001	<0.001	--	--	--	--	--	0.02	<0.01
37S	06-17-94	1830	<0.0002	<0.0002	<0.001	<0.001	<0.001	0.001	<0.001	0.87	0.9	<0.01	<0.01
37S	07-20-94	1630	<0.0002	<0.0002	<0.001	0.001	--	--	--	--	--	<0.01	<0.01
37S	08-31-94	1200	<0.0002	<0.0002	0.002	<0.001	--	--	--	--	--	<0.01	<0.01
37S	09-20-94	1300	<0.0002	<0.0002	0.002	<0.001	--	--	--	--	--	<0.01	<0.01
37S	10-19-94	1315	<0.0002	<0.0002	0.001	0.001	--	--	--	--	--	<0.01	<0.01
37S	12-01-94	1330	<0.0002	<0.0002	0.003	0.003	--	--	--	--	--	<0.01	<0.01
37S	12-21-94	1530	<0.0002	<0.0002	0.002	0.002	--	--	--	--	--	0.01	<0.01
37S	01-25-95	1645	<0.0002	<0.0002	0.004	0.004	--	--	--	--	--	0.02	<0.01
37S	02-23-95	1130	<0.0002	<0.0002	0.003	0.003	--	--	--	--	--	0.09	<0.01
37S	03-29-95	1500	<0.0002	<0.0002	0.002	0.001	--	--	--	--	--	0.02	<0.01
38S	04-20-94	1715	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.25	<0.01
38S	05-19-94	1305	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.19	<0.01
38S	06-18-94	1115	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.08	<0.01
38S	07-20-94	1130	<0.0002	<0.0002	<0.001	<0.001	--	--	--	1.22	1.19	0.02	<0.01
38S	08-31-94	1740	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
38S	09-20-94	1420	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.05	<0.01
38S	10-19-94	1640	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.04	<0.01
38S	11-29-94	1650	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
38S	12-21-94	1145	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
38S	01-25-95	1030	<0.0002	0.0004	<0.001	<0.001	--	--	--	--	--	0.06	<0.01
38S	02-21-95	1745	<0.0002	<0.0002	<0.001	0.001	--	--	--	--	--	0.14	<0.01
38S	03-29-95	1100	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.05	<0.01
40S	04-20-94	1815	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.25	<0.01

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Mercury, total (mg/L)	Mercury, dissolved (mg/L)	Selenium, total (mg/L as Se)	Selenium, dissolved (mg/L)	Selenium, dissolved (mg/L as Se+4)	Selenium, dissolved (mg/L as Se+6)	Selenium, dissolved organic (mg/L)	Strontium, total, (mg/L)	Strontium, dissolved (mg/L)	Zinc, total (mg/L)	Zinc, dissolved (mg/L)
40S	05-19-94	1420	<0.0002	<0.0002	<0.001	<0.001	<0.001	<0.001	<0.001	0.35	0.32	0.21	0.02
40S	06-18-94	1230	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.07	<0.01
40S	07-20-94	1230	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
40S	08-31-94	1515	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
40S	09-20-94	1500	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.05	<0.01
40S	10-19-94	1740	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.04	<0.01
40S	11-29-94	1740	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
40S	12-21-94	1100	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
40S	01-25-95	1500	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
40S	02-21-95	1830	<0.0002	<0.0002	0.001	<0.001	--	--	--	--	--	0.09	<0.01
40S	03-29-95	1000	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.05	<0.01
43S	04-20-94	1835	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.14	<0.01
43S	05-19-94	1120	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.09	<0.01
43S	06-17-94	1550	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
43S	07-19-94	2010	<0.0002	<0.0002	<0.005	<0.001	--	--	--	--	--	<0.01	<0.01
43S	08-30-94	1845	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
43S	09-20-94	1810	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.04	<0.01
43S	10-19-94	1030	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.04	<0.01
43S	12-01-94	1115	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.07	0.01
43S	12-21-94	0745	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
43S	01-25-95	0930	<0.0002	0.0002	<0.001	<0.001	--	--	--	--	--	0.07	<0.01
43S	02-23-95	0745	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.17	<0.01
43S	03-27-95	1945	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.04	<0.01
44S	05-18-94	--	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
44S	05-25-94	--	0.0017	<0.0002	<0.001	0.003	--	--	--	--	--	0.62	<0.01

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Mercury, total (mg/L)	Mercury, dissolved (mg/L)	Selenium, total (mg/L as Se)	Selenium, dissolved (mg/L)	Selenium, dissolved (mg/L as Se+4)	Selenium, dissolved (mg/L as Se+6)	Selenium, dissolved organic (mg/L)	Strontium, total, (mg/L)	Strontium, dissolved (mg/L)	Zinc, total (mg/L)	Zinc, dissolved (mg/L)
44S	06-17-94	1900	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
44S	07-20-94	1700	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
44S	08-31-94	1230	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
44S	09-20-94	1100	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
44S	10-19-94	1130	<0.0002	<0.0002	0.002	0.002	--	--	--	--	--	0.03	<0.01
44S	12-01-94	1145	<0.0002	<0.0002	0.003	0.002	--	--	--	--	--	0.01	<0.01
44S	12-21-94	1600	<0.0002	<0.0002	<0.001	0.002	--	--	--	--	--	0.02	<0.01
44S	01-25-95	1545	<0.0002	<0.0002	<0.001	0.002	--	--	--	--	--	0.02	<0.01
44S	02-23-95	1030	<0.0002	<0.0002	0.002	0.002	--	--	--	--	--	0.11	<0.01
44S	03-29-95	1600	<0.0002	<0.0002	0.002	0.001	--	--	--	--	--	0.03	<0.01
47S	04-21-94	1030	<0.0002	<0.0002	<0.001	0.004	--	--	--	--	--	0.13	<0.01
47S	05-23-94	1430	<0.0002	<0.0002	0.002	0.002	--	--	--	--	--	<0.01	0.02
47S	06-23-94	1035	<0.0002	<0.0002	0.002	0.001	--	--	--	--	--	<0.01	<0.01
47S	07-29-94	1500	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
47S	08-30-94	1135	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
47S	09-22-94	1036	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
47S	10-24-94	1345	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
47S	11-30-94	0930	<0.0002	<0.0002	0.004	0.004	--	--	--	--	--	<0.01	<0.01
47S	01-26-95	1300	<0.0002	0.0002	0.013	0.012	--	--	--	--	--	0.01	<0.01
47S	02-21-95	1000	<0.0002	<0.0002	0.012	0.011	--	--	--	--	--	<0.01	<0.01
47S	03-23-95	1430	<0.0002	<0.0002	0.009	0.006	--	--	--	--	--	0.01	<0.01
49S	04-19-94	--	<0.0002	<0.0002	0.017	0.026	--	--	--	--	--	<0.01	<0.01
49S	05-23-94	1540	<0.0002	<0.0002	0.013	0.011	0.003	0.008	<0.001	2.98	3.3	0.01	<0.01
49S	06-23-94	0900	<0.0002	<0.0002	0.020	0.020	0.003	0.017	<0.001	3.13	3.25	<0.01	<0.01
49S	07-29-94	1400	<0.0002	<0.0002	0.009	0.009	0.002	0.007	<0.001	2.13	2.04	<0.01	0.05

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Mercury, total (mg/L)	Mercury, dissolved (mg/L)	Selenium, total (mg/L as Se)	Selenium, dissolved (mg/L)	Selenium, dissolved (mg/L as Se+4)	Selenium, dissolved (mg/L as Se+6)	Selenium, dissolved organic (mg/L)	Strontium, total, (mg/L)	Strontium, dissolved (mg/L)	Zinc, total (mg/L)	Zinc, dissolved (mg/L)
49S	09-22-94	0900	<0.0002	<0.0002	0.012	0.011	--	--	--	--	--	<0.01	<0.01
49S	10-24-94	1430	<0.0002	<0.0002	0.018	0.020	--	--	--	--	--	<0.01	<0.01
49S	11-30-94	0850	<0.0002	<0.0002	0.030	0.030	--	--	--	--	--	<0.01	<0.01
49S	01-26-95	1145	<0.0002	0.0002	0.033	0.032	--	--	--	--	--	0.01	<0.01
49S	02-21-95	0900	<0.0002	<0.0002	0.020	0.030	--	--	--	--	--	<0.01	<0.01
49S	03-23-95	1330	<0.0002	<0.0002	0.028	0.024	--	--	--	--	--	<0.01	<0.01
54S	04-20-94	1920	<0.0002	<0.0002	<0.001	0.001	--	--	--	--	--	0.15	<0.01
54S	05-18-94	1430	<0.0002	<0.0002	<0.001	<0.001	<0.001	0.001	<0.001	0.36	0.32	0.16	<0.01
54S	06-17-94	1500	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
54S	07-19-94	1920	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
54S	08-30-94	1730	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	0.03
54S	09-20-94	1710	<0.0002	<0.0002	<0.001	<0.002	--	--	--	--	--	0.05	<0.01
54S	10-18-94	1945	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.11	<0.01
54S	12-01-94	1000	<0.0002	<0.0002	0.001	0.001	--	--	--	--	--	0.01	<0.01
54S	12-20-94	1745	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	0.01
54S	01-25-95	0800	0.0004	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
54S	02-22-95	1745	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.37	0.01
54S	03-27-95	1815	<0.0002	<0.0002	0.001	<0.001	--	--	--	--	--	0.04	<0.01
58S	04-19-94	1340	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.11	<0.01
58S	05-18-94	1515	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.14	<0.01
58S	06-17-94	1335	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
58S	07-19-94	1835	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
58S	08-30-94	1645	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
58S	09-20-94	1545	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.04	<0.01
58S	10-18-94	1900	<0.0002	<0.0002	<0.001	0.001	--	--	--	--	--	0.24	<0.01

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Mercury, total (mg/L)	Mercury, dissolved (mg/L)	Selenium, total (mg/L as Se)	Selenium, dissolved (mg/L)	Selenium, dissolved (mg/L as Se+4)	Selenium, dissolved (mg/L as Se+6)	Selenium, dissolved organic (mg/L)	Strontium, total, (mg/L)	Strontium, dissolved (mg/L)	Zinc, total (mg/L)	Zinc, dissolved (mg/L)
58S	11-30-94	1800	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
58S	12-20-94	1700	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
58S	01-24-95	1815	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
58S	02-22-95	1700	0.0002	<0.0002	0.001	<0.001	--	--	--	--	--	0.44	<0.01
58S	03-28-95	1745	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
59S	04-19-94	1300	<0.0002	<0.0002	<0.001	0.001	--	--	--	--	--	0.02	<0.01
59S	05-18-94	1855	<0.0002	<0.0002	0.001	0.001	--	--	--	2.35	2.07	0.07	<0.01
59S	05-25-94	1245	<0.0002	<0.0002	<0.001	0.002	--	--	--	--	--	0.20	<0.01
59S	06-17-94	1250	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
59S	07-20-94	0900	0.003	<0.0002	<0.010	0.002	--	--	--	--	--	5.75	0.11
59S	09-20-94	1630	0.002	<0.0002	<0.010	<0.002	--	--	--	--	--	2.50	0.01
59S	10-18-94	1820	0.0017	<0.0002	<0.010	0.004	--	--	--	--	--	4.13	<0.01
59S	11-30-94	1720	<0.0002	<0.0002	0.001	<0.001	--	--	--	--	--	0.13	<0.01
59S	12-20-94	1630	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.05	<0.01
59S	01-24-95	1730	<0.0002	<0.0002	0.002	0.001	--	--	--	--	--	0.32	<0.01
59S	02-22-95	1630	0.0002	<0.0002	0.002	0.002	--	--	--	--	--	0.36	<0.01
59S	03-28-95	1700	<0.0002	<0.0002	0.004	0.003	--	--	--	--	--	0.04	<0.01
63S	04-21-94	0940	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.10	<0.01
63S	04-21-94	0940	<0.0002	<0.0002	<0.001	0.001	--	--	--	--	--	0.11	<0.01
63S	05-18-94	1600	<0.0002	<0.0002	<0.001	<0.001	--	--	--	0.38	0.33	0.18	<0.01
63S	05-18-94	1600	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.19	<0.01
63S	06-17-94	1215	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
63S	06-17-94	1215	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
63S	07-19-94	1800	0.0005	<0.0002	<0.002	<0.001	--	--	--	--	--	1.38	<0.01
63S	07-19-94	1800	0.0005	<0.0002	<0.002	<0.001	--	--	--	--	--	1.38	<0.01

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Mercury, total (mg/L)	Mercury, dissolved (mg/L)	Selenium, total (mg/L as Se)	Selenium, dissolved (mg/L)	Selenium, dissolved (mg/L as Se+4)	Selenium, dissolved (mg/L as Se+6)	Selenium, dissolved organic (mg/L)	Strontium, total, (mg/L)	Strontium, dissolved (mg/L)	Zinc, total (mg/L)	Zinc, dissolved (mg/L)
63S	08-30-94	1600	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
63S	08-30-94	1600	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
63S	09-22-94	1800	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.07	<0.01
63S	09-22-94	1800	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.07	<0.01
63S	10-18-94	1730	0.0004	<0.0002	0.002	0.001	--	--	--	--	--	1.13	<0.01
63S	10-18-94	1730	<0.0002	<0.0002	0.003	0.001	--	--	--	--	--	1.00	<0.01
63S	11-30-94	1630	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
63S	11-30-94	1630	<0.0002	0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
63S	12-20-94	1545	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
63S	12-20-94	1545	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
63S	01-24-95	1700	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.03	<0.01
63S	01-24-95	1700	<0.0002	0.0003	0.001	<0.001	--	--	--	--	--	0.03	<0.01
63S	02-22-95	1545	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.17	<0.01
63S	02-22-95	1545	0.0016	<0.0002	<0.001	<0.001	--	--	--	--	--	0.17	<0.01
63S	03-28-95	1630	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.04	<0.01
63S	03-28-95	1630	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.04	<0.01
71S	04-21-94	1110	<0.0002	<0.0002	0.001	<0.001	--	--	--	--	--	0.05	<0.01
71S	05-17-94	1840	<0.0002	<0.0002	0.003	<0.001	<0.001	<0.001	<0.001	0.84	0.45	0.21	<0.01
71S	06-17-94	1000	<0.0002	<0.0002	0.003	0.003	--	--	--	--	--	0.03	<0.01
71S	09-22-94	1600	<0.0002	<0.0002	0.012	0.011	--	--	--	--	--	<0.01	<0.01
71S	10-18-94	1530	<0.0002	<0.0002	0.009	0.008	--	--	--	--	--	0.13	<0.01
71S	11-30-94	1430	<0.0002	<0.0002	0.011	0.010	--	--	--	--	--	<0.01	<0.01
71S	12-20-94	1400	<0.0002	<0.0002	0.007	0.007	--	--	--	--	--	0.01	<0.01
71S	01-24-95	1500	<0.0002	<0.0002	0.012	0.011	--	--	--	--	--	0.01	<0.01
71S	02-22-95	1415	<0.0002	<0.0002	0.008	0.009	--	--	--	--	--	0.01	<0.01
71S	03-28-95	1445	<0.0002	<0.0002	0.006	0.005	--	--	--	--	--	0.03	<0.01

