CHEMICAL AND PHYSICAL CHARACTERISTICS OF WATER IN ESTUARIES OF TEXAS OCTOBER 1978-SEPTEMBER 1983

By J. C. Fisher and R. U. Grozier

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DONALD PAUL HODEL, Secretary

GEOLOGICAL Survey

Dallas L. Peck, Director

For additional information
write to:

District Chief
U.S. Geological Survey
649 Federal Building
300 E. Eighth Street
Austin, Texas 78701

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ABSTRACT

The Texas Water Plan (Texas Water Development Board, 1968) proposed development and utilization of water resources in Texas and included a provision for the use and preservation of water in the estuaries of the State. Management of estuarine waters requires knowledge of the hydrodynamics and of the continuing changes in the chemical and physical characteristics of water in the estuaries.

In September 1967, the U.S. Geological Survey and the Texas Department of Water Resources began a cooperative water-resources data-collection program of the principal estuaries along the Texas coast except for the Rio Grande estuary, which is under the jurisdiction of the International Boundary and Water Commission, United States and Mexico.

The data-collection program for the first 11 years were published in 9 separate publications by the Texas Department of Water Resources. This report is the final publication for the project which ended in September 1983, and contains the data collected for the last 5 years (October 1978-September 1983). Approximately 243 data-collection sites were visited during the 1979-83 water years.

The properties or constituents measured in the field were dissolved oxygen (DO), specific conductance, temperature, pH, and transparency by Secchi disk. Analyses conducted in the laboratory included the principal inorganic ions, biochemical oxygen demand (BOD), total organic carbon (TOC), ammonia nitrogen, nitrite nitrogen, nitrate nitrogen, total phosphate, insecticides and herbicides, and other selected metals such as aluminium, arsenic, cadmium, chromium, cobalt, iron, lead, lithium, manganese, mercury, nichol, strontium, and zinc.

Streamflow-measuring sites are used to monitor both the amount and quality of water that enter the estuarine embayments. The farthest downstream sites available are located many miles upstream from the estuaries because of the effect of changes in water stage in the estuaries. Consequently, there is inflow into the bays below these sites that can and do affect the amount and quality of water entering the estuaries.

INTRODUCTION

Purpose and Scope

The purpose of this study was to collect data necessary to define conditions that sustain the water resources of the bays and estuaries of Texas (fig. 1). Specifically, the objective was to define the physical, inorganic, and some of the organic water-quality characteristics and their areal distribution and time variations; the occurrence, source, and distribution of nutrients; the quality and dispersion of suspended sediments; and the occurrence, quantity, and dispersion of freshwater and return flows through the estuaries. Data collection for this study was completed in September 1983.

The coastal waters of Texas are not classical estuaries, but are similar to them in ecosystems and mixing phenomena. A description of various types of estuaries is presented in "Estuaries" edited by Lauff (1967, p. 3-11). The term estuary, as used in this report, refers to concomitant water bodies in which streamflow mixes with seawater.

Acknowledgments

The U.S. Army Corps of Engineers (Galveston District), the Texas Parks and Wildlife Department, and the Texas Department of Water Resources provided data and field assistance. Many private citizens and commercial fishermen furnished information on historical changes and existing conditions in the estuaries.

Hydrologic-Data Reports

This report, which presents data collected during water years 1979-83, is the final one of a series of hydrologic-data reports that have been prepared since 1970 (Hahl and Ratzlaff, 1970, 1972, 1973, 1975; Ratzlaff, 1976; Lind and Ratzlaff, 1979; Lind, 1980, 1983; and Fisher, 1982). A report by Grozier and others (1968, p. 47-61) includes data collected during flooding caused by Hurricane Beulah.

Climatological Records

The climate of the region has a significant influence on the quality of the water in the estuaries. Tabulations of daily precipitation, air temperature, and other data are published monthly; and monthly summaries are published annually by the National Oceanic and Atmospheric Administration in the series titled "Climatological Data-Texas." For 1931-60, monthly and annual data are summarized in two publications by the National Weather Service (formerly U.S. Weather Bureau, 1958, 1965).

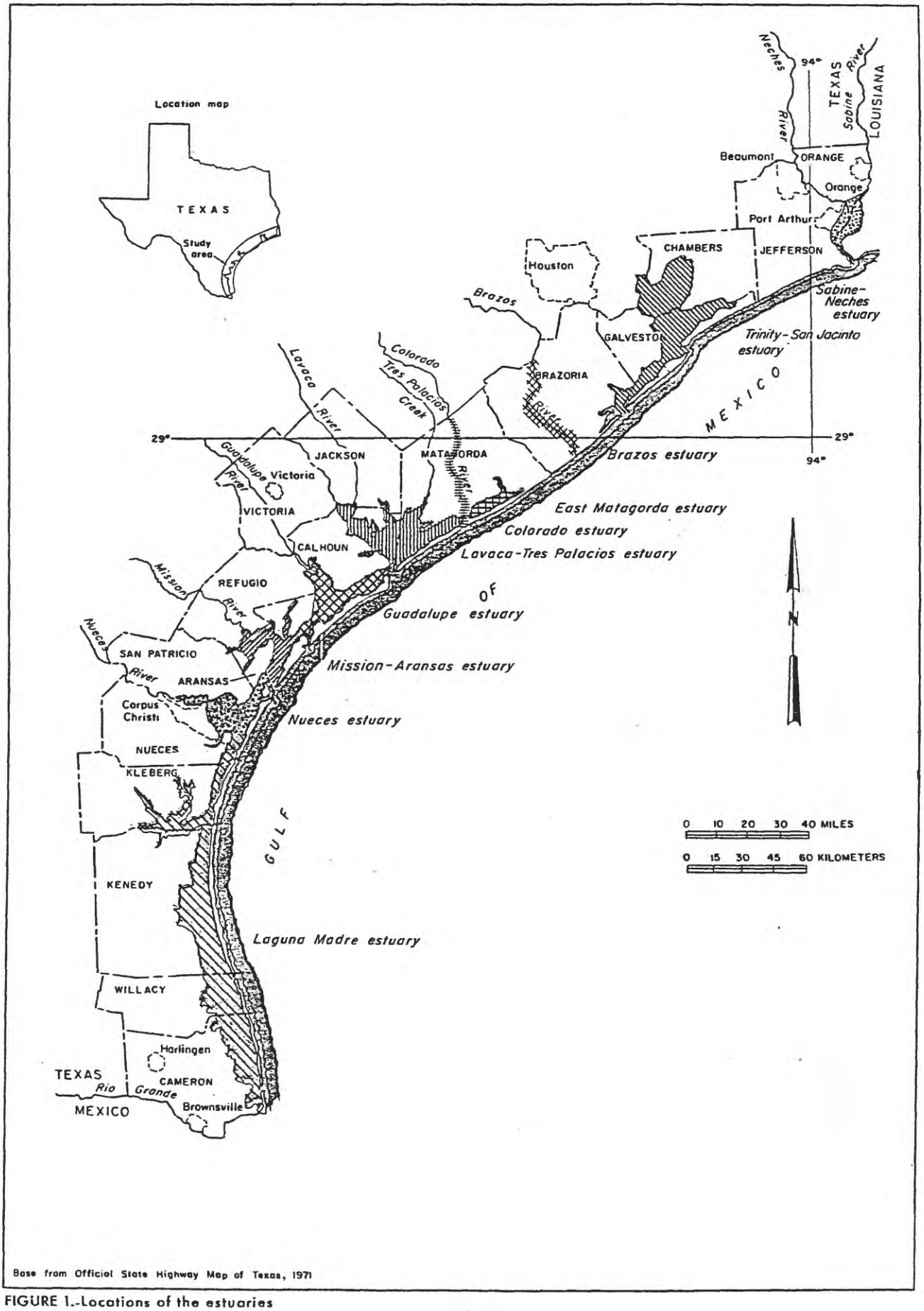


FIGURE 1.-Locations of the estuaries

Streamflow and Water-Quality Records

Streams along the Texas coast flow across the flat coastal plain and are incised below sea level; therefore, changes in water stage within the bays are often reflected for many miles up the tributary streams. Consequently, the farthest downstream sites at which continuous streamflow data can be obtained are located many miles upstream from the principal estuarine embayments. Streamflow data for these sites represent runoff reaching the coastal area, but do not describe all of the flow from streams that enter the estuaries. Intervening drainage, diversion for irrigation, return flows, and evapotranspiration may influence streamflow between the measuring sites and the estuaries.

Analyses of water collected daily at streamflow-measuring sites and at periodic sites show the effects of geology and cultural development on runoff from the drainage basins. At times, however, return flows from irrigation, evapotranspiration, and lack of significant runoff from areas upstream result in altered water quality between the data-collection site and the estuary.

The drainage areas from which unmeasured runoff enters the estuaries range from less than 100 mi^2 to more than 10,000 mi^2. Periodic measurements indicate that during some seasons, unmeasured runoff that reaches the estuaries exceeds measured flow from the major tributaries.

Records of streamflow, water-quality data at streamflow measuring sites, and water-quality data at periodic sites are published by the U.S. Geological Survey (1980-84).

QUALITY OF WATER IN THE ESTUARIES

Data Collection

Approximately 243 data-collection sites were visited during the 1979-83 water years. About 50 percent of these sites were located adjacent to or between navigation aids, bridge piers, power poles, survey platforms, well structures, or other landmarks and can be reoccupied exactly. About 19 percent of the sites were close to shore features or reefs and are located by onboard radar or by compass heading and distance from the feature and water depth at the site; these sites can be reoccupied within 100 ft. About 31 percent of the sites were remote to any reference. They were reached by traveling from a known landmark at a known speed on a predetermined compass course. Verification of site location is made by checking the alignment of one or more distant landmarks by visual observation or by onboard radar. These sites can be reoccupied within approximately 0.25 mi.

At each data-collection site, field data were collected at several depths. Samples for laboratory analyses were collected from a predetermined number of data-collection sites and at other sites in the network when significant changes in field data indicate a need for additional samples.

The properties or constituents measured in the field were dissolved oxygen (DO), specific conductance, temperature, pH, and transparency by Secchi disk. Analyses conducted in the laboratory included the principal inorganic ions, biochemical oxygen demand (BOD), total organic carbon (TOC), ammonia nitrogen, nitrite nitrogen, nitrate nitrogen, total phosphate, insecticides and herbicides, and other selected metals such as aluminum, arsenic, cadmium, chromium, cobalt, iron, lead, lithium, manganese, mercury, nickel, strontium, and zinc.

All water samples, except those for TOC and pesticides, were collected in plastic disposable bottles. The BOD, TOC, and nutrient samples were chilled and stored in crushed ice and shipped to the laboratory as soon as possible.

Water samples for the principal dissolved inorganic anions, except carbonate and bicarbonate, were filtered through 0.45-micrometer membrane filters. Water samples for the principal dissolved inorganic cations were filtered through 0.45-micrometer membrane filters and acidified to less than pH 2.0 with nitric acid. Water samples for selected trace constituents were filtered through 0.45-micrometer membrane filters into bottles prewashed with nitric acid, and 2 milliliters of 1:1 nitric acid were added to the filtrate. The samples for herbicides and insecticides were collected in heat-treated glass bottles and shipped to the laboratory as soon as possible.

For each of the estuaries along the Texas Coast there is a brief description and location of the estuary and data-collection sites and the data collected during October 1978 to September 1983. Actual dates of sampling, number of sampling sites, and analyses of samples varied during the period. All data collected during the period are given for each estuary.

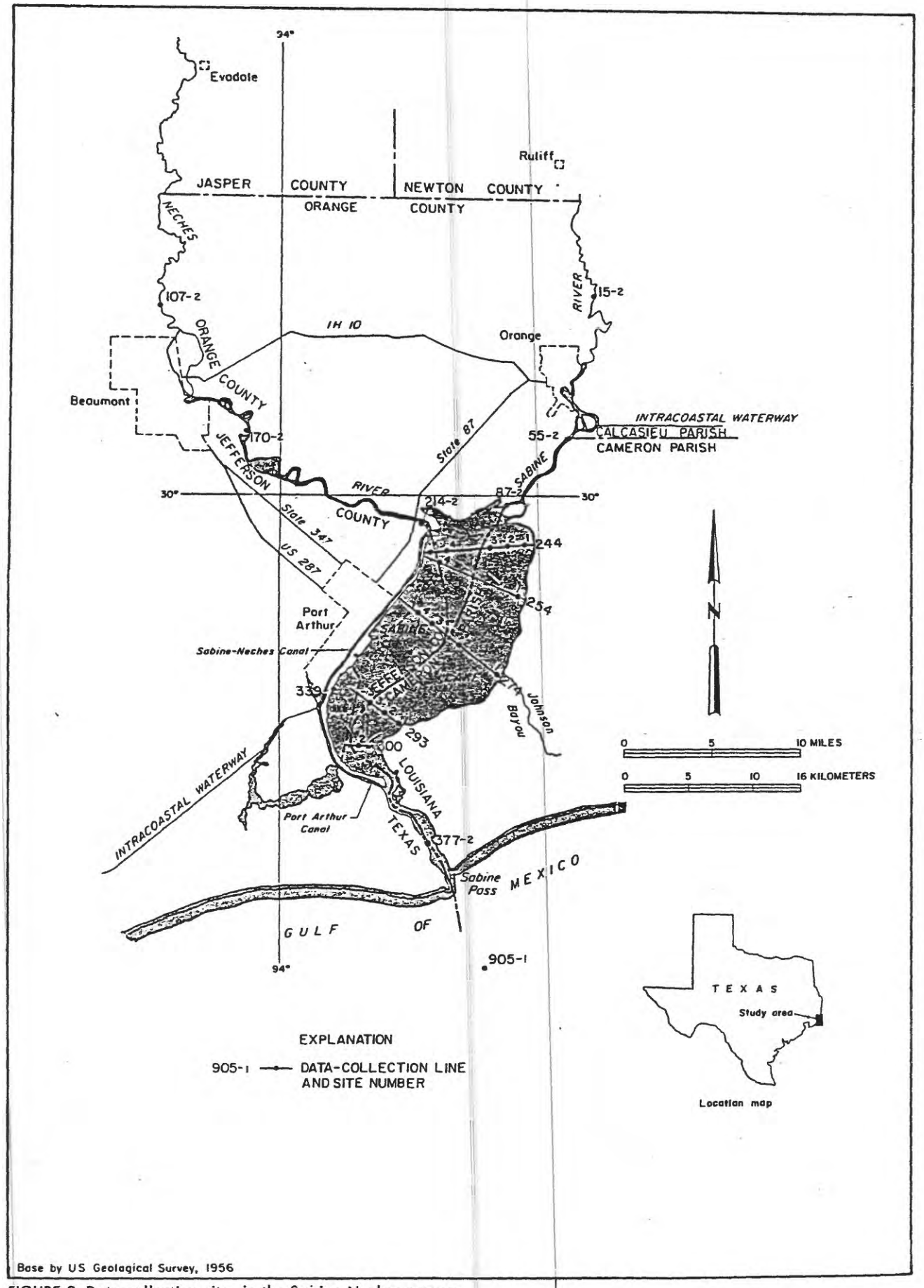
Sabine-Neches Estuary

The Sabine-Neches estuary, which has an area of about 100 mi^2, consists of the tidal parts of the Sabine and Neches Rivers and other tributaries, Sabine Lake, the Sabine-Neches Canal, the Port Arthur Canal, parts of the Intracoastal Waterway, and Sabine Pass (fig. 2). Water depth at mlw (mean low water) is greater than 40 ft in dredged parts of the rivers, canals, and the pass; about 15 ft in the Intracoastal Waterway; and generally about 10 ft in Sabine Lake.

Water-quality data collected from October 1978 to September 1983 are given in table 1 (supplemental information).

Trinity-San Jacinto Estuary

The Trinity-San Jacinto estuary, which has an area of about 590 mi^2, consists of the tidal parts of the Trinity and San Jacinto Rivers and other tributaries, the Houston Ship Channel, part of the Intracoastal Waterway, Galveston



Base by US Geological Survey, 1956

FIGURE 2.-Data-collection sites in the Sabine-Neches estuary

Bay, East Bay, West Bay, and Trinity Bay (fig. 3). Water depth at mlw is less than 10 ft in East Bay, West Bay, and Trinity Bay. Galveston Bay is generally less than 10 ft deep except near Bolivar Road where the depth increases to about 40 ft. The Houston Ship Channel is more than 40 ft deep, and the Intracoastal Waterway is about 15 ft deep.

Water-quality data collected from October 1978 to September 1983 are given in table 2 (supplemental information). Data for the San Jacinto River and for the upper part of the Houston Ship Channel were collected by other agencies.

Brazos Estuary

The Brazos estuary, which has an area of about 3 mi^2, consists of the tidal parts of the Brazos River and parts of the Intracoastal Waterway (fig. 4). Although Freeport Harbor is not directly connected with the estuary, wastes from industrial operations around the harbor are discharged into the estuary. Water depth at mlw is about 10 ft in the river and about 15 ft in the Intracoastal Waterway.

Water-quality data collected from October 1978 to September 1983 are given in table 3 (supplemental information)

East Matagorda Estuary

The East Matagorda estuary, which has an area of about 56 mi^2, consists of East Matagorda Bay, part of the Intracoastal Waterway, the tidal reaches of Caney Creek and Live Oak Bayou, and the tidal part of small tributaries (fig. 5). The maximum water depth at mlw is 5 ft in East Matagorda Bay and about 15 ft in the Intracoastal Waterway.

Water-quality data collected from October 1978 to September 1983 are given in table 4 (supplemental information).

Colorado Estuary

The Colorado estuary, which has an area of about 2 mi^2, consists of the tidal part of the Colorado River and part of the Intracoastal Waterway (fig. 6). The minimum depth at mlw is about 6 ft in the river channel and about 15 ft in the Intracoastal Waterway.

Water-quality data collected from October 1978 to September 1983 are given in table 5 (supplemental information).

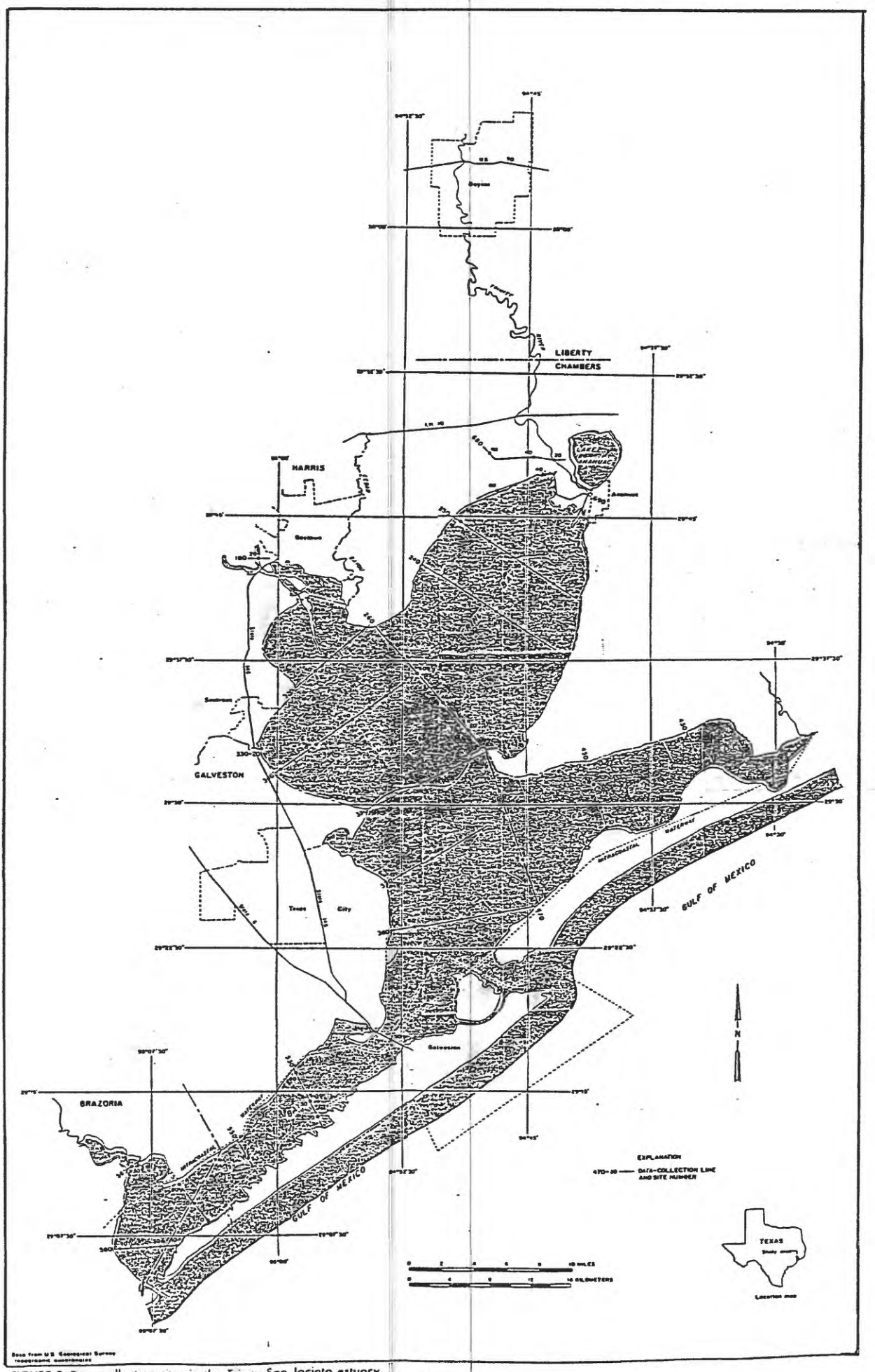


FIGURE 3.-Data-collection sites in the Trinity-San Jacinto estuary

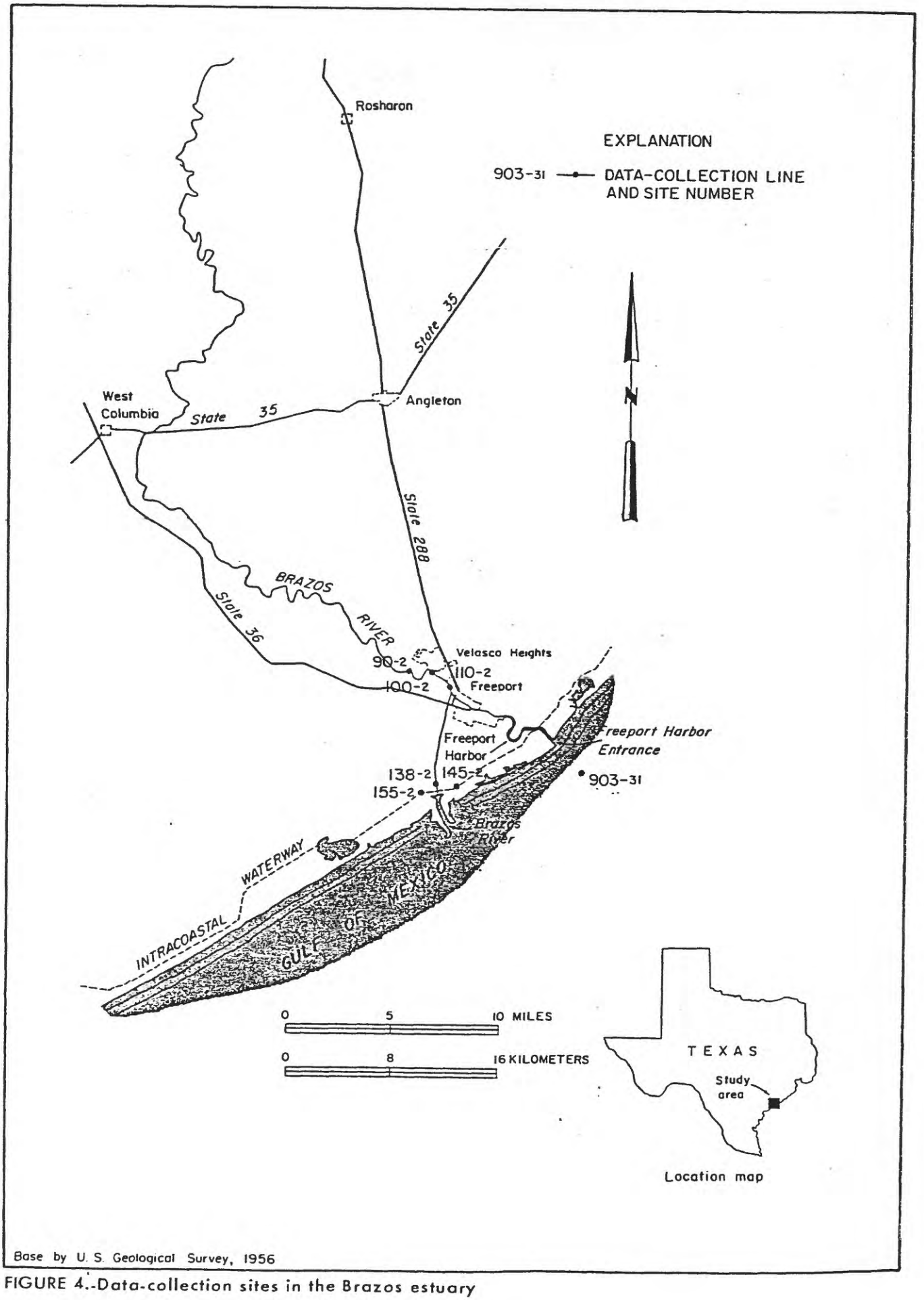


FIGURE 4.-Data-collection sites in the Brazos estuary

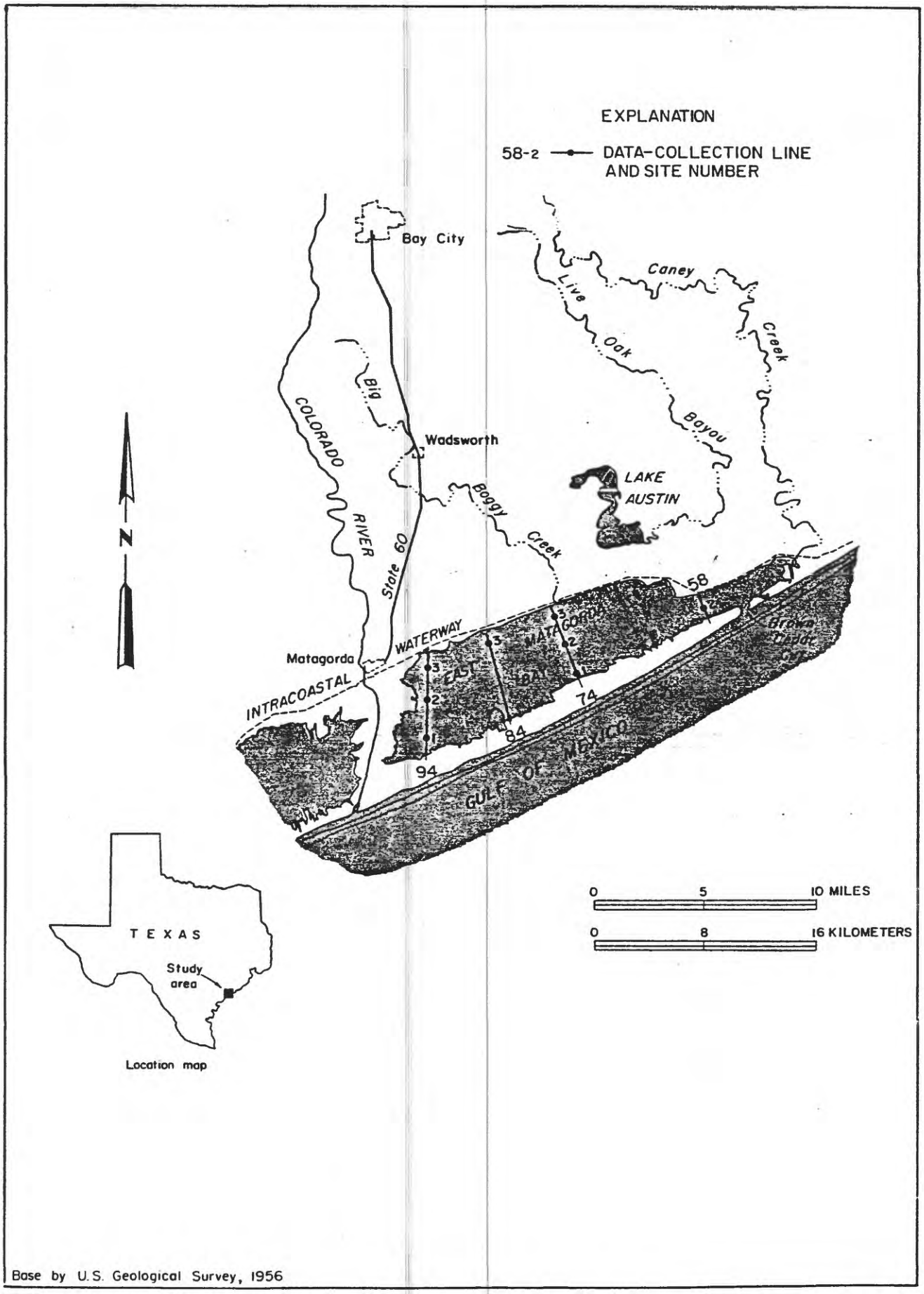


FIGURE 5.-Data-collection sites in the East Matagorda estuary

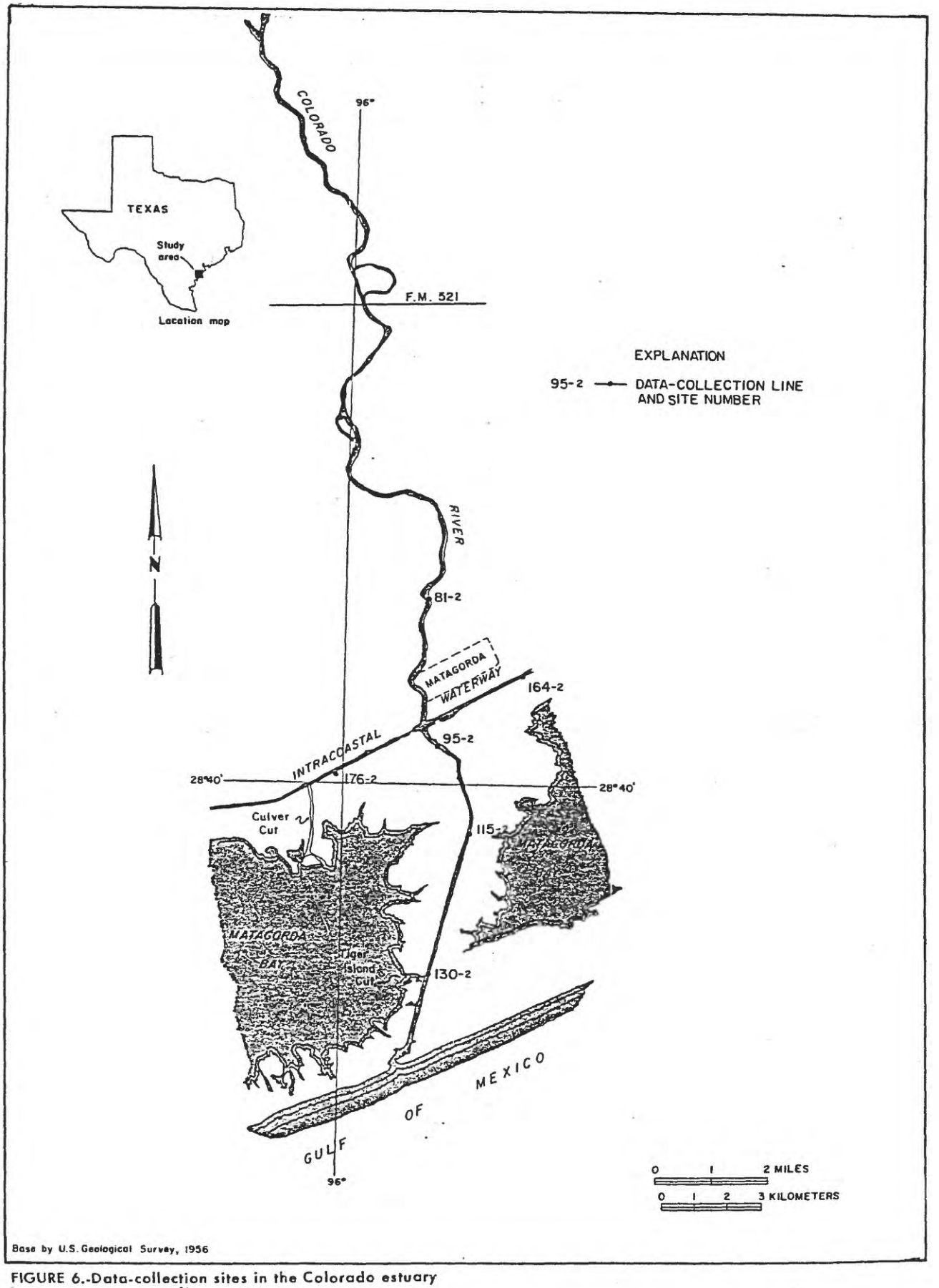


FIGURE 6.-Data-collection sites in the Colorado estuary

Lavaca-Tres Palacios Estuary

The Lavaca-Tres Palacios estuary, which has an area of about 350 mi^2, consists of the tidal parts of the Lavaca and Navidad Rivers, Tres Palacios Creek and other tributaries, Lavaca Bay, Cox Bay, Keller Bay, Carancahua Bay, Tres Palacios Bay, Matagorda Bay, Matagorda Bay Entrance Channel, Pass Cavallo, and part of the Intracoastal Waterway (fig. 7). Water depth at mlw is 13 ft or less in Matagorda Bay, except in the Matagorda Ship Channel, where it is more than 40 ft deep. Lavaca and Tres Palacios Bays are less than 8 ft deep at mlw, and Cox, Keller, and Carancahua Bays are less than 5 ft deep. The rivers are generally less than 15 ft deep.