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Mercury, total (mg/L)	Mercury, dissolved (mg/L)	Selenium, total (mg/L as Se)	Selenium, dissolved (mg/L)	Selenium, dissolved (mg/L as Se+4)	Selenium, dissolved (mg/L as Se+6)	Selenium, dissolved organic (mg/L)	Strontium, total, (mg/L)	Strontium, dissolved (mg/L)	Zinc, total (mg/L)	Zinc, dissolved (mg/L)
QUALITY-ASSURANCE/QUALITY-CONTROL SAMPLES: DUPLICATES													
34S	04-21-94	1310	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	04-21-94	1310	<0.0002	<0.0002	<0.001	0.001	--	--	--	--	--	<0.01	0.04
34S	05-23-94	1310	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	05-23-94	1310	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	06-23-94	1100	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	06-23-94	1100	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	08-02-94	1135	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	08-02-94	1135	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	08-30-94	1216	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	08-30-94	1216	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	09-22-94	1130	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	09-22-94	1130	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	<0.01	<0.01
34S	10-24-94	1300	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.02	<0.01
34S	10-24-94	1300	<0.0002	<0.0002	<0.001	<0.001	--	--	--	--	--	0.01	<0.01
34S	11-30-94	1000	<0.0002	<0.0002	0.005	0.005	--	--	--	--	--	<0.01	<0.01
34S	11-30-94	1000	<0.0002	<0.0002	0.004	0.005	--	--	--	--	--	<0.01	<0.01
34S	01-26-95	1345	<0.0002	<0.0002	0.013	0.012	--	--	--	--	--	0.01	<0.01
34S	01-26-95	1345	<0.0002	<0.0002	0.013	0.012	--	--	--	--	--	0.01	<0.01
34S	02-21-95	1035	<0.0002	<0.0002	0.009	0.009	--	--	--	--	--	<0.01	<0.01
34S	02-21-95	1035	<0.0002	<0.0002	0.009	0.008	--	--	--	--	--	0.01	<0.01
34S	03-22-95	1430	<0.0002	<0.0002	0.007	0.005	--	--	--	--	--	<0.01	<0.01
34S	03-22-95	1430	<0.0002	<0.0002	0.007	0.005	--	--	--	--	--	<0.01	<0.01

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Mercury, total (mg/L)	Mercury, dissolved (mg/L)	Selenium, total (mg/L as Se)	Selenium, dissolved (mg/L)	Selenium, dissolved (mg/L as Se+4)	Selenium, dissolved (mg/L as Se+6)	Selenium, dissolved organic (mg/L)	Strontium, total, (mg/L)	Strontium, dissolved (mg/L)	Zinc, total (mg/L)	Zinc, dissolved (mg/L)
QUALITY-ASSURANCE/QUALITY-CONTROL SAMPLES: SPIKES													
26S	04-20-94	1045	<0.0002	<0.0002	0.006	0.004	--	--	--	--	--	0.03	<0.01
26S	05-16-94	1230	0.0003	<0.0002	0.007	0.010	--	--	--	--	--	<0.01	0.01
26S	06-13-94	1345	<0.0002	<0.0002	0.005	<0.001	--	--	--	--	--	0.01	<0.01
26S	07-18-94	1320	<0.0002	<0.0002	0.006	<0.005	--	--	--	--	--	0.08	0.02
26S	08-29-94	1145	<0.0002	<0.0002	0.011	0.011	--	--	--	--	--	0.07	<0.01
26S	09-19-94	1200	<0.0002	<0.0002	0.011	0.012	--	--	--	--	--	0.03	0.02
26S	10-17-94	1400	<0.0002	<0.0002	0.009	0.011	--	--	--	--	--	0.23	0.02
26S	11-29-94	0950	<0.0002	<0.0002	0.011	0.006	--	--	--	--	--	0.02	0.01
26S	12-19-94	1230	<0.0002	<0.0002	0.008	0.006	--	--	--	--	--	0.02	0.01
26S	01-23-95	1030	<0.0002	<0.0002	0.012	0.010	--	--	--	--	--	0.03	0.06
26S	02-21-95	1000	<0.0002	<0.0002	0.009	0.010	--	--	--	--	--	0.32	0.02
26S	03-27-95	1230	<0.0002	<0.0002	0.011	0.009	--	--	--	--	--	0.03	0.02
54S	04-20-94	1920	<0.0002	<0.0002	0.006	0.010	--	--	--	--	--	0.19	<0.01
54S	05-18-94	1430	<0.0002	<0.0002	0.007	0.007	--	--	--	--	--	0.17	0.01
54S	06-17-94	1500	<0.0002	<0.0002	0.009	0.008	--	--	--	--	--	0.04	<0.01
54S	07-19-94	1920	<0.0002	<0.0002	0.008	0.008	--	--	--	--	--	0.01	0.01
54S	08-30-94	1730	<0.0002	<0.0002	0.011	0.012	--	--	--	--	--	0.04	0.01
54S	09-20-94	1710	<0.0002	<0.0002	0.009	0.010	--	--	--	--	--	0.05	0.01
54S	10-18-94	1945	<0.0002	<0.0002	0.011	0.012	--	--	--	--	--	0.13	0.01
54S	12-01-94	1000	<0.0002	<0.0002	0.012	0.011	--	--	--	--	--	0.03	0.01
54S	12-20-94	1745	<0.0002	<0.0002	0.007	0.006	--	--	--	--	--	0.02	0.01
54S	01-25-95	0800	<0.0002	<0.0002	0.012	0.011	--	--	--	--	--	0.04	0.01
54S	02-22-95	1745	0.0002	<0.0002	0.009	0.011	--	--	--	--	--	0.37	0.02
54S	03-27-95	1815	<0.0002	<0.0002	0.011	0.009	--	--	--	--	--	0.05	0.02

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Aluminum, total (mg/L)	Aluminum, dissolved (mg/L)	Barium, total (mg/L)	Barium, dissolved (mg/L)	Copper, total (mg/L)	Copper, dissolved (mg/L)	Manganese, total (mg/L)	Manganese, dissolved (mg/L)	Nickel, total (mg/L)	Nickel, dissolved (mg/L)
5S	07-18-94	1745	0.17	<0.05	0.06	0.06	0.03	<0.01	<0.01	<0.01	<0.02	<0.02
19S	06-13-94	1500	0.73	<0.05	0.06	0.05	<0.01	<0.01	0.02	<0.01	<0.02	<0.02
21S	06-18-94	1000	0.69	<0.05	0.51	0.05	0.02	<0.01	0.08	0.03	<0.02	<0.02
26S	05-16-94	1230	2.90	<0.05	0.09	0.06	0.02	<0.01	0.05	0.01	<0.02	<0.02
29S	05-23-94	1130	66.70	<0.05	0.43	0.04	0.02	<0.01	0.77	<0.01	<0.02	<0.02
29S	06-23-94	0800	576.00	0.06	2.64	0.04	0.23	<0.01	4.21	<0.01	0.13	<0.02
29S	08-02-94	0930	16.60	<0.05	0.38	0.12	<0.01	<0.01	7.07	<0.01	<0.02	<0.02
29S	08-30-94	1330	19.70	0.05	0.24	0.09	<0.01	<0.01	0.24	<0.01	<0.02	<0.02
37S	06-17-94	1830	0.20	<0.05	0.05	0.04	<0.01	<0.01	0.03	0.02	<0.02	<0.02
38S	07-20-94	1130	0.64	<0.05	0.10	0.09	<0.01	<0.01	0.08	0.03	<0.02	<0.02
40S	05-19-94	1420	5.79	<0.05	0.11	0.05	0.04	<0.01	0.41	0.05	<0.02	<0.02
49S	05-23-94	1540	0.57	<0.05	0.04	0.04	<0.01	<0.01	0.02	0.01	<0.02	<0.02
49S	06-23-94	0900	0.18	<0.05	0.04	0.03	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02
49S	07-29-94	1400	0.26	<0.05	0.04	0.19	<0.01	<0.01	<0.01	<0.01	<0.02	<0.02
54S	05-18-94	1430	8.91	0.06	0.16	0.06	0.03	<0.01	0.38	0.02	<0.02	<0.02
59S	05-18-94	1855	43.20	<0.05	0.31	0.12	0.03	<0.01	0.23	<0.01	<0.02	<0.02
63S	05-18-94	1600	11.20	<0.05	0.19	0.05	0.04	<0.01	--	--	<0.02	<0.02
71S	05-17-94	1840	64.30	<0.05	0.55	0.03	0.12	<0.01	1.14	<0.01	0.06	<0.02

Table 17.--Physical properties and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Continued

Site number (fig. 3, table 15)	Date	Time	Calcium, total (mg/L)	Calcium, dissolved (mg/L)	Magnesium, total (mg/L)	Magnesium, dissolved (mg/L)	Sodium, total (mg/L)	Sodium, dissolved (mg/L)	Potassium, total (mg/L)	Potassium, dissolved (mg/L)	Bicarbonate, dissolved (mg/L as HCO_3)	Carbonate, dissolved (mg/L as CO_3)	Alkalinity, lab (mg/L as $CaCO_3$)
5S	07-18-94	1745	29	28	6	6	13	13	2	2	78	0	78
19S	06-13-94	1500	28	29	6	6	13	13	2	2	80	0	80
07S	06-18-94	1000	35	36	5	5	9	8	1	1	66	0	66
26S	05-16-94	1230	30	30	7	7	15	16	3	2	84	0	84
29S	05-23-94	1130	150	110	24	24	280	250	13	4	140	0	140
29S	06-23-94	0800	180	34	69	69	240	200	65	3	130	0	130
29S	08-02-94	0930	340	84	18	18	140	160	6	3	140	0	140
29S	08-30-94	1330	84	78	13	13	110	130	6	4	130	0	130
37S	06-17-94	1830	120	120	62	62	51	51	3	3	210	0	210
38S	07-20-94	1130	92	90	14	14	35	35	3	3	180	0	180
40S	05-19-94	1420	38	34	6	6	6	6	3	1	72	0	72
49S	05-23-94	1540	170	180	48	48	320	320	2	2	250	0	250
49S	06-23-94	0900	190	190	49	49	330	360	2	2	240	0	240
49S	07-29-94	1400	140	130	34	34	190	200	2	2	190	0	190
54S	05-18-94	1430	38	33	8	8	13	13	4	2	80	0	80
59S	05-18-94	1855	130	120	60	60	170	160	17	8	130	0	130
63S	04-21-94	0940	130	120	60	60	170	160	17	8	130	0	130
63S	04-21-94	0940	38	33	8	8	13	13	4	2	80	0	80
63S	05-18-94	1600	40	33	9	9	14	13	4	2	82	0	82
63S	06-17-94	1215	38	34	6	6	6	6	3	1	72	0	72
63S	06-17-94	1215	38	34	6	6	6	6	3	1	72	0	72
63S	07-19-94	1800	170	180	48	48	320	320	2	2	250	0	250
63S	05-16-94	1800	150	110	24	24	280	250	13	4	140	0	140
63S	05-23-94	1800	150	110	24	24	280	250	13	4	140	0	140
71S	06-23-94	1840	170	48	49	49	22	22	19	2	92	0	92

Table 17.--Physical properties of and concentrations of selected chemical constituents in supplemental water samples and quality-assurance samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1994-95--Concluded

Site number (fig. 3, table 15)	Date	Time	Sulfate, dissolved (mg/L)	Chloride, dissolved (mg/L)	Silica, total (mg/L)	Silica, dissolved (mg/L)	Nitrogen, dissolved (mg/L as NO_3)	Nitrogen, dissolved (mg/L as NO_2)	Nitrogen, dissolved (mg/L as NO_3+ NO_2)	Nitrogen, dissolved (mg/L as NH_3)	Cation-anion balance (percent)
5S	07-18-94	1745	41	2	13.0	12.0	0.06	<0.01	0.06	<0.05	0.8
19S	06-13-94	1500	35	2	14.0	12.0	0.05	<0.01	0.05	0.27	3.63
07S	06-18-94	1000	56	5	8.2	6.1	0.14	<0.01	0.14	<0.05	-0.96
26S	05-16-94	1230	43	2	22.0	12.0	0.06	<0.01	0.06	0.08	3.47
29S	05-23-94	1130	680	35	270.0	16.0	2.61	<0.01	2.61	<0.05	-0.55
29S	06-23-94	0800	320	23	370.0	15.0	1.3	0.02	1.32	0.06	4.37
29S	08-02-94	0930	420	30	88.0	16.0	1.64	<0.01	1.64	0.05	-1.34
29S	08-30-94	1330	340	27	110.0	19.0	1.56	<0.01	1.56	0.07	0.38
37S	06-17-94	1830	410	21	11.0	9.4	<0.02	<0.01	<0.02	<0.05	-0.3
38S	07-20-94	1130	160	23	6.9	4.8	0.12	<0.01	0.12	<0.05	-1.89
40S	05-19-94	1420	41	3	27.0	4.9	5.69	0.01	5.7	0.09	0.21
49S	05-23-94	1540	1,000	110	15.0	12.0	9.57	0.03	9.6	<0.05	-3.89
49S	06-23-94	0900	1,100	120	16.0	16.0	11.29	0.01	11.3	<0.05	-1.31
49S	07-29-94	1400	640	69	20.0	19.0	4.78	0.02	4.8	<0.05	-3.54
54S	05-18-94	1430	45	3	46.0	9.0	0.1	<0.01	0.1	0.07	2.59
59S	05-18-94	1855	660	42	200.0	1.4	1.32	<0.01	1.32	0.07	-1.09
63S	04-21-94	0940	660	42	200.0	1.4	1.32	<0.01	1.32	0.07	-1.09
63S	04-21-94	0940	45	3	46.0	9.0	0.1	<0.01	0.1	0.07	2.59
63S	05-18-94	1600	54	3	56.0	8.6	0.11	<0.01	0.11	0.08	-1.6
63S	06-17-94	1215	41	3	27.0	4.9	5.69	0.01	5.7	0.09	0.21
63S	06-17-94	1215	41	3	27.0	4.9	5.69	0.01	5.7	0.09	0.21
63S	07-19-94	1800	1,000	110	15.0	12.0	9.57	0.03	9.6	<0.05	-3.89
63S	05-16-94	1800	680	35	270.0	16.0	2.61	<0.01	2.61	<0.05	-0.55
63S	05-23-94	1800	680	35	270.0	16.0	2.61	<0.01	2.61	<0.05	-0.55
71S	06-23-94	1840	140	3	210.0	7.9	0.22	<0.01	0.22	0.11	0.41

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95

[Concentrations are in micrograms per gram, dry weight; <, less than; --, no data]