Water-quality data collected from October 1978 to September 1983 are given in table 6 (supplemental information).

Guadalupe Estuary

The Guadalupe estuary, which has an area of about 210 mi^2, consists of the tidal parts of the Guadalupe River, Mission Lake, Guadalupe Bay, Hynes Bay, San Antonio Bay, Espiritu Santo Bay, Mesquite Bay, Victoria Channel, and part of the Intracoastal Waterway (fig. 8). At mlw, the Guadalupe River is about 10 ft deep; Mission Lake, Guadalupe Bay, and Hynes Bay are less than 3 ft deep; San Antonio Bay is less than 6 ft deep; Espiritu Santo Bay is about 8 ft deep; Mesquite Bay is about 4 ft deep; Victoria Channel is more than 8 ft deep; and the Intracoastal Waterway is about 15 ft deep.

Water-quality data collected from October 1978 to September 1983 are given in table 7 (supplemental information).

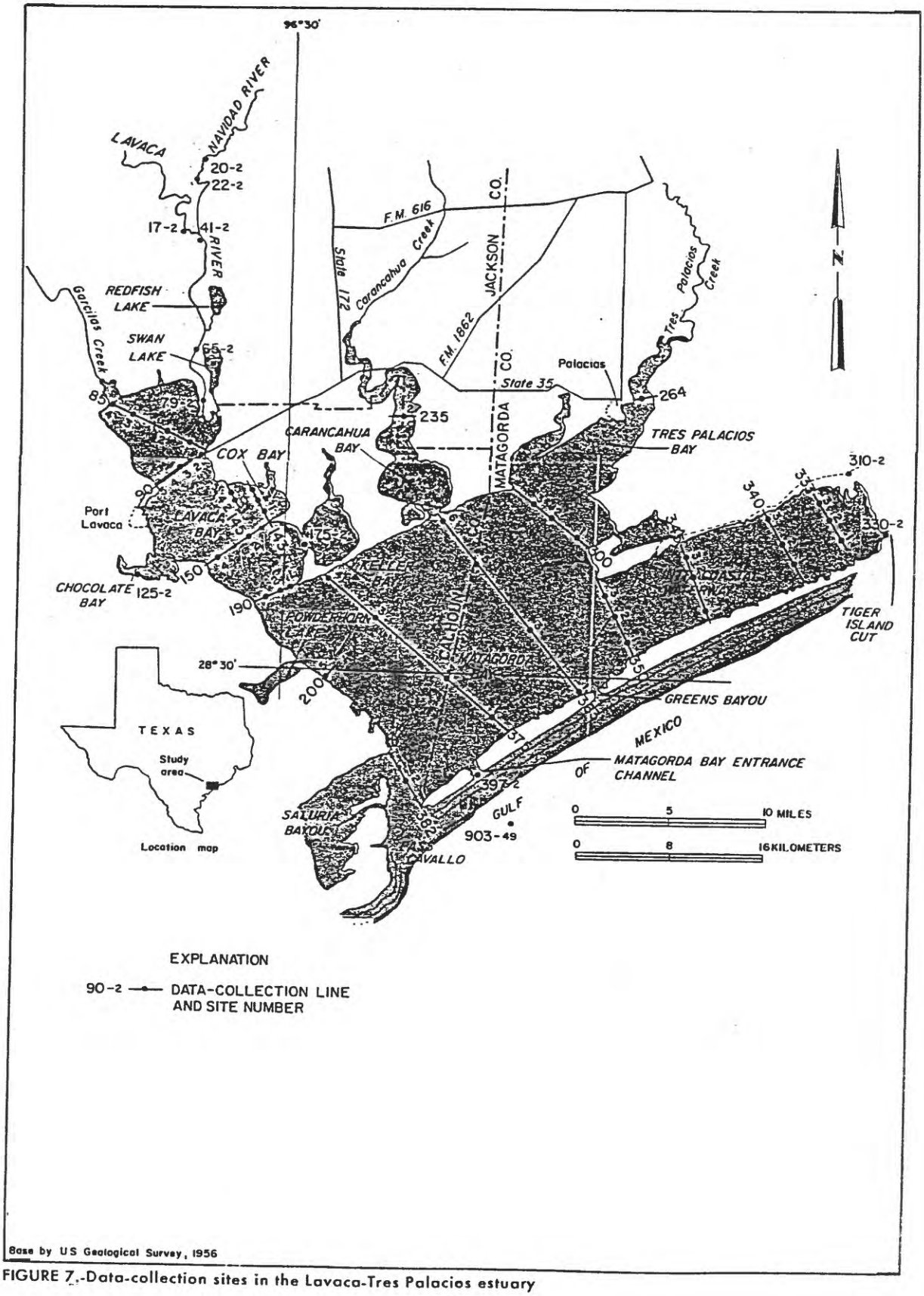
Mission-Aransas Estuary

The Mission-Aransas estuary, which has an area of about 160 mi^2, consists of the tidal parts of Mission River, Aransas River, Copano Creek and other tributaries, Mission Bay, Copano Bay, Aransas Bay, St. Charles Bay, Carlos Bay, part of Redfish Bay, part of the Intracoastal Waterway, Lydia Ann Channel, and Aransas Pass (fig. 9). Water depth at mlw is less than 2 ft in Mission Bay; less than 8 ft in Copano Bay; less than 13 ft in Aransas Bay; less than 5 ft in St. Charles Bay; 4 ft or less in Carlos and Redfish Bays; about 15 ft in the Intracoastal Waterway; about 20 ft in the Lydia Ann Channel; and more than 40 ft in Aransas Pass.

Water-quality data collected from October 1978 to September 1983 are given in table 8 (supplemental information).

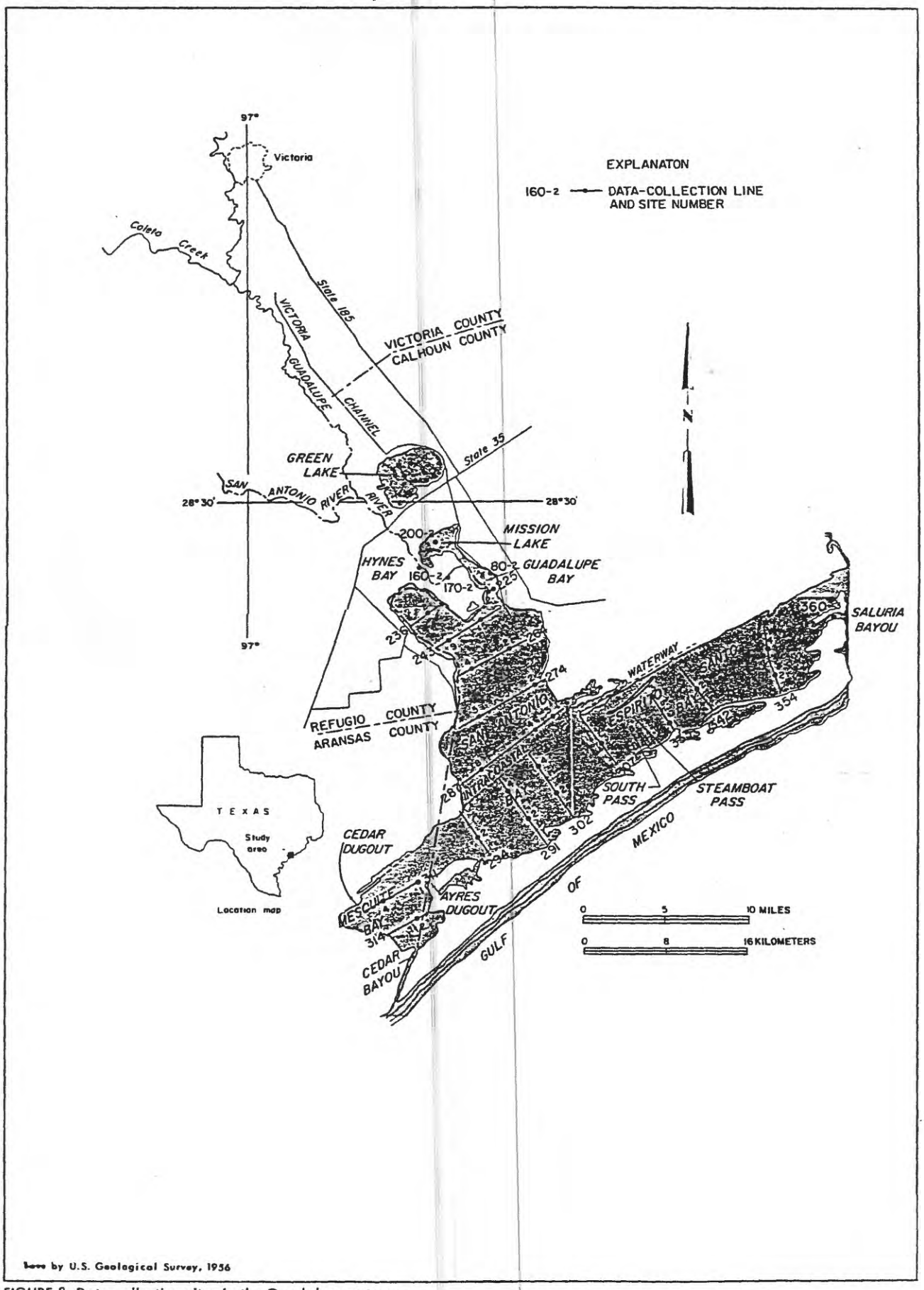
Nueces Estuary

The Nueces estuary, which has an area of about 200 mi^2, consists of the tidal parts of the Nueces River and other tributaries, Nueces Bay, Tule Lake



Base by U.S. Geological Survey, 1956

FIGURE 7.-Data-collection sites in the Lavaca-Tres Palacios estuary



Base by U.S. Geological Survey, 1956

FIGURE 8.--Data-collection sites in the Guadalupe estuary

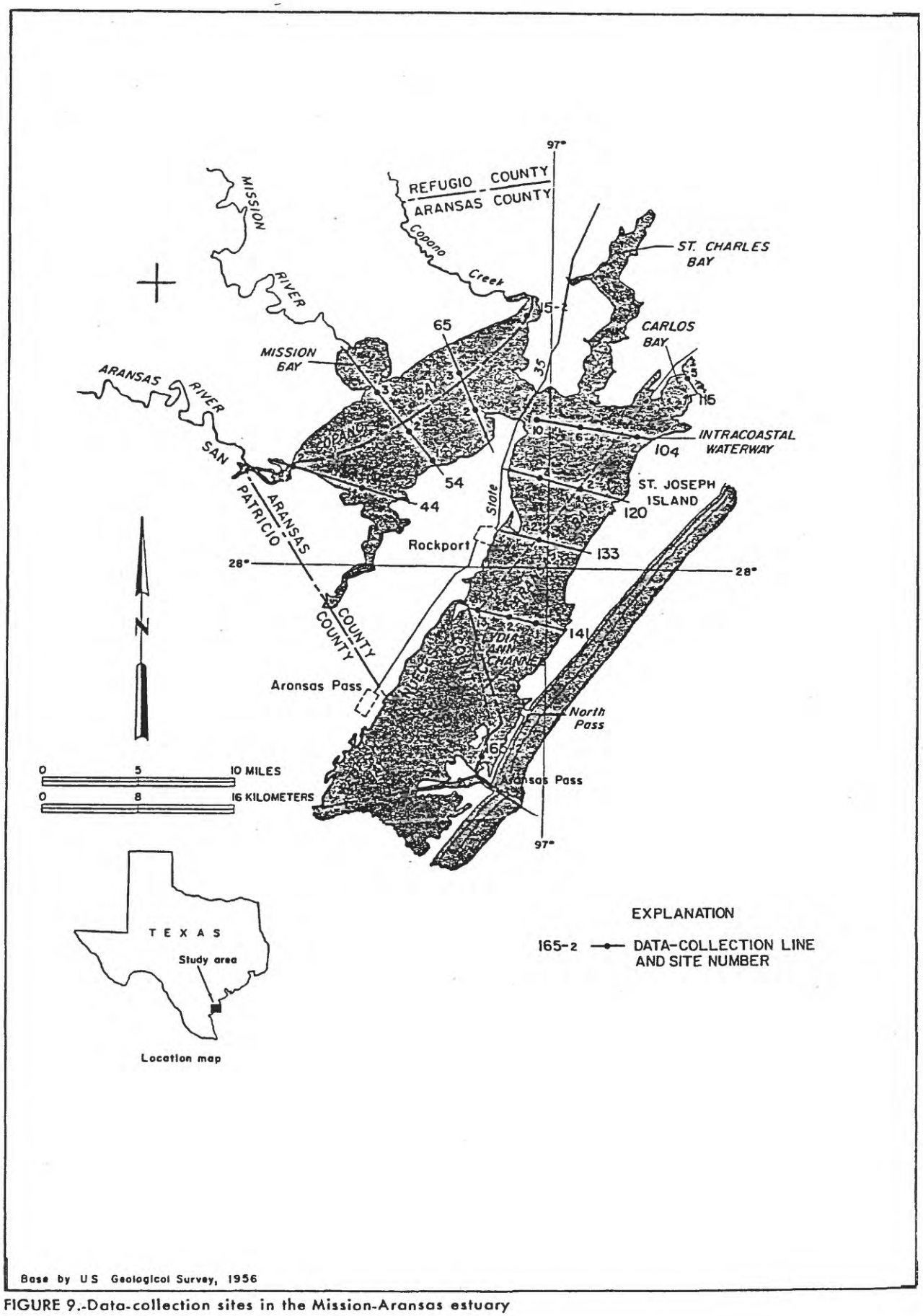


FIGURE 9.-Data-collection sites in the Mission-Aransas estuary

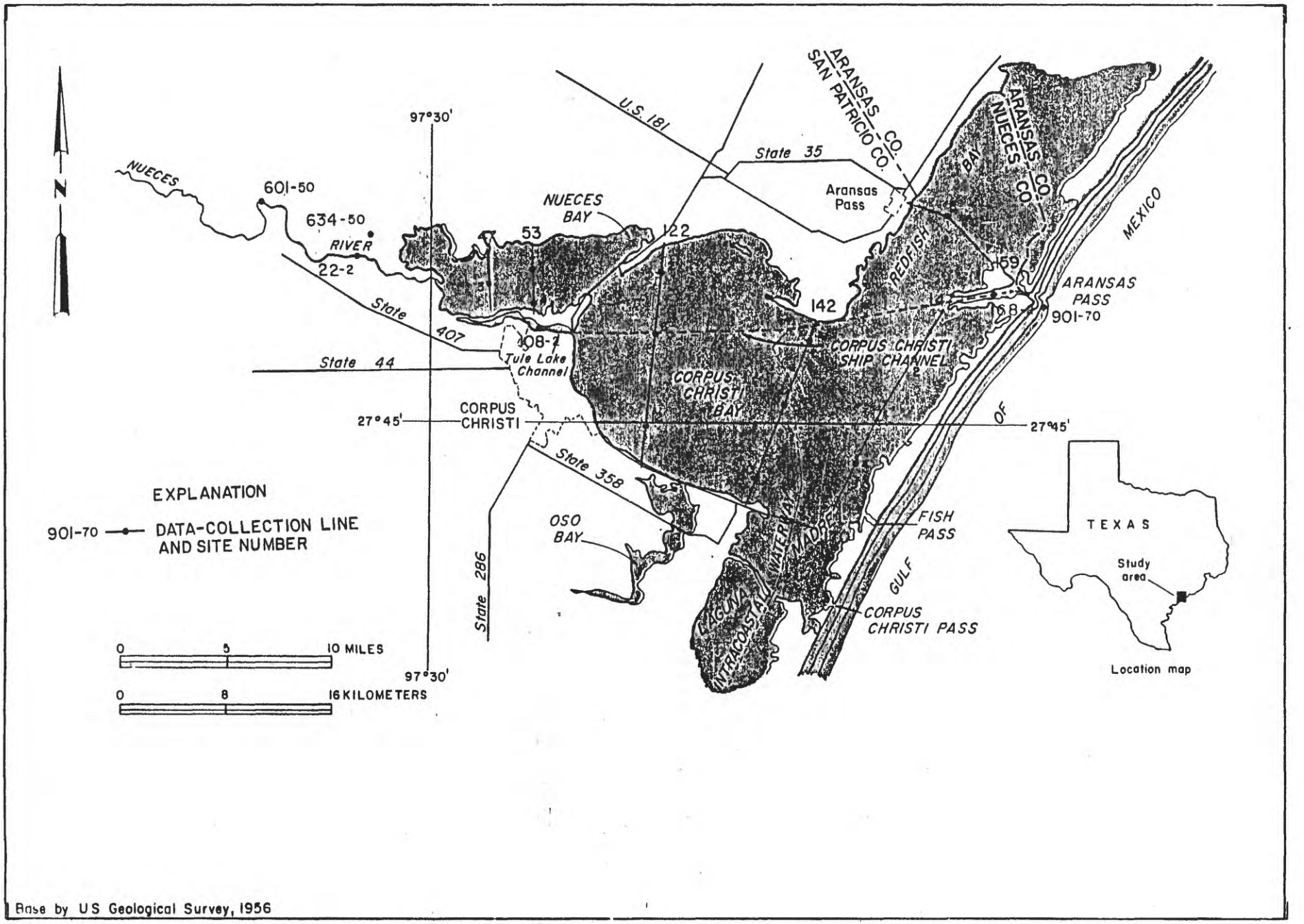
Channel, Corpus Christi Bay, part of Redfish Bay, Corpus Christi Ship Channel, and Aransas Pass, and part of the Intracoastal Waterway (fig. 10). Water depth at mlw is less than 13 ft in Corpus Christi Bay; less than 3 ft in Nueces Bay; more than 40 ft in Aransas Pass, Corpus Christi Ship Channel, and Tule Lake Channel; and about 15 ft in the Intracoastal Waterway. A part of Redfish Bay is about 10 ft deep, but about one-fourth of it is only 1 ft deep at mlw.

Water-quality data collected from October 1978 to September 1983 are given in table 9 (supplemental information).

Laguna Madre Estuary

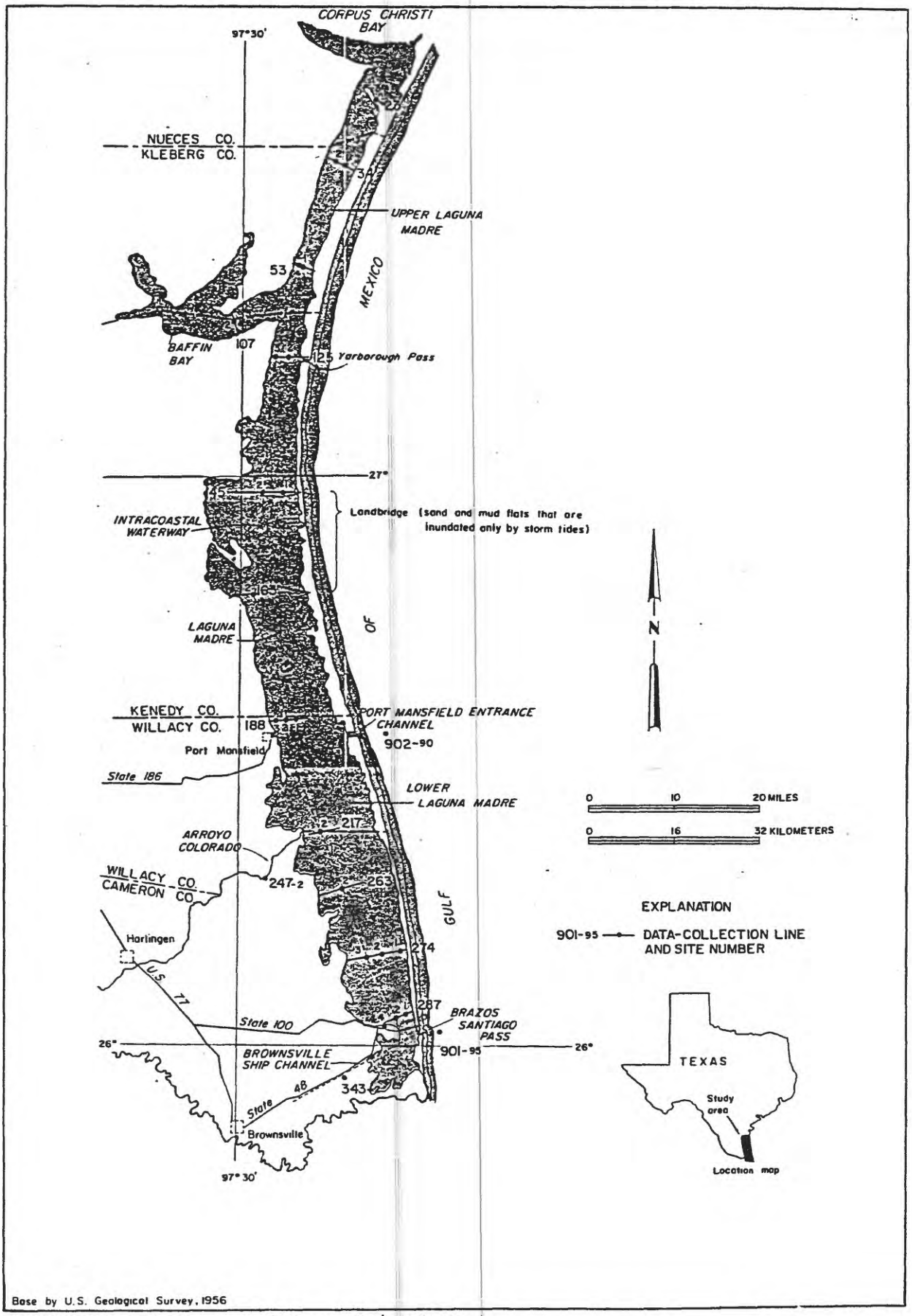
The Laguna Madre estuary, which has an area of about 640 mi^2, consists of the tidal parts of Arroyo Colorado and other tributaries, upper Laguna Madre, Baffin Bay, lower Laguna Madre, Brownsville Ship Channel, part of the Intracoastal Waterway, Port Mansfield Entrance Channel, and Brazos Santiago Pass (fig. 11). At mlw, upper and lower Laguna Madre and Baffin Bay generally are less than 4 ft deep, but in a few areas are as much as 10 ft deep. The Intracoastal Waterway, Port Mansfield Entrance Channel, and Arroyo Colorado are about 15 ft deep; and the Brownsville Ship Channel is about 40 ft deep.

Water-quality data collected from October 1979 to September 1983 are given in table 10 (supplemental information).



Base by US Geological Survey, 1956

FIGURE 10. Data-collection sites in the Nueces estuary



Base by U.S. Geological Survey, 1956

FIGURE 11.-Data-collection sites in the Laguna-Madre estuary.

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SUPPLEMENTAL INFORMATION

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83

300953093420600 LINE 015 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
OCT , 1978									
16...	1649	1.00	1230	7.3	26.0	--	6.6	83	--
16...	1650	12.0	20000	7.1	27.0	--	3.6	50	--
16...	1651	25.0	20000	7.1	26.0	--	3.3	45	--
APR , 1979									
16...	1635	1.00	250	6.4	20.5	--	7.8	89	--
16...	1638	10.0	200	6.3	20.5	--	7.8	89	--
16...	1640	29.0	200	6.7	21.0	--	7.6	87	--
NOV									
14...	0913	1.00	225	6.7	15.5	--	7.6	74	--
14...	0916	10.0	215	6.7	16.0	--	7.6	75	--
14...	0918	20.0	200	6.5	16.0	--	7.6	75	--
14...	0920	29.0	204	6.4	16.0	--	7.6	75	--
APR , 1980									
22...	1146	1.00	125	6.8	18.5	.40	8.2	86	--
22...	1148	15.0	125	6.8	18.5	--	8.2	86	--
22...	1150	33.0	125	6.9	18.5	--	8.2	86	--
NOV									
06...	0958	1.00	275	7.0	16.5	.40	8.3	84	1.2
06...	1000	7.50	280	7.0	16.5	--	8.2	83	--
06...	1002	15.0	310	7.1	16.5	--	7.8	79	--
06...	1004	28.0	16500	6.9	20.0	--	4.1	47	--
APR , 1981									
08...	1407	1.00	6000	7.2	21.5	.50	9.0	102	--
08...	1409	10.0	11000	7.5	21.0	--	6.6	76	--
08...	1411	20.0	17500	7.1	17.5	--	1.9	21	--
08...	1413	40.0	19000	7.3	17.0	--	1.2	13	--
NOV									
16...	1304	1.00	220	7.4	17.5	.40	7.9	82	--
16...	1306	10.0	289	7.5	17.5	--	7.9	82	--
16...	1308	20.0	1890	6.9	21.5	--	1.8	20	--
16...	1310	36.0	2090	6.8	22.5	--	2.0	23	--
APR , 1982									
28...	1202	1.00	98	6.4	18.5	.40	6.8	72	--
28...	1204	10.0	97	6.5	18.5	--	6.8	72	--
28...	1206	20.0	99	6.5	18.5	--	6.8	72	--
28...	1208	30.0	99	6.6	18.5	--	6.9	73	--
28...	1210	45.0	100	6.7	18.5	--	6.8	72	--

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
16...	.070	.010	.080	.010	.56	.57	.65	.040
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
APR , 1979								
16...	.140	<.010	.140	.020	.49	.51	.65	.030
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
NOV								
14...	.030	.020	.050	.040	4.6	4.6	4.7	.050
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
APR , 1980								
22...	.070	.000	.070	.000	.72	.72	.79	.040
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
NOV								
06...	.140	.010	.150	.040	.63	.67	.82	.060
06...	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--
APR , 1981								
08...	.120	.000	.120	.080	.79	.87	.99	.060
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
NOV								
16...	--	.030	<.090	.150	.69	.84	--	.040
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
APR , 1982								
28...	--	.020	<.100	<.060	--	.70	--	.060
28...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

300252093433000 LINE 055 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT , 1978											
16...	1618	1.00	25000	7.8	24.5	--	5.9	79	--	--	--
16...	1619	20.0	29000	7.8	25.0	--	5.2	73	--	--	--
16...	1620	35.0	28000	7.9	25.5	--	5.4	75	--	--	--
16...	1842	1.00	18600	7.8	24.5	--	5.9	77	1900	1800	140
16...	1843	17.0	23000	7.8	24.5	--	5.3	73	--	--	--
16...	1844	34.0	29000	7.9	24.5	--	5.3	71	--	--	--
17...	0822	1.00	17900	7.8	23.5	--	5.7	73	2000	1900	130
17...	0823	17.0	23000	7.9	23.5	--	5.4	71	--	--	--
17...	0824	34.0	34000	8.0	22.5	--	5.1	68	--	--	--
APR , 1979											
16...	1705	1.00	400	6.4	20.5	--	7.1	81	36	13	8.8
16...	1708	15.0	400	6.4	20.5	--	7.0	80	--	--	--
16...	1710	35.0	200	6.1	20.5	--	7.0	80	--	--	--
17...	0610	1.00	200	6.6	20.5	.60	8.7	99	37	9	9.3
17...	0612	15.0	210	6.5	20.5	--	8.7	99	--	--	--
17...	0615	32.0	210	6.5	20.5	--	6.7	76	--	--	--
NOV											
14...	1009	1.00	4000	6.9	17.0	--	6.1	62	--	--	--
14...	1011	12.5	10300	7.2	17.5	--	6.6	70	--	--	--
14...	1013	17.5	13900	7.3	18.0	--	6.7	72	--	--	--
14...	1015	25.0	18800	7.6	18.0	--	6.9	76	--	--	--
APR , 1980											
22...	1216	1.00	150	6.8	19.0	.40	7.8	83	--	--	--
22...	1218	15.0	150	6.8	19.0	--	7.8	83	--	--	--
22...	1220	30.0	150	6.8	19.0	--	7.8	83	--	--	--
NOV											
06...	0918	1.00	8900	7.2	18.0	.70	7.2	77	--	--	--
06...	0920	9.00	15000	7.3	19.0	--	6.7	75	--	--	--
06...	0922	18.0	20600	7.3	19.0	--	6.2	71	--	--	--
06...	0924	35.0	26500	7.5	18.0	--	5.6	64	--	--	--
APR , 1981											
08...	1458	1.00	18500	7.7	21.5	.50	8.6	102	--	--	--
08...	1500	8.50	18000	7.9	21.5	--	12.5	148	--	--	--
08...	1502	13.0	18500	7.8	21.5	--	9.2	109	--	--	--
08...	1504	17.0	19000	7.7	21.5	--	7.9	94	--	--	--
08...	1506	34.0	21000	7.3	21.0	--	6.0	71	--	--	--
NOV											
16...	1420	1.00	10600	7.5	20.0	--	6.6	75	--	--	--
16...	1422	10.0	16500	7.8	20.0	--	6.0	70	--	--	--
16...	1424	20.0	23600	7.8	20.0	--	5.9	70	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	370	3300	34	130	82	67	0	820	5600	.40
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
17...	410	3300	32	120	82	67	0	860	5900	.40
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
APR , 1979										
16...	3.4	24	2	2.8	28	23	0	16	35	.10
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
17...	3.3	28	2	2.9	34	28	0	17	43	.10
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
NOV										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

300252093433000 LINE 055 SITE 02--Continued

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
APR , 1981										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
NOV										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	5.2	10000	.170	.040	.210	.020	.64	.66	.87	.040
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	.120	.050	.170	.130	.48	.61	.78	.080
17...	5.1	11000	.170	.040	.210	.020	.98	1.0	1.2	.040
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	.140	.050	.190	.150	.46	.61	.80	.060
APR , 1979										
16...	6.0	110	.130	<.010	.130	.040	.36	.40	.53	.020
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	.130	<.010	.130	.030	.53	.56	.69	.020
17...	5.9	130	.130	<.010	.130	.040	.38	.42	.55	.030
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	.130	<.010	.130	.030	.37	.40	.53	.020
NOV										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
NOV										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV , 1981								
16...	1426	34.0	24600	7.7	20.0	--	6.0	72
APR , 1982								
28...	1328	1.00	110	6.4	19.0	.20	6.2	66
28...	1330	10.0	109	6.4	19.0	--	6.3	68
28...	1332	20.0	110	6.4	19.0	--	6.3	68
28...	1334	27.0	111	6.4	19.0	--	6.3	68

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

295938093465000 LINE 087 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
OCT , 1978									
16...	1557	1.00	19400	7.9	29.0	--	6.6	94	--
16...	1558	20.0	27600	8.0	24.5	--	5.7	77	--
16...	1559	35.0	27600	7.9	26.5	--	5.7	80	--
APR , 1979									
16...	1725	1.00	180	6.6	21.0	--	7.6	87	--
16...	1728	15.0	240	6.1	21.0	--	7.7	89	--
16...	1730	30.0	230	6.5	21.0	--	7.8	90	--
NOV									
14...	1042	1.00	8440	7.4	17.0	--	7.3	76	1.7
14...	1044	10.0	13000	7.6	17.5	--	7.3	78	--
14...	1046	20.0	20300	7.8	18.0	--	7.4	82	--
14...	1048	30.0	23000	8.0	18.5	--	7.2	81	--
14...	1050	37.0	24500	7.9	18.5	--	6.9	78	1.0
APR , 1980									
22...	1100	1.00	160	6.9	19.5	.30	8.1	87	1.7
22...	1102	15.0	160	6.9	19.0	--	8.1	86	--
22...	1104	25.0	160	6.9	19.0	--	7.9	84	--
22...	1106	37.0	160	6.9	19.0	--	7.4	79	1.6
NOV									
06...	1046	1.00	15200	7.4	19.5	.80	7.6	86	1.2
06...	1048	9.00	15200	7.4	19.5	--	7.6	86	--
06...	1050	18.0	19000	7.5	19.5	--	6.9	79	--
06...	1052	35.0	27000	7.6	19.0	--	6.2	73	--
APR , 1981									
08...	1534	1.00	21000	8.1	21.0	.50	10.4	124	2.4
08...	1536	8.50	21400	8.0	21.0	--	9.3	111	--
08...	1538	17.0	22000	7.8	20.5	--	8.2	97	--
08...	1540	34.0	23000	7.5	20.5	--	7.1	84	4.9
NOV									
16...	1504	1.00	16600	7.7	20.0	.50	6.9	79	2.0
16...	1506	10.0	19700	7.9	19.5	--	6.7	77	--
16...	1508	20.0	25500	8.0	19.5	--	6.7	80	--
16...	1510	34.0	31500	8.1	19.5	--	6.9	84	.8
APR , 1982									
28...	1344	1.00	141	6.3	19.0	.20	6.3	68	1.8
28...	1346	17.5	140	6.3	19.0	--	6.3	68	--
28...	1348	48.0	145	6.3	19.0	--	6.2	66	1.8

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
16...	.100	.040	.140	.010	.99	1.0	1.1	.070
16...	--	--	--	--	--	--	--	--
16...	.090	.050	.140	.070	.70	.77	.91	.060
APR , 1979								
16...	.110	.020	.130	.050	.52	.57	.70	.050
16...	--	--	--	--	--	--	--	--
16...	.130	<.010	.130	.100	.39	.49	.62	.040
NOV								
14...	.020	.060	.080	.130	1.9	2.0	2.1	.060
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	.020	.060	.080	.100	.34	.44	.52	.060
APR , 1980								
22...	.060	.000	.060	.000	.79	.79	.85	.050
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
22...	.060	.000	.060	.040	.89	.93	.99	.060
NOV								
06...	.130	.020	.150	.090	1.6	1.7	1.9	.060
06...	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--
06...	.100	.020	.120	.150	.95	1.1	1.2	.080
APR , 1981								
08...	.050	.010	.060	.050	.94	.99	1.1	.050
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	.010	.000	.010	.030	1.4	1.4	1.4	.090
NOV								
16...	.100	.030	.130	.160	.83	.99	1.1	.070
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
16...	--	.020	<.090	.160	.57	.73	--	.060
APR , 1982								
28...	--	.030	<.100	<.060	--	.79	--	.080
28...	--	--	--	--	--	--	--	--
28...	--	.030	<.100	<.060	--	.85	--	.080

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

300922094064900 LINE 107 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
16...	1705	1.00	3010	7.1	21.5	.50	5.5	65
16...	1706	5.00	7000	7.1	22.5	--	3.8	46
16...	1707	10.0	12500	6.9	24.5	--	.8	10
16...	1708	21.0	13000	6.8	26.5	--	.8	10
APR , 1979								
16...	1550	1.00	160	6.2	22.0	--	5.8	68
16...	1552	5.00	150	6.1	22.0	--	5.7	67
16...	1555	19.0	150	6.1	22.0	--	5.8	68
16...	1556	37.0	160	6.2	21.5	--	5.7	65
NOV								
14...	1227	1.00	135	6.8	16.5	--	8.6	86
14...	1229	10.0	142	6.7	16.0	--	8.7	86
14...	1231	21.0	148	6.2	16.5	--	8.6	86
APR , 1980								
22...	0925	1.00	140	6.5	18.5	.30	7.5	79
22...	0927	8.00	145	6.6	18.5	--	8.0	84
22...	0929	17.0	150	6.6	18.5	--	8.0	84
NOV								
06...	0932	1.00	150	6.2	17.0	.50	9.2	93
06...	0934	10.0	170	6.2	17.0	--	9.1	92
06...	0936	20.0	225	6.1	17.0	--	9.0	91
APR , 1981								
09...	1037	1.00	390	7.3	21.0	.30	8.5	94
09...	1039	11.0	1100	7.4	20.5	--	7.5	82
09...	1041	16.0	10500	6.9	19.0	--	.6	7
09...	1043	21.0	11000	7.2	18.5	--	.6	7
NOV								
16...	1522	1.00	150	7.0	17.0	.40	8.4	87
16...	1524	15.0	157	7.0	17.0	--	8.4	87
16...	1526	25.0	190	7.2	17.0	--	8.3	86
APR , 1982								
28...	1232	1.00	77	5.3	19.0	.40	6.3	68
28...	1234	12.5	79	5.3	19.5	--	6.3	68
28...	1236	25.0	76	5.2	19.0	--	6.3	68

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
16...	.000	.010	.010	.080	.58	.66	.67	.060
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
APR , 1979								
16...	.090	.020	.110	.080	.70	.78	.89	.050
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
NOV								
14...	.030	.020	.050	.090	.56	.65	.70	.080
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
APR , 1980								
22...	.060	.000	.060	.030	.67	.70	.76	.050
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
NOV								
06...	.000	.000	.000	.000	.60	.60	.60	.040
06...	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--
APR , 1981								
09...	.010	.000	.010	.040	.95	.99	1.0	.070
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
NOV								
16...	--	<.030	<.090	.090	.59	.68	--	.060
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
APR , 1982								
28...	--	.020	<.100	<.060	--	1.1	--	.080
28...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

300319094014600 LINE 170 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT , 1978											
16...	1635	1.00	17000	7.0	26.5	.50	3.2	43	--	--	--
16...	1636	20.0	20000	7.2	24.5	--	3.3	44	--	--	--
16...	1637	40.0	24500	7.5	24.5	--	4.7	64	--	--	--
16...	1850	1.00	16000	7.4	26.0	--	2.9	39	2100	2100	150
16...	1851	10.0	17000	7.4	24.5	--	2.3	30	--	--	--
16...	1852	20.0	19000	7.6	24.5	--	3.3	44	--	--	--
16...	1853	40.0	22000	7.8	24.0	--	4.7	62	--	--	--
17...	0825	1.00	20700	7.9	23.0	.60	3.4	44	1500	1400	150
17...	0826	10.0	23000	7.9	24.0	--	2.9	39	--	--	--
17...	0827	20.0	24000	8.0	24.5	--	3.1	42	--	--	--
17...	0828	40.0	29000	8.0	23.5	--	4.6	62	--	--	--
APR , 1979											
16...	1705	1.00	180	6.3	22.5	--	5.6	66	31	10	8.0
16...	1707	10.0	190	6.3	22.5	--	5.5	65	--	--	--
16...	1708	23.0	180	6.3	22.0	--	5.4	64	--	--	--
16...	1710	47.0	180	6.3	22.5	--	5.4	64	--	--	--
17...	0625	1.00	130	--	22.0	--	5.7	67	32	13	8.1
17...	0627	10.0	120	--	22.0	--	5.7	67	--	--	--
17...	0628	22.0	120	--	22.0	--	5.7	67	--	--	--
17...	0630	44.0	140	--	21.5	--	5.6	65	--	--	--
NOV											
14...	1145	1.00	3100	6.7	18.0	--	6.9	72	--	--	--
14...	1147	10.0	6900	6.9	19.0	--	6.0	64	--	--	--
14...	1149	20.0	15000	7.3	20.0	--	5.7	64	--	--	--
14...	1151	30.0	19200	7.5	20.0	--	6.1	70	--	--	--
14...	1153	40.0	22000	7.7	19.5	--	6.5	75	--	--	--
14...	1155	48.0	22200	7.6	19.0	--	6.5	74	--	--	--
APR , 1980											
22...	1015	1.00	160	6.6	18.5	.30	7.9	83	--	--	--
22...	1017	15.0	160	6.6	18.5	--	7.8	82	--	--	--
22...	1019	30.0	165	6.5	18.5	--	7.8	82	--	--	--
22...	1021	45.0	170	6.5	18.0	--	7.7	80	--	--	--
NOV											
06...	1004	1.00	4300	7.1	17.5	--	8.3	86	--	--	--
06...	1006	10.0	16000	6.8	19.5	--	7.1	80	--	--	--
06...	1008	25.0	24500	7.0	19.5	--	4.6	54	--	--	--
06...	1010	50.0	30000	7.7	18.5	--	5.0	58	--	--	--
APR , 1981											
09...	1100	1.00	12000	7.3	22.0	.40	7.4	86	--	--	--
09...	1102	11.0	12000	7.2	20.5	--	7.5	85	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	430	3700	35	140	100	82	0	940	6600	.40
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
17...	270	3800	43	150	95	78	0	980	6200	.50
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
APR , 1979										
16...	2.7	18	1	2.5	25	21	0	19	24	.10
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
17...	2.9	19	2	2.7	23	19	0	20	25	.10
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
NOV										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

300319094014600 LINE 170 SITE 02--Continued

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
NOV , 1980										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	7.3	12000	.450	.030	.480	.120	.68	.80	1.3	.110
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	.290	.040	.330	.100	.51	.61	.94	.070
17...	6.8	12000	.520	.030	.550	.070	.67	.74	1.3	.110
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	.390	.050	.440	.080	.60	.68	1.1	.070
APR , 1979										
16...	9.5	96	.090	.020	.110	.100	.71	.81	.92	.050
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	.080	.020	.100	.110	.74	.85	.95	.060
17...	9.8	99	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	.080	.020	.100	.120	.72	.84	.94	.040
NOV										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1981								
09...	1104	22.0	19000	7.2	19.5	--	6.0	69
09...	1106	45.0	24000	7.1	18.5	--	2.8	32
NOV								
16...	1430	1.00	3760	6.9	19.0	.50	6.6	72
16...	1432	5.00	3990	6.9	19.0	--	6.6	72
16...	1434	15.0	19200	7.1	20.0	--	4.6	54
16...	1436	30.0	25700	7.5	20.0	--	4.5	54
16...	1438	45.0	27100	7.4	21.0	--	4.2	52

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

300319094014600 LINE 170 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1982								
28...	1156	1.00	111	5.4	19.0	.30	5.8	62
28...	1158	10.0	113	5.4	19.0	--	5.8	62
28...	1200	20.0	115	5.4	19.0	--	5.8	62
28...	1202	40.0	113	5.5	19.0	--	5.9	63

295842093514900 LINE 214 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
OCT , 1978									
16...	1535	1.00	26400	7.8	24.0	.60	7.1	96	--
16...	1536	10.0	22000	7.6	24.0	--	6.1	81	--
16...	1537	20.0	23000	7.7	23.5	--	6.1	80	--
16...	1538	40.0	30500	8.0	23.5	--	6.4	86	--
APR , 1979									
17...	1006	1.00	280	--	22.5	--	5.4	64	--
17...	1009	10.0	280	--	22.5	--	5.5	65	--
17...	1011	20.0	290	--	21.5	--	6.2	72	--
17...	1015	40.0	300	--	22.5	--	6.4	75	--
NOV									
14...	1107	1.00	8480	6.5	18.0	--	7.2	76	1.5
14...	1109	10.0	11200	7.4	18.5	--	7.5	81	--
14...	1111	20.0	19000	7.9	18.5	--	7.3	81	--
14...	1113	35.0	25100	8.0	18.5	--	7.2	82	--
14...	1115	45.0	28800	8.0	19.0	--	7.1	83	2.8
APR , 1980									
22...	1104	1.00	220	6.6	18.5	.20	7.6	80	1.3
22...	1106	15.0	200	6.5	18.5	--	7.6	80	--
22...	1108	30.0	190	6.5	18.0	--	7.6	79	--
22...	1110	45.0	195	6.5	19.0	--	7.5	80	1.2
NOV									
06...	0845	1.00	18000	7.3	18.5	.70	6.9	77	1.0
06...	0847	11.0	24800	7.7	19.0	--	6.8	79	--
06...	0849	22.0	30000	7.9	19.0	--	6.8	80	--
06...	0851	44.0	32100	7.9	18.5	--	6.6	78	1.2
APR , 1981									
09...	1259	1.00	23500	7.9	22.0	.50	9.7	118	8.1
09...	1301	11.5	24000	7.8	21.5	--	8.5	103	--
09...	1303	23.0	24000	7.7	21.0	--	7.5	90	--
09...	1305	46.0	24000	7.7	21.0	--	6.9	83	4.2
NOV									
16...	1534	1.00	16100	7.7	21.5	.50	6.7	80	1.4
16...	1536	10.0	18900	7.9	21.0	--	6.6	79	--
16...	1538	25.0	31500	8.1	19.0	--	6.7	81	--
16...	1540	44.0	35000	8.2	19.5	--	7.0	86	1.0
APR , 1982									
28...	1114	1.00	1390	6.1	20.5	.30	6.1	68	1.8
28...	1116	10.5	1380	6.1	20.5	--	6.1	68	--
28...	1118	21.0	1400	6.1	20.5	--	6.0	66	--
28...	1120	42.0	1410	6.3	20.5	--	5.9	65	1.7

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
16...	.410	.040	.450	.080	.66	.74	1.2	.070
16...	.110	.030	.140	.070	.61	.68	.82	.070
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
APR , 1979								
17...	.110	.020	.130	.130	.82	.95	1.1	.060
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
17...	.110	.020	.130	.070	.56	.63	.76	.040

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

295842093514900 LINE 214 SITE 02--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV , 1979								
14...	.080	.040	.120	.080	1.1	1.2	1.3	.040
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	.050	.040	.090	.190	4.3	4.5	4.6	.150
APR , 1980								
22...	.100	.000	.100	.010	1.4	1.4	1.5	.060
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
22...	.110	.000	.110	.030	2.6	2.6	2.7	.060
NOV								
06...	.150	.020	.170	.090	.65	.74	.91	.050
06...	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--
06...	.100	.010	.110	.080	.86	.94	1.1	.080
APR , 1981								
09...	.070	.010	.080	.040	2.3	2.3	2.4	.160
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
09...	.030	.010	.040	.030	1.5	1.5	1.5	.120
NOV								
16...	--	<.030	.200	.180	.70	.88	1.1	.050
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
16...	--	.030	<.090	.140	.65	.79	--	.050
APR , 1982								
28...	--	.030	<.100	<.060	--	.94	--	.080
28...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--
28...	--	.040	<.100	.080	2.9	3.0	--	.110

295736093454600 LINE 244 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
17...	0944	1.00	21000	7.9	20.5	--	6.3	77
17...	0945	5.00	21000	7.9	20.0	--	6.2	76
APR , 1979								
17...	0635	1.00	430	7.1	22.0	.80	8.0	94
17...	0638	4.00	430	7.1	22.0	--	7.9	93
NOV								
14...	0948	1.00	8400	7.4	14.5	--	9.4	93
14...	0950	6.00	8700	7.4	14.5	--	9.3	92
APR , 1980								
22...	0902	1.00	330	7.0	22.0	.40	8.3	94
22...	0905	5.00	320	7.2	21.5	--	8.0	89
NOV								
06...	1208	1.00	10500	7.6	19.5	.60	8.0	88
06...	1210	6.00	11500	7.5	19.0	--	7.6	83
APR , 1981								
09...	1220	1.00	20500	--	22.0	.40	10.0	120
09...	1225	5.00	21500	--	22.0	--	8.8	106
NOV								
17...	1608	1.00	19400	8.1	20.5	1.10	8.7	103
17...	1610	4.00	19500	8.0	19.5	--	8.5	98
APR , 1982								
29...	1016	1.00	1860	6.4	21.0	.40	7.1	80
29...	1018	3.00	1960	6.3	21.0	--	7.1	80

295728093464500 LINE 244 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
17...	0936	1.00	23000	7.9	21.0	--	6.1	76
17...	0937	6.00	23000	7.9	20.0	--	6.1	75

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

295728093464500 LINE 244 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
17...	0640	1.00	390	7.0	22.0	.80	8.0	94
17...	0643	4.00	470	7.1	22.0	--	7.7	91
NOV								
14...	0940	1.00	8600	7.4	15.0	--	9.1	91
14...	0942	6.00	7500	7.3	15.5	--	8.1	81
APR , 1980								
22...	0853	1.00	170	7.0	20.0	.40	8.1	88
22...	0855	7.00	170	6.9	19.0	--	7.8	83
NOV								
06...	1158	1.00	13000	7.6	19.5	.80	8.2	92
06...	1200	6.00	13500	7.6	19.0	--	7.9	87
APR , 1981								
09...	1226	1.00	19500	--	22.0	.50	10.6	127
09...	1228	3.50	19500	--	22.0	--	10.6	127
09...	1230	6.50	20500	--	22.0	--	8.6	104
NOV								
17...	1558	1.00	20300	8.0	20.5	.90	8.0	95
17...	1600	5.00	20400	7.9	20.0	--	7.5	88
APR , 1982								
29...	1008	1.00	1010	6.4	20.5	.30	6.9	77
29...	1010	5.00	6400	6.5	21.5	--	6.2	71

295720093474500 LINE 244 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT , 1978											
17...	0924	1.00	24000	8.0	21.5	--	6.0	76	2500	2500	180
17...	0925	6.00	25000	8.0	21.0	--	6.0	76	--	--	--
APR , 1979											
17...	0648	1.00	230	6.8	20.5	.70	7.4	84	36	11	8.9
17...	0650	5.00	230	6.7	20.5	--	7.4	84	--	--	--
NOV											
14...	0927	1.00	10000	7.5	15.5	--	8.7	88	1000	1000	72
14...	0930	6.00	10000	7.4	15.5	--	8.5	86	--	--	--
APR , 1980											
22...	0846	1.00	160	5.9	19.0	.40	7.9	84	25	9	5.9
22...	0848	6.00	170	6.7	19.0	--	7.9	84	--	--	--
NOV											
06...	1147	1.00	16500	7.7	19.5	.90	8.1	92	1900	1800	130
06...	1149	6.00	16500	7.6	19.5	--	7.8	88	--	--	--
APR , 1981											
09...	1241	1.00	21000	--	22.5	.30	11.0	134	2400	2400	170
09...	1243	3.00	20000	--	22.5	--	10.8	131	--	--	--
09...	1245	5.00	19500	--	22.0	--	8.6	103	--	--	--
NOV											
17...	1543	1.00	18400	7.6	20.0	.60	7.4	86	2000	1900	140
17...	1545	5.00	20900	7.8	20.0	--	7.3	86	--	--	--
APR , 1982											
29...	0949	1.00	173	5.6	19.5	.30	6.3	68	23	7	4.8
29...	0951	5.00	190	5.7	19.0	--	6.0	64	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978										
17...	510	4700	41	180	91	75	0	1200	8200	.40
17...	--	--	--	--	--	--	--	--	--	--
APR , 1979										
17...	3.4	27	2	2.9	30	25	0	18	40	.10
17...	--	--	--	--	--	--	--	--	--	--
NOV										
14...	210	1800	24	77	52	43	0	480	3300	.20
14...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
22...	2.5	17	2	2.5	19	16	0	14	25	.10
22...	--	--	--	--	--	--	--	--	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

295720093474500 LINE 244 SITE 03--Continued

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
NOV , 1980										
06...	380	3000	30	110	--	66	--	770	5600	.40
06...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
09...	480	3800	34	140	--	52	--	1000	7200	.40
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
NOV										
17...	390	3200	32	110	--	67	--	830	6000	.40
17...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
29...	2.6	22	2	3.0	--	16	--	6.0	39	.10
29...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978										
17...	4.5	15000	.060	.040	.100	.050	.62	.67	.77	.050
17...	--	--	--	--	--	--	--	--	--	--
APR , 1979										
17...	5.6	120	.130	<.010	.130	.040	.47	.51	.64	.030
17...	--	--	--	--	--	--	--	--	--	--
NOV										
14...	4.2	6000	.070	.060	.130	.150	.95	1.1	1.2	.040
14...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
22...	6.4	83	.060	.000	.060	.010	.83	.84	.90	.050
22...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	4.6	10000	.140	.010	.150	.070	.90	.97	1.1	.050
06...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
09...	5.1	13000	.000	.000	.000	.020	1.3	1.3	1.3	.080
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
NOV										
17...	5.6	11000	.080	.030	.110	.160	.66	.82	.93	.060
17...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
29...	6.2	93	--	.020	<.100	<.060	--	.88	--	.070
29...	--	--	--	--	--	--	--	--	--	--

295701093501200 LINE 244 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT , 1978											
17...	0911	1.00	28000	8.2	20.5	--	6.1	78	--	--	--
17...	0912	5.00	28000	8.2	19.0	--	6.0	74	--	--	--
APR , 1979											
16...	1750	1.00	190	6.8	21.5	--	7.9	92	48	22	9.9
16...	1755	5.00	210	6.8	21.5	--	7.1	83	--	--	--
17...	0655	1.00	250	6.7	20.5	.80	7.2	82	--	--	--
17...	0700	5.00	240	6.7	20.5	--	7.0	80	36	12	8.9
NOV											
14...	0918	1.00	10000	7.3	16.0	--	8.1	83	--	--	--
14...	0921	4.00	10500	7.3	16.0	--	7.9	81	--	--	--
APR , 1980											
22...	0836	1.00	550	6.2	19.0	.30	7.9	84	--	--	--
22...	0838	4.50	530	6.6	19.0	--	7.6	81	--	--	--
NOV											
06...	1140	1.00	16500	7.8	19.5	1.10	8.2	93	--	--	--
06...	1142	7.00	19000	7.4	19.5	--	7.1	81	--	--	--
APR , 1981											
09...	1303	1.00	24500	--	22.0	.40	9.6	117	--	--	--
09...	1305	4.00	25000	--	22.5	--	8.6	106	--	--	--
NOV											
17...	1528	1.00	21600	8.1	20.5	.90	8.0	95	--	--	--
17...	1530	5.00	22800	7.8	20.0	--	6.9	82	--	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

295701093501200 LINE 244 SITE 04--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
APR , 1982											
29...	0938	1.00	390	6.1	20.0	.30	6.3	69	--	--	--
29...	0939	3.00	790	6.0	19.5	--	6.2	67	--	--	--
29...	0940	6.00	2780	6.4	20.5	--	5.5	61	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
APR , 1979										
16...	5.7	51	3	4.0	32	26	0	22	74	.10
16...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	3.4	29	2	2.8	29	24	0	17	45	.10
NOV										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
NOV										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
APR , 1979										
16...	6.2	190	.110	.020	.130	.060	.58	.64	.77	.060
16...	--	--	.130	<.010	.130	.060	.43	.49	.62	.040
17...	--	--	.130	<.010	.130	.050	.54	.59	.72	.030
17...	6.0	130	.120	.020	.140	.070	.44	.51	.65	.030
NOV										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
NOV										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

295651093512300 LINE 244 SITE 05

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
17...	0853	1.00	29000	8.0	21.5	--	5.7	74
17...	0854	3.00	28000	7.9	18.5	--	5.5	69
APR , 1979								
17...	0710	1.00	550	6.7	21.5	.70	7.0	81
17...	0713	4.00	540	6.7	21.5	--	7.2	84
NOV								
14...	0904	1.00	12000	7.4	16.5	--	7.9	82
14...	0906	2.00	6000	7.5	16.5	--	8.1	82
APR , 1980								
22...	0823	1.00	625	6.3	19.5	.40	7.9	85
22...	0825	3.00	710	6.5	19.5	--	7.7	83
NOV								
06...	1132	1.00	15500	7.8	19.5	1.10	8.3	93
06...	1134	4.00	17000	7.8	19.5	--	8.2	93
APR , 1981								
09...	1312	1.00	23000	--	23.0	.40	11.3	140
09...	1315	3.50	23000	--	22.5	--	11.2	137
NOV								
17...	1518	1.00	21300	7.9	20.0	.70	7.2	85
17...	1520	4.00	22300	7.8	20.0	--	6.7	79
APR , 1982								
29...	0918	1.00	1590	6.1	20.5	.30	5.9	66
29...	0920	4.00	1580	6.2	20.5	--	5.7	63

295454093460700 LINE 254 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
17...	1000	1.00	21000	7.9	20.5	--	6.4	79
17...	1001	6.00	21000	7.9	19.5	--	6.4	77
APR , 1979								
17...	0730	1.00	440	7.1	22.0	.80	7.5	88
17...	0733	5.00	440	7.1	22.0	--	7.7	91
NOV								
14...	1000	1.00	11000	7.5	14.0	--	9.5	94
14...	1004	6.00	10500	7.4	14.0	--	9.3	91
APR , 1980								
22...	0912	1.00	360	7.7	23.0	.40	8.5	98
22...	0914	6.00	370	7.5	22.5	--	8.3	94
NOV								
06...	1248	1.00	10500	7.7	20.0	1.10	8.5	95
06...	1250	5.00	10500	7.6	19.0	--	8.0	88
APR , 1981								
09...	1210	1.00	21000	--	22.0	.50	9.4	113
09...	1212	6.00	22000	--	22.5	--	8.5	104
NOV								
17...	1602	1.00	19400	8.1	20.5	.90	9.2	109
17...	1604	5.00	19800	8.2	19.0	--	9.4	108
APR , 1982								
29...	1030	1.00	2180	6.5	22.0	.40	7.2	83
29...	1032	5.00	3000	6.5	21.5	--	5.9	67

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
17...	.010	<.010	.010	.010	.68	.69	.70	.040
17...	--	--	--	--	--	--	--	--
APR , 1979								
17...	.110	<.010	.110	.060	.72	.78	.89	.030
17...	--	--	--	--	--	--	--	--
NOV								
14...	.080	.040	.120	.090	.63	.72	.84	.040
14...	--	--	--	--	--	--	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

295454093460700 LINE 254 SITE 01--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1980								
22...	.060	.000	.060	.000	1.1	1.1	1.2	.070
22...	--	--	--	--	--	--	--	--
NOV								
06...	.160	.010	.170	.060	1.0	1.1	1.3	.050
06...	--	--	--	--	--	--	--	--
APR , 1981								
09...	.010	.000	.010	.030	2.2	2.2	2.2	.080
09...	--	--	--	--	--	--	--	--
NOV								
17...	--	.010	<.090	.060	.79	.85	--	.040
17...	--	--	--	--	--	--	--	--
APR , 1982								
29...	--	.020	<.100	<.060	--	.89	--	.080
29...	--	--	--	--	--	--	--	--

295629093504500 LINE 254 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
17...	0901	1.00	28000	8.2	20.5	--	6.0	76
17...	0902	5.00	28000	8.2	20.5	--	6.0	76
APR , 1979								
17...	0715	1.00	250	7.0	21.5	.60	8.0	93
17...	0718	4.00	260	7.0	21.0	--	7.8	90
NOV								
14...	0910	1.00	11000	7.3	16.0	--	8.0	82
14...	0914	3.00	13000	7.4	16.5	--	7.9	83
APR , 1980								
22...	0830	1.00	630	6.8	21.0	.30	7.8	86
22...	0832	5.00	615	7.0	20.5	--	7.7	84
NOV								
06...	1118	1.00	13500	7.7	19.5	1.10	8.3	93
06...	1120	4.00	15500	7.7	19.5	--	8.1	91
APR , 1981								
09...	1143	1.00	25000	--	22.0	.40	10.3	126
09...	1145	5.00	27000	--	21.5	--	9.3	114
NOV								
17...	1442	1.00	21000	8.1	20.5	1.00	8.2	98
17...	1444	4.00	21000	8.0	20.0	--	8.4	99
17...	1508	1.00	21200	8.0	21.0	.70	7.4	89
17...	1510	5.00	21700	7.8	20.0	--	7.3	86
APR , 1982								
29...	0926	1.00	2230	6.5	21.5	.40	7.0	80
29...	0928	5.00	2290	6.4	21.5	--	6.8	77

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
17...	.040	.010	.050	.030	.67	.70	.75	.060
17...	--	--	--	--	--	--	--	--
APR , 1979								
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
NOV								
14...	.070	.040	.110	.070	.76	.83	.94	.050
14...	--	--	--	--	--	--	--	--
APR , 1980								
22...	.130	.000	.130	.010	1.3	1.3	1.4	.100
22...	--	--	--	--	--	--	--	--
NOV								
06...	.150	.010	.160	.040	.67	.71	.87	.040
06...	--	--	--	--	--	--	--	--
APR , 1981								
09...	.000	.000	.000	.020	.87	.89	.89	.060
09...	--	--	--	--	--	--	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

295629093504500 LINE 254 SITE 04--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV , 1981								
17...	.110	.030	.140	.120	.75	.87	1.0	.060
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
APR , 1982								
29...	--	.030	<.100	.100	.81	.91	--	.070
29...	--	--	--	--	--	--	--	--

295109093472000 LINE 274 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT , 1978											
17...	1019	1.00	24700	8.2	20.5	--	6.4	79	2700	2600	190
17...	1020	6.00	21000	8.2	20.5	--	6.6	80	--	--	--
APR , 1979											
17...	0745	1.00	600	7.2	22.5	.60	7.3	86	--	--	--
17...	0748	4.00	680	7.1	22.5	--	7.1	84	--	--	--
NOV											
14...	1016	1.00	9200	7.6	14.0	--	9.7	95	--	--	--
14...	1020	5.00	10000	7.5	14.0	--	9.6	94	--	--	--
APR , 1980											
22...	0925	1.00	760	7.8	23.0	.40	8.1	93	--	--	--
22...	0928	5.00	1300	7.5	22.5	--	6.9	79	--	--	--
NOV											
06...	1307	1.00	10000	7.6	19.5	.20	1.0	87	--	--	--
06...	1309	5.00	10000	7.6	19.5	--	7.8	86	--	--	--
APR , 1981											
09...	1058	1.00	23500	--	21.5	1.10	9.0	109	--	--	--
09...	1100	5.00	23000	--	22.0	--	8.9	108	--	--	--
NOV											
17...	1543	1.00	18800	8.4	20.0	1.20	9.6	112	--	--	--
17...	1545	5.00	19000	8.4	19.0	--	9.6	110	--	--	--
APR , 1982											
29...	1046	1.00	6180	6.9	22.0	.50	7.2	84	--	--	--
29...	1048	4.00	6570	6.8	21.5	--	7.0	81	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978										
17...	530	5100	43	190	92	75	0	1200	8800	.50
17...	--	--	--	--	--	--	--	--	--	--
APR , 1979										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
NOV										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
NOV										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

295109093472000 LINE 274 SITE 01--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT , 1978										
17...	3.1	16000	.010	<.010	.010	.010	.74	.75	.76	.050
17...	--	--	.010	<.010	.010	.010	.71	.72	.73	.050
APR , 1979										
17...	--	--	.140	<.010	.140	.070	.53	.60	.74	.040
17...	--	--	.140	<.010	.140	.060	.56	.62	.76	.040
NOV										
14...	--	--	.070	.040	.110	.060	1.4	1.5	1.6	.050
14...	--	--	.040	.040	.080	.060	.94	1.0	1.1	.040
APR , 1980										
22...	--	--	.130	.000	.130	.010	1.3	1.3	1.4	.070
22...	--	--	.030	.000	.030	.010	1.9	1.9	1.9	.090
NOV										
06...	--	--	.120	.010	.130	.100	9.6	9.7	9.8	.070
06...	--	--	.120	.010	.130	.010	.99	1.0	1.1	.070
APR , 1981										
09...	--	--	.000	.000	.000	.020	1.2	1.2	1.2	.060
09...	--	--	.000	.000	.000	.040	1.1	1.1	1.1	.060
NOV										
17...	--	--	--	.010	<.090	.060	.64	.70	--	.040
17...	--	--	--	.010	<.090	.050	1.1	1.1	--	.050
APR , 1982										
29...	--	--	.100	.020	.120	.060	.82	.88	1.0	.070
29...	--	--	.090	.020	.110	<.060	--	.93	1.0	.080