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
02S	001-0363F	04-15-92	Whole body	Rainbow trout	--	4	--	--	--	--	--	--	--	--	--
02S	001-0364F	04-15-92	Whole body	Rainbow trout	--	3.7	--	--	--	--	--	--	--	--	--
02S	001-0365F	04-15-92	Whole body	Rainbow trout	--	2.5	--	--	--	--	--	--	--	--	--
02S	049-0507F	02-17-93	Whole body	Rainbow trout	71.0	1.54	--	--	--	--	--	--	--	--	--
02S	049-0508F	02-17-93	Whole body	Rainbow trout	79.5	2.15	--	--	--	--	--	--	--	--	--
02S	049-0509F	02-17-93	Whole body	Rainbow trout	73.7	1.56	--	--	--	--	--	--	--	--	--
03S	002-0366F	04-15-92	Whole body	Rainbow trout	--	5.1	--	--	--	--	--	--	--	--	--
03S	002-0367F	04-15-92	Whole body	Rainbow trout	--	4.2	--	--	--	--	--	--	--	--	--
03S	002-0368F	04-15-92	Whole body	Rainbow trout	--	3.6	--	--	--	--	--	--	--	--	--
03S	002-0369F	04-15-92	Whole body	Carp	--	2.6	--	--	--	--	--	--	--	--	--
03S	002-0370F	04-15-92	Whole body	Carp	--	2.4	--	--	--	--	--	--	--	--	--
03S	075-0651M	04-17-93	Whole body	Macroinvertebrates	1.0	10.31	--	--	--	--	--	--	--	--	--
04S	003-0371F	04-15-92	Whole body	Rainbow trout	--	3.8	--	--	--	--	--	--	--	--	--
04S	003-0372F	04-15-92	Whole body	Rainbow trout	--	4.5	--	--	--	--	--	--	--	--	--
04S	003-0373F	04-15-92	Whole body	Rainbow trout	--	4.6	--	--	--	--	--	--	--	--	--
07S	004-0374F	04-15-92	Whole body	Rainbow trout	--	1.1	--	--	--	--	--	--	--	--	--
07S	004-0375F	04-15-92	Whole body	Rainbow trout	--	1.2	--	--	--	--	--	--	--	--	--
07S	004-0376F	04-15-92	Whole body	Rainbow trout	--	2.2	--	--	--	--	--	--	--	--	--
07S	075-0652M	02-17-93	Whole body	Macroinvertebrates	0.8	13.47	--	--	--	--	--	--	--	--	--
07S	BGD-0431M	03-15-94	Whole body	Macroinvertebrates	--	11.1	--	--	--	--	--	--	--	--	--
08S	050-0510F	02-17-93	Whole body	Rainbow trout	72.9	4.9	--	--	--	--	--	--	--	--	--
08S	050-0511F	02-17-93	Whole body	Rainbow trout	75.9	1.37	--	--	--	--	--	--	--	--	--
08S	050-0512F	02-17-93	Whole body	Rainbow trout	73.6	1.83	--	--	--	--	--	--	--	--	--
08S	050-0513F	02-17-93	Whole body	Flannelmouth	62.3	2.02	--	--	--	--	--	--	--	--	--
08S	050-0514F	02-17-93	Whole body	Flannelmouth	64.5	2.9	--	--	--	--	--	--	--	--	--

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
08S	050-0515F	02-17-93	Whole body	Flannelmouth	67.0	2.48	--	--	--	--	--	--	--	--	--
08S	BGD-0426 F	03-15-94	Whole body	Rainbow trout	70.7	2.5	103	0.5	11	4	<0.1	0.02	0.5	3.9	237
08S	BGD-0426 F	03-15-94	Whole body	Rainbow trout	73.8	3.7	478	0.3	11	7	<0.1	0.02	<0.5	2.6	525
08S	BGD-0426 F	03-15-94	Whole body	Rainbow trout	77.1	1.8	222	0.4	3	12	<0.1	0.01	2.2	3	192
08S	BGD-0427 F	03-15-94	Whole body	Flannelmouth	63.8	1.9	289	<0.2	6	8	<0.1	0.03	1.7	2	224
08S	BGD-0427 F	03-15-94	Whole body	Flannelmouth	65.1	1.7	168	<0.2	3	7	<0.1	0.03	<0.5	2.6	147
08S	BGD-0427 F	03-15-94	Whole body	Flannelmouth	60.0	1.6	69	0.3	<2	1	<0.1	0.03	<0.5	1.4	80
08S	BGD-0428 F	03-15-94	Whole body	Brown trout	74.9	3.7	28	<0.2	4	<1	<0.1	0.03	<0.5	4	89
08S	BGD-0428 F	03-15-94	Whole body	Brown trout	77.5	4.5	89	<0.2	19	<1	<0.1	0.04	<0.5	6.5	105
08S	BGD-0428 F	03-15-94	Whole body	Brown trout	76.3	4	66	<0.2	8	1	<0.1	0.02	<0.5	8.5	106
08S	BGD-0429 F	03-15-94	Whole body	Small fish (seined)	76.4	4	134	0.8	2	14	<0.1	0.09	0.7	3	145
09S	06-0831F	05-13-91	Whole body	Flannelmouth	67.4	3	--	--	--	--	--	--	--	--	--
09S	07-0832F	05-13-91	Whole body	Flannelmouth	73.8	3.1	--	--	--	--	--	--	--	--	--
09S	08-0833F	05-13-91	Whole body	Flannelmouth	73.8	4.1	--	--	--	--	--	--	--	--	--
10S	03-0303F	03-01-94	Whole body	Rainbow trout	77.8	6	556	<0.2	7	5	<0.1	0.04	<0.5	5.8	380
10S	03-0304	03-01-94	Whole body	Flannelmouth	67.7	2.9	335	0.2	5	6	<0.1	0.85	<0.5	2.2	246
10S	03-0305	03-01-94	Whole body	Flannelmouth	65.8	2.2	305	<0.2	<2	7	<0.1	0.05	0.7	2.1	221
10S	03-0306	03-01-94	Whole body	Periphyton	42.9	<0.15	17,800	4.2	16	445	1.1	0.07	15.2	10.5	14,300
10S	03-0307	03-01-94	Whole body	Small fish (seined)	72.2	9.3	441	<0.2	<2	19	<0.1	0.08	2.7	2.5	308
10S	03-0308	03-01-94	Whole body	Macroinvertebrates	66.1	4.5	1,980	0.6	<2	32	<0.1	0.18	1.2	16.4	1,310
10S	03-0309	03-01-94	Whole body	Flannelmouth	64.7	2.4	479	<0.2	5	4	<0.1	0.04	<0.5	1.7	312
10S	461-2639	09-13-94	Whole body	Periphyton	79.5	3	26,100	4.5	34	440	1.1	0.16	16.5	15.1	16,000
10S	461-2640	09-13-94	Whole body	Macroinvertebrates	78.6	8.3	4,710	3.7	11	82	<0.1	0.39	3.1	14.6	3,250
10S	461-2641	09-13-94	Whole body	Small fish (seined)	71.2	9.5	113	<0.5	<2	11	<0.1	<0.1	3.7	1.9	122
10S	461-2642	09-13-94	Whole body	Small fish (seined)	70.1	12.8	197	<0.5	<2	10	<0.1	<0.1	2.5	2.5	185

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
10S	461-2643	09-13-94	Whole body	Flannelmouth	67.0	2.1	319	<0.5	<2	6	<0.1	<0.1	0.9	1.8	223
10S	461-2644	09-13-94	Whole body	Rainbow trout	66.9	4.3	205	<0.5	<2	4	<0.1	<0.1	<0.5	4.3	179
10S	461-2645	09-13-94	Whole body	Carp	69.1	3.4	165	<0.5	3	7	1.1	0.15	3.2	5.4	163
11S	01-0826F	05-13-91	Whole body	Bluehead	77.0	4.8	--	--	--	--	--	--	--	--	--
11S	02-0827F	05-13-91	Whole body	Bluehead	72.2	3.4	--	--	--	--	--	--	--	--	--
11S	03-0828F	05-13-91	Whole body	Carp	74.1	5.5	--	--	--	--	--	--	--	--	--
11S	04-0829F	05-13-91	Whole body	Carp	71.1	4.3	--	--	--	--	--	--	--	--	--
11S	05-0830F	05-13-91	Whole body	Carp	--	3.6	--	--	--	--	--	--	--	--	--
11S	051-0516F	02-17-93	Whole body	Flannelmouth	61.2	2.45	--	--	--	--	--	--	--	--	--
11S	051-0517F	02-17-93	Whole body	Flannelmouth	69.3	2.5	--	--	--	--	--	--	--	--	--
11S	051-0518F	02-17-93	Whole body	Flannelmouth	65.8	2.95	--	--	--	--	--	--	--	--	--
11S	051-0519F	02-17-93	Whole body	Rainbow trout	77.1	0.66	--	--	--	--	--	--	--	--	--
11S	051-0520F	02-17-93	Whole body	Rainbow trout	78.6	11.02	--	--	--	--	--	--	--	--	--
11S	051-0521F	02-17-93	Whole body	Rainbow trout	72.7	3.84	--	--	--	--	--	--	--	--	--
12S	005-0377F	04-15-92	Whole body	Flannelmouth	--	2.8	--	--	--	--	--	--	--	--	--
12S	005-0378F	04-15-92	Whole body	Flannelmouth	--	2.1	--	--	--	--	--	--	--	--	--
12S	005-0379F	04-15-92	Whole body	Flannelmouth	--	2.1	--	--	--	--	--	--	--	--	--
12S	075-0653M	02-17-93	Whole body	Macroinvertebrates	1.3	11.05	--	--	--	--	--	--	--	--	--
13S	006-0380F	04-16-92	Whole body	Flannelmouth	--	2.2	--	--	--	--	--	--	--	--	--
13S	006-0381F	04-16-92	Whole body	Flannelmouth	--	2.4	--	--	--	--	--	--	--	--	--
13S	006-0382F	04-16-92	Whole body	Flannelmouth	--	2.8	--	--	--	--	--	--	--	--	--
13S	006-0383F	04-16-92	Whole body	Bluehead	--	2.6	--	--	--	--	--	--	--	--	--
13S	052-0522F	02-16-93	Whole body	Flannelmouth	70.4	3.03	--	--	--	--	--	--	--	--	--
13S	052-0523F	02-16-93	Whole body	Flannelmouth	72.4	2.28	--	--	--	--	--	--	--	--	--
13S	052-0524F	02-16-93	Whole body	Flannelmouth	72.1	3.18	--	--	--	--	--	--	--	--	--

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
13S	075-0654M	02-16-93	Whole body	Macroinvertebrates	1.2	6.44	--	--	--	--	--	--	--	--	--
13S	09-0834F	05-13-91	Whole body	Flannelmouth	67.5	2.5	--	--	--	--	--	--	--	--	--
13S	10-0835F	05-13-91	Whole body	Flannelmouth	69.5	3	--	--	--	--	--	--	--	--	--
13S	11-0836F	05-13-91	Whole body	Flannelmouth	71.2	3.4	--	--	--	--	--	--	--	--	--
14S	12-0837F	05-13-91	Whole body	Bluehead	72.3	2.6	--	--	--	--	--	--	--	--	--
14S	13-0838F	05-13-91	Whole body	Bluehead	66.9	3.1	--	--	--	--	--	--	--	--	--
14S	14-0839F	05-13-91	Whole body	Bluehead	69.9	2.3	--	--	--	--	--	--	--	--	--
15S	82-0907F	05-13-91	Whole body	Western mosquitofish	--	1.3	--	--	--	--	--	--	--	--	--
16S	79-0904F	05-13-91	Whole body	Banded killifish	--	1.1	--	--	--	--	--	--	--	--	--
16S	80-0905F	05-13-91	Whole body	Flathead minnow	--	0.6	--	--	--	--	--	--	--	--	--
16S	81-0906F	05-13-91	Whole body	Western mosquitofish	--	0.95	--	--	--	--	--	--	--	--	--
17S	15-0840F	05-13-91	Whole body	Flannelmouth	72.0	2.8	--	--	--	--	--	--	--	--	--
17S	16-0841F	05-13-91	Whole body	Flannelmouth	67.9	2.7	--	--	--	--	--	--	--	--	--
17S	17-0842F	05-13-91	Whole body	Flannelmouth	73.2	2.6	--	--	--		--	--	--	--	--
17S	18-0843F	05-13-91	Whole body	Bluehead	78.5	2.5	--	--	--	--	--	--	--	--	--
17S	19-0844F	05-13-91	Whole body	Bluehead	70.0	1.8	--	--	--	--	--	--	--	--	--
17S	20-0845F	05-13-91	Whole body	Bluehead	67.2	2	--	--	--	--	--	--	--	--	--
18S	055-0537F	02-18-93	Whole body	Flannelmouth	72.7	4.7	--	--	--	--	--	--	--	--	--
18S	055-0538F	02-18-93	Whole body	Flannelmouth	72.3	2.15	--	--	--	--	--	--	--	--	--
18S	055-0539F	02-18-93	Whole body	Flannelmouth	74.9	3.03	--	--	--	--	--	--	--	--	--
18S	055-0540F	02-18-93	Whole body	Bluehead	67.8	1.81	--	--	--	--	--	--	--	--	--
18S	055-0541F	02-18-93	Whole body	Bluehead	71.6	2.85	--	--	--	--	--	--	--	--	--
18S	055-0542F	02-18-93	Whole body	Bluehead	69.2	2.77	--	--	--	--	--	--	--	--	--