295228093492000 LINE 274 SITE 02

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)
OCT , 1978										
17...	1038	1.00	25000	8.2	20.5	--	6.3	79	--	--
17...	1039	8.00	26000	8.2	20.0	--	6.3	78	--	--
17...	1855	1.00	24700	8.5	21.5	--	7.1	116	--	--
17...	1856	8.00	25300	8.5	21.5	--	8.5	109	--	--
18...	0800	1.00	20200	7.8	18.0	.50	7.7	91	--	--
18...	0801	7.00	20700	7.8	17.5	--	7.9	92	--	--
APR , 1979										
17...	0800	1.00	320	7.0	22.0	.80	7.7	91	--	--
17...	0804	6.00	320	7.0	22.0	--	7.7	91	--	--
NOV										
14...	1028	1.00	9100	7.5	14.0	--	9.6	94	.060	.040
14...	1032	7.00	10000	7.5	14.0	--	9.4	92	--	--
APR , 1980										
22...	0935	1.00	465	7.5	21.5	--	8.2	92	.130	.000
22...	0938	7.00	490	7.4	21.0	--	8.0	89	--	--
NOV										
06...	1329	1.00	13000	7.7	19.5	1.30	7.7	86	.140	.020
06...	1331	7.00	13000	7.7	19.5	--	6.9	77	--	--
APR , 1981										
09...	1108	1.00	24500	--	21.0	.60	9.5	114	.010	.000
09...	1110	7.00	23500	--	21.5	--	9.1	110	--	--
NOV										
17...	1530	1.00	19800	8.6	19.5	1.40	11.3	131	--	<.030
17...	1532	7.00	20000	8.3	19.0	--	9.9	114	--	--
APR , 1982										
29...	1056	1.00	2340	6.6	21.0	.40	7.1	80	--	.070
29...	1058	7.00	5220	6.8	21.5	--	6.3	72	--	--

DATE	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)
OCT , 1978										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
APR , 1979										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

295228093492000 LINE 274 SITE 02--Continued

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)	CADMIUM DISSOLVED (UG/L AS CD)
NOV , 1979										
14...	.100	.070	1.0	1.1	1.2	.050	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
22...	.130	.060	1.4	1.5	1.6	.060	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	.160	.010	.75	.76	.92	.040	0	100	.0	10
06...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
09...	.010	.030	.93	.96	.97	.070	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
NOV										
17...	<.090	.080	1.0	1.1	--	.050	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
29...	<.100	.110	.99	1.1	--	.090	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT , 1978									
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
APR , 1979									
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
NOV									
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
APR , 1980									
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
NOV									
06...	10	0	70	0	60	.0	0	0	20
06...	--	--	--	--	--	--	--	--	--
APR , 1981									
09...	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--
NOV									
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
APR , 1982									
29...	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--

295329093505500 274 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)
OCT , 1978										
17...	1121	1.00	26000	8.2	20.5	--	6.2	78	.130	.020
17...	1122	6.00	26000	8.2	20.5	--	5.6	71	--	--
APR , 1979										
17...	0808	1.00	310	6.9	22.0	.70	7.5	88	.110	.020
17...	0810	6.00	310	6.9	22.0	--	7.6	89	--	--
NOV										
14...	1040	1.00	11000	7.5	14.5	--	9.1	91	.050	.020
14...	1046	6.00	11500	7.5	14.5	--	9.0	90	--	--
APR , 1980										
22...	1038	1.00	725	7.4	22.0	.50	8.3	94	.130	.000
22...	1041	6.00	750	7.1	21.0	--	7.9	88	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

295329093505500 274 SITE 03--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)
NOV , 1980										
06...	1353	1.00	13000	7.8	19.5	1.10	8.9	99	.170	.010
06...	1355	7.00	13000	7.8	19.5	--	8.9	99	--	--
APR , 1981										
09...	1118	1.00	25000	--	22.0	.40	9.1	111	.010	.000
09...	1120	6.00	25000	--	21.5	--	8.2	100	--	--
NOV										
17...	1518	1.00	20200	8.5	20.0	1.20	9.8	115	--	.030
17...	1520	8.00	20500	8.2	19.5	--	8.8	103	--	--
APR , 1982										
29...	1108	1.00	2760	6.6	22.0	.40	7.2	83	--	.020
29...	1110	6.00	4850	6.8	21.5	--	6.7	77	--	--

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
OCT , 1978									
17...	.150	.070	1.8	1.9	2.1	.560	--	--	--
17...	--	--	--	--	--	--	--	--	--
APR , 1979									
17...	.130	.110	.81	.92	1.1	.050	--	--	--
17...	--	--	--	--	--	--	--	--	--
NOV									
14...	.070	.060	1.0	1.1	1.2	.040	0	200	0
14...	--	--	--	--	--	--	--	--	--
APR , 1980									
22...	.130	.030	1.2	1.2	1.3	.050	--	--	--
22...	--	--	--	--	--	--	--	--	--
NOV									
06...	.180	.010	.68	.69	.87	.040	--	--	--
06...	--	--	--	--	--	--	--	--	--
APR , 1981									
09...	.010	.040	.88	.92	.93	.060	0	200	0
09...	--	--	--	--	--	--	--	--	--
NOV									
17...	<.090	.070	.93	1.0	--	.040	1	<100	<1
17...	--	--	--	--	--	--	--	--	--
APR , 1982									
29...	<.100	.080	.78	.86	--	.100	<1	100	<1
29...	--	--	--	--	--	--	--	--	--

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT , 1978									
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
APR , 1979									
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
NOV									
14...	.00	0	70	1	70	.0	0	0	20
14...	--	--	--	--	--	--	--	--	--
APR , 1980									
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
NOV									
06...	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--
APR , 1981									
09...	20	34	110	0	30	.4	0	1	30
09...	--	--	--	--	--	--	--	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

295329093505500 LINE 274 SITE 03--Continued

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
NOV , 1981									
17...	20	3	110	<1	50	.3	<1	<1	50
17...	--	--	--	--	--	--	--	--	--
APR , 1982									
29...	<10	2	100	1	150	<.1	<1	<1	10
29...	--	--	--	--	--	--	--	--	--

DATE	TIME	SAMPLING DEPTH (FEET)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)
NOV , 1979												
14...	1040	1.00	.0	2	.000	.0	.0	.00	.000	.1	.000	.1

DATE	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIAZINON, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)	ETHION, TOTAL IN BOTTOM MATERIAL (UG/KG)
NOV , 1979											
14...	.000	.4	.00	.0	.000	.0	.000	.000	.0	.00	.0

DATE	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	MALATHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	METHOXYCHLOR, TOTAL (UG/L)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARATHION, TOTAL (UG/L)
NOV , 1979											
14...	.000	.0	.000	.0	.000	.0	.00	.0	.00	.0	.00

DATE	METHYL PARATHION, TOT. IN BOTTOM MATL. (UG/KG)	METHYL TRITHION, TOTAL (UG/L)	METHYL TRITHION, TOT. IN BOTTOM MATL. (UG/KG)	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PARATHION, TOTAL IN BOTTOM MATERIAL (UG/KG)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	TRITHION, TOTAL IN BOTTOM MATERIAL (UG/KG)
NOV , 1979											
14...	.0	.00	.0	.00	.00	.0	.0	.0	.00	.00	.0

295402093514300 LINE 274 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
17...	1146	1.00	29000	8.1	20.5	--	5.8	74
17...	1147	5.00	28000	8.2	20.5	--	5.7	72
APR , 1979								
17...	0820	1.00	330	6.9	22.5	--	7.6	89
17...	0825	4.00	340	6.9	22.5	--	7.7	91
NOV								
14...	1056	1.00	9700	7.5	14.5	--	9.2	91
14...	1100	5.00	11000	7.5	14.5	--	9.0	90
APR , 1980								
22...	1028	1.00	560	7.1	22.0	.50	7.3	82
22...	1031	5.00	570	7.1	21.0	--	7.3	81

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

295402093514300 LINE 274 SITE 04--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV , 1980								
06...	1408	1.00	13000	7.7	19.5	--	8.5	95
06...	1410	5.00	13000	7.7	19.5	--	8.5	95
APR , 1981								
09...	1130	1.00	25000	--	22.0	.50	9.4	115
09...	1132	6.00	25000	--	22.0	--	8.8	108
NOV								
17...	1503	1.00	20800	8.2	20.5	1.10	8.7	103
17...	1505	5.00	20800	8.1	20.0	--	8.3	96
APR , 1982								
29...	1122	1.00	3310	6.7	22.5	.40	7.2	84
29...	1124	5.00	4170	6.8	21.5	--	7.1	81

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
17...	.140	.030	.170	.030	.66	.69	.86	.060
17...	.060	.020	.080	.030	.77	.80	.88	.070
APR , 1979								
17...	.120	.020	.140	.120	.76	.88	1.0	.080
17...	.120	.020	.140	.120	.76	.88	1.0	.070
NOV								
14...	.050	.020	.070	.110	1.3	1.4	1.5	.040
14...	.060	.020	.080	.050	1.5	1.5	1.6	.050
APR , 1980								
22...	.130	.000	.130	.180	.82	1.0	1.1	.050
22...	.120	.000	.120	.150	.71	.86	.98	.050
NOV								
06...	.170	.020	.190	.030	1.3	1.3	1.5	.050
06...	.180	.010	.190	.040	.69	.73	.92	.050
APR , 1981								
09...	.000	.000	.000	.010	.90	.91	.91	.050
09...	.000	.000	.000	.030	1.9	1.9	1.9	.200
NOV								
17...	.060	.030	.090	.060	.82	.88	.97	.050
17...	--	<.030	<.090	.110	.58	.69	--	.070
APR , 1982								
29...	.140	.030	.170	.090	.91	1.0	1.2	.080
29...	.160	.030	.190	.120	.74	.86	1.1	.080

294847093525700 LINE 293 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
17...	1038	1.00	20000	8.0	17.5	.40	7.1	84
17...	1039	5.00	20000	8.0	18.0	--	7.1	85
NOV , 1979								
14...	1125	1.00	11000	7.6	14.0	--	9.7	96
14...	1128	5.00	7700	7.6	14.0	--	9.8	95
APR , 1980								
22...	0950	1.00	630	7.7	22.5	.40	8.3	95
22...	0953	5.00	660	7.6	21.5	--	8.1	91
NOV								
06...	1515	1.00	10500	8.4	19.0	.60	--	--
06...	1517	6.00	10500	8.4	18.5	--	--	--
APR , 1981								
09...	1015	1.00	32500	--	21.0	.30	7.5	93
09...	1017	5.00	32500	--	21.0	--	7.4	92
NOV								
17...	1408	1.00	20800	8.5	19.5	1.20	10.1	118
17...	1410	4.00	23000	8.5	19.5	--	9.8	113
APR , 1982								
29...	1200	1.00	7330	7.2	22.0	.70	7.5	88
29...	1202	5.00	7330	7.2	22.0	--	7.5	88

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

294917093534500 LINE 293 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
17...	1044	1.00	20000	8.1	17.5	.40	7.3	86
17...	1045	5.00	20000	8.0	17.5	--	7.4	87
APR , 1979								
17...	0900	1.00	350	7.3	22.5	.70	8.0	94
17...	0904	5.00	350	7.3	22.5	--	8.0	94
NOV								
14...	1115	1.00	10000	7.5	14.0	--	9.5	93
14...	1118	5.00	7400	7.5	14.0	--	9.6	93
APR , 1980								
22...	0958	1.00	400	7.5	22.5	.50	8.4	96
22...	1000	5.00	410	7.4	20.5	--	8.1	89
NOV								
06...	1500	1.00	12000	7.8	19.5	.90	--	--
06...	1502	5.00	11500	7.8	19.5	--	--	--
APR , 1981								
09...	1023	1.00	32500	--	21.5	.20	7.4	93
09...	1025	5.00	32500	--	21.5	--	7.4	93
NOV								
17...	1358	1.00	20500	8.5	20.0	1.30	9.8	115
17...	1400	6.00	26000	8.2	19.5	--	8.7	103
APR , 1982								
29...	1154	1.00	7260	7.2	22.0	.60	7.4	86
29...	1156	5.00	7260	7.2	22.5	--	7.4	87

294947093543400 LINE 293 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
17...	1054	1.00	19000	8.1	18.5	.60	7.1	85
17...	1055	5.00	19000	8.1	18.5	--	7.2	86
APR , 1979								
17...	0850	1.00	360	7.2	22.5	.70	8.0	94
17...	0854	6.00	360	7.1	22.0	--	7.9	93
NOV								
14...	1109	1.00	10000	7.5	14.5	--	9.3	92
14...	1111	5.00	9500	7.5	14.5	--	9.3	92
APR , 1980								
22...	1005	1.00	320	7.3	21.5	.40	8.3	93
22...	1007	5.00	320	7.2	20.5	--	8.1	89
NOV								
06...	1443	1.00	11500	7.8	19.5	.70	--	--
06...	1445	5.00	11500	7.9	19.5	--	--	--
APR , 1981								
09...	1029	1.00	33000	--	21.5	.30	7.5	94
09...	1031	5.00	33000	--	22.0	--	7.4	94
NOV								
17...	1343	1.00	20000	8.1	20.0	1.50	9.0	106
17...	1345	7.00	22800	8.1	19.5	--	8.4	99
APR , 1982								
29...	1142	1.00	7140	7.1	23.0	.70	7.3	87
29...	1144	5.00	7130	7.1	22.5	--	7.3	86

294735093545900 LINE 300 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT , 1978											
17...	1025	1.00	19700	8.0	18.0	--	7.1	84	2100	2000	150
17...	1026	9.00	19700	8.0	18.0	--	7.1	83	--	--	--
APR , 1979											
17...	0910	1.00	5100	--	22.5	--	6.5	8	420	390	36
17...	0913	5.00	5100	--	22.5	--	6.4	78	--	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

294735093545900 LINE 300 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
NOV , 1979											
14...	1140	1.00	12600	7.6	14.5	--	9.3	93	1400	1300	89
14...	1142	6.00	11000	7.5	14.0	--	9.2	91	--	--	--
14...	1144	12.0	11000	7.5	14.5	--	9.2	92	--	--	--
APR , 1980											
22...	1012	1.00	465	7.5	21.0	.40	8.3	92	49	29	7.8
22...	1015	7.00	460	7.5	21.0	--	8.2	91	--	--	--
22...	1410	1.00	6300	7.5	21.0	.50	7.2	81	--	--	--
22...	1412	6.00	6400	7.5	21.0	--	7.2	81	--	--	--
NOV											
06...	1350	1.00	17000	7.8	18.0	.50	8.6	95	1900	1800	130
06...	1352	7.00	17500	7.8	18.5	--	8.1	91	--	--	--
APR , 1981											
09...	0951	1.00	34400	--	21.0	.20	7.2	90	3900	3900	260
09...	0953	4.00	35400	--	21.0	--	7.2	90	--	--	--
09...	0955	7.50	34500	--	21.0	--	7.0	87	--	--	--
NOV											
17...	1312	1.00	23600	8.4	19.5	1.30	10.3	121	2500	2400	170
17...	1314	9.00	23200	8.3	19.5	--	10.0	118	--	--	--
APR , 1982											
29...	1224	1.00	10800	7.2	22.0	.60	6.6	78	1200	1100	82
29...	1226	7.00	11000	7.2	22.0	--	6.6	78	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978										
17...	410	3700	36	160	75	62	0	900	6600	.40
17...	--	--	--	--	--	--	--	--	--	--
APR , 1979										
17...	80	760	16	29	36	30	0	200	1200	.20
17...	--	--	--	--	--	--	--	--	--	--
NOV										
14...	280	2300	27	100	57	47	0	610	4100	.30
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
22...	7.1	66	4	4.0	24	20	0	28	110	.10
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	380	3100	31	110	--	52	--	670	5900	.30
06...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
09...	800	6200	43	240	--	89	--	1700	12000	.60
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
NOV										
17...	500	4200	37	140	--	73	--	1000	8000	.50
17...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
29...	240	2000	25	68	--	47	--	500	3700	.30
29...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978										
17...	6.0	12000	.070	.020	.090	.010	.82	.83	.92	.100
17...	--	--	--	--	--	--	--	--	--	--
APR , 1979										
17...	6.7	2300	.160	.020	.180	.110	.74	.85	1.0	.060
17...	--	--	--	--	--	--	--	--	--	--
NOV										
14...	4.1	7500	.080	.080	.160	.080	.78	.86	1.0	.050
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
22...	8.0	240	.070	.000	.070	.120	.87	.99	1.1	.060
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

294735093545900 LINE 300 SITE 02--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
NOV , 1980										
06...	3.8	10000	.190	.010	.200	.030	.65	.68	.88	.050
06...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
09...	2.7	21000	.070	.010	.080	.100	.69	.79	.87	.090
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
NOV										
17...	5.1	14000	--	<.030	<.090	<.060	--	.80	--	.070
17...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
29...	6.1	6600	.250	.020	.270	.140	.81	.95	1.2	.060
29...	--	--	--	--	--	--	--	--	--	--

294945093571700 LINE 339 SITE 02

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
OCT , 1978											
17...	1835	1.00	32200	8.0	21.0	--	7.4	97	--	3500	3400
17...	1836	10.0	32200	8.1	21.0	--	7.4	97	--	--	--
17...	1837	20.0	34400	8.1	21.5	--	6.7	88	--	--	--
17...	1838	40.0	34400	8.1	21.5	--	6.4	88	--	--	--
18...	0835	1.00	32300	7.9	20.5	.70	6.6	86	--	3500	3500
18...	0836	10.0	33000	7.9	21.0	--	6.4	84	--	--	--
18...	0837	20.0	34000	7.9	21.0	--	6.5	85	--	--	--
18...	0838	40.0	39300	8.1	20.5	--	7.4	98	--	--	--
APR , 1979											
16...	1830	1.00	3830	--	22.5	--	5.5	66	--	390	360
16...	1833	10.0	10000	--	22.0	--	5.4	65	--	--	--
16...	1836	20.0	14000	--	22.0	--	5.2	65	--	--	--
16...	1838	40.0	34000	--	22.0	--	5.0	67	--	--	--
17...	0728	1.00	2200	--	22.5	--	5.1	61	--	190	170
17...	0731	10.0	2600	--	22.5	--	5.0	60	--	--	--
17...	0733	21.0	5700	--	22.0	--	5.9	65	--	--	--
17...	0735	42.0	24000	--	22.0	--	4.8	61	--	--	--
NOV											
14...	1402	1.00	18700	8.0	16.0	--	9.1	96	1.9	--	--
14...	1406	21.0	26000	8.0	17.0	--	7.7	85	--	--	--
14...	1410	42.0	38000	8.0	18.0	--	6.9	82	.6	--	--
APR , 1980											
22...	1152	1.00	1200	7.0	19.5	.10	7.2	78	1.2	--	--
22...	1154	20.0	5900	7.2	18.5	--	5.9	63	--	--	--
22...	1156	40.0	10800	7.6	18.5	--	4.8	52	1.4	--	--
NOV											
06...	1142	1.00	29000	7.9	19.0	.50	7.4	87	1.1	--	--
06...	1144	10.0	29000	7.9	19.0	--	7.2	85	--	--	--
06...	1146	21.0	31000	8.0	19.0	--	6.8	81	--	--	--
06...	1148	43.0	39000	8.0	19.5	--	6.1	76	1.1	--	--
APR , 1981											
09...	1537	1.00	30000	7.8	21.5	.50	9.1	113	5.0	--	--
09...	1539	10.0	30000	7.8	21.5	--	8.7	108	--	--	--
09...	1541	20.0	32500	7.7	21.0	--	7.6	94	--	--	--
09...	1543	40.0	35500	7.6	21.0	--	8.7	109	2.0	--	--
NOV											
17...	1234	1.00	28100	8.2	19.5	.80	7.8	93	1.6	--	--
17...	1236	10.0	30000	8.2	19.0	--	7.6	91	--	--	--
17...	1238	25.0	35800	8.3	19.0	--	7.4	90	--	--	--
17...	1240	45.0	39700	8.2	19.0	--	6.8	84	1.2	--	--

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

294945093571700 LINE 339 SITE 02--Continued

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT , 1978											
17...	230	710	6200	46	250	130	107	0	1700	11000	.70
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
18...	230	720	6400	47	260	12	10	0	1600	11000	.70
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
APR , 1979											
16...	31	75	620	14	25	32	26	0	170	1100	.10
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
17...	19	35	320	10	7.4	29	24	0	91	540	.10
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
NOV											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
NOV											
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
APR , 1981											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
NOV											
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT , 1978										
17...	5.4	20000	.040	.030	.070	.030	.53	.56	.63	.050
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	.030	.030	.060	.050	.56	.61	.67	.070
18...	7.8	20000	.050	.030	.080	.050	.88	.93	1.0	.050
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	.030	.010	.040	.020	.57	.59	.63	.070
APR , 1979										
16...	7.7	2000	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	.200	.020	.220	.090	.54	.63	.85	.050
17...	8.2	1000	.080	<.010	.080	.090	.89	.98	1.1	.060
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	.110	.020	.130	.120	1.3	1.4	1.5	.120
NOV										
14...	--	--	.050	.020	.070	.050	1.2	1.2	1.3	.050
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	.030	.020	.050	.080	.92	1.0	1.1	.100
APR , 1980										
22...	--	--	.130	.000	.130	.130	1.1	1.2	1.3	.110
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	.120	.010	.130	.200	1.5	1.7	1.8	.120
NOV										
06...	--	--	.120	.010	.130	.090	.58	.67	.80	.070
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	.020	.010	.030	.050	.86	.91	.94	.090

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

294945093571700 LINE 339 SITE 02--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
APR , 1981										
09...	--	--	.020	.010	.030	.050	1.5	1.5	1.5	.090
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	.090	.010	.100	.110	1.1	1.2	1.3	.110
NOV										
17...	--	--	--	<.030	<.090	.100	.64	.74	--	.070
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	<.030	<.090	.080	.56	.64	--	.070

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
APR , 1982									
29...	0932	1.00	3870	6.7	20.5	.20	5.7	64	1.6
29...	0934	10.0	4100	6.7	20.5	--	5.6	63	--
29...	0936	20.0	7200	6.9	20.5	--	5.4	61	--
29...	0938	30.0	12200	7.2	20.5	--	5.8	67	--
29...	0940	42.0	26400	7.8	21.0	--	5.8	71	1.1

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
APR , 1982								
29...	.130	.030	.160	.140	.96	1.1	1.3	.230
29...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
29...	.250	.030	.280	.170	.73	.90	1.2	.100

294252093512000 LINE 377 SITE 02

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT , 1978								
17...	1005	1.00	29000	8.0	20.0	1.00	6.1	77
17...	1006	10.0	30000	8.0	20.0	--	6.0	76
17...	1007	20.0	33000	8.0	21.0	--	5.7	75
17...	1008	40.0	40000	8.1	22.0	--	5.8	80
APR , 1979								
17...	0814	1.00	16000	--	22.5	--	6.6	82
17...	0816	10.0	19000	--	23.0	--	6.3	81
17...	0818	23.0	23000	--	23.0	--	6.2	81
17...	0820	46.0	24000	--	23.0	--	6.0	79
NOV								
14...	1316	1.00	20000	8.0	15.5	--	8.7	92
14...	1320	23.0	31000	8.1	17.5	--	7.6	87
14...	1324	46.0	35000	8.1	18.0	--	7.4	87
APR , 1980								
22...	1232	1.00	5100	7.7	21.5	.30	8.3	94
22...	1234	15.0	23000	8.0	16.5	--	6.2	68
22...	1236	30.0	46000	8.0	16.5	--	3.5	42
22...	1238	45.0	45000	7.9	16.5	--	3.4	41
NOV								
06...	1210	1.00	24500	8.0	18.5	.80	8.0	92
06...	1212	12.5	25200	8.0	18.5	--	7.7	89
06...	1214	25.0	32500	8.0	19.0	--	7.5	90
06...	1216	50.0	38000	8.1	19.5	--	7.4	92

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

294252093512000 LINE 377 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1981								
09...	1401	1.00	37000	7.9	21.5	.30	7.9	99
09...	1403	11.0	14500	7.9	21.0	--	8.4	96
09...	1405	23.5	37000	7.9	21.0	--	7.6	95
09...	1407	47.0	37000	7.8	21.0	--	7.4	92
NOV								
17...	1319	1.00	28300	8.3	19.0	.80	8.2	97
17...	1321	10.0	30500	8.3	19.0	--	7.8	93
17...	1323	25.0	33200	8.3	19.0	--	7.5	91
17...	1325	50.0	34800	8.3	19.0	--	7.9	96
APR , 1982								
29...	1020	1.00	11800	7.6	22.0	.30	6.9	82
29...	1022	10.0	12400	7.7	22.0	--	7.0	83
29...	1024	20.0	24900	8.1	21.5	--	7.9	97
29...	1026	30.0	33600	8.2	21.5	--	8.3	106
29...	1028	40.0	33900	8.2	21.5	--	8.3	106
29...	1030	50.0	34400	8.2	21.5	--	8.4	108

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
17...	.040	.040	.080	.050	.53	.58	.66	.050
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
17...	.030	.010	.040	.030	.54	.57	.61	.060
APR , 1979								
17...	.080	.020	.100	.060	.71	.77	.87	.060
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
17...	.420	.040	.460	.090	1.4	1.5	2.0	.080
NOV								
14...	.030	.020	.050	.080	1.0	1.1	1.2	.050
14...	--	--	--	--	--	--	--	--
14...	.020	.020	.040	.070	.82	.89	.93	.040
APR , 1980								
22...	.080	.000	.080	.100	.83	.93	1.0	.060
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
22...	.030	.000	.030	.170	.76	.93	.96	.080
NOV								
06...	.150	.010	.160	.030	.57	.60	.76	.060
06...	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--
06...	.010	.010	.020	.030	.64	.67	.69	.070
APR , 1981								
09...	.200	.010	.210	.060	.84	.90	1.1	.100
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
09...	.200	.010	.210	.080	1.0	1.1	1.3	.110
NOV								
17...	--	<.030	<.090	.040	.61	.65	--	.060
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
17...	--	<.030	<.090	.130	.48	.61	--	.070
APR , 1982								
29...	.270	.030	.300	.090	1.0	1.1	1.4	.180
29...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
29...	.260	.030	.290	.130	1.2	1.3	1.6	.070

Table 1.--Quality of water in the Sabine-Neches estuary, water years 1979-83--Continued

293702093492000 LINE 905 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV , 1979								
14...	1244	1.00	41500	8.0	18.0	--	7.8	94
14...	1250	22.0	43000	8.0	18.0	--	7.8	95
14...	1254	45.0	42500	8.0	18.0	--	7.1	86
APR , 1980								
22...	1322	1.00	32000	8.3	23.5	1.80	8.3	108
22...	1324	10.0	43000	8.2	19.0	--	6.9	86
22...	1326	20.0	48000	8.1	16.0	--	4.8	58
22...	1328	30.0	48000	8.1	15.5	--	4.9	59
22...	1330	38.0	48000	8.1	16.0	--	4.6	56
NOV								
06...	1240	1.00	38500	8.2	19.5	.90	8.3	103
06...	1242	11.5	41000	8.2	19.5	--	8.6	108
06...	1244	23.0	44000	8.1	20.0	--	7.2	92
06...	1246	46.0	45600	8.0	20.0	--	6.4	83
APR , 1981								
09...	1442	1.00	37000	7.8	21.5	.60	8.7	111
09...	1444	10.0	37500	7.8	21.0	--	8.5	108
09...	1446	21.0	38000	7.8	20.5	--	7.8	98
09...	1448	42.0	44000	7.8	20.0	--	7.5	96
APR , 1982								
29...	1118	1.00	31300	8.3	22.5	.80	9.0	116
29...	1120	10.0	35400	8.3	21.5	--	8.7	112
29...	1122	20.0	36400	8.2	21.5	--	7.9	102
29...	1124	30.0	38200	8.1	21.5	--	6.6	86
29...	1126	46.0	42200	8.0	21.0	--	4.9	64

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV , 1979								
14...	.000	.020	.020	.060	.53	.59	.61	.040
14...	--	--	--	--	--	--	--	--
14...	.000	.020	.020	.070	1.0	1.1	1.1	.040
APR , 1980								
22...	.030	.000	.030	.080	1.0	1.1	1.1	.030
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
22...	.010	.000	.010	.150	.42	.57	.58	.030
NOV								
06...	.000	.000	.000	.020	.69	.71	.71	.090
06...	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--
06...	.000	.000	.000	.050	.69	.74	.74	.060
APR , 1981								
09...	.170	.010	.180	.070	2.1	2.2	2.4	.060
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
09...	.020	.000	.020	.080	.79	.87	.89	.090
APR , 1982								
29...	.230	.020	.250	.090	.73	.82	1.1	.060
29...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--
29...	.120	.020	.140	.160	.65	.81	.95	.110

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83

294255095011300 LINE 180 SITE 20

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT , 1978											
10...	1617	1.00	24000	8.0	25.0	--	6.2	84	--	2500	2400
10...	1618	10.0	27000	8.0	25.0	--	5.9	81	--	--	--
10...	1619	21.0	27000	8.0	25.0	--	5.9	81	--	--	--
10...	1620	42.0	28900	8.1	25.0	--	5.6	78	--	--	--
MAY , 1979											
22...	1340	1.00	3330	7.5	26.0	--	5.7	73	--	330	260
22...	1344	20.0	3500	7.6	26.0	--	5.7	73	--	--	--
22...	1348	45.0	3600	7.6	26.0	--	6.1	78	--	--	--
OCT											
30...	1100	1.00	19000	8.2	23.5	--	7.1	89	--	--	--
30...	1105	25.0	20000	8.1	23.5	--	6.9	87	--	--	--
30...	1110	50.0	23000	8.0	23.0	--	6.4	81	--	--	--
NOV											
08...	1112	1.00	16100	7.8	19.0	--	8.7	101	4.3	1600	1500
08...	1116	23.0	--	7.9	19.0	--	--	--	--	--	--
08...	1120	46.0	--	7.9	19.0	--	--	--	3.4	--	--
APR , 1980											
24...	1035	1.00	20400	7.8	22.5	.50	7.1	87	4.0	2300	2200
24...	1038	25.0	21000	7.8	22.0	--	6.7	82	--	--	--
24...	1040	48.0	23000	7.5	22.0	--	6.3	78	6.1	--	--
NOV											
05...	1229	1.00	25500	7.1	19.0	.40	8.7	101	3.7	3000	2900
05...	1231	10.0	26000	7.0	18.5	--	8.5	98	--	--	--
05...	1233	25.0	28500	7.2	18.5	--	8.4	98	--	--	--
05...	1235	45.0	31000	7.2	18.5	--	8.0	94	3.6	--	--
APR , 1981											
14...	1315	1.00	28600	7.5	25.0	--	5.7	75	3.4	3400	3300
14...	1317	22.0	30000	7.5	24.5	--	5.1	67	--	--	--
14...	1319	45.0	35000	7.5	24.5	--	5.3	71	1.7	--	--
APR , 1982											
27...	1007	1.00	3700	7.5	20.5	.20	7.3	81	3.1	420	350
27...	1009	10.0	6500	7.5	20.0	--	6.8	76	--	--	--
27...	1011	20.0	11800	7.7	20.0	--	6.7	76	--	--	--
27...	1013	30.0	15100	7.8	20.0	--	7.0	81	--	--	--
27...	1015	42.0	18700	7.8	19.5	--	7.0	81	4.3	--	--

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978											
10...	200	480	5400	48	200	150	123	0	1200	9500	1.0
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
MAY , 1979											
22...	43	55	660	16	22	88	72	0	140	1100	.50
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
OCT											
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
NOV											
08...	130	310	3200	35	140	110	90	0	800	5500	.90
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
24...	170	460	3800	35	210	120	98	0	820	7000	.80
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
NOV											
05...	220	590	5400	43	200	--	113	--	1400	9500	.60
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
APR , 1981											
14...	270	670	5500	41	190	--	140	--	1500	10000	.80
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
27...	46	73	650	14	26	--	66	--	170	1100	.40
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

294255095011300 LINE 180 SITE 20--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT , 1978										
10...	6.1	17000	.170	.760	.930	.230	.76	.99	1.9	1.00
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	.120	.270	.390	.150	.40	.55	.94	.630
MAY , 1979										
22...	4.3	2100	.570	.060	.630	.250	.85	1.1	1.7	.600
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	.580	.040	.620	.260	1.0	1.3	1.9	.640
OCT										
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
NOV										
08...	3.6	10000	.080	.280	.360	.580	1.4	2.0	2.4	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	.030	.160	.190	.170	1.1	1.3	1.5	.630
APR , 1980										
24...	4.9	13000	.280	.090	.370	.510	1.2	1.7	2.1	.940
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	.220	.060	.280	.430	1.3	1.7	2.0	.830
NOV										
05...	4.0	17000	.210	.140	.350	.460	.94	1.4	1.8	.670
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	.110	.060	.170	.210	1.1	1.3	1.5	.590
APR , 1981										
14...	5.7	18000	.200	.140	.340	2.30	.60	2.9	3.2	.940
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	.090	.060	.150	.800	1.0	1.8	2.0	.420
APR , 1982										
27...	5.8	2100	.240	.100	.340	.670	1.2	1.9	2.2	.550
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	.200	.080	.280	.310	1.4	1.7	2.0	.500