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
18S	055-0543F	02-18-93	Whole body	Rainbow trout	79.5	15.1	--	--	--	--	--	--	--	--	--
18S	055-0544F	02-18-93	Whole body	Rainbow trout	78.4	2.35	--	--	--	--	--	--	--	--	--
18S	055-0545F	02-18-93	Whole body	Rainbow trout	76.8	7.18	--	--	--	--	--	--	--	--	--
18S	075-0657M	02-18-93	Whole body	Macroinvertebrates	1.4	5.19	--	--	--	--	--	--	--	--	--
19S	462-2650	09-13-94	Whole body	Flannelmouth	64.8	2.6	329	0.9	<2	6	<0.1	<0.1	1.1	3.1	236
20S	04-0310	03-01-94	Whole body	Flannelmouth	65.0	2.4	498	<0.2	3	6	<0.1	0.03	<0.5	1.8	314
20S	04-0311	03-01-94	Whole body	Carp	70.8	3.2	307	<0.2	<2	4	<0.1	0.15	0.5	4	239
20S	04-0312	03-01-94	Whole body	Rainbow trout	74.7	4.2	350	<0.2	<2	4	<0.1	0.02	0.7	2.7	254
20S	04-0313	03-01-94	Whole body	Periphyton	83.3	0.3	19,200	12	63	169	1.2	0.21	14.4	17.6	11,900
20S	04-0314	03-01-94	Whole body	Macroinvertebrates	65.5	2.9	1,940	1.8	9	26	0.1	0.16	1.7	14.7	1,260
20S	04-0315	03-01-94	Whole body	Small fish (seined)	74.3	12.7	1,550	0.3	4	24	<0.1	0.09	2.9	3.4	893
20S	053-0525F	02-16-93	Whole body	Flannelmouth	72.8	4.71	--	--	--	--	--	--	--	--	--
20S	053-0526F	02-16-93	Whole body	Flannelmouth	73.1	3.01	--	--	--	--	--	--	--	--	--
20S	053-0527F	02-16-93	Whole body	Flannelmouth	70.8	3	--	--	--	--	--	--	--	--	--
20S	053-0528F	02-16-93	Whole body	Bluehead	68.4	2.86	--	--	--	--	--	--	--	--	--
20S	053-0529F	02-16-93	Whole body	Bluehead	72.5	3.5	--	--	--	--	--	--	--	--	--
20S	053-0530F	02-16-93	Whole body	Bluehead	69.9	3.38	--	--	--	--	--	--	--	--	--
20S	462-2646	09-13-94	Whole body	Periphyton	83.7	4.4	21,000	4.7	51	454	1.1	0.2	16.4	23	15,100
20S	462-2647	09-13-94	Whole body	Macroinvertebrates	80.4	7.1	3,480	1.7	12	85	<0.1	0.19	1.9	14.6	2,280
20S	462-2648	09-13-94	Whole body	Small fish (seined)	70.1	10.7	1,420	1.6	<2	40	<0.1	<0.1	3.8	3.6	1,300
20S	462-2649	09-13-94	Whole body	Small fish (seined)	71.3	14.3	331	1.4	<2	12	<0.1	<0.1	4.6	2.7	266
20S	462-2651	09-13-94	Whole body	Bluehead	73.0	2.5	1,390	1.2	<2	39	<0.1	<0.1	2.8	2.8	1,450
20S	462-2652	09-13-94	Whole body	Carp	71.9	3.1	272	0.7	<2	9	<0.1	0.1	0.6	4.7	304
22S	83-0908F	05-13-91	Whole body	Western mosquitofish	--	0.87	--	--	--	--	--	--	--	--	--

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
23S	007-0384F	04-16-92	Whole body	Flannelmouth	--	2.5	--	--	--	--	--	--	--	--	--
23S	007-0385F	04-16-92	Whole body	Flannelmouth	--	2.5	--	--	--	--	--	--	--	--	--
23S	007-0386F	04-16-92	Whole body	Flannelmouth	--	2.7	--	--	--	--	--	--	--	--	--
23S	075-0655M	02-16-93	Whole body	Macroinvertebrates	2.2	9.75	--	--	--	--	--	--	--	--	--
24S	054-0531F	02-18-93	Whole body	Flannelmouth	69.4	2.68	--	--	--	--	--	--	--	--	--
24S	054-0532F	02-18-93	Whole body	Flannelmouth	69.7	1.89	--	--	--	--	--	--	--	--	--
24S	054-0533F	02-18-93	Whole body	Flannelmouth	69.1	2.61	--	--	--	--	--	--	--	--	--
24S	054-0534F	02-18-93	Whole body	Bluehead	68.1	1.74	--	--	--	--	--	--	--	--	--
24S	054-0535F	02-18-93	Whole body	Bluehead	69.4	2.63	--	--	--	--	--	--	--	--	--
24S	054-0536F	02-18-93	Whole body	Bluehead	71.6	1.65	--	--	--	--	--	--	--	--	--
24S	21-0846F	05-13-91	Whole body	Flannelmouth	74.1	2.8	--	--	--	--	--	--	--	--	--
24S	22-0847F	05-13-91	Whole body	Flannelmouth	66.4	2.1	--	--	--	--	--	--	--	--	--
24S	23-0848F	05-13-91	Whole body	Flannelmouth	71.9	2.8	--	--	--	--	--	--	--	--	--
24S	24-0849F	05-13-91	Whole body	Bluehead	72.8	2	--	--	--	--	--	--	--	--	--
24S	25-0850F	05-13-91	Whole body	Bluehead	75.3	0.72	--	--	--	--	--	--	--	--	--
24S	26-0851F	05-13-91	Whole body	Bluehead	75.8	2.1	--	--	--	--	--	--	--	--	--
25S	008-0387F	04-16-92	Whole body	Flannelmouth	--	2	--	--	--	--	--	--	--	--	--
25S	008-0388F	04-16-92	Whole body	Flannelmouth	--	1.7	--	--	--	--	--	--	--	--	--
25S	008-0389F	04-16-92	Whole body	Flannelmouth	--	1.4	--	--	--	--	--	--	--	--	--
25S	008-0390F	04-16-92	Whole body	Bluehead	--	1.9	--	--	--	--	--	--	--	--	--
25S	008-0391F	04-16-92	Whole body	Bluehead	--	2.4	--	--	--	--	--	--	--	--	--
25S	008-0392F	04-16-92	Whole body	Bluehead	--	1.4	--	--	--	--	--	--	--	--	--
25S	075-0656M	02-18-93	Whole body	Macroinvertebrates	1.4	5.39	--	--	--	--	--	--	--	--	--
27S	119-0591A	05-20-92	Whole body	Tiger salamander	87.3	6.2	--	--	--	--	--	--	--	--	--
27S	120-0596A	05-20-92	Whole body	Macroinvertebrates	4.6	8.2	--	--	--	--	--	--	--	--	--

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
28S	AG-0414	03-07-94	Whole body	Bluehead	64.2	2.5	933	0.8	<2	16	<0.1	0.05	1	2.9	748
28S	AG-0415	03-07-94	Whole body	Flannelmouth	64.1	1.8	176	0.3	9	7	0.2	0.03	2.5	2.7	164
28S	AG-0416	03-07-94	Whole body	Macroinvertebrates	68.9	1.6	711	0.2	3	11	<0.1	0.05	2.1	4.1	474
28S	AG-0417	03-07-94	Whole body	Macroinvertebrates	70.4	3.1	2,490	0.8	2	44	<0.1	0.15	1.7	19.1	1,760
30S	070-0634M	10-07-92	Whole body	Macroinvertebrates	6.6	21.82	--	--	--	--	--	--	--	--	--
30S	071-0636M	10-28-92	Whole body	Macroinvertebrates	5.7	19.8	--	--	--	--	--	--	--	--	--
30S	072-0640M	03-23-93	Whole body	Macroinvertebrates	6.4	34.39	--	--	--	--	--	--	--	--	--
30S	074-0648A	03-22-93	Whole body	Tiger salamander	82.3	34.42	--	--	--	--	--	--	--	--	--
30S	119-0586A	05-20-92	Whole body	Tiger salamander	90.1	50	--	--	--	--	--	--	--	--	--
30S	120-0593A	05-20-92	Whole body	Macroinvertebrates	2.6	23	--	--	--	--	--	--	--	--	--
30S	259-2099M	11-04-93	Whole body	Macroinvertebrates	1.1	18.2	--	--	--	--	--	--	--	--	--
30S	260-2103A	11-04-93	Whole body	Tiger salamander	88.7	45.9	--	--	--	--	--	--	--		--
30S	392-1495M	03-22-94	Whole body	Macroinvertebrates	--	16.3	--	--	--	--	--	--	--	--	--
30S	392-1500A	03-22-94	Whole body	Tiger salamander	85.2	40.7	--	--	--	--	--	--	--	--	--
30S	544-2375A	04-10-95	Whole body	Tiger salamander	94.4	48.6	--	--	--	--	--	--	--	--	--
31S	009-0393F	04-16-92	Whole body	Flannelmouth	--	1.5	--	--	--	--	--	--	--	--	--
31S	009-0394F	04-16-92	Whole body	Flannelmouth	--	2.4	--	--	--	--	--	--	--	--	--
31S	009-0395F	04-16-92	Whole body	Flannelmouth	--	2.1	--	--	--	--	--	--	--	--	--
31S	009-0396F	04-16-92	Whole body	Bluehead	--	1.7	--	--	--	--	--	--	--	--	--
31S	009-0397F	04-16-92	Whole body	Bluehead	--	1.7	--	--	--	--	--	--	--	--	--
31S	009-0398F	04-16-92	Whole body	Bluehead	--	1.2	--	--	--	--	--	--	--	--	--
31S	056-0546F	02-18-93	Whole body	Flannelmouth	75.5	5.41	--	--	--	--	--	--	--	--	--
31S	056-0547F	02-18-93	Whole body	Flannelmouth	75.1	3.32	--	--	--	--	--	--	--	--	--
31S	056-0548F	02-18-93	Whole body	Flannelmouth	72.8	2.88	--	--	--	--	--	--	--	--	--
31S	056-0549F	02-18-93	Whole body	Bluehead	69.5	2.85	--	--	--	--	--	--	--	--	--

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
31S	056-0550F	02-18-93	Whole body	Bluehead	73.5	2.38	--	--	--	--	--	--	--	--	--
31S	056-0551F	02-18-93	Whole body	Bluehead	73.4	2.36	--	--	--	--	--	--	--	--	--
31S	075-0658M	02-18-93	Whole body	Macroinvertebrates	1.0	5.65	--	--	--	--	--	--	--	--	--
31S	27-0852F	05-13-91	Whole body	Flannelmouth	69.2	1.8	--	--	--	--	--	--	--	--	--
31S	28-0853F	05-13-91	Whole body	Flannelmouth	76.3	3.1	--	--	--	--	--	--	--	--	--
31S	29-0854F	05-13-91	Whole body	Flannelmouth	73.2	3	--	--	--	--	--	--	--	--	--
31S	30-0855F	05-13-91	Whole body	Bluehead	75.0	1.8	--	--	--	--	--	--	--	--	--
31S	31-0856F	05-13-91	Whole body	Bluehead	67.3	1.6	--	--	--	--	--	--	--	--	--
31S	32-0857F	05-13-91	Whole body	Bluehead	75.0	3.7	--	--	--	--	--	--	--	--	--
31S	BG-0418	03-07-94	Whole body	Flannelmouth	65.3	1.9	212	<0.2	<2	11	<0.1	0.03	2.3	1.9	181
31S	BG-0419	03-07-94	Whole body	Bluehead	67.5	1.5	374	0.4	<2	19	<0.1	0.04	2.1	6.7	298
31S	BG-0420	03-07-94	Whole body	Macroinvertebrates	64.5	2.4	1,600	0.3	<2	97	<0.1	0.12	<0.5	16.7	1,150
31S	BG-0421	03-07-94	Whole body	Macroinvertebrates	69.8	2.8	1,830	0.7	<2	68	<0.1	0.14	1.5	21.3	1,220
32S	070-0632M	10-07-92	Whole body	Macroinvertebrates	7.3	14.71	--	--	--	--	--	--	--	--	--
32S	072-0638M	03-23-93	Whole body	Macroinvertebrates	6.7	16.28	--	--	--	--	--	--	--	--	--
32S	073-0643A	10-07-92	Whole body	Tiger salamander	86.3	30.76	--	--	--	--	--	--	--	--	--
32S	074-0647A	03-23-93	Whole body	Tiger salamander	86.1	3.63	--	--	--	--	--	--	--	--	--
32S	119-0587A	05-20-92	Whole body	Tiger salamander	88.8	52	--	--	--	--	--	--	--	--	--
32S	120-0594A	05-20-92	Whole body	Macroinvertebrates	2.4	28	--	--	--	--	--	--	--	--	--
32S	259-2100M	11-04-93	Whole body	Macroinvertebrates	0.7	2.7	--	--	--	--	--	--	--	--	--
32S	260-2104A	11-04-93	Whole body	Tiger salamander	85.0	36.5	--	--	--	--	--	--	--	--	--
32S	392-1496M	03-22-94	Whole body	Macroinvertebrates	--	10.8	--	--	--	--	--	--	--	--	--
32S	392-1501A	03-22-94	Whole body	Tiger salamander	81.5	16.1	--	--	--	--	--	--	--	--	--
32S	526-2273A	09-22-94	Whole body	Tiger salamander	80.6	20.2	--	--	--	--	--	--	--	--	--
32S	544-2377A	05-01-95	Whole body	Tiger salamander	65.4	22.3	--	--	--	--	--	--	--	--	--

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
33S	119-0589A	05-20-92	Whole body	Tiger salamander	84.8	22	--	--	--	--	--	--	--	--	--
33S	120-0595A	05-20-92	Whole body	Macroinvertebrates	2.8	17	--	--	--	--	--	--	--	--	--
34S	070-0633M	10-07-92	Whole body	Macroinvertebrates	7.0	2.63	--	--	--	--	--	--	--	--	--
34S	072-0639M	03-23-93	Whole body	Macroinvertebrates	7.0	2.66	--	--	--	--	--	--	--	--	--
34S	073-0644A	10-23-92	Whole body	Tiger salamander	81.4	2.27	--	--	--	--	--	--	--	--	--
34S	074-0646A	03-19-93	Whole body	Tiger salamander	88.5	4.8	--	--	--	--	--	--	--	--	--
34S	259-2101M	11-04-93	Whole body	Macroinvertebrates	.5	2	--	--	--	--	--	--	--	--	--
34S	260-2105A	11-04-93	Whole body	Tiger salamander	81.0	5.8	--	--	--	--	--	--	--	--	--
34S	392-1497M	03-22-94	Whole body	Macroinvertebrates	--	3.5	--	--	--	--	--	--	--	--	--
34S	392-1502A	04-05-94	Whole body	Tiger salamander	85.3	9	--	--	--	--	--	--	--	--	--
34S	544-2379A	03-31-95	Whole body	Tiger salamander	67.2	7.56	--	--	--	--	--	--	--	--	--
35S	33-0858F	05-13-91	Whole body	Bluehead	76.0	2.1	--	--	--	--	--	--	--	--	--
35S	34-0859F	05-13-91	Whole body	Bluehead	69.3	2.6	--	--	--	--	--	--	--	--	--
36S	35-0860F	05-13-91	Whole body	Flathead minnow	--	2.7	--	--	--	--	--	--	--	--	--
36S	36-0861F	05-13-91	Whole body	Flathead minnow	--	2.9	--	--	--	--	--	--	--	--	--
36S	37-0862F	05-13-91	Whole body	Flathead minnow	--	2.3	--	--	--	--	--	--	--	--	--
36S	38-0863F	05-13-91	Whole body	Speckled dace	--	7.1	--	--	--	--	--	--	--	--	--
36S	39-0864F	05-13-91	Whole body	Speckled dace	--	4.4	--	--	--	--	--	--	--	--	--
36S	40-0865F	05-13-91	Whole body	Speckled dace	--	4.4	--	--	--	--	--	--	--	--	--
39S	41-0866F	05-13-91	Whole body	Bluehead	69.9	1.5	--	--	--	--	--	--	--	--	--
39S	42-0867F	05-13-91	Whole body	Bluehead	76.4	2.1	--	--	--	--	--	--	--	--	--
39S	43-0868F	05-13-91	Whole body	Bluehead	73.8	1.9	--	--	--	--	--	--	--	--	--
39S	44-0869F	05-13-91	Whole body	Flannelmouth	71.2	1.8	--	--	--	--	--	--	--	--	--
39S	45-0870F	05-13-91	Whole body	Flannelmouth	71.4	2.2	--	--	--	--	--	--	--	--	--
39S	46-0871F	05-13-91	Whole body	Flannelmouth	67.9	2.4	--	--	--	--	--	--	--	--	--