294143094432200 LINE 230 SITE 30

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT , 1978								
10...	1634	1.00	24000	8.7	22.5	.50	7.5	97
10...	1635	6.00	24000	8.6	22.5	--	6.8	88
MAY , 1979								
22...	1100	1.00	880	8.0	25.5	--	7.6	95
22...	1105	7.00	920	7.9	24.5	--	7.5	93
NOV								
06...	1212	1.00	10500	8.3	19.0	--	9.7	105
06...	1215	7.00	10500	8.2	19.0	--	9.4	102
APR , 1980								
24...	1152	1.00	1700	8.2	23.0	.20	7.7	89
24...	1154	7.00	1700	8.2	23.0	--	7.6	88
NOV								
05...	1028	1.00	24000	8.3	17.5	1.10	11.0	123
05...	1030	8.00	28000	8.3	17.5	--	11.7	133
APR , 1981								
14...	1254	1.00	30500	7.4	24.5	.70	7.9	103
14...	1256	3.00	30000	7.3	24.5	--	7.8	102
14...	1258	7.00	30000	7.0	24.0	--	6.5	84
NOV								
18...	1123	1.00	4590	8.2	20.5	.80	7.6	85
18...	1124	4.00	6890	8.3	20.5	--	7.4	84
18...	1125	8.00	10400	7.7	20.0	--	4.5	51
APR , 1982								
27...	1214	1.00	1920	7.6	21.0	.40	7.7	86
27...	1216	5.00	14500	7.1	18.5	--	4.1	46

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

294143094432200 LINE 230 SITE 30--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
10...	.000	.010	.010	.030	.57	.60	.61	.370
10...	.000	.010	.010	.060	.61	.67	.68	.410
MAY , 1979								
22...	.510	.020	.530	.080	.69	.77	1.3	.290
22...	.490	.020	.510	.050	.85	.90	1.4	.310
NOV								
06...	-.010	.010	.000	.030	.01	.04	.04	.310
06...	-.010	.010	.000	.040	1.1	1.1	1.1	.340
APR , 1980								
24...	.050	.000	.050	.030	3.2	3.2	3.3	.230
24...	.010	.000	.010	.010	1.3	1.3	1.3	.220
NOV								
05...	.000	.000	.000	.010	.75	.76	.76	.440
05...	.000	.000	.000	.000	1.1	1.1	1.1	.480
APR , 1981								
14...	.000	.000	.000	.100	.66	.76	.76	.180
14...	--	--	--	--	--	--	--	--
14...	-.010	.010	.000	.090	.87	.96	.96	.230
NOV								
18...	.130	.030	.160	.160	.54	.70	.86	.060
18...	--	--	--	--	--	--	--	--
18...	--	<.030	.100	.210	.49	.70	.80	.230
APR , 1982								
27...	.110	.030	.140	.120	.68	.80	.94	.130
27...	.150	.030	.180	.130	.78	.91	1.1	.230

294239094450700 LINE 230 SITE 50

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)
OCT , 1978											
10...	1650	1.00	24500	8.7	22.5	.60	7.5	97	--	--	--
10...	1652	7.00	25000	8.7	21.5	--	7.2	92	--	--	--
MAY , 1979											
22...	1120	1.00	740	7.9	24.5	--	7.5	91	--	--	--
22...	1124	7.00	790	7.9	24.5	--	7.5	91	--	--	--
NOV											
06...	1223	1.00	11000	8.3	19.0	--	9.4	103	--	--	--
06...	1225	7.00	11000	8.3	19.0	--	9.1	99	--	--	--
APR , 1980											
24...	1130	1.00	510	8.1	23.0	.20	8.5	98	--	--	--
24...	1132	7.00	500	8.1	23.0	--	7.9	91	--	--	--
NOV											
05...	1344	1.00	23000	8.1	19.0	1.20	10.2	117	3	200	10
05...	1345	4.00	24000	8.4	18.0	--	12.8	145	--	--	--
05...	1346	7.00	28500	8.0	18.0	--	11.8	136	--	--	--
APR , 1981											
14...	1308	1.00	30500	7.1	25.5	.90	7.5	100	2	200	--
14...	1310	6.50	31000	6.9	25.5	--	7.1	95	--	--	--
NOV											
18...	1148	1.00	1010	7.9	20.5	.80	5.8	64	4	<100	--
18...	1150	8.00	10700	7.5	20.0	--	1.9	22	--	--	--
APR , 1982											
27...	1156	1.00	2710	7.6	20.0	.40	7.7	85	1	200	--
27...	1158	6.00	14100	7.1	18.5	--	3.7	41	--	--	--

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT , 1978										
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
MAY , 1979										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

294239094450700 LINE 230 SITE 50--Continued

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
NOV , 1979										
06...	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
NOV										
05...	10	30	30	80	0	100	.1	0	0	30
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
14...	25	30	68	140	0	70	.1	0	0	30
14...	--	--	--	--	--	--	--	--	--	--
NOV										
18...	1	<10	2	40	<1	20	.1	<1	<1	50
18...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
27...	<1	10	2	10	<1	10	<.1	<1	<1	10
27...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	SAM-PLING DEPTH (FEET)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL (UG/L)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
NOV , 1981												
18...	1148	1.00	.0	--	.00	--	.000	--	.0	--	.000	--
18...	1150	8.00	--	.00	--	.0	--	.0	--	.00	--	.0

DATE	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL (UG/L)
NOV , 1981											
18...	.000	--	.000	--	.03	.000	--	.000	.000	--	.00
18...	--	.1	--	.0	--	--	.0	--	--	.0	--

DATE	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)
NOV , 1981											
18...	.000	--	.000	--	.000	--	.00	.00	--	.00	.00
18...	--	.0	--	.0	--	.0	--	--	.0	--	--

DATE	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV , 1981											
18...	.00	--	.00	.0	.0	--	.00	.06	.00	.03	.00
18...	--	.0	--	--	--	.00	--	--	--	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

294346094470800 LINE 230 SITE 70

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
02...	1659	--	--	--	--	--	--	--
10...	1658	1.00	25000	8.6	22.5	.60	8.4	110
10...	1659	3.00	25000	--	.0	--	8.6	112
10...	1700	6.00	25000	8.5	21.5	--	7.0	89
MAY , 1979								
22...	1130	1.00	350	7.8	24.5	--	7.7	94
22...	1133	6.00	360	7.8	24.5	--	7.7	94
NOV								
06...	1235	1.00	8600	8.3	19.0	--	10.2	110
06...	1237	6.00	8750	8.3	19.0	--	9.2	100
APR , 1980								
24...	1115	1.00	2200	8.2	23.0	.20	7.2	84
24...	1117	6.00	3500	8.2	23.0	--	7.4	87
NOV								
05...	1053	1.00	24500	7.8	18.5	.90	9.9	113
05...	1055	6.50	28000	7.9	18.0	--	10.3	118
APR , 1981								
14...	1323	1.00	30000	7.6	25.0	.60	7.2	95
14...	1325	6.50	31000	7.2	25.5	--	7.3	98
NOV								
18...	1223	1.00	406	7.8	20.5	.60	6.6	73
18...	1225	7.00	413	7.8	20.5	--	6.6	73
APR , 1982								
27...	1144	1.00	3740	7.9	21.0	.50	8.5	96
27...	1146	5.00	8070	7.4	20.0	--	6.6	74

294457094491600 LINE 230 SITE 90

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
10...	1720	1.00	23000	8.1	24.5	.60	8.4	111
10...	1721	5.00	26000	7.8	24.0	--	6.3	85
MAY , 1979								
22...	1145	1.00	2700	8.1	25.0	--	7.5	94
22...	1150	5.00	3400	7.9	24.5	--	7.2	89
NOV								
06...	1247	1.00	7650	8.0	19.5	--	8.9	97
06...	1250	4.00	7600	8.0	19.5	--	9.2	100
APR , 1980								
24...	0951	1.00	11000	8.4	23.0	.20	6.1	73
24...	0953	4.00	11000	8.3	23.0	--	6.6	79
NOV								
05...	1106	1.00	25000	7.6	19.5	.80	8.1	95
05...	1108	4.50	25000	7.6	19.5	--	8.1	95
APR , 1981								
14...	1052	1.00	32500	7.8	24.5	.30	8.9	117
14...	1055	3.00	33500	7.6	24.5	--	8.6	114
NOV								
18...	1229	1.00	6500	8.1	23.0	.50	7.9	94
18...	1231	5.00	14000	8.0	23.5	--	7.8	96
APR , 1982								
27...	1132	1.00	9030	7.7	23.0	.80	8.2	98
27...	1134	3.00	10500	7.8	23.0	--	8.3	99

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

294457094491600 LINE 230 SITE 90--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
10...	.180	.080	.260	.190	.72	.91	1.2	.510
10...	.340	.160	.500	.390	.61	1.0	1.5	.750
MAY , 1979								
22...	.390	.020	.410	.080	.75	.83	1.2	.380
22...	.340	.060	.400	.180	.70	.88	1.3	.450
NOV								
06...	.130	.020	.150	.120	.98	1.1	1.3	.220
06...	.130	.020	.150	.130	1.1	1.2	1.4	.240
APR , 1980								
24...	.050	.000	.050	.010	1.4	1.4	1.5	.420
24...	.010	.000	.010	.010	1.3	1.3	1.3	.370
NOV								
05...	.450	.110	.560	.280	.92	1.2	1.8	.620
05...	.280	.110	.390	.360	.84	1.2	1.6	.620
APR , 1981								
14...	.160	.060	.220	.510	.99	1.5	1.7	.400
14...	.180	.070	.250	.710	.89	1.6	1.9	.430
NOV								
18...	.090	.040	.130	.150	.68	.83	.96	.310
18...	.180	.070	.250	.190	.72	.91	1.2	.440
APR , 1982								
27...	.600	.110	.710	.270	1.1	1.4	2.1	.390
27...	.700	.130	.830	.310	1.2	1.5	2.3	.460

294004094470900 LINE 240 SITE 60

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
10...	1855	1.00	26000	8.6	22.5	--	8.0	105
10...	1857	7.00	26000	8.6	22.5	--	8.0	104
11...	0810	1.00	29000	8.5	22.0	.70	7.9	103
11...	0811	7.00	29000	8.5	22.0	--	7.7	101

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
10...	.000	.010	.010	.030	.72	.75	.76	.420
10...	.000	.010	.010	.040	1.2	1.2	1.2	.420
11...	.000	.010	.010	.040	.89	.93	.94	.460
11...	.000	.010	.010	.060	.94	1.0	1.0	.480

293348094482800 LINE 260 SITE 20

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	0954	1.00	28000	8.4	22.0	.60	7.7	101
11...	0955	6.00	28000	8.3	21.5	--	7.4	95
MAY , 1979								
22...	1330	1.00	1100	8.3	25.0	--	8.0	99
22...	1335	6.00	1100	8.2	25.0	--	7.8	96

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

293348094482800 LINE 260 SITE 20--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV , 1979								
06...	1403	1.00	14600	8.7	19.5	--	9.8	110
06...	1407	7.00	14500	8.7	19.5	--	9.4	105
APR , 1980								
24...	0902	1.00	7000	8.2	22.0	.60	8.0	93
24...	0905	6.00	11200	8.1	22.0	--	7.1	84
NOV								
05...	1318	1.00	27200	8.2	19.0	1.00	12.3	144
05...	1320	6.50	28200	8.1	18.0	--	12.4	143
APR , 1981								
14...	0908	1.00	34000	8.0	23.5	.40	7.0	91
14...	0910	4.50	34000	7.8	23.5	--	6.5	85
NOV								
18...	1448	1.00	14600	8.5	20.5	.60	8.7	101
18...	1450	7.00	16300	8.5	19.5	--	8.2	94
APR , 1982								
27...	0953	1.00	14300	8.4	20.0	.40	9.7	111
27...	0955	5.00	14300	8.4	19.5	--	9.7	110

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
11...	.010	.010	.020	.060	.76	.82	.84	.370
11...	.010	.010	.020	.060	.77	.83	.85	.400
MAY , 1979								
22...	.390	.020	.410	.080	.71	.79	1.2	.290
22...	.170	.020	.190	.020	1.1	1.1	1.3	.330
NOV								
06...	-.010	.010	.000	.030	1.1	1.1	1.1	.380
06...	.000	.000	.000	.020	1.3	1.3	1.3	.410
APR , 1980								
24...	.000	.000	.000	.000	.93	.93	.93	.220
24...	.000	.000	.000	.010	1.1	1.1	1.1	.250
NOV								
05...	.000	.000	.000	.080	1.0	1.1	1.1	.440
05...	.000	.000	.000	.000	.90	.90	.90	.470
APR , 1981								
14...	.000	.000	.000	.100	.81	.91	.91	.190
14...	.000	.000	.000	.100	1.4	1.5	1.5	.210
NOV								
18...	--	<.030	<.090	<.060	--	.82	--	.270
18...	--	<.030	<.090	.070	1.1	1.2	--	.300
APR , 1982								
27...	--	<.020	<.100	<.060	--	.80	--	.220
27...	--	.020	<.100	<.060	--	1.6	--	.280

293519094500800 LINE 260 SITE 40

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	0942	1.00	30000	8.3	22.0	.70	7.6	99
11...	0943	7.00	29000	8.3	22.0	--	7.3	96
MAY , 1979								
21...	1800	1.00	480	8.0	25.5	--	7.9	99
21...	1805	9.00	480	8.0	25.5	--	8.0	100
NOV								
06...	1344	1.00	17500	8.7	19.5	--	9.7	110
06...	1347	9.00	17500	8.6	19.5	--	9.7	110
APR , 1980								
24...	0912	1.00	8800	7.9	22.0	.60	8.3	97
24...	0915	7.00	11500	7.7	22.0	--	7.4	87

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

293519094500800 LINE 260 SITE 40--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV , 1980								
05...	1302	1.00	27000	8.2	18.5	1.20	12.1	140
05...	1304	9.00	32000	8.1	18.5	--	11.0	130
APR , 1981								
14...	0933	1.00	35000	7.4	24.0	.30	6.5	86
14...	0935	7.00	35000	7.7	24.0	--	6.4	84
NOV								
18...	1428	1.00	13300	8.7	21.0	.80	9.7	114
18...	1430	9.00	18200	8.4	20.0	--	7.8	91
APR , 1982								
27...	1008	1.00	15500	8.4	20.0	.40	10.3	119
27...	1010	7.00	14900	8.4	19.5	--	9.9	112

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
MAY , 1979								
21...	.570	.020	.590	.090	.89	.98	1.6	.240
21...	.260	.020	.280	.030	.84	.87	1.2	.230
NOV								
06...	.000	.000	.000	.010	1.8	1.8	1.8	.370
06...	.000	.000	.000	.040	1.7	1.7	1.7	.540
APR , 1980								
24...	.000	.000	.000	.010	1.1	1.1	1.1	.280
24...	.000	.000	.000	.110	1.3	1.4	1.4	.350
NOV								
05...	.000	.000	.000	.000	.92	.92	.92	.440
05...	.040	.020	.060	.020	.80	.82	.88	.390
APR , 1981								
14...	.000	.000	.000	.070	.79	.86	.86	.180
14...	-.010	.010	.000	.060	.94	1.0	1.0	.190
NOV								
18...	--	<.030	<.090	.080	.81	.89	--	.270
18...	--	<.030	<.090	.100	.81	.91	--	.290
APR , 1982								
27...	--	<.020	<.100	<.060	--	.96	--	.300
27...	--	<.020	<.100	<.060	--	2.2	--	.450

293650094514800 LINE 260 SITE 60

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
OCT , 1978									
11...	0930	1.00	29600	8.4	22.0	.60	7.8	102	--
11...	0931	9.00	29600	8.3	22.0	--	7.5	98	--
MAY , 1979									
22...	1255	1.00	1200	8.1	25.0	--	7.8	96	--
22...	1300	9.00	1200	8.1	24.5	--	7.4	91	--
NOV									
06...	1332	1.00	18400	8.7	19.5	--	10.4	118	2.1
06...	1336	10.0	19000	8.6	19.5	--	10.1	115	3.2
APR , 1980									
24...	0927	1.00	15000	8.3	22.0	.60	8.5	102	4.7
24...	0930	9.00	15100	8.1	22.0	--	8.2	98	3.7
NOV									
05...	1248	1.00	28200	7.5	18.5	.80	11.3	131	3.2
05...	1250	9.00	31800	8.2	18.5	--	10.5	124	3.0
APR , 1981									
14...	0942	1.00	36000	8.0	24.5	.40	7.2	96	2.6
14...	0945	8.50	37000	7.7	24.0	--	6.7	89	5.0
NOV									
18...	1408	1.00	9320	8.7	21.0	.70	9.4	109	4.5
18...	1410	10.0	19300	8.1	20.0	--	4.9	58	2.3
APR , 1982									
27...	1026	1.00	14400	8.3	20.0	.60	10.0	115	3.9
27...	1028	8.00	16500	8.0	19.5	--	7.7	88	2.7

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

293650094514800 LINE 260 SITE 60--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
11...	--	--	--	--	--	--	--	--
11...	.010	.010	.020	.050	.70	.75	.77	.360
MAY , 1979								
22...	.450	.020	.470	.050	.80	.85	1.3	.350
22...	.380	.020	.400	.020	1.1	1.1	1.5	.410
NOV								
06...	.000	.020	.020	.060	1.0	1.1	1.1	.430
06...	.020	.050	.070	.040	1.6	1.6	1.7	.470
APR , 1980								
24...	.000	.000	.000	.010	1.3	1.3	1.3	.270
24...	.000	.000	.000	.010	1.3	1.3	1.3	.300
NOV								
05...	.000	.000	.000	.000	.81	.81	.81	.450
05...	.000	.000	.000	.040	1.1	1.1	1.1	.460
APR , 1981								
14...	.000	.000	.000	.090	.61	.70	.70	.150
14...	-.010	.010	.000	.090	.91	1.0	1.0	.200
NOV								
18...	--	<.030	<.090	.100	.65	.75	--	.240
18...	--	<.030	<.090	.140	.57	.71	--	.330
APR , 1982								
27...	.060	.100	.160	<.060	--	1.0	1.2	.370
27...	.190	.090	.280	.100	1.2	1.3	1.6	.400

293821094532900 LINE 260 SITE 80

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	0900	1.00	29500	8.4	22.0	.60	7.7	101
11...	0901	9.00	30000	8.3	22.5	--	7.6	100
MAY , 1979								
22...	1225	1.00	2100	8.1	25.0	--	7.5	93
22...	1230	7.00	2500	8.1	25.0	--	7.3	91
NOV								
06...	1318	1.00	20500	8.6	19.5	--	8.6	98
06...	1321	8.00	20500	8.6	19.5	--	9.0	103
APR , 1980								
24...	0957	1.00	16500	8.2	22.5	.50	8.3	101
24...	1000	8.00	20500	8.3	22.5	--	6.9	85
NOV								
05...	1147	1.00	28800	8.5	19.5	.60	12.8	152
05...	1149	8.00	29000	8.4	18.0	--	11.0	127
APR , 1981								
14...	1000	1.00	37000	7.9	25.0	.50	7.2	98
14...	1002	8.00	36000	7.8	24.5	--	7.2	96
NOV								
18...	1333	1.00	2280	9.0	21.0	.40	11.5	130
18...	1335	6.00	2310	8.9	21.0	--	11.0	124
APR , 1982								
27...	1044	1.00	13300	8.2	20.0	.80	9.5	108
27...	1046	8.00	14400	7.9	19.5	--	7.9	90

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
11...	.000	.010	.010	.030	.58	.61	.62	.340
11...	.000	.010	.010	.100	.90	1.0	1.0	.550
MAY , 1979								
22...	.400	.020	.420	.040	.90	.94	1.4	.410
22...	.280	.020	.300	.030	.79	.82	1.1	.390
NOV								
06...	.000	.000	.000	.060	1.0	1.1	1.1	.410
06...	.030	.050	.080	.050	1.2	1.2	1.3	.810
APR , 1980								
24...	.000	.000	.000	.010	1.2	1.2	1.2	.400
24...	.000	.000	.000	.030	1.9	1.9	1.9	.630

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water yesrs 1979-83--Continued

293821094532900 LINE 260 SITE 80--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV , 1980								
05...	.000	.000	.000	.010	1.1	1.1	1.1	.540
05...	.000	.000	.000	.010	.99	1.0	1.0	.500
APR , 1981								
14...	.000	.000	.000	.080	.79	.87	.87	.150
14...	-.010	.010	.000	.080	1.6	1.7	1.7	.160
NOV								
18...	--	<.030	<.090	<.060	--	.90	--	.240
18...	--	<.030	<.090	<.060	--	1.1	--	.230
APR , 1982								
27...	.210	.090	.300	.070	1.3	1.4	1.7	.340
27...	.150	.130	.280	.170	.83	1.0	1.3	.450

293829094560900 LINE 320 SITE 20

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
10...	1736	1.00	29000	8.7	23.0	--	--	--
10...	1737	9.00	29000	8.6	24.0	--	--	--
MAY , 1979								
22...	1308	1.00	2700	8.1	25.5	--	7.5	94
22...	1311	8.00	2800	8.1	25.0	--	7.3	91
NOV								
06...	1310	1.00	19000	8.6	20.0	--	10.4	119
06...	1312	7.00	19000	8.5	19.5	--	10.0	114
APR , 1980								
24...	1008	1.00	20000	8.3	22.5	.50	8.5	104
24...	1010	7.00	20500	8.3	22.5	--	8.2	101
NOV								
05...	1158	1.00	28000	8.5	19.5	.40	12.7	150
05...	1200	7.00	28800	8.4	19.0	--	10.4	122
APR , 1981								
14...	1016	1.00	36500	8.0	24.5	.40	8.1	109
14...	1018	3.50	37000	8.0	24.5	--	8.0	107
14...	1020	7.00	37000	7.9	24.5	--	7.3	98
APR , 1982								
27...	1054	1.00	10000	7.9	20.5	.60	8.1	92
27...	1056	6.00	16100	7.6	19.5	--	5.8	66

293722094573200 LINE 320 SITE 35

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979							
22...	1415	1.00	5600	8.0	25.0	7.2	90
22...	1418	8.00	5600	8.0	25.0	7.1	89

293707094574800 LINE 320 SITE 40

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)
OCT , 1978											
10...	1714	1.00	29500	8.6	25.0	--	--	--	--	--	--
10...	1715	9.00	24000	8.4	24.0	--	--	--	--	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

293707094574800 LINE 320 SITE 40--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	BERYLLIUM, DISSOLVED (UG/L AS BE)
OCT . 1979											
30...	1024	1.00	22000	8.2	23.5	--	7.4	94	--	--	--
30...	1027	6.00	22000	8.1	23.5	--	7.4	94	--	--	--
30...	1030	11.0	22000	8.2	23.5	--	7.3	93	--	--	--
NOV											
08...	1032	1.00	--	8.2	18.5	--	--	--	3	300	--
08...	1035	9.00	--	8.2	18.5	--	--	--	--	--	--
APR . 1980											
24...	1108	1.00	23000	8.3	22.5	.60	9.2	114	--	--	--
24...	1110	9.00	24000	8.1	22.5	--	7.2	90	--	--	--
NOV											
05...	1136	1.00	30000	8.0	19.5	.80	8.7	104	3	200	10
05...	1138	8.50	32000	8.1	18.5	--	8.9	105	--	--	--
APR . 1981											
14...	1240	1.00	36000	7.7	25.0	--	6.8	92	3	200	--
14...	1242	9.00	36500	7.7	24.5	--	5.9	79	--	--	--
APR . 1982											
27...	1058	1.00	14000	7.8	20.0	.40	7.5	86	2	<100	--
27...	1100	9.00	16800	7.7	20.0	--	6.4	74	--	--	--

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT , 1978										
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
OCT , 1979										
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
NOV										
08...	3	10	1	100	13	20	.2	0	0	0
08...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
NOV										
05...	20	40	50	100	0	20	.1	0	0	30
05...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
14...	42	30	68	170	100	40	.2	0	0	70
14...	--	--	--	--	--	--	--	--	--	--
APR . 1982										
27...	<1	20	4	50	<1	<10	.1	<1	<1	20
27...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	SAMPLING DEPTH (FEET)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)
NOV , 1979											
08...	1032	1.00	.0	18	.000	.0	.1	4.0	.000	.0	.000

DATE	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)
NOV , 1979										
08...	.0	.000	.0	.12	.000	.0	.000	.000	.0	.00

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

293707094574800 LINE 320 SITE 40--Continued

DATE	HEPTA-CHLOR. TOTAL (UG/L)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA-THION, TOTAL (UG/L)
NOV , 1979										
08...	.000	.1	.010	.0	.020	.0	.03	.00	.0	.00

DATE	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
NOV , 1979										
08...	.00	.00	.00	.0	.0	.00	.00	.08	.01	.00

293253095010400 LINE 330 SITE 20

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT , 1978								
10...	1524	1.00	17500	8.5	25.0	--	8.0	106
10...	1525	12.0	29000	8.4	25.0	--	7.5	104
MAY , 1979								
21...	1548	1.00	6600	8.5	26.5	--	8.6	110
21...	1550	17.0	6600	8.5	26.5	--	9.0	115
OCT								
30...	0932	1.00	20000	8.0	23.5	--	7.2	91
30...	0936	11.0	20000	8.0	23.5	--	7.1	90
30...	0940	23.0	6000	8.0	23.5	--	7.4	89
NOV								
08...	0842	1.00	--	8.1	18.0	--	--	--
08...	0847	12.0	--	8.1	18.0	--	--	--
08...	0850	24.0	--	8.1	18.0	--	--	--
APR , 1980								
24...	1130	1.00	20000	8.2	23.0	.60	7.3	91
24...	1132	10.0	20000	8.2	22.5	--	7.6	93
24...	1135	22.0	21000	8.2	22.5	--	7.6	94
NOV								
05...	1047	1.00	27500	7.4	19.5	.40	8.7	102
05...	1049	12.0	27500	7.4	19.5	--	8.8	104
05...	1051	24.0	28500	7.4	19.0	--	8.7	102
APR , 1981								
14...	1143	1.00	39000	8.1	25.5	.40	7.8	108
14...	1145	10.0	39000	8.1	25.0	--	7.5	103
14...	1147	21.0	39000	8.1	25.0	--	7.5	103
NOV								
19...	1231	1.00	17800	8.4	21.5	.40	7.8	94
19...	1233	10.0	17900	8.4	21.5	--	7.9	95
19...	1235	22.0	18200	8.2	21.0	--	8.2	98
APR , 1982								
27...	1126	1.00	12200	8.0	21.0	.40	8.2	95
27...	1128	11.5	11900	8.0	21.0	--	8.4	98
27...	1130	23.0	13400	8.0	21.0	--	8.4	98

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT , 1978								
10...	.010	.010	.020	.090	.67	.76	.78	.420
10...	--	--	--	--	--	--	--	--
MAY , 1979								
21...	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--
OCT								
30...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

293253095010400 LINE 330 SITE 20--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV , 1979								
08...	.000	.010	.010	.060	1.0	1.1	1.1	.330
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
APR , 1980								
24...	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--
NOV								
05...	.000	.000	.000	.020	1.1	1.1	1.1	.570
05...	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--
APR , 1981								
14...	.000	.000	.000	.090	1.1	1.2	1.2	.280
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
NOV								
19...	--	<.030	<.090	.070	.87	.94	--	.380
19...	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--
APR , 1982								
27...	.180	.070	.250	.120	1.4	1.5	1.8	.350
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--

293549094535000 LINE 340 SITE 20

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
10...	1808	1.00	30500	8.5	23.0	--	--	--
10...	1809	10.0	29500	8.5	24.0	--	--	--
MAY , 1979								
21...	1248	1.00	7400	8.1	25.5	--	7.6	96
21...	1250	8.00	7600	8.0	25.0	--	7.9	90
22...	1240	1.00	3600	8.1	25.0	--	7.6	95
22...	1244	7.00	3700	8.1	25.0	--	7.4	93
NOV								
08...	1015	1.00	--	8.3	18.5	--	--	--
08...	1018	7.00	--	8.3	18.5	--	--	--
APR , 1980								
24...	0943	1.00	21000	8.3	22.0	.70	8.4	101
24...	0946	9.00	25200	8.2	22.5	--	7.4	93
NOV								
05...	0931	1.00	28500	7.4	18.0	--	11.3	130
05...	0933	5.00	28000	7.8	17.5	--	11.2	127
05...	0935	10.0	31500	7.4	18.0	--	9.4	109
APR , 1981								
14...	1055	1.00	40000	8.1	24.5	.50	7.6	103
14...	1057	10.0	40000	8.1	24.0	--	7.2	97
NOV								
19...	1123	1.00	11600	8.7	20.5	.70	8.9	102
19...	1125	10.0	21200	8.5	20.0	--	7.4	87
APR , 1982								
27...	1248	1.00	15700	8.4	21.0	.30	11.2	132
27...	1250	10.0	16900	8.1	20.0	--	8.0	93

293428094553800 LINE 340 SITE 40

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG G)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT , 1978											
10...	1827	1.00	31400	8.4	24.0	--	--	--	--	3400	3300
10...	1828	20.0	32500	8.4	24.0	--	--	--	--	--	--
10...	1829	41.0	34900	8.4	24.0	--	--	--	--	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

293428094553800 LINE 340 SITE 40--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
MAY , 1979											
22...	1234	1.00	8200	8.1	25.0	--	7.4	94	--	840	770
22...	1237	20.0	14000	8.0	25.5	--	6.3	81	--	--	--
22...	1240	45.0	26000	7.9	25.5	--	5.5	75	--	--	--
OCT											
30...	1216	1.00	24000	8.1	23.0	--	7.0	89	--	--	--
30...	1220	22.0	25000	8.1	23.0	--	6.5	83	--	--	--
30...	1224	45.0	31000	8.0	23.0	--	6.2	81	--	--	--
NOV											
08...	1000	1.00	24900	8.1	18.5	--	9.0	106	2.4	2900	2800
08...	1004	23.0	--	8.1	18.5	--	--	--	--	--	--
08...	1008	46.0	25000	8.1	18.5	--	8.0	95	1.7	--	--
NOV , 1980											
05...	0954	1.00	29000	7.5	18.0	.90	11.3	130	3.5	3600	3500
05...	0956	10.0	30500	7.1	18.0	--	10.2	118	--	--	--
05...	0958	25.0	35000	7.1	18.5	--	9.3	111	--	--	--
05...	1000	43.0	36500	7.4	18.5	--	8.7	104	3.7	--	--
APR , 1981											
14...	1034	1.00	37800	7.9	24.0	.40	6.6	88	2.1	4500	4400
14...	1036	20.0	39000	7.9	24.0	--	6.0	81	--	--	--
14...	1038	41.0	39500	7.9	24.0	--	6.0	81	2.1	--	--
NOV											
19...	1054	1.00	15300	8.6	20.5	.60	8.3	97	5.1	1500	1400
19...	1056	10.0	23300	8.4	20.0	--	7.1	85	--	--	--
19...	1058	25.0	32800	8.3	20.0	--	6.7	83	--	--	--
19...	1100	44.0	37300	8.2	20.0	--	6.7	84	1.2	--	--
APR , 1982											
27...	1222	1.00	19900	8.3	21.0	.30	9.6	114	3.1	2300	2200
27...	1224	10.0	20400	8.3	20.5	--	9.0	107	--	--	--
27...	1226	20.0	22600	8.2	20.5	--	8.5	102	--	--	--
27...	1228	30.0	24200	8.2	20.5	--	8.0	96	--	--	--
27...	1230	40.0	25700	8.1	20.5	--	7.4	90	2.9	--	--

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978											
10...	230	690	6200	47	240	140	115	0	1300	10000	.90
10...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
MAY , 1979											
22...	74	160	1400	21	56	94	77	0	360	2500	.50
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
OCT											
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
NOV											
08...	160	600	4700	38	150	120	98	0	1200	8800	.60
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
NOV , 1980											
05...	250	720	5900	43	240	--	106	--	1500	11000	.60
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
APR , 1981											
14...	300	910	7600	50	280	--	100	--	2000	14000	.70
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
NOV											
19...	120	300	2500	28	92	--	99	--	28	4800	.50
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
27...	170	450	3800	35	130	--	99	--	1000	7000	.50
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