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
41S	05-0318	03-02-94	Whole body	Flannelmouth	66.0	1.9	406	<0.2	<2	4	<0.1	0.05	<0.5	2	277
41S	05-0319	03-02-94	Whole body	Bluehead	69.5	1.6	596	<0.2	3	15	<0.1	0.05	1.3	2.3	390
41S	05-0320	03-02-94	Whole body	Small fish (seined)	72.8	6.6	835	<0.2	<2	20	<0.1	0.08	2.5	3.1	503
41S	05-0321	03-02-94	Whole body	Small fish (seined)	66.4	6.5	430	0.3	11	12	<0.1	0.24	2.6	2.7	299
41S	05-0322	03-02-94	Whole body	Macroinvertebrates	71.4	2.5	5,940	1.1	3	58	0.3	0.16	3	19.9	3,240
41S	05-0323	03-02-94	Whole body	Periphyton	71.1	<0.15	15,200	4.8	61	319	0.9	0.9	13.6	15.2	9,410
41S	05-0324	03-02-94	Whole body	Rainbow trout	76.3	2.5	60	<0.2	<2	1	<0.1	0.05	<0.5	3.9	90
41S	463-2653	09-13-94	Whole body	Periphyton	64.4	0.7	17,500	3	30	236	2	0.86	20	18.6	10,100
41S	463-2654	09-13-94	Whole body	Macroinvertebrates	74.8	3.4	4,000	1.7	13	32	0.3	0.59	1.4	22	2,400
41S	463-2655	09-13-94	Whole body	Small fish (seined)	73.8	4.7	1,300	0.7	4	15	<0.1	0.11	7.5	4.2	789
41S	463-2656	09-13-94	Whole body	Flannelmouth	73.5	2.1	775	1.2	<2	14	<0.1	<0.1	2.6	2.8	546
41S	463-2657	09-13-94	Whole body	Bluehead	69.8	1.7	2,610	1	3	26	<0.1	<0.1	3	3.3	1,330
42S	057-0552F	02-18-93	Whole body	Flannelmouth	76.4	1.71	--	--	--	--	--	--	--	--	--
42S	057-0553F	02-18-93	Whole body	Flannelmouth	72.1	2.54	--	--	--	--	--	--	--	--	--
42S	057-0554F	02-18-93	Whole body	Flannelmouth	70.9	2.08	--	--	--	--	--	--	--	--	--
42S	057-0555F	02-18-93	Whole body	Bluehead	70.4	1.15	--	--	--	--	--	--	--	--	--
42S	057-0556F	02-18-93	Whole body	Bluehead	66.1	1.89	--	--	--	--	--	--	--	--	--
42S	057-0557F	02-18-93	Whole body	Bluehead	68.5	1.22	--	--	--	--	--	--	--	--	--
43S	05-0316	03-01-94	Whole body	Flannelmouth	67.0	2	438	0.4	5	8	<0.1	0.05	0.7	9.1	331
43S	05-0317	03-01-94	Whole body	Flannelmouth	69.6	1.3	1,040	<0.2	5	16	<0.1	0.07	<0.5	3.2	750
43S	06-0325	03-02-94	Whole body	Small fish (seined)	71.7	7.6	647	0.3	<2	14	<0.1	0.06	1.5	2.7	421
43S	06-0326	03-02-94	Whole body	Macroinvertebrates	65.3	2.5	3,390	0.8	3	41	0.2	0.12	1.4	18	2,210
43S	06-0327	03-02-94	Whole body	Periphyton	78.8	0.5	17,800	5.8	57	184	1	0.27	12.3	19.1	10,900
43S	075-0659M	03-03-93	Whole body	Macroinvertebrates	.8	4.84	--	--	--	--	--	--	--	--	--
43S	464-2658	09-13-94	Whole body	Periphyton	85.9	2.9	16,700	4.4	151	169	0.7	0.25	9.2	14.5	9,230

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
43S	464-2659	09-13-94	Whole body	Macroinvertebrates	70.5	4.3	2,550	1	5	28	<0.1	0.25	<0.5	26	1,500
43S	464-2660	09-13-94	Whole body	Small fish (seined)	69.0	6.1	380	<0.5	<2	14	0.3	0.11	2.8	3.4	265
43S	464-2661	09-13-94	Whole body	Flannelmouth	66.1	2.7	83	<0.5	5	5	1.3	<0.1	3.6	5.2	109
43S	464-2662	09-13-94	Whole body	Bluehead	65.2	1.3	282	0.6	<2	37	<0.1	<0.1	1.3	1.9	260
45S	47-0872F	05-13-91	Whole body	Flannelmouth	65.2	1.8	--	--	--	--	--	--	--	--	--
45S	48-0873F	05-13-91	Whole body	Flannelmouth	76.3	2.2	--	--	--	--	--	--	--	--	--
45S	49-0874F	05-13-91	Whole body	Flannelmouth	69.9	1.9	--	--	--	--	--	--	--	--	--
45S	50-0875F	05-13-91	Whole body	Bluehead	72.6	1.9	--	--	--	--	--	--	--	--	--
45S	51-0876F	05-13-91	Whole body	Bluehead	69.3	1.5	--	--	--	--	--	--	--	--	--
45S	52-0877F	05-13-91	Whole body	Bluehead	70.0	1.7	--	--	--	--	--	--	--	--	--
46S	072-0641M	03-23-93	Whole body	Macroinvertebrates	5.6	2.83	--	--	--	--	--	--	--	--	--
46S	074-0649A	03-16-93	Whole body	Tiger salamander	84.6	5.44	--	--	--	--	--	--	--	--	--
47S	070-0635M	10-07-92	Whole body	Macroinvertebrates	1.9	2.86	--	--	--	--	--	--	--	--	--
47S	071-0637M	10-28-92	Whole body	Macroinvertebrates	3.8	32.77	--	--	--	--	--	--	--	--	--
47S	072-0642M	03-23-93	Whole body	Macroinvertebrates	.5	9.87	--	--	--	--	--	--	--	--	--
47S	073-0645A	10-28-92	Whole body	Tiger salamander	84.0	4.93	--	--	--	--	--	--	--	--	--
47S	074-0650A	03-17-93	Whole body	Tiger salamander	82.7	4.04	--	--	--	--	--	--	--	--	--
47S	119-0590A	05-20-92	Whole body	Tiger salamander	93.8	7.8	--	--	--	--	--	--	--	--	--
47S	259-2102M	11-04-93	Whole body	Macroinvertebrates	.6	6.3	--	--	--	--	--	--	--	--	--
47S	260-2106A	11-04-93	Whole body	Tiger salamander	86.2	3.2	--	--	--	--	--	--	--	--	--
47S	392-1498M	03-22-94	Whole body	Macroinvertebrates	--	4.3	--	--	--	--	--	--	--	--	--
47S	526-2270A	11-30-94	Whole body	Tiger salamander	81.4	8.67	--	--	--	--	--	--	--	--	--
48S	010-0399F	04-17-92	Whole body	Flannelmouth	--	2	--	--	--	--	--	--	--	--	--
48S	010-0400F	04-17-92	Whole body	Flannelmouth	--	1.9	--	--	--	--	--	--	--	--	--
48S	010-0401F	04-17-92	Whole body	Flannelmouth	--	2.1	--	--	--	--	--	--	--	--	--

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
48S	010-0402F	04-17-92	Whole body	Bluehead	--	1.5	--	--	--	--	--	--	--	--	--
48S	010-0403F	04-17-92	Whole body	Bluehead	--	1.9	--	--	--	--	--	--	--	--	--
48S	010-0404F	04-17-92	Whole body	Bluehead	--	1.4	--	--	--	--	--	--	--	--	--
50S	53-0878F	05-13-91	Whole body	Flannelmouth	66.5	1.7	--	--	--	--	--	--	--	--	--
50S	54-0879F	05-13-91	Whole body	Flannelmouth	74.6	2.3	--	--	--	--	--	--	--	--	--
50S	55-0880F	05-13-91	Whole body	Flannelmouth	73.5	2.5	--	--	--	--	--	--	--	--	--
50S	56-0881F	05-13-91	Whole body	Bluehead	74.1	2.1	--	--	--	--	--	--	--	--	--
50S	57-0882F	05-13-91	Whole body	Bluehead	78.1	2.7	--	--	--	--	--	--	--	--	--
50S	58-0883F	05-13-91	Whole body	Bluehead	67.1	1.5	--	--	--	--	--	--	--	--	--
51S	011-0405F	04-14-92	Whole body	Flannelmouth	--	1.4	--	--	--	--	--	--	--	--	--
51S	011-0406F	04-14-92	Whole body	Flannelmouth	--	1.8	--	--	--	--	--	--	--	--	--
51S	011-0407F	04-14-92	Whole body	Flannelmouth	--	1.3	--	--	--	--	--	--	--	--	--
51S	B0-0411	03-09-94	Whole body	Channel catfish	67.9	1.9	203	<0.2	<2	4	<0.1	0.12	0.8	3.2	232
51S	B0-0412	03-09-94	Whole body	Bluehead	64.0	1	512	0.5	<2	16	<0.1	0.02	3	1.8	339
51S	B0-0413	03-09-94	Whole body	Flannelmouth	64.4	1.5	82	<0.2	<2	6	<0.1	0.02	1.9	2	99
51S	B0-0422	03-09-94	Whole body	Macroinvertebrates	62.1	2	4,480	1	4	84	0.2	0.18	3	15.7	3,090
52S	392-1499F	03-22-94	Whole body	Small fish (seined)	86.8	28.2	--	--	--	--	--	--	--	--	--
53S	134-0672 F	04-13-94	Whole body	Bluehead	69.2	1	1,230	1.2	<2	16	<0.1	0.02	<0.5	2.1	781
53S	134-0672 F	04-13-94	Whole body	Bluehead	71.3	1.7	2,380	0.7	<2	20	<0.1	0.02	0.6	3	1,420
53S	134-0672 F	04-13-94	Whole body	Bluehead	69.8	1.7	2,360	0.9	<2	16	<0.1	0.03	<0.5	3.1	1,260
53S	135-0673 F	04-13-94	Whole body	Flannelmouth	65.0	1.3	96	0.3	3	2	<0.1	0.02	<0.5	1.8	104
53S	135-0673 F	04-13-94	Whole body	Flannelmouth	67.1	1.5	200	0.4	9	5	0.3	0.01	1.6	2.9	158
53S	135-0673 F	04-13-94	Whole body	Flannelmouth	61.4	1.2	179	0.4	<2	2	<0.1	<0.012	<0.5	1.5	153
53S	136-0674 F	04-13-94	Whole body	Bluehead	68.8	1.2	4,320	1	<2	43	0.1	0.03	3	3.8	2,440
53S	136-0674 F	04-13-94	Whole body	Bluehead	74.2	1.2	4,600	0.9	<2	33	0.1	0.04	4	4	2,390

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
53S	136-0674 F	04-13-94	Whole body	Bluehead	71.0	1.6	1,800	1	<2	14	<0.1	0.03	1	3.1	1,130
53S	137-0675 F	04-13-94	Whole body	Bluehead	63.9	1.3	287	0.4	<2	6	<0.1	0.03	<0.5	2.2	215
53S	137-0675 F	04-13-94	Whole body	Bluehead	67.4	1.7	370	0.5	<2	6	<0.1	0.02	<0.5	2.4	252
53S	137-0675 F	04-13-94	Whole body	Bluehead	65.6	1.3	142	0.3	8	6	0.3	0.04	1.6	2.6	122
53S	59-0884F	05-13-91	Whole body	Flannelmouth	69.4	2	--	--	--	--	--	--	--	--	--
53S	60-0885F	05-13-91	Whole body	Bluehead	70.7	1.7	--	--	--	--	--	--	--	--	--
53S	61-0886F	05-13-91	Whole body	Bluehead	71.2	1.5	--	--	--	--	--	--	--	--	--
53S	62-0887F	05-13-91	Whole body	Bluehead	76.8	2.8	--	--	--	--	--	--	--	--	--
53S	63-0888F	05-13-91	Whole body	Speckled dace	--	8.6	--	--	--	--	--	--	--	--	--
53S	64-0889F	05-13-91	Whole body	Speckled dace	--	7.1	--	--	--	--	--	--	--	--	--
53S	65-0890F	05-13-91	Whole body	Speckled dace	--	5.6	--	--	--	--	--	--	--	--	--
53S	66-0891F	05-13-91	Whole body	Flannelmouth	66.1	1.9	--	--	--	--	--	--	--	--	--
55S	132-0670-F	04-13-94	Whole body	Flannelmouth	67.7	1.6	917	<0.2	<2	39	<0.1	0.02	<0.5	2.5	696
55S	132-0670-F	04-13-94	Whole body	Flannelmouth	68.9	1.6	634	0.3	<2	13	<0.1	<0.012	1.5	2.3	448
55S	132-0670-F	04-13-94	Whole body	Flannelmouth	67.2	1.9	264	<0.2	<2	6	<0.1	0.02	<0.5	1.9	209
55S	133-0671 F	04-13-94	Whole body	Bluehead	67.1	1	553	0.6	<2	11	<0.1	0.03	<0.5	2.2	360
55S	133-0671 F	04-13-94	Whole body	Bluehead	70.5	1.7	3,740	1.1	<2	24	0.1	0.04	1.6	3.3	1,920
55S	133-0671 F	04-13-94	Whole body	Bluehead	71.0	1.7	1,890	0.5	<2	18	<0.1	0.03	<0.5	2.6	1,140
56S	138-0676 F	04-13-94	Whole body	Flannelmouth	63.5	1.3	187	<0.2	<2	8	<0.1	0.02	2.2	1.9	142
56S	138-0676 F	04-13-94	Whole body	Flannelmouth	65.9	1.6	255	0.3	3	4	<0.1	0.02	0.8	2.3	215
56S	138-0676 F	04-13-94	Whole body	Flannelmouth	70.0	1.7	86	<0.2	<2	7	<0.1	0.02	1.6	1.7	89
57S	139-0677 F	04-12-94	Whole body	Bluehead	64.1	1.2	721	0.8	<2	8	<0.1	0.02	1.7	5.2	558
57S	139-0677 F	04-12-94	Whole body	Bluehead	67.3	1.2	1,230	<0.2	3	23	<0.1	0.02	1.7	2	654
57S	139-0677 F	04-12-94	Whole body	Bluehead	68.9	0.9	3,050	0.6	4	24	<0.1	0.03	2.4	3.3	1,610
57S	140-0678 F	04-12-94	Whole body	Flannelmouth	64.8	1.6	401	<0.2	11	12	0.3	0.03	2.4	3.2	289