293428094553800 LINE 340 SITE 40--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT , 1978										
10...	7.6	19000	.000	.010	.010	.030	.39	.42	.43	.340
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	.010	.010	.020	.080	1.2	1.3	1.3	.450
MAY , 1979										
22...	12	4600	.460	.020	.480	.070	.63	.70	1.2	.430
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	.290	.040	.330	.180	.45	.63	.96	.190
OCT										
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
NOV										
08...	3.0	16000	.010	.000	.010	.040	1.1	1.1	1.1	.340
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	.010	.010	.020	.050	2.1	2.1	2.1	.190
NOV , 1980										
05...	2.6	20000	.000	.000	.000	.000	.62	.62	.62	.420
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	.000	.000	.000	.010	.71	.72	.72	.270
APR , 1981										
14...	1.7	25000	.060	.040	.100	.410	.59	1.0	1.1	.270
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	.040	.030	.070	.240	.86	1.1	1.2	.250
NOV										
19...	5.5	7900	--	<.030	<.090	<.060	--	1.2	--	.280
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	<.030	<.090	.080	.67	.75	--	.140
APR , 1982										
27...	2.5	13000	--	.050	<.100	<.060	--	1.0	--	.310
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	.220	.040	.260	.080	1.0	1.1	1.4	.400

293301094573200 LINE 340 SITE 60

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT , 1978								
10...	1855	1.00	32000	8.5	24.0	--	--	--
10...	1856	9.00	32000	8.5	25.0	--	--	--
11...	0818	1.00	32000	8.1	24.0	--	--	--
11...	0819	10.0	32000	8.2	24.0	--	--	--
MAY , 1979								
21...	1805	1.00	7900	8.1	25.5	--	8.0	103
21...	1808	7.00	8000	8.2	25.5	--	7.9	101
NOV								
08...	0902	1.00	--	7.9	19.0	--	--	--
08...	0904	9.00	--	8.1	19.0	--	--	--
NOV , 1980								
05...	1013	1.00	30500	7.4	18.5	.80	11.8	138
05...	1015	5.00	30000	7.4	18.0	--	11.6	134
05...	1017	10.0	30000	7.4	18.0	--	10.3	119
APR , 1981								
14...	1112	1.00	40000	8.1	24.0	.50	7.3	98
14...	1114	10.0	40000	8.0	24.0	--	6.3	85
NOV								
19...	1158	1.00	21400	8.5	20.5	.70	8.2	98
19...	1200	10.0	22600	8.4	20.5	--	7.5	90
APR , 1982								
27...	1158	1.00	17700	8.3	20.5	.30	9.7	114
27...	1200	10.0	17700	8.2	20.5	--	8.9	104

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

293301094573200 LINE 340 SITE 60--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
10...	.000	.010	.010	.010	.37	.38	.39	.240
10...	.000	.010	.010	.010	.62	.63	.64	.250
11...	.000	.010	.010	.040	.31	.35	.36	.250
11...	.000	.010	.010	.050	.39	.44	.45	.280
MAY , 1979								
21...	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--
NOV								
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
NOV , 1980								
05...	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--
APR , 1981								
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
NOV								
19...	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--
APR , 1982								
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--

293133094592900 LINE 340 SITE 80

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
10...	1847	1.00	33500	8.5	25.0	--	--	--
10...	1848	7.00	31500	9.0	24.0	--	--	--
OCT , 1979								
30...	0950	1.00	20000	8.0	23.5	--	7.2	91
30...	0954	5.00	20000	8.0	23.5	--	7.2	91
30...	0956	10.0	20000	8.0	23.5	--	7.1	90
APR , 1980								
24...	1150	1.00	22500	8.3	22.5	.70	9.1	113
24...	1155	9.00	23000	8.3	22.5	--	7.8	97
NOV								
05...	1033	1.00	29500	7.5	19.5	.80	10.0	119
05...	1037	5.00	29500	7.4	19.0	--	10.3	121
05...	1039	9.00	30000	7.5	19.5	--	9.8	117
APR , 1981								
14...	1125	1.00	39000	8.2	24.5	.50	9.3	126
14...	1127	7.00	39000	8.2	24.5	--	8.7	118
NOV								
19...	1208	1.00	20600	8.5	20.5	.50	8.3	99
19...	1210	9.00	20600	8.5	20.5	--	8.4	100
APR , 1982								
27...	1148	1.00	14800	8.3	21.5	.30	10.0	118
27...	1150	9.00	15500	8.3	21.5	--	9.6	114

293133094501400 LINE 350 SITE 30

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	0748	1.00	27000	8.4	21.5	.50	7.9	102
11...	0749	7.00	27000	8.4	21.5	--	8.0	103
MAY , 1979								
23...	0950	1.00	5000	8.1	24.5	--	7.2	90
23...	0955	11.0	6500	8.1	24.0	--	6.9	85

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

293133094501400 LINE 350 SITE 30--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1979								
30...	1241	1.00	27000	8.1	23.5	--	7.3	95
30...	1244	6.00	27000	8.1	23.5	--	7.2	94
30...	1246	12.0	27000	8.1	23.5	--	7.2	94
NOV								
08...	0936	1.00	--	8.1	18.0	--	--	--
08...	0938	5.00	--	8.1	18.0	--	--	--
08...	0941	11.0	--	8.1	18.0	--	--	--
APR , 1980								
23...	1207	1.00	15500	8.4	21.5	.40	10.4	123
23...	1209	10.0	19000	8.2	21.5	--	8.8	105
NOV								
05...	1338	1.00	--	7.3	18.5	.90	11.9	138
05...	1340	10.0	--	7.2	18.5	--	11.1	131
APR , 1981								
14...	0956	1.00	39000	8.0	24.0	.50	7.2	97
14...	0958	10.0	40000	8.0	23.5	--	6.7	90
APR , 1982								
27...	0936	1.00	17700	8.1	19.5	.50	9.2	106
27...	0938	10.0	17400	8.1	19.5	--	9.2	105

293030094523500 LINE 350 SITE 50

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)
OCT , 1978										
11...	1015	1.00	34000	8.3	22.5	.70	7.7	104	.000	.010
11...	1016	10.0	39000	8.2	23.0	--	6.5	90	--	--
11...	1017	20.0	40000	8.3	23.0	--	6.5	90	--	--
11...	1018	42.0	40000	8.2	23.0	--	6.7	94	.020	.010
MAY , 1979										
22...	1207	1.00	8300	8.1	25.0	--	7.3	93	.430	.020
22...	1211	20.0	16000	8.0	25.0	--	6.2	81	--	--
22...	1215	42.0	24000	7.9	25.5	--	6.0	81	.310	--
OCT										
30...	1305	1.00	29000	8.1	23.5	--	7.0	92	--	--
30...	1310	20.0	30000	8.1	23.0	--	7.0	91	--	--
30...	1315	40.0	31000	8.1	23.0	--	6.8	89	--	--
NOV										
08...	0921	1.00	--	8.1	18.0	--	--	--	.010	.000
08...	0925	21.0	--	8.1	18.5	--	--	--	--	--
08...	0929	42.0	--	8.1	19.0	--	--	--	.010	.000
APR , 1980										
23...	1232	1.00	24000	8.4	21.5	.40	9.7	118	.000	.000
23...	1234	15.0	28000	8.3	21.0	--	9.0	111	--	--
23...	1236	30.0	40000	8.1	21.0	--	7.8	100	--	--
23...	1237	43.0	43000	8.0	21.0	--	7.1	93	.000	.000
NOV										
05...	0900	1.00	31500	7.1	17.5	1.10	11.2	129	.000	.000
05...	0902	10.0	33000	7.0	18.0	--	10.1	118	--	--
05...	0904	25.0	37000	7.1	18.5	--	8.7	104	--	--
05...	0907	45.0	38500	7.3	18.5	--	8.4	101	.000	.000
APR , 1981										
14...	0939	1.00	38500	7.8	23.5	.50	6.7	89	.060	.040
14...	0941	20.0	39500	7.8	23.5	--	6.4	85	--	--
14...	0943	43.0	40000	7.9	23.5	--	6.4	86	.020	.020
NOV										
19...	1009	1.00	24000	8.4	20.5	--	7.3	88	--	<.030
19...	1011	10.0	27200	8.4	20.5	--	7.0	85	--	--
19...	1013	25.0	38900	8.3	20.5	--	6.8	87	--	--
19...	1015	44.0	40900	8.3	20.5	--	6.6	85	--	<.030
APR , 1982										
27...	1302	1.00	20900	8.3	21.0	.30	9.6	115	--	<.020
27...	1304	10.0	23000	8.2	20.5	--	8.8	105	--	--
27...	1306	20.0	26600	8.2	20.5	--	8.3	101	--	--
27...	1308	30.0	33200	8.1	20.5	--	7.1	89	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

293030094523500 LINE 350 SITE 50--Continued

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
OCT , 1978									
11...	.010	.030	.66	.69	.70	.210	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	.030	.020	.58	.60	.63	.120	--	--	--
MAY , 1979									
22...	.450	.100	.02	.12	.57	.200	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	.33	--	.84	--	--	--	--
OCT									
30...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
NOV									
08...	.010	.000	.71	.71	.72	.180	--	--	--
08...	--	--	--	--	--	--	--	--	--
08...	.010	.010	1.1	1.1	1.1	.110	--	--	--
APR , 1980									
23...	.000	.090	2.4	2.5	2.5	.310	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	.000	.040	.59	.63	.63	.130	--	--	--
NOV									
05...	.000	.000	.67	.67	.67	.400	--	--	--
05...	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--
05...	.000	.030	.37	.40	.40	.240	--	--	--
APR , 1981									
14...	.100	.400	.70	1.1	1.2	.260	2	200	34
14...	--	--	--	--	--	--	--	--	--
14...	.040	.210	.72	.93	.97	.230	--	--	--
NOV									
19...	<.090	<.060	--	.79	--	.250	3	100	1
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	<.090	.100	.51	.61	--	.090	--	--	--
APR , 1982									
27...	<.100	<.060	--	1.4	--	.280	2	100	<1
27...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT , 1978									
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
MAY , 1979									
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
OCT									
30...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--
NOV									
08...	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--
APR , 1980									
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
NOV									
05...	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--
APR , 1981									
14...	30	68	170	0	40	4.0	0	0	70
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

293030094523500 LINE 350 SITE 50--Continued

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
NOV , 1981									
19...	20	3	110	<1	30	<.1	<1	1	60
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--
APR , 1982									
27...	20	2	40	<1	<10	<.1	<1	<1	20
27...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1982												
27...	1310	40.0	33600	8.1	20.5	7.0	87	.020	<.100	<.060	2.8	.130

292653094503200 LINE 370 SITE 50

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	1252	1.00	38000	8.3	23.5	--	7.4	103
11...	1253	10.0	41000	8.2	23.5	--	6.9	98
11...	1254	20.0	42000	8.2	23.5	--	6.9	98
11...	1255	40.0	42000	8.2	23.5	--	6.8	97
MAY , 1979								
23...	0925	1.00	13000	8.1	24.5	--	6.7	85
23...	0927	20.0	20000	8.0	24.5	--	6.1	80
23...	0930	45.0	23000	8.0	25.0	--	5.8	78
OCT								
30...	1357	1.00	35000	8.2	23.5	--	7.1	95
30...	1400	22.0	36000	8.1	23.5	--	7.1	95
30...	1402	43.0	36000	8.2	23.5	--	7.0	94
NOV								
07...	1702	1.00	22000	8.2	18.0	--	9.2	104
07...	1704	21.0	27500	8.2	18.5	--	8.3	97
07...	1706	42.0	33000	8.1	18.5	--	8.1	96
APR , 1980								
23...	1257	1.00	30000	8.3	21.0	.40	8.6	106
23...	1259	15.0	36500	8.1	21.0	--	7.4	94
23...	1313	30.0	42000	8.1	21.5	--	7.3	96
23...	1316	43.0	43000	8.1	21.5	--	6.3	83
NOV								
05...	0826	1.00	35000	7.1	18.0	1.50	9.4	●111
05...	0828	10.0	35000	7.2	18.5	--	9.4	112
05...	0329	20.0	37500	7.3	18.5	--	8.7	105
05...	0830	40.0	40000	7.7	18.5	--	8.4	102
APR , 1981								
14...	0905	1.00	39000	7.9	23.5	.30	6.6	88
14...	0907	20.0	40000	7.9	23.5	--	6.6	88
14...	0909	43.0	40000	7.9	23.5	--	6.6	88
NOV								
19...	0934	1.00	25700	8.4	20.5	.70	7.7	93
19...	0936	10.0	36000	8.3	20.5	--	7.1	90
19...	0938	25.0	41200	8.3	20.5	--	6.8	88
19...	0940	43.0	44200	8.3	20.5	--	6.7	88
APR , 1982								
27...	1337	1.00	23300	8.3	22.0	.40	10.0	123
27...	1339	10.0	31500	8.2	21.0	--	7.9	99
27...	1341	20.0	37500	8.1	21.0	--	7.0	90
27...	1343	30.0	37900	8.1	21.0	--	6.9	89

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1982							
27...	1345	40.D	38000	8.1	21.0	6.9	89

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

292427094463700 LINE 380 SITE 20

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	1322	1.00	41000	8.3	24.0	.90	5.7	82
11...	1323	13.0	41000	8.3	24.0	--	5.7	81
MAY , 1979								
23...	0825	1.00	10000	8.1	24.0	--	7.0	88
23...	0827	10.0	20000	7.9	24.0	--	5.9	77
OCT								
30...	1443	1.00	37000	8.2	23.5	--	7.3	98
30...	1445	6.00	37000	8.2	23.5	--	7.3	98
30...	1448	13.0	37000	8.2	23.5	--	7.2	97
NOV								
07...	1620	1.00	21000	8.1	17.5	--	8.8	98
07...	1622	6.00	22000	8.1	17.5	--	8.7	97
07...	1624	11.0	22000	8.1	17.5	--	8.6	96
APR , 1980								
23...	1402	1.00	41000	8.2	21.0	.40	7.5	97
23...	1404	5.00	41000	8.2	21.5	--	7.2	94
23...	1406	11.0	42000	8.2	21.5	--	7.2	94
NOV								
04...	1300	1.00	35500	8.3	19.0	.70	9.7	117
04...	1302	12.0	37500	8.3	18.5	--	8.7	105
APR , 1981								
14...	0758	1.00	40500	8.1	23.0	.40	6.7	89
14...	0800	7.00	41000	8.1	22.5	--	6.7	88
14...	0802	14.0	41000	8.1	22.5	--	6.7	88
NOV								
19...	0818	1.00	40200	8.3	20.5	.70	7.2	93
19...	0820	8.00	42000	8.3	22.0	--	6.7	89
APR , 1982								
27...	1436	1.00	36800	8.2	22.0	.40	8.0	104
27...	1438	6.00	38000	8.2	21.5	--	7.3	95
27...	1440	12.0	38700	8.2	21.5	--	6.9	90

292401094490700 LINE 380 SITE 40

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT , 1978											
11...	1312	1.00	41000	8.3	23.5	.90	7.2	102	--	--	--
11...	1313	10.0	42000	8.2	23.5	--	6.8	97	--	--	--
11...	1314	20.0	43000	8.3	23.5	--	6.6	95	--	--	--
11...	1315	40.0	43000	8.2	23.5	--	6.6	95	--	--	--
MAY , 1979											
23...	0845	1.00	19000	8.0	24.5	--	6.8	84	--	--	--
23...	0847	20.0	23000	8.0	24.5	--	6.0	79	--	--	--
23...	0850	45.0	26000	8.0	25.0	--	5.6	77	--	--	--
OCT											
30...	1422	1.00	37000	8.2	23.5	--	7.3	98	--	--	--
30...	1426	22.0	37000	8.2	23.5	--	7.3	98	--	--	--
30...	1430	45.0	37000	8.2	23.5	--	7.2	97	--	--	--
NOV											
07...	1629	1.00	24000	8.2	18.0	--	9.1	103	--	--	--
07...	1633	21.0	27000	8.2	18.0	--	8.6	99	--	--	--
07...	1637	42.0	34000	8.1	18.0	--	7.8	92	--	--	--
APR , 1980											
23...	1347	1.00	41000	8.2	21.5	.80	7.7	101	4800	4700	310
23...	1349	15.0	40000	8.2	21.0	--	7.2	93	--	--	--
23...	1351	30.0	43000	8.1	21.0	--	7.1	93	--	--	--
23...	1353	42.0	43000	8.1	21.0	--	6.8	89	--	--	--
NOV											
04...	1247	1.00	35000	8.3	18.5	1.30	9.7	116	--	--	--
04...	1248	10.0	35000	8.0	18.5	--	10.1	121	--	--	--
04...	1249	25.0	39000	8.2	18.5	--	9.2	112	--	--	--
04...	1250	45.0	40500	8.1	18.5	--	8.8	107	--	--	--
APR , 1981											
14...	0822	1.00	40000	7.7	23.0	.40	6.5	86	--	--	--
14...	0824	20.0	40000	7.7	23.0	--	6.5	86	--	--	--
14...	0826	43.0	40000	7.9	23.0	--	6.5	86	--	--	--
NOV											
19...	0854	1.00	38500	8.4	20.5	.80	7.2	92	--	--	--
19...	0856	10.0	40500	8.3	20.5	--	6.7	86	--	--	--
19...	0858	25.0	42800	8.3	20.5	--	6.5	85	--	--	--
19...	0900	45.0	44000	8.3	20.5	--	6.9	90	--	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

292401094490700 LINE 380 SITE 40--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
APR , 1982											
27...	1417	1.00	34100	8.1	22.0	.40	8.1	104	--	--	--
27...	1419	10.0	37900	8.1	21.5	--	7.1	92	--	--	--
27...	1421	20.0	38300	8.1	21.0	--	7.0	90	--	--	--
27...	1423	30.0	38400	8.1	21.0	--	6.9	89	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978										
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
MAY , 1979										
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
OCT										
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
NOV										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
23...	970	8200	52	340	130	110	0	2100	15000	.70
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
NOV										
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
NOV										
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978										
11...	--	--	.000	.010	.010	.010	.10	.11	.12	.060
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	.020	.010	.030	.040	.05	.09	.12	.050
MAY , 1979										
23...	--	--	.390	.040	.430	.170	.29	.46	.89	.180
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	.270	.060	.330	.190	.23	.42	.75	.130
OCT										
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
NOV										
07...	--	--	.000	.000	.000	.010	.81	.82	.82	.230
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	-.010	.020	.010	.020	.80	.82	.83	.180

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

292401094490700 LINE 380 SITE 40--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
APR , 1980										
23...	2.8	27000	.000	.000	.000	.010	.71	.72	.72	.080
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	.000	.000	.000	.040	.96	1.0	1.0	.110
NOV										
04...	--	--	.000	.000	.000	.010	.42	.43	.43	.320
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	.000	.000	.000	.030	.36	.39	.39	.230
APR , 1981										
14...	--	--	.020	.030	.050	.270	.57	.84	.89	.230
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	.020	.040	.060	.290	.91	1.2	1.3	.290
NOV										
19...	--	--	--	<.030	<.090	<.060	--	.59	--	.090
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	<.030	<.090	.100	.49	.59	--	.070
APR , 1982										
27...	--	--	.080	.020	.100	<.060	--	.70	.80	.070
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
APR , 1982							
27...	1425	45.0	38300	8.1	21.0	6.9	89

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
APR , 1982							
27...	.160	.020	.180	<.060	.67	.85	.080

292327094513300 LINE 380 SITE 60

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT , 1978								
11...	1300	1.00	37000	8.3	23.5	.80	7.4	103
11...	1301	8.00	39000	8.2	23.0	--	6.8	94
MAY , 1979								
23...	0900	1.00	16000	7.9	24.5	--	6.4	83
23...	0905	9.00	18000	7.9	24.5	--	6.2	80
NOV								
07...	1645	1.00	23500	8.2	17.5	--	8.9	100
07...	1647	9.00	23500	8.2	17.5	--	8.7	98
APR , 1980								
23...	1323	1.00	34500	8.3	22.0	.40	7.5	95
23...	1325	6.00	34500	8.2	22.0	--	7.8	100
NOV								
04...	1209	1.00	35500	8.3	19.5	1.30	10.3	126
04...	1211	6.50	36000	8.3	19.0	--	10.1	122
APR , 1981								
14...	0838	1.00	41500	8.0	23.5	.50	7.5	101
14...	0840	7.00	42000	8.0	23.5	--	7.5	101
NOV								
19...	0923	1.00	33000	8.4	21.0	.70	7.1	90
19...	0925	7.00	37600	8.3	20.5	--	7.0	89

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

292327094513300 LINE 380 SITE 60--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1982								
27...	1408	1.00	35100	8.1	22.0	.50	7.8	101
27...	1410	9.00	36200	8.1	21.5	--	7.2	93

293243094345200 LINE 430 SITE 20

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT , 1978											
12...	0845	1.00	26900	8.3	22.5	.60	7.7	100	--	2900	2800
12...	0846	5.00	26800	8.3	22.5	--	7.8	101	--	--	--
MAY , 1979											
23...	1130	1.00	6700	8.2	24.5	--	7.6	95	--	620	560
23...	1135	4.00	6800	8.1	24.5	--	7.7	96	--	--	--
OCT											
31...	1005	1.00	18000	7.9	22.5	--	8.1	99	--	--	--
31...	1010	5.00	18000	7.9	22.0	--	8.2	99	--	--	--
NOV											
07...	0930	1.00	17700	7.4	17.5	--	11.5	125	--	2000	2000
07...	0935	5.00	17700	7.6	17.5	--	11.8	128	--	--	--
APR , 1980											
23...	0950	1.00	9400	8.0	22.5	.20	7.0	82	2.4	880	830
23...	0952	5.00	9850	8.0	22.5	--	7.0	82	2.4	--	--
NOV											
04...	0910	1.00	21400	8.4	18.0	.60	10.4	116	2.6	2400	2300
04...	0912	5.00	22000	8.3	17.5	--	10.2	113	2.3	--	--
APR , 1981											
15...	0903	1.00	38300	8.0	24.0	.30	6.8	91	2.1	4600	4500
15...	0905	5.00	38000	8.0	24.0	--	6.8	91	2.5	--	--
NOV											
18...	1426	1.00	23400	8.3	21.5	.80	8.4	103	3.0	2600	2500
18...	1428	5.00	23500	8.2	21.5	--	8.1	100	4.7	--	--
APR , 1982											
26...	1528	1.00	15700	8.4	22.0	.60	10.9	131	3.3	1800	1700
26...	1530	5.00	16000	8.1	21.0	--	8.9	105	2.5	--	--

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978											
12...	200	590	4800	39	200	130	107	0	1300	8700	.60
12...	--	--	--	--	--	--	--	--	--	--	--
MAY , 1979											
23...	51	120	1200	21	43	72	59	0	290	2000	.30
23...	--	--	--	--	--	--	--	--	--	--	--
OCT											
31...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
NOV											
07...	140	410	3600	35	150	90	74	0	890	6300	.50
07...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
23...	72	170	1600	24	72	59	48	0	390	2800	.30
23...	--	--	--	--	--	--	--	--	--	--	--
NOV											
04...	180	470	3900	35	150	--	81	--	670	7100	.50
04...	--	--	--	--	--	--	--	--	--	--	--
APR , 1981											
15...	310	930	7600	49	270	--	96	--	2300	14000	.70
15...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	180	530	4300	37	150	--	100	--	1000	8400	.50
18...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
26...	130	350	3000	31	100	--	80	--	720	5500	.40
26...	--	--	--	--	--	--	--	--	--	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

293243094345200 LINE 430 SITE 20--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT , 1978										
12...	9.2	16000	.000	.010	.010	.010	1.4	1.4	1.4	.090
12...	--	--	.000	.010	<.100	.030	.64	.67	.67	.100
MAY , 1979										
23...	3.0	3700	.000	.020	.020	.090	1.1	1.2	1.2	.120
23...	--	--	-.010	.020	.010	.100	1.1	1.2	1.2	.120
OCT										
31...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
NOV										
07...	3.2	12000	.000	.010	.010	.070	1.0	1.1	1.1	.050
07...	--	--	-.010	.010	.000	.030	.96	.99	.99	.060
APR , 1980										
23...	1.9	5100	.000	.000	.000	.010	1.2	1.2	1.2	.100
23...	--	--	.000	.000	.000	.010	1.3	1.3	1.3	.110
NOV										
04...	5.6	13000	.000	.000	.000	.010	.96	.97	.97	.200
04...	--	--	.000	.000	.000	.000	.86	.86	.86	.220
APR , 1981										
15...	.7	25000	.000	.000	.000	.110	.78	.89	.89	.090
15...	--	--	-.010	.010	.000	.080	1.1	1.2	1.2	.110
NOV										
18...	4.7	15000	--	<.030	<.090	.090	.91	1.0	--	.080
18...	--	--	--	<.030	<.090	.100	--	<.21	--	.090
APR , 1982										
26...	3.7	9900	.230	.040	.270	<.060	--	1.3	1.6	.090
26...	--	--	.260	.040	.300	<.060	--	1.1	1.4	.100

292841094402900 LINE 450 SITE 10

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT , 1978								
12...	0755	1.00	29000	8.3	22.0	.70	7.2	95
12...	0756	4.00	30000	8.2	22.0	--	7.3	96
MAY , 1979								
23...	1045	1.00	6700	8.3	24.0	--	7.8	96
23...	1047	3.00	6600	8.2	24.0	--	7.8	96
OCT								
31...	1105	1.00	24000	8.1	22.5	--	7.6	95
31...	1107	7.00	24000	8.1	22.5	--	7.6	95
NOV								
07...	1023	1.00	21600	7.8	17.5	--	10.6	117
07...	1025	5.00	21600	7.6	17.5	--	10.5	116
APR , 1980								
23...	1055	1.00	16000	7.9	22.5	.60	7.1	86
23...	1057	4.00	16000	7.9	22.5	--	7.3	88
NOV								
04...	1013	1.00	25000	8.3	18.0	.90	10.1	114
04...	1015	4.50	25500	8.3	18.0	--	10.1	115
APR , 1981								
15...	0954	1.00	41000	8.1	24.5	.30	6.6	90
15...	0956	4.00	41000	8.1	24.5	--	6.6	90
NOV								
18...	1405	1.00	26000	8.2	22.5	.90	7.9	100
18...	1407	4.00	26000	8.2	22.5	--	8.0	101
APR , 1982								
26...	1500	1.00	20200	8.6	22.5	.80	11.7	145
26...	1502	4.00	20200	8.6	21.0	--	11.6	139

292950094404100 LINE 450 SITE 20

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT , 1978								
11...	1850	1.00	28000	8.4	22.5	--	7.9	104
11...	1851	7.00	29000	8.4	22.5	--	7.9	104
12...	0805	1.00	29000	8.3	22.5	.70	7.6	100
12...	0806	8.00	30000	8.3	22.5	--	7.6	101

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

292950094404100 LINE 450 SITE 20

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
23...	1050	1.00	5500	8.2	24.5	--	7.4	93
23...	1055	6.00	5600	8.2	24.0	--	7.3	90
OCT								
31...	1057	1.00	23000	8.1	22.5	--	7.6	94
31...	1100	8.00	23000	8.1	22.5	--	7.6	94
NOV								
07...	1015	1.00	20000	7.9	17.5	--	10.7	118
07...	1018	7.00	19800	7.7	17.5	--	10.6	116
APR , 1980								
23...	1046	1.00	15000	8.0	22.5	.50	7.9	95
23...	1048	6.00	15000	8.0	22.5	--	7.9	95
NOV								
04...	1005	1.00	25500	8.3	18.0	1.00	9.8	111
04...	1007	5.50	30500	8.2	17.5	--	8.3	95
APR , 1981								
15...	0944	1.00	43500	8.1	24.0	.20	6.8	93
15...	0946	7.00	43500	8.1	24.0	--	6.8	93
NOV								
18...	1350	1.00	23500	8.3	21.0	.90	8.2	100
18...	1352	9.00	23500	8.3	21.0	--	8.1	99
APR , 1982								
26...	1454	1.00	18000	8.5	22.5	.90	10.9	134
26...	1456	6.50	20400	8.5	20.5	--	10.5	125

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
11...	.000	.010	.010	.030	.93	.96	.97	.310
11...	.010	.010	.020	.050	.70	.75	.77	.310
12...	.000	.010	.010	.040	1.4	1.4	1.4	.240
12...	.000	.010	.010	.050	.76	.81	.82	.240
MAY , 1979								
23...	.020	.020	.040	.100	1.2	1.3	1.3	.170
23...	.020	.020	.040	.150	.95	1.1	1.1	.580
OCT								
31...	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--
NOV								
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
APR , 1980								
23...	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--
NOV								
04...	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--
APR , 1981								
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
NOV								
18...	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--
APR , 1982								
26...	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--

293058094405400 LINE 450 SITE 30

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
12...	0818	1.00	28000	8.4	22.5	.60	7.7	101
12...	0819	7.00	28000	8.4	22.5	--	7.6	100

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

293058094405400 LINE 450 SITE 30--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
23...	1100	1.00	6800	8.1	24.5	--	7.1	89
23...	1105	6.00	6800	8.1	24.0	--	7.3	91
OCT								
31...	1050	1.00	19800	8.1	22.5	--	7.7	94
31...	1053	7.00	20000	8.1	22.5	--	7.7	94
NOV								
07...	1008	1.00	20800	8.0	17.5	--	10.9	120
07...	1010	7.00	20500	7.6	17.5	--	10.9	120
APR , 1980								
23...	1037	1.00	13000	8.1	22.5	.30	7.8	93
23...	1039	6.00	13000	8.1	22.5	--	7.0	83
NOV								
04...	0953	1.00	25000	8.4	18.5	.90	10.3	118
04...	0956	6.50	27000	8.1	17.5	--	10.2	115
APR , 1981								
15...	0935	1.00	41500	8.1	24.0	.20	6.9	93
15...	0937	6.00	41500	8.1	24.0	--	6.9	93
NOV								
18...	1340	1.00	22500	8.4	21.0	.60	8.2	100
18...	1342	8.00	23000	8.4	21.5	--	8.0	98
APR , 1982								
26...	1442	1.00	17700	8.5	22.0	.80	10.9	132
26...	1444	7.00	19300	8.4	20.5	--	9.3	110

293206094410600 LINE 450 SITE 40

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
12...	0822	1.00	28000	8.3	23.0	.70	7.5	100
12...	0823	5.00	28000	8.3	23.0	--	7.4	99
MAY , 1979								
23...	1110	1.00	3400	8.1	24.0	--	7.4	90
23...	1115	4.00	3500	8.2	24.0	--	7.4	90
OCT								
31...	1040	1.00	20300	8.1	23.0	--	7.7	95
31...	1045	5.00	20300	8.1	23.0	--	7.7	95
NOV								
07...	0958	1.00	19100	7.9	17.5	--	11.1	122
07...	1000	5.00	19100	7.9	17.5	--	10.9	119
APR , 1980								
23...	1024	1.00	13000	8.1	22.5	.10	6.7	80
23...	1026	3.00	13000	8.1	22.5	--	6.7	80
NOV								
04...	0943	1.00	25000	7.4	18.5	.70	9.2	105
04...	0945	3.00	26500	7.4	18.5	--	10.2	117
APR , 1981								
15...	0926	1.00	37000	8.0	24.5	.30	6.8	91
15...	0928	5.00	36500	8.0	24.5	--	6.8	91
NOV								
18...	1327	1.00	21500	8.4	22.0	.90	8.2	101
18...	1329	4.00	21500	8.3	22.0	--	8.2	101
APR , 1982								
26...	1428	1.00	16400	8.4	22.5	.70	11.0	134
26...	1430	4.00	16800	8.4	21.5	--	10.1	121

292720094451300 LINE 470 SITE 30

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	1230	1.00	34000	8.3	23.0	.80	7.7	105
11...	1231	8.00	36000	8.2	22.5	--	7.2	98
MAY , 1979								
23...	1025	1.00	4000	8.1	24.0	--	7.6	93
23...	1030	7.00	4000	8.0	24.0	--	7.5	91