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
57S	140-0678 F	04-12-94	Whole body	Flannelmouth	62.7	1.3	240	0.6	<2	8	<0.1	0.02	0.8	1.8	180
57S	140-0678 F	04-12-94	Whole body	Flannelmouth	63.8	1	544	<0.2	<2	5	<0.1	0.01	<0.5	2.1	375
60S	058-0558F	02-15-93	Whole body	Flannelmouth	68.5	1.95	--	--	--	--	--	--	--	--	--
60S	058-0559F	02-15-93	Whole body	Flannelmouth	72.2	1.86	--	--	--	--	--	--	--	--	--
60S	058-0560F	02-15-93	Whole body	Flannelmouth	71.5	1.8	--	--	--	--	--	--	--	--	--
60S	058-0561F	02-15-93	Whole body	Bluehead	68.0	1.72	--	--	--	--	--	--	--	--	--
60S	058-0562F	02-15-93	Whole body	Bluehead	73.2	2.83	--	--	--	--	--	--	--	--	--
60S	058-0563F	02-15-93	Whole body	Bluehead	72.3	1.25	--	--	--	--	--	--	--	--	--
60S	075-0660M	02-15-93	Whole body	Macroinvertebrates	1.2	3.92	--	--	--	--	--	--	--	--	--
61S	059-0564F	02-15-93	Whole body	Flannelmouth	73.2	1.76	--	--	--	--	--	--	--	--	--
61S	059-0565F	02-15-93	Whole body	Flannelmouth	73.3	2.04	--	--	--	--	--	--	--	--	--
61S	059-0566F	02-15-93	Whole body	Flannelmouth	71.6	1.64	--	--	--	--	--	--	--	--	--
61S	059-0567F	02-15-93	Whole body	Bluehead	68.8	1.84	--	--	--	--	--	--	--	--	--
61S	059-0568F	02-15-93	Whole body	Bluehead	66.1	1.03	--	--	--	--	--	--	--	--	--
61S	059-0569F	02-15-93	Whole body	Bluehead	71.5	1.27	--	--	--	--	--	--	--	--	--
61S	075-0661M	02-15-93	Whole body	Macroinvertebrates	1.4	3.27	--	--	--	--	--	--	--	--	--
62S	012-0408F	04-14-92	Whole body	Flannelmouth	--	1.5	--	--	--	--	--	--	--	--	--
62S	012-0409F	04-14-92	Whole body	Flannelmouth	--	1.4	--	--	--	--	--	--	--	--	--
62S	012-0410F	04-14-92	Whole body	Flannelmouth	--	1.6	--	--	--	--	--	--	--	--	--
62S	67-0892F	05-13-91	Whole body	Flannelmouth	79.5	3.9	--	--	--	--	--	--	--	--	--
62S	68-0893F	05-13-91	Whole body	Flannelmouth	71.1	1.9	--	--	--	--	--	--	--	--	--
62S	69-0894F	05-13-91	Whole body	Flannelmouth	74.4	2.4	--	--	--	--	--	--	--	--	--
62S	70-0895F	05-13-91	Whole body	Carp	--	6.8	--	--	--	--	--	--	--	--	--
62S	71-0896F	05-13-91	Whole body	Carp	--	4	--	--	--	--	--	--		--	--
62S	72-0897F	05-13-91	Whole body	Carp	--	4.1	--	--	--	--	--	--		--	--

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
63S	08-0330	03-02-94	Whole body	Carp	74.4	2.7	479	<0.2	<2	10	<0.1	0.22	1.5	4.8	308
63S	08-0334	03-02-94	Whole body	Macroinvertebrates	69.4	1.8	2,580	1.4	4	18	<0.1	0.05	1.7	21.7	1,510
64S	08-0328	03-02-94	Whole body	Channel catfish	73.6	1.9	492	<0.2	<2	4	<0.1	0.07	<0.5	1.7	355
64S	08-0329	03-02-94	Whole body	Channel catfish	81.7	2.8	1,260	0.6	<2	13	<0.1	0.13	3.6	1.6	809
64S	08-0331	03-02-94	Whole body	Flannelmouth	68.0	1.7	724	<0.2	<2	27	0.1	0.08	<0.5	4.5	432
64S	08-0332	03-02-94	Whole body	Flannelmouth	67.8	1.7	1,060	0.3	<2	13	<0.1	0.03	1.3	2.6	641
64S	08-0333	03-02-94	Whole body	White sucker	73.4	1.6	1,880	0.8	<2	28	<0.1	0.05	1.8	3.1	1,060
64S	08-0335	03-02-94	Whole body	Periphyton	66.3	0.3	31,300	5.4	40	185	1.8	0.27	19.4	19.2	17,000
64S	08-0336	03-02-94	Whole body	Small fish (seined)	72.5	3.6	1,050	1	<2	23	<0.1	0.06	1.4	3	634
64S	465-2663	09-14-94	Whole body	Periphyton	65.5	0.8	7,880	3.3	37	152	0.4	0.18	7.7	11.4	6,260
64S	465-2664	09-14-94	Whole body	Macroinvertebrates	73.8	3.4	4,100	1.3	4	82	<0.1	0.23	5.1	18.9	2,380
64S	465-2665	09-14-94	Whole body	Small fish (seined)	72.3	3.2	2,800	0.8	<2	37	<0.1	<0.1	3.9	3.9	1,750
64S	465-2666	09-14-94	Whole body	Flannelmouth	66.3	2.4	437	<0.5	<2	5	<0.1	<0.1	0.7	1.7	256
64S	465-2667	09-14-94	Whole body	Bluehead	63.5	3.2	521	<0.5	<2	9	<0.1	0.13	<0.5	1.6	323
64S	465-2668	09-14-94	Whole body	Channel catfish	73.1	2.8	257	<0.5	<2	2	<0.1	0.13	1.1	1.8	191
64S	465-2669	09-14-94	Whole body	Carp	72.3	2.3	423	0.8	<2	10	<0.1	0.19	1.5	3.3	326
64S	465-2670	09-14-94	Whole body	Carp	77.4	5.2	368	1	5	14	2.3	<0.1	7.9	9.4	257
65S	060-0570F	02-22-93	Whole body	Flannelmouth	71.5	2.06	--	--	--	--	--	--	--	--	--
65S	060-0571F	02-22-93	Whole body	Flannelmouth	68.3	1.79	--	--	--	--	--	--	--	--	--
65S	060-0572F	02-22-93	Whole body	Flannelmouth	70.7	2.22	--	--	--	--	--	--	--	--	--
65S	060-0573F	02-22-93	Whole body	Bluehead	72.6	1.48	--	--	--	--	--	--	--	--	--
65S	060-0574F	02-22-93	Whole body	Bluehead	69.6	1.63	--	--	--	--	--	--	--	--	--
65S	060-0575F	02-22-93	Whole body	Bluehead	73.4	1.18	--	--	--	--	--	--	--	--	--
65S	060-0576F	02-22-93	Whole body	Channel catfish	74.7	1.86	--	--	--	--	--	--	--	--	--
65S	060-0577F	02-22-93	Whole body	Channel catfish	73.3	1.29	--	--	--	--	--	--	--	--	--

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
65S	060-0578F	02-22-93	Whole body	Channel catfish	69.8	1.21	--	--	--	--	--	--	--	--	--
65S	075-0662M	02-22-93	Whole body	Macroinvertebrates	2.1	2.78	--	--	--	--	--	--	--	--	--
66S	09-0337	03-02-94	Whole body	Carp	74.9	4.6	827	0.5	3	9	<0.1	0.31	1.3	6.5	566
66S	09-0338	03-02-94	Whole body	Channel catfish	73.1	2	428	0.6	<2	3	<0.1	0.07	<0.5	1.7	300
66S	09-0339	03-02-94	Whole body	Flannelmouth	70.6	2	937	1	<2	13	<0.1	0.11	1.4	3.4	616
66S	09-0340	03-02-94	Whole body	Small fish (seined)	71.7	3.5	955	0.4	<2	21	<0.1	0.07	2.5	3	581
66S	09-0341	03-02-94	Whole body	Macroinvertebrates	69.9	1.8	4,050	2	<2	43	0.2	0.04	2.2	22.8	2,330
66S	09-0342	03-02-94	Whole body	Periphyton	76.5	0.6	26,800	7.9	76	160	1.2	0.2	18.2	19.5	15,000
66S	466-2671	09-14-94	Whole body	Periphyton	65.7	0.6	9,530	3.4	59	209	0.4	0.26	10.3	13.9	8,350
66S	466-2672	09-14-94	Whole body	Macroinvertebrates	85.1	3.1	11,000	1.5	10	204	0.2	0.55	5.1	21	5,360
66S	466-2673	09-14-94	Whole body	Small fish (seined)	70.4	4.7	1,240	0.7	<2	18	<0.1	<0.1	9.5	8.8	703
66S	466-2674	09-14-94	Whole body	Bluehead	67.6	1.3	723	0.5	<2	12	<0.1	<0.1	1.1	2	429
66S	466-2675	09-14-94	Whole body	Carp	74.6	5.4	712	<0.5	<2	6	<0.1	0.19	0.9	4.3	457
66S	466-2676	09-14-94	Whole body	Channel catfish	75.7	3.5	574	<0.5	<2	4	<0.1	<0.1	2	1.6	348
66S	466-2677	09-14-94	Whole body	Flannelmouth	66.3	2.7	452	<0.5	<2	7	<0.1	<0.1	1.1	1.6	308
67S	061-0579F	02-22-93	Whole body	Flannelmouth	68.8	1.61	--	--	--	--	--	--	--	--	--
67S	061-0580F	02-22-93	Whole body	Flannelmouth	66.6	1.4	--	--	--	--	--	--	--	--	--
67S	061-0581F	02-22-93	Whole body	Flannelmouth	73.2	1.87	--	--	--	--	--	--	--	--	--
67S	061-0582F	02-22-93	Whole body	Bluehead	67.7	1.65	--	--	--	--	--	--	--	--	--
67S	061-0583F	02-22-93	Whole body	Bluehead	70.3	1.56	--	--	--	--	--	--	--	--	--
67S	061-0584F	02-22-93	Whole body	Bluehead	73.2	1.59	--	--	--	--	--	--	--	--	--
67S	075-0663M	02-22-93	Whole body	Macroinvertebrates	0.0	3.01	--	--	--	--	--	--	--	--	--
68S	062-0585F	02-22-93	Whole body	Flannelmouth	75.3	1.49	--	--	--	--	--	--	--	--	--
68S	062-0586F	02-22-93	Whole body	Flannelmouth	76.4	2.54	--	--	--	--	--	--	--	--	--
68S	062-0587F	02-22-93	Whole body	Flannelmouth	71.4	3.33	--	--	--	--	--	--	--	--	--

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
68S	062-0588F	02-22-93	Whole body	Bluehead	73.8	3.25	--	--	--	--	--	--	--	--	--
68S	062-0589F	02-22-93	Whole body	Bluehead	68.3	1.68	--	--	--	--	--	--	--	--	--
68S	062-0590F	02-22-93	Whole body	Bluehead	71.2	1.4	--	--	--	--	--	--	--	--	--
69S	10-0343	03-02-94	Whole body	Flannelmouth	70.1	1.6	728	0.2	<2	5	<0.1	0.05	<0.5	3.3	479
69S	10-0345	03-02-94	Whole body	Macroinvertebrates	67.6	1.5	1,440	1.5	<2	11	<0.1	0.02	<0.5	21.8	995
69S	10-0346	03-02-94	Whole body	Periphyton	81.0	0.6	24,800	7.2	78	148	1.1	0.2	16.6	17.5	13,500
69S	10-0347	03-02-94	Whole body	Small fish (seined)	75.9	3.3	1,150	0.3	<2	21	<0.1	0.06	2.1	3.2	650
69S	10-0348	03-02-94	Whole body	Macroinvertebrates	73.2	1.5	5,750	1.7	11	42	0.3	0.05	3.2	25.1	3,350
69S	10-0408	03-08-94	Whole body	Bluehead	67.8	1.4	1,220	0.2	<2	37	<0.1	0.02	1.7	2.3	787
69S	10-0409	03-08-94	Whole body	Channel catfish	69.1	3.1	154	<0.2	<2	4	<0.1	0.23	0.8	3.3	160
69S	10-0410	03-08-94	Whole body	Flannelmouth	67.0	1.7	603	<0.2	<2	17	<0.1	0.04	5.3	3.2	540
69S	467-2678	09-14-94	Whole body	Periphyton	69.9	2.2	16,900	3.4	101	255	0.5	0.33	15	20	10,100
69S	467-2680	09-14-94	Whole body	Small fish (seined)	79.0	8	1,720	<0.5	6	17	2.6	0.38	16.2	10.9	978
69S	467-2681	09-14-94	Whole body	Small fish (seined)	71.0	5.1	534	<0.5	<2	16	<0.1	0.14	10.1	2.9	368
69S	467-2682	09-14-94	Whole body	Flannelmouth	65.3	2.4	282	<0.5	<2	4	<0.1	<0.1	1	2	206
69S	467-2683	09-14-94	Whole body	Bluehead	67.5	2	132	<0.5	<2	7	<0.1	<0.1	1.5	1.7	118
70S	063-0591F	02-22-93	Whole body	Flannelmouth	71.9	1.36	--	--	--	--	--	--	--	--	--
70S	063-0592F	02-22-93	Whole body	Flannelmouth	74.5	2.5	--	--	--	--	--	--	--	--	--
70S	063-0593F	02-22-93	Whole body	Flannelmouth	74.2	2.45	--	--	--	--	--	--	--	--	--
70S	063-0594F	02-22-93	Whole body	Bluehead	71.7	1.64	--	--	--	--	--	--	--	--	--
70S	063-0595F	02-22-93	Whole body	Bluehead	67.5	1.29	--	--	--	--	--	--	--	--	--
70S	063-0596F	02-22-93	Whole body	Bluehead	70.1	1.52	--	--	--	--	--	--	--	--	--
71S	11-0349	03-02-94	Whole body	Macroinvertebrates	78.2	4.2	6,400	1.3	11	68	0.3	0.16	6	26.7	3,690
71S	11-0350	03-02-94	Whole body	Macroinvertebrates	73.0	5.1	2,060	0.8	4	94	<0.1	0.14	5.7	150	949
71S	11-0351	03-02-94	Whole body	Bluehead	78.0	2.3	1,410	0.8	<2	14	<0.1	0.08	4	4.5	745