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

292720094451300 LINE 470 SITE 30--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV , 1979								
06...	1448	1.00	22000	8.3	19.5	--	9.2	106
06...	1452	7.00	21500	8.3	19.5	--	9.2	106
APR , 1980								
23...	1119	1.00	19500	8.3	22.0	.50	8.1	98
23...	1121	8.00	20000	8.3	22.0	--	7.9	88
NOV								
04...	1045	1.00	30500	8.3	18.0	.70	9.8	114
04...	1047	7.00	35000	8.3	18.0	--	9.2	109
APR , 1981								
15...	1041	1.00	42000	8.2	24.0	.30	7.3	99
15...	1043	7.00	42000	8.2	24.0	--	7.2	97
NOV								
18...	1240	1.00	--	8.2	21.0	.90	--	--
18...	1242	11.0	35500	8.1	20.5	--	7.0	89
APR , 1982								
26...	1342	1.00	22500	8.4	23.0	.60	10.2	128
26...	1345	7.00	23000	8.2	21.5	--	7.9	97

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
11...	.000	.010	.010	.030	.54	.57	.58	.160
11...	.000	.010	.010	.060	.64	.70	.71	.180
MAY , 1979								
23...	.610	.020	.630	.080	.57	.65	1.3	.290
23...	.610	.020	.630	.070	.65	.72	1.4	.310
NOV								
06...	.000	.000	.000	.010	1.1	1.1	1.1	.200
06...	.010	.000	.010	.030	1.1	1.1	1.1	.240
APR , 1980								
23...	.000	.000	.000	.030	1.4	1.4	1.4	.140
23...	.000	.000	.000	.030	1.1	1.1	1.1	.200
NOV								
04...	.000	.000	.000	.010	.71	.72	.72	.290
04...	.000	.000	.000	.010	.47	.48	.48	.280
APR , 1981								
15...	.000	.000	.000	.100	.74	.84	.84	.090
15...	.000	.000	.000	.090	.66	.75	.75	.090
NOV								
18...	--	<.030	<.090	.090	.56	.65	--	.180
18...	--	<.030	<.090	.090	.74	.83	--	.130
APR , 1982								
26...	--	.020	<.100	<.060	--	.92	--	.110
26...	.100	.020	.120	<.060	--	1.1	1.2	.110

293029094462800 LINE 470 SITE 60

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT , 1978											
11...	1215	1.00	29300	8.4	22.5	.90	8.6	113	--	--	--
11...	1216	4.00	30000	8.3	22.0	--	8.2	108	--	--	--
11...	1217	7.00	30300	8.3	22.0	--	7.3	96	--	--	--
MAY , 1979											
23...	1005	1.00	2500	8.1	24.0	--	7.4	90	--	--	--
23...	1010	7.00	2500	8.0	24.0	--	7.4	90	--	--	--
NOV											
06...	1426	1.00	15100	8.4	19.5	--	9.5	106	2.9	--	--
06...	1430	7.00	15500	8.3	19.5	--	9.4	105	3.6	--	--
APR , 1980											
23...	1145	1.00	18000	8.4	21.5	.30	9.5	113	4.6	2000	1900
23...	1147	4.00	18000	8.4	22.0	--	9.4	113	4.6	--	--
NOV											
04...	1128	1.00	30000	8.3	18.0	.90	11.1	128	1.7	--	--
04...	1130	6.50	29500	8.3	18.0	--	11.0	127	1.8	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

293029094462800 LINE 470 SITE 60--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
APR , 1981											
15...	1022	1.00	42000	8.1	24.0	.30	6.9	93	1.8	--	--
15...	1024	7.00	42000	8.1	24.0	--	6.8	92	2.0	--	--
NOV											
18...	1300	1.00	24000	8.4	20.5	.70	8.3	100	2.3	--	--
18...	1302	10.0	24500	8.4	20.0	--	8.1	97	2.5	--	--
APR , 1982											
26...	1410	1.00	16600	8.5	21.0	.60	11.0	130	3.4	--	--
26...	1412	6.00	17200	8.3	20.5	--	8.9	105	1.9	--	--

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978											
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--	--
MAY , 1979											
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
NOV											
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
23...	150	390	3300	33	130	110	90	0	890	6300	.50
23...	--	--	--	--	--	--	--	--	--	--	--
NOV											
04...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
APR , 1981											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
26...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978										
11...	--	--	.000	.010	.010	.010	1.6	1.6	1.6	.260
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	.000	.010	.010	.040	.66	.70	.71	.270
MAY , 1979										
23...	--	--	.550	.020	.570	.060	1.0	1.1	1.7	.310
23...	--	--	.570	.020	.590	.080	1.0	1.1	1.7	.370
NOV										
06...	--	--	.000	.000	.000	.010	1.2	1.2	1.2	.370
06...	--	--	.000	.000	.000	.020	1.3	1.3	1.3	.420
APR , 1980										
23...	4.2	11000	.000	.000	.000	.010	1.4	1.4	1.4	.250
23...	--	--	.000	.000	.000	.010	1.2	1.2	1.2	.270
NOV										
04...	--	--	.000	.000	.000	.010	.64	.65	.65	.390
04...	--	--	.000	.000	.000	.010	.59	.60	.60	.400
APR , 1981										
15...	--	--	.000	.000	.000	.090	.63	.72	.72	.130
15...	--	--	-.010	.010	.000	.110	.73	.84	.84	.130
NOV										
18...	--	--	--	<.030	<.090	.060	.93	.99	--	.220
18...	--	--	--	<.030	<.090	.060	.77	.83	--	.230
APR , 1982										
26...	--	--	--	<.020	<.100	<.060	--	1.1	--	.160
26...	--	--	--	<.020	<.100	<.060	--	.76	--	.140

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

291744094531200 LINE 521 SITE 50

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	1026	1.00	31000	8.2	24.0	--	--	--
11...	1027	12.0	30000	8.2	25.0	--	--	--
MAY , 1979								
23...	1204	1.00	25000	--	25.0	--	7.5	101
23...	1207	14.0	26000	--	25.0	--	7.4	101
OCT								
31...	0957	1.00	35000	8.0	21.5	--	7.7	98
31...	1002	10.0	35000	8.0	22.0	--	7.0	90
31...	1006	19.0	36000	8.0	21.5	--	7.0	89
NOV								
07...	0928	1.00	--	8.1	17.5	--	--	--
07...	0932	9.00	--	8.1	17.0	--	--	--
07...	0936	18.0	--	8.1	17.0	--	--	--
APR , 1980								
23...	1244	1.00	36000	8.1	22.5	.70	7.1	93
23...	1246	10.0	36000	8.1	22.0	--	6.8	88
23...	1248	18.0	39000	8.1	22.0	--	6.3	83
NOV								
04...	0938	1.00	39000	8.2	18.0	.60	8.8	106
04...	0942	15.0	39000	8.1	18.0	--	8.5	102
NOV , 1981								
19...	0935	1.00	32700	7.9	22.0	.90	7.0	90
19...	0937	10.0	34100	7.9	21.5	--	6.9	88
19...	0939	20.0	38100	8.0	21.0	--	6.5	84
APR , 1982								
26...	1211	1.00	27500	8.0	21.0	.40	7.7	95
26...	1213	6.50	27700	8.0	21.0	--	7.7	95
26...	1215	13.0	27300	8.0	21.0	--	7.3	90

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
11...	.000	.010	.010	.030	.12	.15	.16	.100
11...	.000	.010	.010	.030	.15	.18	.19	.100
MAY , 1979								
23...	.050	.020	.070	.070	.46	.53	.60	.130
23...	.030	.020	.050	.060	1.1	1.2	1.3	.140
OCT								
31...	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--
NOV								
07...	.000	.000	.000	.000	.88	.88	.88	.150
07...	--	--	--	--	--	--	--	--
07...	.010	.000	.010	.000	1.1	1.1	1.1	.180
APR , 1980								
23...	.000	.000	.000	.030	.59	.62	.62	.110
23...	--	--	--	--	--	--	--	--
23...	.000	.000	.000	.060	.53	.59	.59	.120
NOV								
04...	.000	.000	.000	.030	.37	.40	.40	.260
04...	.000	.000	.000	.010	.40	.41	.41	.250
NOV , 1981								
19...	--	<.030	<.090	.070	.77	.84	--	.140
19...	--	--	--	--	--	--	--	--
19...	--	<.030	<.090	.120	.67	.79	--	.110
APR , 1982								
26...	--	.020	<.100	<.060	--	.72	--	.080
26...	--	--	--	--	--	--	--	--
26...	--	.030	<.100	<.060	--	.68	--	.080

291339094573400 LINE 530 SITE 20

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	1114	1.00	34000	8.2	24.0	--	--	--
11...	1115	3.00	35000	8.2	24.0	--	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

291339094573400 LINE 530 SITE 20--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1979								
31...	1033	1.00	30000	8.0	20.5	--	7.6	93
31...	1036	5.00	31000	8.0	20.5	--	7.4	91
NOV								
07...	1005	1.00	--	8.0	17.0	--	--	--
07...	1007	5.00	--	8.0	17.0	--	--	--
APR , 1980								
23...	1206	1.00	32000	8.1	23.5	.40	7.4	97
23...	1208	3.00	32000	8.1	23.5	--	7.4	97
NOV								
04...	1046	1.00	41100	8.2	19.5	.60	8.7	109
04...	1048	3.50	41100	8.2	19.5	--	8.6	108
APR , 1981								
15...	0938	1.00	47000	8.5	24.0	.90	6.7	93
15...	0940	3.00	47000	8.5	24.0	--	6.7	93
NOV								
19...	1040	2.00	32300	8.2	23.0	.80	7.0	92
APR , 1982								
26...	1305	2.00	29400	8.2	22.0	.40	9.1	115

291428094575900 LINE 530 SITE 50

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT , 1978											
11...	1103	1.00	37000	8.0	24.0	--	--	--	3900	3700	230
11...	1104	7.00	37000	8.2	25.0	--	--	--	--	--	--
11...	1847	1.00	37200	8.2	25.0	--	6.3	90	3400	3300	230
11...	1849	7.00	37500	8.3	25.0	--	6.2	90	--	--	--
12...	0742	1.00	37000	8.2	24.0	--	6.2	87	--	--	--
12...	0743	7.00	38100	8.2	25.0	--	6.2	90	--	--	--
MAY , 1979											
23...	1142	1.00	22900	--	25.0	--	7.3	99	2300	2200	160
23...	1144	7.00	25000	--	25.0	--	7.8	98	--	--	--
OCT											
31...	1047	1.00	33000	8.1	22.0	--	7.5	96	--	--	--
31...	1051	7.00	33000	8.1	22.0	--	7.5	96	--	--	--
NOV											
07...	1013	1.00	32200	8.2	17.5	--	8.3	96	3800	3700	200
07...	1017	6.00	--	8.2	17.5	--	--	--	--	--	--
APR , 1980											
23...	1212	1.00	32000	8.1	23.0	.70	7.5	97	3700	3600	240
23...	1215	6.00	31000	8.1	23.0	--	7.4	96	--	--	--
NOV											
04...	1026	1.00	41000	8.2	17.5	.90	9.3	112	4900	4800	330
04...	1028	6.00	41000	8.2	17.5	--	9.0	108	--	--	--
APR , 1981											
15...	0928	1.00	46400	7.9	24.5	.80	6.8	94	5500	5400	400
15...	0930	5.50	44000	8.0	24.0	--	6.8	93	--	--	--
NOV											
19...	1005	1.00	31300	8.0	22.0	1.30	7.2	92	3500	3400	220
19...	1007	8.00	31300	8.0	22.0	--	7.1	91	--	--	--
APR , 1982											
26...	1250	1.00	28800	8.1	21.0	.50	8.2	102	3700	3600	290
26...	1252	6.00	28400	8.1	20.0	--	7.8	95	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978										
11...	800	8000	56	290	150	123	0	2000	13000	.80
11...	--	--	--	--	--	--	--	--	--	--
11...	690	6500	49	300	150	123	0	2000	10000	.90
11...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

291428094575900 LINE 530 SITE 50--Continued

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
MAY , 1979										
23...	470	4100	37	--	120	98	0	1100	6900	.60
23...	--	--	--	--	--	--	--	--	--	--
OCT										
31...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
NOV										
07...	800	6400	46	1.0	120	98	0	1600	11000	.60
07...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
23...	760	6100	44	270	120	98	0	1300	12000	.60
23...	--	--	--	--	--	--	--	--	--	--
NOV										
04...	980	8000	50	330	--	108	--	1700	15000	.70
04...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
15...	1100	9500	56	340	--	110	--	2200	18000	.70
15...	--	--	--	--	--	--	--	--	--	--
NOV										
19...	720	5700	42	230	--	100	--	1400	11000	.60
19...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
26...	720	5800	42	210	--	100	--	1500	11000	.60
26...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978										
11...	2.2	24000	.010	.010	.020	.020	.22	.24	.26	.090
11...	--	--	.000	.010	.010	.030	.12	.15	.16	.090
11...	2.7	20000	.010	.010	.020	.010	.15	.16	.18	.090
11...	--	--	.000	.010	.010	.010	.14	.15	.16	.080
12...	--	--	.010	.010	.020	.040	.59	.63	.65	.090
12...	--	--	.000	.010	.010	.040	.13	.17	.18	.080
MAY , 1979										
23...	13	13000	.020	.020	.040	.150	.43	.58	.62	.120
23...	--	--	.030	.020	.050	.150	.47	.62	.67	.120
OCT										
31...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
NOV										
07...	1.9	20000	-.010	.020	.010	.000	.66	.66	.67	.160
07...	--	--	.000	.000	.000	.000	.70	.70	.70	.150
APR , 1980										
23...	.6	21000	.000	.000	.000	.010	.78	.79	.79	.130
23...	--	--	.000	.000	.000	.010	.78	.79	.79	.130
NOV										
04...	1.2	26000	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
15...	1.6	32000	.000	.000	.000	.080	.92	1.0	1.0	.080
15...	--	--	.000	.000	.000	.070	.67	.74	.74	.110
NOV										
19...	<1.9	19000	--	<.030	<.090	<.060	--	.88	--	.130
19...	--	--	--	<.030	<.090	<.060	--	.68	--	.120
APR , 1982										
26...	<2.0	--	--	.020	<.100	<.060	--	.67	--	.080
26...	--	--	--	.020	<.100	<.060	--	.62	--	.100

291601094585200 LINE 530 SITE 80

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	1052	1.00	36000	8.0	24.0	--	--	--
11...	1053	4.50	36000	8.0	25.0	--	--	--
MAY , 1979								
23...	0927	1.00	--	--	26.5	--	--	--
23...	0930	4.00	--	--	25.0	--	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

291601094585200 LINE 530 SITE 80--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1979								
31...	1101	1.00	34000	8.1	22.0	--	7.6	97
31...	1104	6.00	33500	8.1	22.0	--	7.6	97
NOV								
07...	1025	1.00	--	8.1	17.5	--	--	--
07...	1027	5.00	--	8.1	17.5	--	--	--
APR , 1980								
23...	1223	1.00	30000	8.1	23.5	.60	7.3	95
23...	1225	4.00	30000	8.1	23.5	--	7.3	95
NOV								
04...	1010	1.00	41100	8.2	18.5	.90	9.5	117
04...	1012	5.00	41100	8.2	18.5	--	9.5	117
APR , 1981								
15...	0913	1.00	44500	8.1	24.0	.60	6.5	89
15...	0915	4.00	44500	8.5	23.0	--	6.3	85
NOV								
19...	1030	1.00	30800	7.8	22.0	1.00	7.1	91
19...	1032	5.00	30800	7.8	22.0	--	7.2	92
APR , 1982								
26...	1242	1.00	28400	7.9	21.5	.50	7.7	96
26...	1244	5.00	28400	8.0	20.5	--	7.5	92

291127095015500 LINE 550 SITE 50

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	1135	1.00	36000	8.1	24.0	--	--	--
11...	1136	6.00	35000	8.1	25.0	--	--	--
MAY , 1979								
23...	1124	1.00	22900	--	25.0	--	7.6	101
23...	1126	4.50	24000	--	25.0	--	7.4	100
NOV								
07...	1054	1.00	--	8.1	18.0	--	--	--
07...	1058	6.00	--	8.1	18.0	--	--	--
APR , 1980								
23...	1146	1.00	33000	8.2	23.5	.70	7.5	99
23...	1148	5.00	33000	8.2	23.0	--	7.5	98
NOV								
04...	1110	1.00	42400	8.2	18.0	.90	8.5	104
04...	1112	5.00	42800	8.2	18.0	--	8.0	98
APR , 1981								
15...	0958	1.00	49000	7.8	24.0	1.00	6.6	92
15...	1000	4.50	49000	8.0	24.0	--	6.6	92
NOV								
19...	1100	1.00	33600	8.1	22.0	.80	6.9	89
19...	1102	7.00	33600	8.1	22.0	--	6.9	89
APR , 1982								
26...	1323	1.00	30300	8.1	21.5	.60	7.9	100
26...	1325	6.00	30500	8.1	20.5	--	7.6	94

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
11...	.000	.010	.010	.010	.13	.14	.15	.080
11...	.000	.010	.010	.030	.37	.40	.41	.110
MAY , 1979								
23...	.010	<.010	.010	.060	.56	.62	.63	.070
23...	.020	<.010	.020	.060	.59	.65	.67	.070
NOV								
07...	.000	.010	.010	.030	.84	.87	.88	.120
07...	.000	.010	.010	.010	.79	.80	.81	.110
APR , 1980								
23...	.000	.000	.000	.010	.66	.67	.67	.090
23...	.000	.000	.000	.010	.86	.87	.87	.090

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

291127095015500 LINE 550 SITE 50--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV , 1980								
04...	.000	.000	.000	.050	.37	.42	.42	.210
04...	.000	.000	.000	.040	1.1	1.1	1.1	.090
APR , 1981								
15...	.000	.000	.000	.100	.37	.47	.47	.070
15...	.000	.000	.000	.100	.52	.62	.62	.070
NOV								
19...	--	<.030	<.090	.070	.74	.81	--	.110
19...	--	<.030	<.090	<.060	--	.89	--	.100
APR , 1982								
26...	--	.030	<.100	<.060	--	.62	--	.080
26...	--	.020	<.100	<.060	--	.70	--	.090

291106095084200 LINE 565 SITE 30

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	1310	1.00	31000	8.1	24.0	--	6.0	82
11...	1311	9.00	34000	8.1	28.0	--	5.9	86
MAY , 1979								
23...	0956	1.00	--	--	24.5	--	--	--
23...	0958	12.0	--	--	25.0	--	--	--
NOV								
07...	1223	1.00	28000	8.1	18.0	--	8.5	98
07...	1227	5.00	27000	8.1	18.0	--	7.9	91
07...	1230	10.0	30000	8.1	18.0	--	7.8	91
APR , 1980								
23...	1028	1.00	23000	7.9	23.0	.30	6.9	86
23...	1030	10.0	24500	7.8	22.5	--	6.9	86
NOV								
04...	1258	1.00	35800	8.2	19.5	.30	8.2	100
04...	1300	15.0	39500	8.0	19.5	--	7.2	89
APR , 1981								
15...	1143	1.00	43500	8.3	25.0	.40	6.6	92
15...	1145	12.0	43500	8.4	25.0	--	6.6	92
APR , 1982								
26...	1456	1.00	20000	8.1	23.0	.30	8.7	109
26...	1458	8.00	27900	8.0	21.0	--	7.7	95
26...	1500	16.0	29500	8.0	21.0	--	7.2	90

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
11...	.000	.010	.010	.040	.36	.40	.41	.080
11...	.000	.010	.010	.060	.58	.64	.65	.080
MAY , 1979								
23...	.000	.020	.020	.070	.63	.70	.72	.060
23...	.020	.020	.040	.110	.53	.64	.68	.070
NOV								
07...	.000	.000	.000	.000	.71	.71	.71	.050
07...	--	--	--	--	--	--	--	--
07...	-.010	.010	.000	.050	1.1	1.1	1.1	.090
APR , 1980								
23...	.000	.000	.000	.030	1.1	1.1	1.1	.110
23...	.000	.000	.000	.030	1.9	1.9	1.9	.290
NOV								
04...	.000	.000	.000	.140	.74	.88	.88	.220
04...	--	--	--	--	--	--	--	--
APR , 1981								
15...	.000	.000	.000	.110	.70	.81	.81	.080
15...	-.010	.010	.000	.130	.78	.91	.91	.080
APR , 1982								
26...	.380	.060	.440	<.060	--	.95	1.4	.090
26...	--	--	--	--	--	--	--	--
26...	--	.030	<.100	.080	.78	.86	--	.120

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

290823095040200 LINE 575 SITE 10

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	1150	1.00	37000	8.2	24.0	--	--	--
11...	1151	8.00	36000	8.2	25.0	--	--	--
MAY , 1979								
23...	1055	1.00	21000	--	25.0	--	8.1	107
23...	1058	5.00	24000	--	25.0	--	7.9	106
NOV								
07...	1118	1.00	--	8.1	99.0	--	--	--
07...	1120	6.00	--	8.1	18.0	--	--	--
APR , 1980								
23...	1116	1.00	36000	8.1	22.5	.80	7.2	94
23...	1118	4.00	36500	8.1	22.5	--	7.2	94
23...	1120	6.00	40000	7.8	22.0	--	3.7	49
NOV								
04...	1128	1.00	44000	8.2	18.0	.70	8.6	106
04...	1130	6.50	43500	8.2	18.0	--	8.5	104
APR , 1981								
15...	1018	1.00	48000	8.4	24.5	.60	6.5	91
15...	1020	7.00	48000	8.4	24.5	--	6.3	82
NOV								
19...	1130	1.00	35000	8.2	22.5	1.20	7.1	93
19...	1132	8.00	35900	8.2	22.5	--	7.1	93
APR , 1982								
26...	1338	1.00	29600	8.1	21.5	.60	8.6	108
26...	1340	7.00	30800	8.2	21.0	.00	8.9	111

290924095045100 LINE 575 SITE 50

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	1155	1.00	37000	8.2	24.0	--	--	--
11...	1156	7.00	37000	8.2	24.0	--	--	--
MAY , 1979								
23...	1103	1.00	25000	--	25.0	--	7.7	104
23...	1106	5.00	25000	--	25.0	--	7.6	102
NOV								
07...	1106	1.00	--	8.1	18.0	--	--	--
07...	1109	7.00	--	8.1	18.0	--	--	--
APR , 1980								
23...	1124	1.00	37000	8.2	23.0	.80	7.4	98
23...	1126	6.00	37000	8.1	23.0	--	7.2	95
NOV								
04...	1134	1.00	44000	8.2	18.0	.90	8.6	106
04...	1136	6.50	44000	8.2	18.0	--	8.4	103
APR , 1981								
15...	1024	1.00	46500	8.5	24.5	.40	6.6	92
15...	1026	7.00	46500	8.4	24.5	--	6.6	92
NOV								
19...	1145	1.00	35500	8.1	22.5	1.10	7.0	92
19...	1147	9.00	35500	8.1	22.0	--	7.0	91
APR , 1982								
26...	1348	1.00	28700	8.0	22.0	.50	8.4	106
26...	1350	7.00	31500	8.0	20.5	--	7.5	93

291023095053900 LINE 575 SITE 80

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	1204	1.00	35000	8.1	25.0	--	6.4	91
11...	1205	5.00	37000	8.2	25.0	--	6.4	92
MAY , 1979								
23...	1114	1.00	24000	--	25.0	--	7.6	102
23...	1116	6.00	24000	--	25.0	--	7.5	104

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

291023095053900 LINE 575 SITE 80--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV , 1979								
07...	1208	1.00	33000	8.2	18.5	--	8.3	99
07...	1210	6.00	33000	8.1	18.5	--	8.1	96
APR , 1980								
23...	1130	1.00	35000	8.1	23.5	.60	7.1	94
23...	1132	4.00	35000	8.1	23.5	--	7.1	94
NOV								
04...	1143	1.00	43300	8.1	18.0	.90	8.6	105
04...	1145	6.00	43200	8.1	18.0	--	8.5	104
APR , 1981								
15...	1033	1.00	46000	8.4	24.5	.30	6.6	92
15...	1035	6.00	46500	8.4	24.5	--	6.6	92
NOV								
19...	1150	1.00	35000	8.1	22.5	.70	6.9	90
19...	1152	8.00	35900	8.1	22.5	--	6.8	89
APR , 1982								
26...	1353	1.00	29900	8.0	22.0	.30	8.0	102
26...	1355	6.00	31500	8.0	20.0	--	7.1	87

290659095063500 LINE 580 SITE 10

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	1221	1.00	34000	8.3	26.0	--	6.8	97
11...	1222	3.00	36000	8.2	26.0	--	6.6	94
MAY , 1979								
23...	1044	1.00	20000	--	25.0	--	8.3	109
23...	1046	6.00	27000	--	25.0	--	7.7	105
NOV								
07...	1133	1.00	33000	8.1	18.0	--	8.1	95
07...	1134	6.00	33500	8.1	18.0	--	8.0	94
APR , 1980								
23...	1108	1.00	40500	8.1	23.0	.60	6.5	87
23...	1110	5.00	45000	7.8	22.5	--	3.9	53
NOV								
04...	1154	1.00	43000	8.2	18.0	1.10	8.7	107
04...	1156	4.50	43200	8.2	18.0	--	8.7	107
APR , 1981								
15...	1054	1.00	46000	8.5	24.5	.60	6.7	93
15...	1056	5.00	46000	8.5	25.0	--	6.6	93
NOV								
19...	1220	2.00	43400	8.2	22.0	--	7.1	95
APR , 1982								
26...	1408	1.00	32000	8.0	22.0	.50	8.0	103
26...	1410	3.00	32200	8.1	21.0	--	8.5	107

290654095075100 LINE 580 SITE 50

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)
OCT , 1978										
11...	1234	1.00	44100	8.3	26.0	--	6.7	99	.000	.010
11...	1235	4.00	44100	8.1	26.0	--	6.7	98	.000	.010
MAY , 1979										
23...	1023	1.00	--	--	24.5	--	--	--	-.010	.020
23...	1026	6.00	--	--	24.5	--	--	--	-.010	.020
NOV										
07...	1138	1.00	34000	8.1	18.0	--	8.2	97	.010	.010
07...	1143	7.00	34000	8.1	18.0	--	8.1	96	.000	.000
APR , 1980										
23...	1054	1.00	44000	8.1	23.0	.70	7.2	98	.000	.000
23...	1056	4.00	48000	8.1	22.5	--	7.2	99	.000	.000

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

290654095075100 LINE 580 SITE 50--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)
NOV , 1980										
04...	1210	1.00	42800	8.2	18.5	1.10	8.7	108	.000	.000
04...	1212	6.00	42800	8.2	18.5	--	8.4	104	.000	.000
APR , 1981										
15...	1105	1.00	45000	8.5	24.5	.50	6.7	93	.000	.000
15...	1107	4.50	45000	8.6	24.5	--	6.7	93	.000	.000
NOV										
19...	1232	6.00	--	8.2	21.5	--	--	--	--	<.030
APR , 1982										
26...	1418	1.00	33200	8.2	22.0	.50	8.9	115	.160	.020
26...	1420	4.00	35900	8.2	22.0	--	8.1	105	.240	.030

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
OCT , 1978									
11...	.010	.010	.10	.11	.12	.030	--	--	--
11...	.010	.010	.10	.11	.12	.030	--	--	--
MAY , 1979									
23...	.010	.070	.45	.52	.53	.040	--	--	--
23...	.010	.110	.60	.71	.72	.050	--	--	--
NOV									
07...	.020	.000	1.0	1.0	1.0	.080	1	400	1
07...	.000	.010	.69	.70	.70	.080	--	--	--
APR , 1980									
23...	.000	.030	.86	.89	.89	.070	--	--	--
23...	.000	.030	.77	.80	.80	.090	--	--	--
NOV									
04...	.000	.020	.26	.28	.28	.120	--	--	--
04...	.000	.000	.43	.43	.43	.120	--	--	--
APR , 1981									
15...	.000	.110	1.4	1.5	1.5	.070	--	--	--
15...	.000	.120	.52	.64	.64	.080	--	--	--
NOV									
19...	<.090	.080	.62	.70	--	.050	--	--	--
APR , 1982									
26...	.180	<.060	--	.73	.91	.080	--	--	--
26...	.270	<.060	--	.70	.97	.070	--	--	--

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT , 1978									
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
MAY , 1979									
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
NOV									
07...	10	1	280	2	40	.3	0	0	30
07...	--	--	--	--	--	--	--	--	--
APR , 1980									
23...	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--
NOV									
04...	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--
APR , 1981									
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
NOV									
19...	--	--	--	--	--	--	--	--	--
APR , 1982									
26...	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

290650095092500 LINE 580 SITE 80

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
11...	1247	1.00	41500	8.3	26.0	--	6.7	98
11...	1248	3.00	44100	8.3	26.0	--	6.7	98
MAY , 1979								
23...	1014	1.00	--	--	24.5	--	--	--
23...	1016	5.00	--	--	24.5	--	--	--
NOV								
07...	1155	1.00	34000	8.1	18.5	--	8.2	98
07...	1158	6.00	34000	8.1	18.5	--	8.2	98
APR , 1980								
23...	1046	1.00	47500	8.1	22.5	.50	7.1	97
23...	1048	3.00	47000	8.1	22.5	--	7.0	96
NOV								
04...	1222	1.00	43000	8.2	19.5	.50	8.3	105
04...	1224	5.00	42900	8.2	19.5	--	8.3	105
APR , 1981								
15...	1113	1.00	41500	8.7	24.5	.20	6.7	91
15...	1115	4.50	41500	8.7	25.0	--	6.7	92
APR , 1982								
26...	1438	1.00	32200	8.2	23.0	.40	9.0	118
26...	1440	3.00	32600	8.2	22.5	--	9.5	123

294759094432700 LINE 680 SITE 20

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT , 1978											
10...	1554	1.00	3390	8.5	24.5	.50	7.5	93	--	410	180
10...	1555	8.00	8000	8.1	23.0	--	6.4	78	--	--	--
MAY , 1979											
21...	1545	1.00	320	7.5	24.0	--	7.9	96	--	96	26
21...	1550	9.00	320	7.5	24.0	--	7.9	96	--	--	--
OCT											
30...	1306	1.00	7350	7.8	24.5	--	5.9	73	--	--	--
30...	1308	6.00	7350	7.8	24.5	--	6.8	84	--	--	--
30...	1310	12.0	7350	7.8	24.5	--	6.8	84	--	--	--
NOV											
06...	1145	1.00	330	7.5	19.0	--	9.0	95	2.7	85	18
06...	1150	8.00	330	7.5	19.0	--	8.7	91	2.6	--	--
APR , 1980											
24...	1303	1.00	350	8.3	21.0	.30	9.6	107	3.3	100	25
24...	1305	5.00	360	8.3	20.5	--	10.0	110	--	--	--
24...	1307	9.00	630	8.3	21.0	--	9.6	107	3.0	--	--
NOV											
05...	1500	1.00	786	6.2	18.5	.30	8.6	91	2.2	130	33
05...	1502	9.00	860	7.2	18.0	--	8.0	84	1.9	--	--
APR , 1981											
14...	1130	1.00	4830	8.1	24.0	.50	9.4	113	2.8	530	430
14...	1132	5.00	18000	7.6	24.5	--	6.8	85	--	--	--
14...	1135	11.5	22000	7.6	24.5	--	6.4	81	3.9	--	--
NOV											
18...	1013	1.00	361	8.0	20.0	.20	7.9	87	2.5	110	7
18...	1015	10.0	360	8.0	20.0	--	8.1	89	2.5	--	--
APR , 1982											
27...	1240	1.00	337	7.6	19.5	--	8.0	86	2.1	110	15
27...	1242	8.00	330	7.5	19.5	--	8.0	86	2.4	--	--

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978											
10...	72	56	490	11	16	280	230	0	140	810	.40
10...	--	--	--	--	--	--	--	--	--	--	--
MAY , 1979											
21...	33	3.4	22	1	4.3	86	71	0	36	30	.20
21...	--	--	--	--	--	--	--	--	--	--	--
OCT											
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