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Moisture content (percent)	Selenium	Aluminum	Arsenic	Boron	Barium	Beryllium	Cadmium	Chromium	Copper	Iron
71S	11-0352	03-02-94	Whole body	Small fish (seined)	77.3	5.7	984	0.3	<2	19	<0.1	0.1	2.2	3.2	503
72S	12-0353	03-02-94	Whole body	Flannelmouth	70.2	1.4	425	<0.2	<2	10	<0.1	0.06	1	2.5	291
72S	12-0354	03-02-94	Whole body	Flannelmouth	72.0	2.1	458	<0.2	13	8	<0.1	0.06	<0.5	2.1	298
72S	12-0355	03-02-94	Whole body	Macroinvertebrates	67.5	1.7	1,680	1.4	<2	22	<0.1	0.03	0.9	21.3	1,220
72S	12-0356	03-02-94	Whole body	Small fish (seined)	72.7	3.5	1,600	<0.2	8	24	0.1	0.08	3.2	3.4	907
72S	12-0357	03-02-94	Whole body	Periphyton	71.3	0.8	30,700	5.9	45	203	1.6	0.2	20.5	23.1	17,300
72S	468-2684	09-14-94	Whole body	Periphyton	66.6	1.4	12,900	2.6	55	195	0.5	0.21	12	13.5	8,340
72S	468-2685	09-14-94	Whole body	Macroinvertebrates	78.8	3.7	3,660	0.9	10	37	<0.1	0.31	3	19	1,950
72S	468-2686	09-14-94	Whole body	Small fish (seined)	69.8	5.2	275	<0.5	<2	14	<0.1	<0.1	2.9	2.6	170
72S	468-2687	09-14-94	Whole body	Flannelmouth	67.3	3.5	251	<0.5	<2	8	<0.1	<0.1	1.1	2	157
72S	468-2688	09-14-94	Whole body	Bluehead	69.7	3.1	790	<0.5	<2	63	<0.1	<0.1	1.6	2.3	478

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Strontium	Vanadium	Zinc
08S	BGD-0426 F	03-15-94	Whole body	Rainbow trout	<0.5	939	22	0.23	<2	0.7	27	0.8	71
08S	BGD-0426 F	03-15-94	Whole body	Rainbow trout	<0.5	943	35	0.22	<2	0.9	12	1.2	91
08S	BGD-0426 F	03-15-94	Whole body	Rainbow trout	<0.5	1,510	164	0.19	<2	<0.5	56	1.2	120
08S	BGD-0427 F	03-15-94	Whole body	Flannelmouth	0.8	932	20	0.74	<2	1.3	62	0.8	49
08S	BGD-0427 F	03-15-94	Whole body	Flannelmouth	<0.5	681	21	0.63	<2	<0.5	35	0.8	51
08S	BGD-0427F	03-15-94	Whole body	Flannelmouth	<0.5	466	7	0.47	<2	<0.5	7	<0.5	29
08S	BGD-0428 F	03-15-94	Whole body	Brown trout	<0.5	823	4	0.24	<2	<0.5	7	<0.5	107
08S	BGD-0428 F	03-15-94	Whole body	Brown trout	<0.5	958	4	0.2	<2	<0.5	5	<0.5	77
08S	BGD-0428 F	03-15-94	Whole body	Brown trout	<0.5	1,050	4	0.16	<2	0.7	12	<0.5	114
08S	BGD-0429 F	03-15-94	Whole body	Small fish (seined)	<0.5	1,230	20	0.09	<2	<0.5	43	0.5	112
10S	03-0303F	03-01-94	Whole body	Rainbow trout	<0.5	1,120	18	0.22	<2	0.9	18	0.5	75
10S	03-0304	03-01-94	Whole body	Flannelmouth	<0.5	680	19	0.58	<2	<0.5	25	0.8	40
10S	03-0305	03-01-94	Whole body	Flannelmouth	0.5	636	23	0.43	<2	<0.5	36	0.8	38
10S	03-0306	03-01-94	Whole body	Periphyton	7.6	2,950	499	0.03	<2	9.4	58	31.1	37
10S	03-0307	03-01-94	Whole body	Small fish (seined)	<0.5	1,250	47	0.31	<2	<0.5	115	1.4	91
10S	03-0308	03-01-94	Whole body	Macroinvertebrates	1	1,320	251	0.13	<2	1.2	23	3.8	98
10S	03-0309	03-01-94	Whole body	Flannelmouth	1.6	541	27	0.36	<2	0.9	11	<0.5	38
10S	461-2639	09-13-94	Whole body	Periphyton	14.7	3,870	3,470	<0.1	<2	11.5	92	33	46
10S	461-2640	09-13-94	Whole body	Macroinvertebrates	2.4	1,490	714	0.15	<2	3.3	22	7.3	111
10S	461-2641	09-13-94	Whole body	Small fish (seined)	<0.5	1,140	38	0.38	<2	<0.5	103	<0.5	80
10S	461-2642	09-13-94	Whole body	Small fish (seined)	<0.5	1,020	27	0.33	<2	<0.5	75	<0.5	113
10S	461-2643	09-13-94	Whole body	Flannelmouth	<0.5	809	24	0.7	<2	<0.5	39	0.6	43
10S	461-2644	09-13-94	Whole body	Rainbow trout	<0.5	806	54	0.19	<2	<0.5	21	<0.5	83
10S	461-2645	09-13-94	Whole body	Carp	<0.5	892	10	0.56	<2	3.2	67	2.9	194
19S	462-2650	09-13-94	Whole body	Flannelmouth	0.6	786	19	0.7	<2	0.6	45	0.6	46
20S	04-0310	03-01-94	Whole body	Flannelmouth	<0.5	617	26	0.34	<2	<0.5	21	<0.5	40
20S	04-0311	03-01-94	Whole body	Carp	<0.5	886	11	0.35	<2	<0.5	73	0.6	337
20S	04-0312	03-01-94	Whole body	Rainbow trout	<0.5	980	23	0.21	<2	<0.5	27	0.5	87
20S	04-0313	03-01-94	Whole body	Periphyton	5.8	3,590	995	0.09	<2	10.4	103	29.4	43
20S	04-0314	03-01-94	Whole body	Macroinvertebrates	1	1,170	351	0.08	<2	1.6	22	3.4	76

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Strontium	Vanadium	Zinc
20S	04-0315	03-01-94	Whole body	Small fish (seined)	0.7	1,340	44	0.35	<2	0.8	128	3	148
20S	462-2646	09-13-94	Whole body	Periphyton	11.8	3,160	1,050	<0.1	<2	10.6	96	33	38
20S	462-2647	09-13-94	Whole body	Macroinvertebrates	1.8	1,160	513	0.12	<2	2.8	23	5.6	105
20S	462-2648	09-13-94	Whole body	Small fish (seined)	0.9	1,160	50	0.34	<2	1	89	2.7	111
20S	462-2649	09-13-94	Whole body	Small fish (seined)	<0.5	1,070	26	0.38	<2	2.3	97	0.6	121
20S	462-2651	09-13-94	Whole body	Bluehead	0.8	1,040	59	0.2	<2	2.4	52	3	53
20S	462-2652	09-13-94	Whole body	Carp	0.7	942	12	0.44	<2	1.4	77	0.7	421
28S	AG-0414	03-07-94	Whole body	Bluehead	<0.5	793	42	0.23	<2	0.7	43	<0.5	48
28S	AG-0415	03-07-94	Whole body	Flannelmouth	<0.5	856	28	0.38	<2	0.5	61	1.6	48
28S	AG-0416	03-07-94	Whole body	Macroinvertebrates	1.2	956	24	0.07	<2	1.2	61	2.1	50
28S	AG-0417	03-07-94	Whole body	Macroinvertebrates	0.9	1,510	735	0.06	<2	1.8	29	5.3	98
31S	BG-0418	03-07-94	Whole body	Flannelmouth	0.9	1,030	39	0.32	<2	0.8	98	1.3	58
31S	BG-0419	03-07-94	Whole body	Bluehead	0.7	906	51	0.16	<2	0.7	98	1.7	69
31S	BG-0420	03-07-94	Whole body	Macroinvertebrates	0.7	1,220	603	0.06	<2	1.1	28	3.4	87
31S	BG-0421	03-07-94	Whole body	Macroinvertebrates	1	1,150	945	0.08	<2	1.1	70	4.1	86
41S	05-0318	03-02-94	Whole body	Flannelmouth	0.5	629	19	0.41	<2	0.9	21	0.8	39
41S	05-0319	03-02-94	Whole body	Bluehead	1.4	958	65	0.1	<2	1.1	112	1.2	62
41S	05-0320	03-02-94	Whole body	Small fish (seined)	1.1	1,110	49	0.1	<2	<0.5	123	1.7	168
41S	05-0321	03-02-94	Whole body	Small fish (seined)	0.7	1,170	29	0.18	<2	<0.5	132	1.2	176
41S	05-0322	03-02-94	Whole body	Macroinvertebrates	5.6	1,500	317	0.04	<2	2	73	8.6	247
41S	05-0323	03-02-94	Whole body	Periphyton	41.1	2,700	2,730	0.03	<2	5	478	22.1	402
41S	05-0324	03-02-94	Whole body	Rainbow trout	<0.5	770	10	0.19	<2	<0.5	19	<0.5	125
41S	463-2653	09-13-94	Whole body	Periphyton	34	3,280	3,340	<0.1	4.2	9.6	555	25	200
41S	463-2654	09-13-94	Whole body	Macroinvertebrates	7.4	1,110	446	<0.1	<2	2	55	5.5	163
41S	463-2655	09-13-94	Whole body	Small fish (seined)	1.4	1,120	75	0.1	<2	4.1	117	2	211
41S	463-2656	09-13-94	Whole body	Flannelmouth	1.4	1,210	119	0.1	<2	0.6	133	1.6	70
41S	463-2657	09-13-94	Whole body	Bluehead	3	1,230	203	<0.1	<2	1.8	132	3.4	65
43S	05-0316	03-01-94	Whole body	Flannelmouth	1.6	717	35	0.19	<2	1.4	40	1.3	70
43S	05-0317	03-01-94	Whole body	Flannelmouth	1.5	766	50	0.13	<2	1.9	30	2.4	57
43S	06-0325	03-02-94	Whole body	Small fish (seined)	0.6	1,150	32	0.18	<2	<0.5	132	1.5	154

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Strontium	Vanadium	Zinc
43S	06-0326	03-02-94	Whole body	Macroinvertebrates	2.6	1,360	287	0.07	<2	1.1	53	5.9	118
43S	06-0327	03-02-94	Whole body	Periphyton	10.3	3,280	768	0.06	<2	8.4	176	26.1	99
43S	464-2658	09-13-94	Whole body	Periphyton	7.7	2,660	1,950	0.11	<2	8.1	175	21	39
43S	464-2659	09-13-94	Whole body	Macroinvertebrates	1.6	1,150	198	0.12	<2	1.6	35	3.4	125
43S	464-2660	09-13-94	Whole body	Small fish (seined)	0.6	1,140	29	0.28	<2	0.7	144	0.7	190
43S	464-2661	09-13-94	Whole body	Flannelmouth	<0.5	696	14	0.3	<2	3	29	2.9	48
43S	464-2662	09-13-94	Whole body	Bluehead	0.9	635	30	0.18	<2	0.9	43	0.9	48
51S	B0-0411	03-09-94	Whole body	Channel catfish	<0.5	732	8	0.23	<2	1.7	58	1.6	151
51S	B0-0412	03-09-94	Whole body	Bluehead	0.5	1,150	71	0.13	<2	0.8	158	2.8	57
51S	B0-0413	03-09-94	Whole body	Flannelmouth	<0.5	839	34	0.35	<2	0.7	63	2.3	46
51S	B0-0422	03-09-94	Whole body	Macroinvertebrates	3.9	1,420	679	0.05	<2	2.3	122	8.3	118
53S	134-0672 F	04-13-94	Whole body	Bluehead	0.6	709	45	0.09	<2	1.6	19	2.7	37
53S	134-0672 F	04-13-94	Whole body	Bluehead	1.1	965	56	0.12	<2	1.7	37	4.2	57
53S	134-0672 F	04-13-94	Whole body	Bluehead	1	951	51	0.15	<2	2.3	37	4.1	50
53S	135-0673 F	04-13-94	Whole body	Flannelmouth	<0.5	524	6	0.38	<2	0.6	8	<0.5	30
53S	135-0673 F	04-13-94	Whole body	Flannelmouth	<0.5	748	19	0.18	<2	1.6	35	1	40
53S	135-0673 F	04-13-94	Whole body	Flannelmouth	<0.5	508	9	0.16	<2	0.7	11	<0.5	30
53S	136-0674 F	04-13-94	Whole body	Bluehead	1.7	1,250	77	0.06	<2	1.7	49	5.9	47
53S	136-0674 F	04-13-94	Whole body	Bluehead	1.8	1,460	88	0.08	<2	2.7	93	6.3	68
53S	136-0674 F	04-13-94	Whole body	Bluehead	0.7	875	37	0.06	<2	0.7	18	2.4	47
53S	137-0675 F	04-13-94	Whole body	Bluehead	<0.5	589	16	0.14	<2	<0.5	18	0.5	36
53S	137-0675 F	04-13-94	Whole body	Bluehead	<0.5	712	22	0.1	<2	0.5	19	0.7	47
53S	137-0675 F	04-13-94	Whole body	Bluehead	<0.5	592	20	0.21	<2	1.3	28	1.3	36
55S	132-0670-F	04-13-94	Whole body	Flannelmouth	<0.5	768	33	0.11	<2	1.2	28	2	41
55S	132-0670-F	04-13-94	Whole body	Flannelmouth	<0.5	984	50	0.11	<2	<0.5	76	1.4	51
55S	132-0670-F	04-13-94	Whole body	Flannelmouth	<0.5	771	33	<0.02	<2	1.4	42	0.8	43
55S	133-0671 F	04-13-94	Whole body	Bluehead	0.5	767	36	0.14	<2	0.8	52	1.4	51
55S	133-0671 F	04-13-94	Whole body	Bluehead	1.6	1,110	67	0.09	<2	1.5	40	5.2	52
55S	133-0671 F	04-13-94	Whole body	Bluehead	0.9	943	47	0.08	<2	1.1	34	3.2	48
56S	138-0676 F	04-13-94	Whole body	Flannelmouth	1.2	913	36	0.2	<2	0.6	83	1.1	46

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Strontium	Vanadium	Zinc
56S	138-0676 F	04-13-94	Whole body	Flannelmouth	<0.5	671	15	0.35	<2	<0.5	14	0.9	35
56S	138-0676 F	04-13-94	Whole body	Flannelmouth	<0.5	1,050	18	0.18	<2	<0.5	98	0.9	48
57S	139-0677 F	04-12-94	Whole body	Bluehead	0.9	658	33	0.21	<2	10.2	35	1.8	44
57S	139-0677 F	04-12-94	Whole body	Bluehead	0.8	1,070	58	0.06	<2	<0.5	148	2.1	39
57S	139-0677 F	04-12-94	Whole body	Bluehead	1.2	1,010	57	0.04	<2	1.3	46	4.1	45
57S	140-0678 F	04-12-94	Whole body	Flannelmouth	1.3	1,130	45	0.32	<2	1.3	100	2	59
57S	140-0678 F	04-12-94	Whole body	Flannelmouth	<0.5	713	27	0.28	<2	0.7	40	0.9	39
57S	140-0678 F	04-12-94	Whole body	Flannelmouth	<0.5	645	19	0.1	<2	0.6	20	1.2	32
63S	08-0330	03-02-94	Whole body	Carp	1.5	1,160	21	0.16	<2	<0.5	146	1.1	164
63S	08-0334	03-02-94	Whole body	Macroinvertebrates	1	1,430	100	0.04	<2	1.9	29	4.1	196
64S	08-0328	03-02-94	Whole body	Channel catfish	0.6	697	18	0.18	<2	0.5	33	0.7	56
64S	08-0329	03-02-94	Whole body	Channel catfish	1.1	1,370	40	0.99	<2	1.7	88	1.8	73
64S	08-0331	03-02-94	Whole body	Flannelmouth	0.5	679	18	0.31	<2	1.2	15	1.4	47
64S	08-0332	03-02-94	Whole body	Flannelmouth	0.7	796	26	0.13	<2	1.8	32	1.7	44
64S	08-0333	03-02-94	Whole body	White sucker	0.9	1,040	67	0.08	<2	1.4	59	2.9	55
64S	08-0335	03-02-94	Whole body	Periphyton	13.5	4,770	812	0.05	<2	11.8	178	39.4	106
64S	08-0336	03-02-94	Whole body	Small fish (seined)	0.7	1,140	36	0.1	<2	0.9	103	2.1	116
64S	465-2663	09-14-94	Whole body	Periphyton	9.7	1,690	567	<0.1	<2	4.6	159	13.7	42
64S	465-2664	09-14-94	Whole body	Macroinvertebrates	2.2	1,230	244	0.1	<2	2.8	29	6.2	109
64S	465-2665	09-14-94	Whole body	Small fish (seined)	1.4	1,320	51	0.13	<2	2.1	104	4.1	102
64S	465-2666	09-14-94	Whole body	Flannelmouth	<0.5	682	10	0.29	<2	0.5	30	<0.5	30
64S	465-2667	09-14-94	Whole body	Bluehead	<0.5	698	21	<0.1	<2	0.9	54	1.1	38
64S	465-2668	09-14-94	Whole body	Channel catfish	<0.5	813	7	0.23	<2	0.6	51	0.7	51
64S	465-2669	09-14-94	Whole body	Carp	0.8	923	10	0.17	<2	1	82	1.1	201
64S	465-2670	09-14-94	Whole body	Carp	1.1	1,450	20	0.16	<2	5.4	209	5.4	252
66S	09-0337	03-02-94	Whole body	Carp	0.5	1,020	14	0.16	<2	1.8	64	1.9	250
66S	09-0338	03-02-94	Whole body	Channel catfish	0.6	743	20	0.34	<2	1.5	39	1.2	58
66S	09-0339	03-02-94	Whole body	Flannelmouth	1.5	904	31	0.33	<2	1.7	45	2.1	46
66S	09-0340	03-02-94	Whole body	Small fish (seined)	0.6	1,240	32	0.13	<2	1	136	2.2	157
66S	09-0341	03-02-94	Whole body	Macroinvertebrates	1.7	1,640	104	0.03	<2	3.1	33	6.4	212

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Strontium	Vanadium	Zinc
66S	09-0342	03-02-94	Whole body	Periphyton	9.4	4,730	779	0.05	<2	10.9	212	34.9	106
66S	466-2671	09-14-94	Whole body	Periphyton	8	2,200	701	<0.1	<2	6.2	276	18.9	77
66S	466-2672	09-14-94	Whole body	Macroinvertebrates	5.3	1,920	352	<0.1	<2	5.1	68	14.4	128
66S	466-2673	09-14-94	Whole body	Small fish (seined)	0.9	1,260	28	0.2	<2	5.2	149	2.1	136
66S	466-2674	09-14-94	Whole body	Bluehead	0.6	821	29	0.13	<2	1	57	0.9	45
66S	466-2675	09-14-94	Whole body	Carp	0.7	1,060	9	0.23	<2	0.8	56	0.9	176
66S	466-2676	09-14-94	Whole body	Channel catfish	1.1	1,100	13	0.39	<2	0.8	77	0.9	66
66S	466-2677	09-14-94	Whole body	Flannelmouth	1.1	857	16	0.15	<2	0.7	72	0.8	53
69S	10-0343	03-02-94	Whole body	Flannelmouth	0.5	805	19	0.24	<2	0.7	28	1.7	49
69S	10-0345	03-02-94	Whole body	Macroinvertebrates	0.6	1,260	61	0.03	<2	1.2	24	2.8	203
69S	10-0346	03-02-94	Whole body	Periphyton	9	4,320	690	0.04	<2	10.6	201	32.5	106
69S	10-0347	03-02-94	Whole body	Small fish (seined)	<0.5	1,290	33	0.13	<2	1.1	144	2.8	169
69S	10-0348	03-02-94	Whole body	Macroinvertebrates	2	1,780	155	0.03	<2	3.2	44	8.9	197
69S	10-0408	03-08-94	Whole body	Bluehead	<0.5	1,040	43	0.08	<2	1.3	79	3.6	56
69S	10-0409	03-08-94	Whole body	Channel catfish	<0.5	781	7	0.12	<2	1.7	62	1.7	182
69S	10-0410	03-08-94	Whole body	Flannelmouth	1.4	1,310	32	0.22	<2	2	146	2.8	51
69S	467-2678	09-14-94	Whole body	Periphyton	10.3	3,790	697	<0.1	<2	8.1	360	28	87
69S	467-2680	09-14-94	Whole body	Small fish (seined)	1.4	1,640	53	0.19	3.3	11	128	8.1	128
69S	467-2681	09-14-94	Whole body	Small fish (seined)	0.6	1,300	16	0.18	<2	4.9	130	1.4	155
69S	467-2682	09-14-94	Whole body	Flannelmouth	<0.5	692	7	0.16	<2	<0.5	42	0.9	37
69S	467-2683	09-14-94	Whole body	Bluehead	<0.5	838	14	0.19	<2	<0.5	70	<0.1	46
71S	11-0349	03-02-94	Whole body	Macroinvertebrates	2.2	2,240	202	0.05	<2	4.4	70	13.2	97
71S	11-0350	03-02-94	Whole body	Macroinvertebrates	0.8	2,290	208	<0.02	<2	1.8	676	5.3	60
71S	11-0351	03-02-94	Whole body	Bluehead	1	1,710	31	0.14	<2	1.3	167	3.8	94
71S	11-0352	03-02-94	Whole body	Small fish (seined)	<0.5	1,410	26	0.1	<2	1	157	2.9	179
72S	12-0353	03-02-94	Whole body	Flannelmouth	1	888	14	0.23	<2	1.2	47	1.5	44
72S	12-0354	03-02-94	Whole body	Flannelmouth	<0.5	884	17	0.16	<2	0.5	29	1.4	53
72S	12-0355	03-02-94	Whole body	Macroinvertebrates	1	1,350	53	0.03	<2	1.1	28	3.6	180
72S	12-0356	03-02-94	Whole body	Small fish (seined)	0.7	1,380	35	0.1	<2	1.1	137	2.8	158
72S	12-0357	03-02-94	Whole body	Periphyton	11.5	5,260	869	0.09	<2	21.9	225	39.2	97

Table 18.--Moisture content of and trace-element concentrations in supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Concluded

Site number (fig. 3, table 15)	Sample identification number	Date	Type of sample	Common name	Lead	Magnesium	Manganese	Mercury	Molybdenum	Nickel	Strontium	Vanadium	Zinc
72S	468-2684	09-14-94	Whole body	Periphyton	9.1	2,920	469	<0.1	<2	7	257	22	44
72S	468-2685	09-14-94	Whole body	Macroinvertebrates	2	1,290	123	<0.1	<2	2	46	5.9	105
72S	468-2686	09-14-94	Whole body	Small fish (seined)	0.5	1,080	16	0.19	<2	1.3	159	0.5	149
72S	468-2687	09-14-94	Whole body	Flannelmouth	<0.5	898	11	0.14	<2	<0.5	70	0.6	39
72S	468-2688	09-14-94	Whole body	Bluehead	0.7	1,020	28	0.19	<2	0.7	91	1.4	54

Table 19.--Quality-control data for selenium analyses conducted on supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95

[Laboratory identification number, number assigned to the blank by the contract laboratory; µg, microgram; NIST, National Institute of Standards and Technology; <, less than]

Laboratory batch number	Laboratory identification number	Selenium method blank (µg, dry weight)
1	Blank - 1	<0.09
1	Blank - 2	<0.09
1	Blank - 3	<0.09
1	Blank - 4	<0.09
1	Blank - 5	<0.09
2	Blank - 1	<0.09
2	Blank - 2	<0.07
2	Blank - 3	<0.07
2	2060289	<0.10
2	2060299	<0.08
3	BLANK-A	0.01
3	BLANK-B	0.04
3	BLANK-G	<0.01
3	BLANK-K	<0.01
3	BLANK-L	0.02
3	BLANK-S	0.03
3	BLANK-W	0.03
3	BLANK-X	<0.01
3	BLANK-AC	0.03
3	BLANK-AF	<0.01
3	BLANK-AG	<0.01
3	BLANK-AM	0.01
4	BLANK-DN	0.01
4	BLANK-DP	<0.01
4	BLANK-DV	<0.01
4	BLANK-DW	<0.01

Table 19.--Quality-control data for selenium analyses conducted on supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Laboratory batch number	Laboratory identification number	Selenium method blank (µg, dry weight)
5	BLANK-4B007	<0.03
5	BLANK-4B008	<0.03
5	BLANK-4B009	<0.03
7	BLANK-4B078	<0.50
7	BLANK-4B079	<0.50
8	BLANK-5B007	<0.50
8	BLANK-5B008	<0.50
8	BLANK-5B009	<0.50
8	BLANK-5B010	<0.50
8	BLANK-5B011	<0.50
8	BLANK-5B012	<0.50
9	BLANK-5B057	<0.13
9	BLANK-5B058	<0.13
9	BLANK-5B059	<0.13

Table 19.--Quality-control data for selenium analyses conducted on supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Laboratory batch number	Laboratory identification number	Relative percent difference for selenium duplicate
1	12-0837F	0.0
1	26-0851F	4.9
1	56-0881F	4.9
1	08-0833F	7.4
1	28-0853F	0.0
1	53-0878F	0.0
1	72-0897F	4.9
1	74-0899F	0.0
2	002-0367F	7.2
2	005-0377F	3.6
2	008-0387F	5.1
2	009-0397F	6.1
2	011-0406F	5.7
2	119-0587A	1.9
2	120-0593M	0.0
3	049-0507F	0.4
3	051-0519F	47.6
3	053-0530F	7.2
3	055-0543F	2.4
3	057-0555F	38.4
3	059-0565F	0.6
3	059-0566F	11.5
3	060-0577F	0.6
3	061-0579F	2.1
3	063-0592F	0.6
3	063-0594F	11.9
3	064-0601F	8.0
3	073-0643A	19.1
3	074-0646A	0.6
3	075-0655M	16.9

Table 19.--Quality-control data for selenium analyses conducted on supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Laboratory batch number	Laboratory identification number	Relative percent difference for selenium duplicate
3	075-0656M	24.1
4	070-0633M	5.1
4	071-0636M	1.7
5	260-2103A	4.5
5	260-2105A	7.0
5	259-2099M	14.7
5	259-2101M	10.5
7	392-1495M	1.7
7	392-1497M	4.2
7	392-1499F	0.2
7	392-1501A	2.0
8	460-2633	3.8
8	465-2669	4.3
8	472-2714	11.8
8	462-2646	0.0
8	471-2703	1.3
8	463-2657	12.5
8	468-2688	12.1
9	526-2270A	12.9

Table 19.--Quality-control data for selenium analyses conducted on supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Laboratory number	Laboratory identification number	Recovery for selenium spike (percent)
1	19-0844F	105
1	33-0858F	104
1	60-0885	112
1	21-0846F	106
1	47-0872F	109
1	67-0892F	105
1	37-0862F	101
1	76-0901F	108
2	003-0372F	108
2	006-0382F	84
2	008-0392F	89
2	010-0402F	88
2	012-0410F	91
2	119-0589A	80
2	120-0594M	94
3	050-0513F	109
3	053-0525F	95
3	055-0537F	88
3	056-0549F	92
3	058-0561F	92
3	060-0575F	105
3	062-0587F	117
3	075-0658M	141
3	075-0660M	120
4	072-0638M	107
4	072-0639M	100
5	260-2104A	106
5	260-2106A	109
5	259-2100M	101

Table 19.--Quality-control data for selenium analyses conducted on supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Laboratory number	Laboratory identification number	Recovery for selenium spike (percent)
5	259-2102M	104
7	392-1496M	95
7	392-1498M	100
7	392-1500A	94
7	392-1502A	91
8	460-2638	101
8	466-2671	93
8	472-2708	102
8	462-2647	97
8	464-2660	99
8	473-2718	107
8	469-2691	93
9	544-2375A	99

Table 19.--Quality-control data for selenium analyses conducted on supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Continued

Laboratory batch number	Laboratory identification number	Type of sample	Recovery of standard reference material (percent)
1	NIST 1566A	Oyster tissue	99.5
1	NRCC DORM-1	Dogfish tissue	92.6
2	NIST 1566A	Oyster tissue	95.0
3	NRCC DOLT-2		104.1
3	NRCC DOLT-2		95.4
3	NRCC DOLT-2		93.4
3	NRCC DOLT-2		90.9
3	NRCC DOLT-2		92.2
3	NRCC DOLT-2		91.1
3	NRCC DOLT-2		92.7
3	NRCC DOLT-2		101.0
3	NRCC DOLT-2		97.0
3	NRCC DOLT-2		95.0
3	NRCC DOLT-2		98.7
4	NRCC DOLT-2		95.9
4	NRCC DOLT-2		90.3
4	NIST 1566A	Oyster tissue	81.0
4	NIST 1566A	Oyster tissue	87.3
5	NRCC DORM-1	Dogfish tissue	82.1
5	NRCC DORM-1	Dogfish tissue	83.3
5	NRCC DORM-1	Dogfish tissue	88.3
7	NRCC DORM-1	Dogfish tissue	95.7
7	NRCC DOLT-2		91.9
8	NRCC DOLT-2		91.8
8	NRCC DOLT-2		90.2
8	NRCC DOLT-2		90.2
8	NRCC DOLT-2		91.8
8	NRCC DORM-1	Dogfish tissue	106.3

Table 19.--Quality-control data for selenium analyses conducted on supplemental biological samples collected in association with the Navajo Indian Irrigation Project, New Mexico, 1991-95--Concluded

Laboratory batch number	Laboratory identification number	Type of sample	Recovery of standard reference material (percent)
8	NRCC DORM-1	Dogfish tissue	112.5
8	NRCC DORM-1	Dogfish tissue	93.8
8	NRCC DORM-1	Dogfish tissue	106.3
9	NRCC DOLT-2		97.0
9	NRCC DORM-1	Dogfish tissue	92.7