294759094432700 LINE 680 SITE 20--Continued

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
NOV , 1979											
06...	29	3.1	31	2	4.1	82	67	0	24	41	.20
06...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
24...	34	3.7	28	1	4.6	91	75	0	43	34	.20
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
NOV .											
05...	41	6.0	120	5	5.7	--	94	--	45	170	.20
05...	--	--	--	--	--	--	--	--	--	--	--
APR , 1981											
14...	80	79	800	15	24	--	100	--	210	1400	.40
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	37	3.4	33	1	5.6	--	100	--	40	37	.30
18...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
27...	40	3.6	23	1	4.6	--	100	--	32	33	.30
27...	--	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT , 1978										
10...	8.7	1700	.000	.010	.010	.010	1.3	1.3	1.3	.130
10...	--	--	.000	.010	.010	.090	1.1	1.2	1.2	.170
MAY , 1979										
21...	8.4	180	.890	.020	.910	.060	.61	.67	1.6	.220
21...	--	--	.880	.020	.900	.070	.78	.85	1.8	.240
OCT										
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	6.1	180	.000	.000	.000	.010	.86	.87	.87	.120
06...	--	--	.000	.000	.000	.030	.85	.88	.88	.110
APR , 1980										
24...	5.0	200	.110	.000	.110	.030	1.1	1.1	1.2	.150
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	.110	.010	.120	.030	1.1	1.1	1.2	.160
NOV										
05...	9.1	450	.000	.000	.000	.090	.72	.81	.81	.230
05...	--	--	.000	.000	.000	.110	.71	.82	.82	.240
APR , 1981										
14...	7.4	2700	.000	.000	.000	.070	.86	.93	.93	.080
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	.000	.000	.000	.120	.98	1.1	1.1	.170
NOV										
18...	8.2	220	--	<.030	.250	.100	.75	.85	1.1	.170
18...	--	--	--	<.030	.240	.100	.57	.67	.91	.200
APR , 1982										
27...	2.4	200	.150	.030	.180	<.060	--	.79	.97	.140
27...	--	--	.150	.030	.180	<.060	--	.81	.99	.160

Table 2.--Quality of water in the Trinity-San Jacinto estuary, water years 1979-83--Continued

294815094444200 LINE 680 SITE 40

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
10...	1540	1.00	13000	8.5	22.5	.40	8.1	100
10...	1541	10.0	13000	8.5	22.5	--	8.1	100
10...	1542	18.0	13000	8.5	22.5	--	8.2	101
MAY , 1979								
21...	1600	1.00	330	7.6	24.5	--	8.0	98
21...	1605	22.0	330	7.5	24.0	--	8.0	98
OCT								
30...	1230	1.00	8440	8.1	24.5	--	7.4	91
30...	1235	12.5	8600	8.1	24.0	--	7.6	94
30...	1240	25.0	8600	8.1	24.5	--	7.5	93
NOV								
06...	1133	1.00	380	7.6	19.5	--	8.9	94
06...	1135	11.0	380	7.6	19.5	--	8.3	88
06...	1137	23.0	390	7.3	19.0	--	8.4	88
APR , 1980								
24...	1250	1.00	350	8.3	21.0	.20	9.6	107
24...	1252	10.0	350	9.4	21.0	--	8.3	92
24...	1254	23.0	350	9.4	21.0	--	8.3	92
NOV								
05...	1512	1.00	7000	7.0	19.5	.50	9.2	101
05...	1514	10.0	8000	8.0	19.5	--	9.8	108
05...	1516	23.0	8500	7.4	19.5	--	9.8	108
APR , 1981								
14...	1151	1.00	21000	7.9	25.5	.30	8.2	105
14...	1153	10.0	21000	7.9	25.5	--	8.2	105
14...	1155	21.0	21000	7.8	26.0	--	8.0	104
NOV								
18...	1038	1.00	348	8.0	20.0	--	7.8	86
18...	1040	23.0	350	8.0	20.0	--	7.9	87
APR , 1982								
27...	1310	1.00	324	7.6	20.0	--	7.9	86
27...	1318	7.50	326	7.6	20.0	--	7.8	85
27...	1320	15.0	329	7.6	20.0	--	7.9	86

294813094471300 LINE 680 SITE 80

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
10...	1530	1.00	12500	8.8	23.0	.60	8.4	105
10...	1531	5.00	13000	8.7	21.5	--	7.9	96
10...	1532	11.0	15000	8.7	20.5	--	6.4	78
MAY , 1979								
21...	1615	1.00	350	8.0	26.5	--	8.9	113
21...	1618	7.00	350	8.0	26.5	--	8.9	113
21...	1620	13.0	350	7.8	26.0	--	8.6	108
OCT								
30...	1211	1.00	7720	7.9	25.0	--	6.7	83
30...	1213	9.00	3750	7.9	25.0	--	6.8	83
30...	1215	18.0	3750	7.9	25.0	--	7.0	86
NOV								
06...	1119	1.00	710	7.6	19.0	--	8.9	94
06...	1122	5.00	780	7.6	19.0	--	7.6	80
06...	1125	11.0	3700	7.5	18.5	--	7.7	81
APR , 1980								
24...	1231	1.00	360	8.6	24.0	.20	8.5	100
24...	1232	11.0	360	8.7	24.0	--	8.5	100
NOV								
05...	1436	1.00	9500	8.2	20.5	.50	10.4	117
05...	1438	5.00	11500	8.2	19.0	--	9.3	102
05...	1440	7.00	16500	7.2	18.0	--	3.8	42
APR , 1981								
14...	1214	1.00	23500	8.5	26.5	.40	8.7	115
14...	1216	3.00	25000	8.7	26.0	--	7.6	100
14...	1218	6.00	27000	8.2	26.5	--	4.4	59
14...	1220	13.0	27500	7.9	27.0	--	4.4	60
NOV								
18...	1048	1.00	317	7.6	21.0	.40	6.4	72
18...	1050	14.0	319	7.7	21.0	--	6.6	74
APR , 1982								
27...	1330	1.00	350	7.4	22.0	--	7.6	86
27...	1332	10.0	353	7.4	21.5	--	7.4	83

Table 3.--Quality of water in the Brazos estuary, water years 1979-83

285903095252.00 LINE 090 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT , 1978											
18...	1425	1.00	15200	8.1	25.0	.60	9.0	118	1500	1300	160
18...	1426	10.0	38000	7.6	27.5	--	2.1	31	--	--	--
18...	1427	18.0	42000	7.7	28.0	--	3.5	53	--	--	--
APR , 1979											
18...	1220	1.00	490	8.8	23.0	--	7.3	87	--	--	--
18...	1223	8.00	490	8.8	23.0	--	7.3	87	--	--	--
18...	1225	17.0	500	8.9	23.5	--	7.3	88	--	--	--
OCT											
25...	1712	1.00	8420	8.1	24.5	--	8.5	103	960	750	120
25...	1716	6.00	10000	7.8	28.0	--	7.1	92	--	--	--
25...	1720	12.0	33500	7.6	28.0	--	2.4	34	--	--	--
APR , 1980											
17...	1436	1.00	2760	8.0	19.5	.20	6.8	86	360	220	68
17...	1438	5.00	31000	7.9	19.5	--	7.9	94	--	--	--
17...	1440	10.0	11500	7.6	20.5	--	6.2	70	--	--	--
17...	1442	21.0	38500	7.0	23.5	--	5.0	67	--	--	--
OCT											
17...	1102	1.00	27500	7.9	27.5	.70	6.8	97	2900	2800	250
17...	1104	10.0	38000	7.5	29.5	--	3.0	45	--	--	--
17...	1106	20.0	39000	7.7	30.0	--	4.3	65	--	--	--
APR , 1981											
08...	1009	1.00	18800	8.0	23.5	.50	8.9	110	2000	1900	200
08...	1011	4.00	33000	7.9	24.5	--	6.5	86	--	--	--
08...	1013	8.00	38000	7.6	26.0	--	6.0	84	--	--	--
08...	1015	18.0	40000	7.6	26.0	--	6.1	86	--	--	--
NOV											
23...	1440	1.00	1570	8.4	19.0	.20	8.0	86	280	170	69
23...	1442	10.0	3670	8.2	18.5	--	7.4	80	--	--	--
23...	1444	21.0	33700	7.6	22.0	--	5.7	73	--	--	--
APR , 1982											
20...	0920	1.00	3600	8.2	24.5	.20	6.8	82	460	310	83
20...	0922	9.50	28000	7.5	26.5	--	3.6	49	--	--	--
20...	0924	19.0	32000	7.4	26.5	--	3.3	46	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978										
18...	270	2800	32	97	230	189	0	700	4700	.40
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
APR , 1979										
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
OCT										
25...	160	1500	21	57	250	205	0	420	2600	.30
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
17...	45	400	9	17	160	131	0	120	660	.40
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
OCT										
17...	560	5200	42	200	--	138	--	1200	9900	.60
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
08...	370	3300	32	98	--	170	--	53	6500	.50
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	25	210	6	8.0	--	110	--	130	350	.30
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
20...	62	540	11	18	--	150	--	190	950	.30
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--

Table 3.--Quality of water in the Brazos estuary, water years 1979-83--Continued

285903095252100 LINE 090 SITE 02--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT , 1978										
18...	5.8	8800	.010	<.010	.010	.010	.74	.75	.76	.110
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	.070	.010	.080	.340	.47	.81	.89	.080
APR , 1979										
18...	--	--	1.08	.020	1.10	.020	.47	.49	1.6	.110
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	1.08	.020	1.10	.020	.55	.57	1.7	.120
OCT										
25...	6.4	5000	-.010	.020	.010	.040	.74	.78	.79	.060
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	.110	.040	.150	.380	1.0	1.4	1.6	.150
APR , 1980										
17...	9.0	1400	.460	.040	.500	.060	.76	.82	1.3	.120
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	.140	.020	.160	.280	.82	1.1	1.3	.070
OCT										
17...	3.9	17000	.230	.020	.250	.050	.37	.42	.67	.080
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	.320	.010	.330	.110	.99	1.1	1.4	.070
APR , 1981										
08...	5.2	11000	.460	.010	.470	.070	1.3	1.4	1.9	.130
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	.130	.010	.140	.380	.82	1.2	1.3	.110
NOV										
23...	8.7	870	--	<.030	.290	.080	.49	.57	.86	.080
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	.240	.070	.310	.280	.72	1.0	1.3	.070
APR , 1982										
20...	6.1	1900	.450	.020	.470	.090	1.0	1.1	1.6	.130
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	.250	.020	.270	.900	1.3	2.2	2.5	.120

285851095232600 LINE 100 SITE 02

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT , 1978								
18...	1405	1.00	19000	8.1	25.5	.60	8.9	118
18...	1406	5.00	37000	7.9	27.0	--	5.7	84
18...	1407	14.0	41000	7.8	27.0	--	6.1	90
APR , 1979								
18...	1209	1.00	2000	9.0	24.5	--	7.1	88
18...	1210	5.00	11000	8.9	2.5	--	6.5	96
18...	1212	11.0	25000	8.7	24.0	--	6.1	82
OCT								
25...	1650	1.00	12000	7.8	28.0	--	7.9	103
25...	1652	10.0	35000	7.8	27.5	--	6.0	87
25...	1655	21.0	33000	7.8	27.5	--	5.5	77
APR , 1980								
17...	1424	1.00	8500	7.7	20.5	.30	8.4	94
17...	1426	5.00	22500	7.5	22.5	--	7.1	87
17...	1428	10.0	39000	7.5	24.0	--	6.2	83
OCT								
17...	1044	1.00	38000	7.8	29.0	.60	6.0	89
17...	1046	11.5	40000	7.3	30.0	--	5.7	87
APR , 1981								
08...	0956	1.00	33000	7.9	25.0	.60	8.1	109
08...	0958	6.00	37000	7.8	26.0	--	7.0	97
08...	1000	11.0	41000	7.8	26.0	--	6.5	92
NOV								
23...	1418	1.00	4860	8.2	19.5	.20	8.0	88
23...	1420	6.00	11600	8.0	19.5	--	7.6	86
23...	1422	12.0	33000	8.0	22.5	--	6.3	82
APR , 1982								
20...	0855	1.00	4560	8.2	25.0	.30	7.7	94
20...	0857	7.00	21400	7.6	27.0	--	5.8	78
20...	0900	14.0	32600	7.8	27.5	--	4.2	60

Table 3.--Quality of water in the Brazos estuary, water years 1979-83--Continued

285754095223000 LINE 110 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
OCT , 1978									
18...	1400	1.00	20700	8.2	25.5	.80	5.9	78	--
18...	1401	6.00	40000	8.0	26.0	--	5.4	78	--
18...	1402	12.0	41200	7.9	26.5	--	4.7	70	--
APR , 1979									
18...	1156	1.00	3100	9.0	26.0	--	6.8	86	--
18...	1158	5.00	9600	8.8	23.5	--	7.1	88	--
18...	1200	10.0	21000	8.7	24.0	--	5.9	78	--
OCT									
25...	1632	1.00	33900	7.7	27.0	--	6.7	93	2.9
25...	1636	7.00	38000	7.5	26.5	--	4.1	57	--
25...	1640	14.0	40000	7.5	26.5	--	4.1	58	2.1
APR , 1980									
17...	1413	1.00	9900	7.8	21.5	.30	8.2	94	.4
17...	1415	6.50	28500	7.5	22.5	--	6.5	82	--
17...	1417	13.0	43000	7.6	23.5	--	5.9	80	.8
OCT									
17...	1033	1.00	40000	7.7	29.5	.60	5.4	82	1.1
17...	1035	16.0	41000	7.5	30.5	--	4.8	74	1.2
APR , 1981									
08...	0939	1.00	37500	7.9	25.0	.50	6.7	92	2.7
08...	0941	4.00	37000	7.8	25.5	--	6.7	92	--
08...	0943	8.00	40500	7.8	26.0	--	6.5	92	--
08...	0945	16.0	40500	7.7	26.0	--	6.1	86	2.5
NOV									
23...	1405	1.00	5820	8.3	20.0	.20	8.1	91	1.2
23...	1406	5.00	6200	8.2	20.0	--	8.1	91	--
23...	1407	11.0	30200	8.0	21.5	--	6.4	81	1.5
APR , 1982									
20...	0844	1.00	7100	8.1	25.0	.30	7.3	90	2.0
20...	0846	6.50	20100	7.7	27.0	--	6.1	82	--
20...	0848	13.0	32900	7.5	27.5	--	5.0	71	--

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
18...	.000	.010	.010	.010	.78	.79	.80	.120
18...	--	--	--	--	--	--	--	--
18...	.050	.010	.060	.370	.73	1.1	1.2	.080
APR , 1979								
18...	.980	.020	1.00	.040	.65	.69	1.7	.100
18...	--	--	--	--	--	--	--	--
18...	.500	.040	.540	.510	.99	1.5	2.0	.090
OCT								
25...	.100	.040	.140	.200	.72	.92	1.1	.070
25...	--	--	--	--	--	--	--	--
25...	.200	.020	.220	.680	.62	1.3	1.5	.080
APR , 1980								
17...	.500	.030	.530	.070	.77	.84	1.4	.090
17...	--	--	--	--	--	--	--	--
17...	.080	.020	.100	.320	.78	1.1	1.2	.110
OCT								
17...	.330	.010	.340	.050	.82	.87	1.2	.060
17...	.260	.010	.270	.170	.38	.55	.82	.080
APR , 1981								
08...	.200	.020	.220	.170	.83	1.0	1.2	.090
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	.120	.020	.140	.430	2.0	2.4	2.5	.170
NOV								
23...	.260	.030	.290	.130	.61	.74	1.0	.070
23...	--	--	--	--	--	--	--	--
23...	.120	.050	.170	.320	.88	1.2	1.4	.050
APR , 1982								
20...	.410	.020	.430	.120	1.2	1.3	1.7	.100
20...	--	--	--	--	--	--	--	--
20...	.210	.020	.230	.880	1.4	2.3	2.5	.080

Table 3.--Quality of water in the Brazos estuary, water years 1979-83--Continued

285430095231100 LINE 138 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
18...	1350	1.00	28000	8.2	26.5	.80	8.3	116
18...	1351	5.00	39000	8.1	26.5	--	5.3	77
18...	1352	8.00	40000	8.0	26.5	--	4.8	71
18...	1353	17.0	42000	7.9	26.0	--	6.5	95
APR , 1979								
18...	1132	1.00	5800	9.0	25.0	--	7.0	88
18...	1135	10.0	12000	8.9	25.0	--	6.4	83
18...	1137	21.0	13000	8.2	24.0	--	6.4	80
OCT								
25...	1744	1.00	18000	7.6	26.0	--	7.3	94
25...	1746	10.0	34000	7.6	25.0	--	4.2	56
25...	1748	20.0	37000	7.8	25.0	--	5.2	71
APR , 1980								
17...	1356	1.00	16500	7.7	22.5	.40	7.6	91
17...	1358	10.0	35500	7.5	22.5	--	5.7	74
17...	1400	20.0	46500	8.0	19.5	--	6.9	88
OCT								
17...	1013	1.00	40000	7.6	28.5	.70	4.6	68
17...	1015	20.0	41000	7.8	27.5	--	4.8	70
APR , 1981								
08...	0924	1.00	41000	8.0	24.0	.50	7.5	102
08...	0926	5.00	42500	8.0	24.0	--	7.4	101
08...	0928	10.0	43500	8.0	22.0	--	7.8	103
08...	0930	19.0	44000	8.1	22.0	--	7.5	100
NOV								
23...	1345	1.00	12100	8.1	20.5	.40	7.5	87
23...	1347	10.0	30700	8.1	21.0	--	6.2	77
23...	1349	21.0	43000	8.3	20.5	--	5.8	76
APR , 1982								
20...	0820	1.00	11500	8.1	25.0	.30	7.7	97
20...	0822	10.0	29400	7.6	26.5	--	5.2	72
20...	0824	21.0	35800	7.8	23.5	--	4.4	59

285407095221900 LINE 145 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
18...	1324	1.00	38000	8.1	24.0	.60	6.9	98
18...	1325	16.0	39000	8.1	24.5	--	6.3	90
APR , 1979								
18...	1105	1.00	10000	7.8	24.0	--	6.5	82
18...	1107	6.00	11000	7.8	24.0	--	6.6	83
18...	1109	13.0	11000	7.6	24.0	--	6.1	77
OCT								
25...	1806	1.00	33000	7.9	23.5	--	7.4	96
25...	1810	8.00	36000	7.9	23.5	--	7.1	93
25...	1812	16.0	31000	7.9	23.5	--	7.2	93
APR , 1980								
17...	1511	1.00	28000	7.7	23.5	.30	7.6	97
17...	1513	7.50	32000	7.7	22.0	--	6.9	87
17...	1515	15.0	37500	7.8	21.0	--	6.8	86
OCT								
17...	0956	1.00	42000	7.8	26.5	.20	5.6	81
17...	0958	13.0	42000	7.8	26.5	--	5.5	79
APR , 1981								
08...	0841	1.00	40500	7.9	23.5	.30	--	--
08...	0843	8.00	41000	7.8	23.5	--	--	--
08...	0845	16.0	41000	7.8	23.0	--	--	--
NOV								
23...	1520	1.00	25000	8.0	20.5	.20	6.5	79
23...	1522	7.00	29600	8.0	19.5	--	5.9	71
23...	1524	14.0	34500	8.1	19.5	--	5.7	70
APR , 1982								
20...	0758	1.00	27700	7.8	25.0	.20	5.9	79
20...	0800	7.50	28000	7.8	25.0	--	5.8	77
20...	0802	15.0	28200	7.8	25.0	--	5.6	75

Table 3.--Quality of water in the Brazos estuary, water years 1979-83--Continued

285355095235300 LINE 155 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
18...	1335	1.00	39000	8.0	22.0	.60	6.6	90
18...	1336	16.0	39000	8.0	22.0	--	6.3	87
APR , 1979								
18...	1119	1.00	13000	7.8	23.0	--	6.8	83
18...	1121	7.00	15000	7.8	22.5	--	6.6	82
18...	1124	13.0	20000	7.8	24.5	--	6.3	83
OCT								
25...	1556	1.00	33000	7.9	23.5	--	7.2	94
25...	1600	8.00	34000	7.9	23.0	--	7.0	90
25...	1604	17.0	34000	7.9	23.0	--	6.9	89
APR , 1980								
17...	1341	1.00	30500	8.0	23.5	.30	8.2	106
17...	1343	9.00	35500	7.9	21.5	--	7.4	94
OCT								
17...	1128	1.00	43000	7.9	26.0	.10	6.5	93
17...	1130	13.0	43000	7.9	26.0	--	6.5	93
APR , 1981								
08...	0906	1.00	42000	8.0	21.5	.40	7.2	93
08...	0908	9.00	44500	8.0	22.5	--	7.1	94
08...	0910	18.0	43500	8.0	22.0	--	7.1	93
NOV								
23...	1330	1.00	28500	8.2	21.0	.10	6.8	84
23...	1332	10.0	28500	8.2	20.5	--	6.8	83
APR , 1982								
20...	0808	1.00	32300	7.9	24.0	.20	6.4	85
20...	0810	7.50	32500	7.9	24.0	--	6.4	85
20...	0812	15.0	32400	7.9	24.0	--	6.4	85

284955095212000 LINE 903 SITE 31

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
18...	1501	2.00	44000	8.1	22.5	.80	7.0	98
18...	1502	10.0	46000	8.1	22.0	--	6.7	94
18...	1503	29.0	45000	8.2	22.5	--	6.8	96

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
18...	.010	.010	.020	.010	.53	.54	.56	.050
18...	--	--	--	--	--	--	--	--
18...	.020	<.010	.020	.010	.34	.35	.37	.050

Table 4.--Quality of water in the East Matagorda estuary, water years 1979-83

284349095433000 LINE 058 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
19...	0837	1.00	35000	8.3	19.5	--	7.0	93
19...	0838	4.00	35000	8.4	18.5	--	7.1	91
APR , 1979								
19...	0822	1.00	22000	7.5	23.0	--	6.7	87
19...	0825	3.00	21000	7.4	23.0	--	6.1	80
OCT								
25...	1347	1.00	38300	8.1	20.0	--	8.6	104
25...	1350	3.00	38300	8.1	20.5	--	8.7	109
APR , 1980								
17...	1239	1.00	29200	8.1	22.5	.40	8.2	103
17...	1241	2.50	33000	8.0	21.5	--	7.9	99
OCT								
16...	1448	1.00	41000	8.1	25.0	.30	7.8	109
16...	1450	4.00	42000	8.1	25.0	--	7.6	107
APR , 1981								
07...	1053	1.00	46000	--	21.5	.20	8.0	106
07...	1055	3.00	47000	--	21.5	--	7.8	104
NOV								
23...	1235	1.00	28700	8.4	20.5	.20	8.0	98
23...	1237	3.00	28600	8.4	20.5	--	8.0	98
APR , 1982								
19...	1220	1.00	28700	7.9	24.5	.20	7.1	94
19...	1222	4.00	28600	7.9	25.0	--	6.9	92

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
19...	.010	<.010	.010	.010	.67	.68	.69	.080
19...	--	--	--	--	--	--	--	--
APR , 1979								
19...	.260	.080	.340	.150	.55	.70	1.0	.100
19...	--	--	--	--	--	--	--	--
OCT								
25...	-.010	.020	.010	.020	.98	1.0	1.0	.050
25...	--	--	--	--	--	--	--	--
APR , 1980								
17...	.110	.020	.130	.070	.50	.57	.70	.060
17...	--	--	--	--	--	--	--	--
OCT								
16...	.000	.000	.000	.010	.99	1.0	1.0	.090
16...	--	--	--	--	--	--	--	--
APR , 1981								
07...	.010	.000	.010	.030	.94	.97	.98	.080
07...	--	--	--	--	--	--	--	--
NOV								
23...	--	<.030	<.090	.080	.91	.99	--	.060
23...	--	--	--	--	--	--	--	--
APR , 1982								
19...	--	.020	<.100	.060	1.0	1.1	--	.030
19...	--	--	--	--	--	--	--	--

284123095490200 LINE 074 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
19...	0907	1.00	34000	8.3	20.0	--	7.1	92
19...	0908	5.00	34000	8.3	20.0	--	7.1	93
APR , 1979								
19...	0850	1.00	24000	7.6	23.0	--	6.6	87
19...	0852	4.00	24000	7.6	23.5	--	6.3	83
OCT								
25...	1316	1.00	31000	8.1	20.0	--	8.7	105
25...	1320	3.00	29500	8.1	20.0	--	8.7	105
APR , 1980								
17...	1158	1.00	29000	8.1	21.5	.50	7.7	95
17...	1200	4.50	28500	8.1	21.0	--	8.1	99

Table 4.--Quality of water in the East Matagorda estuary, water years 1979-83--Continued

284123095490200 LINE 074 SITE 01--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1980								
16...	1410	1.00	41000	8.2	24.5	.30	7.2	100
16...	1412	4.00	41000	8.2	24.5	--	7.2	100
APR , 1981								
07...	1118	1.00	45000	--	23.0	.10	7.9	107
07...	1120	3.50	45000	--	24.0	--	7.7	106
NOV								
23...	1200	1.00	25500	8.5	19.5	.30	8.2	97
23...	1202	2.50	25300	8.5	19.5	--	8.2	97
APR , 1982								
19...	1145	1.00	29500	8.0	24.5	.20	7.1	95
19...	1147	3.50	29700	8.0	24.5	--	7.1	95

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
19...	.010	<.010	.010	.010	.99	1.0	1.0	.090
19...	--	--	--	--	--	--	--	--
APR , 1979								
19...	.030	.020	.050	.050	.51	.56	.61	.050
19...	--	--	--	--	--	--	--	--
OCT								
25...	-.010	.020	.010	.010	.61	.62	.63	.050
25...	--	--	--	--	--	--	--	--
APR , 1980								
17...	.000	.010	.010	.070	.75	.82	.83	.040
17...	--	--	--	--	--	--	--	--
OCT								
16...	.000	.000	.000	.010	1.1	1.1	1.1	.080
16...	--	--	--	--	--	--	--	--
APR , 1981								
07...	.020	.000	.020	.050	.77	.82	.84	.070
07...	--	--	--	--	--	--	--	--
NOV								
23...	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--
APR , 1982								
19...	--	<.020	<.100	.060	.90	.96	--	.030
19...	--	--	--	--	--	--	--	--

284219095492900 LINE 074 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
19...	0915	1.00	33000	8.2	20.0	--	7.3	94
19...	0916	3.00	33000	8.3	20.0	--	7.3	94
APR , 1979								
19...	0840	1.00	22000	7.6	23.5	--	6.8	88
19...	0842	3.00	22000	7.6	24.0	--	6.4	84
OCT								
25...	1325	1.00	27000	8.2	20.0	--	8.8	105
25...	1327	3.00	27000	8.1	20.0	--	8.8	105
APR , 1980								
17...	1204	1.00	27500	8.2	21.0	.50	8.4	102
17...	1206	4.00	28000	8.2	21.0	--	8.5	103
OCT								
16...	1420	1.00	38000	8.2	25.0	.20	7.2	99
16...	1422	5.00	38000	8.1	25.0	--	7.0	97
APR , 1981								
07...	1123	1.00	43500	--	22.5	.20	7.9	106
07...	1125	3.00	43500	--	23.0	--	7.9	107
NOV								
23...	1205	1.00	24100	8.5	19.5	.30	8.4	99
23...	1207	5.00	24300	8.5	19.5	--	8.4	99
APR , 1982								
19...	1151	1.00	28400	8.0	24.0	.20	7.1	93
19...	1153	4.00	28600	8.0	24.5	--	7.0	93

Table 4.--Quality of water in the East Matagorda estuary, water years 1979-83--Continued

284331095500300 LINE 074 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
19...	0934	1.00	33000	8.3	20.0	--	7.5	96
19...	0935	4.00	33000	8.3	19.5	--	7.5	95
APR , 1979								
19...	0900	1.00	25000	7.6	23.5	--	6.8	89
19...	0901	4.00	25000	7.6	23.5	--	6.4	84
OCT								
25...	1328	1.00	24000	8.1	20.5	--	8.8	104
25...	1331	3.00	28000	8.1	20.5	--	8.7	105
APR , 1980								
17...	1215	1.00	26500	8.1	22.0	.30	8.5	104
17...	1217	2.50	26500	8.2	22.0	--	9.8	120
OCT								
16...	1433	1.00	38000	8.1	25.0	.10	7.0	97
16...	1435	4.00	38000	8.1	25.0	--	7.0	97
APR , 1981								
07...	1133	1.00	43000	--	22.5	.20	7.8	104
07...	1135	3.00	44000	--	23.5	--	7.7	105
NOV								
23...	1215	1.00	20400	8.4	20.5	.40	8.6	102
23...	1217	3.50	20500	8.5	20.5	--	8.5	101
APR , 1982								
19...	1200	1.00	24800	8.0	24.0	.30	7.2	93
19...	1202	3.50	24900	8.0	24.5	--	7.2	94

284208095525600 LINE 084 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT , 1978											
19...	0951	1.00	34700	8.1	20.5	--	7.7	96	--	4100	--
19...	0952	4.50	36000	8.1	20.0	--	7.4	96	--	--	--
APR , 1979											
19...	0920	1.00	24000	7.7	23.0	--	6.7	88	--	--	--
19...	0922	4.00	25000	7.7	23.5	--	6.4	84	--	--	--
OCT											
25...	1147	1.00	13400	8.4	19.5	--	9.1	102	--	1400	1300
25...	1150	3.00	13000	8.4	19.5	--	9.0	101	--	--	--
APR , 1980											
17...	1102	1.00	27000	8.2	21.5	.20	9.4	115	.9	3100	3000
17...	1104	3.00	27000	8.1	20.5	--	8.0	96	--	--	--
OCT											
16...	1236	1.00	40000	8.1	25.0	.00	6.7	94	1.1	5000	4900
16...	1238	4.00	40000	8.1	25.0	--	6.7	93	--	--	--
APR , 1981											
07...	1158	1.00	40000	--	23.0	.00	7.7	102	2.6	4700	4500
07...	1200	3.00	39000	--	23.0	--	7.7	102	--	--	--
NOV											
23...	1055	1.00	21900	8.5	19.0	.30	8.7	101	3.2	2400	2300
23...	1057	3.00	21700	8.5	19.0	--	8.8	102	--	--	--
APR , 1982											
19...	1047	1.00	25800	8.0	24.0	.20	7.4	96	1.7	3000	2800
19...	1049	3.00	26000	8.0	24.0	--	7.4	96	--	--	--

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978											
19...	270	820	7200	50	280	--	--	--	1900	11000	.60
19...	--	--	--	--	--	--	--	--	--	--	--
APR , 1979											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
OCT											
25...	100	290	2500	29	110	130	107	0	620	4400	.40
25...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
17...	210	630	5600	44	200	160	130	0	1800	10000	.70
17...	--	--	--	--	--	--	--	--	--	--	--

Table 4.--Quality of water in the East Matagorda estuary, water years 1979-83--Continued

284208095525600 LINE 084 SITE 03--Continued

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT , 1980											
16...	350	1000	8600	53	330	--	138	--	1900	16000	.70
16...	--	--	--	--	--	--	--	--	--	--	--
APR , 1981											
07...	310	950	7400	47	270	--	140	--	2000	14000	.60
07...	--	--	--	--	--	--	--	--	--	--	--
NOV											
23...	170	480	4000	36	150	--	120	--	950	7800	.50
23...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
19...	220	590	4900	39	150	--	180	--	1100	9000	.60
19...	--	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT , 1978										
19...	7.1	--	.010	<.010	.010	.010	.85	.86	.87	.070
19...	--	--	--	--	--	--	--	--	--	--
APR , 1979										
19...	--	--	.000	.040	.040	.070	.65	.72	.76	.110
19...	--	--	--	--	--	--	--	--	--	--
OCT										
25...	5.1	8100	-.010	.020	.010	.010	.65	.66	.67	.060
25...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
17...	4.4	19000	.000	.000	.000	.030	.50	.53	.53	.050
17...	--	--	--	--	--	--	--	--	--	--
OCT										
16...	5.4	28000	.000	.000	.000	.010	2.7	2.7	2.7	.170
16...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
07...	.3	25000	.010	.000	.010	.040	1.6	1.6	1.6	.190
07...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	6.3	14000	--	<.030	<.090	.100	1.0	1.1	--	.060
23...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
19...	1.2	16000	--	<.020	<.100	<.060	--	.92	--	.050
19...	--	--	--	--	--	--	--	--	--	--

283852095545100 LINE 094 SITE 01

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT , 1978								
19...	1021	1.00	35000	8.0	20.5	--	7.4	96
19...	1022	5.00	35000	8.0	20.5	--	7.4	96
APR , 1979								
19...	0953	1.00	26000	8.6	23.5	--	6.8	90
19...	0955	4.00	26000	8.8	23.5	--	6.3	84
OCT								
25...	1245	1.00	14000	8.0	20.0	--	8.4	95
25...	1247	5.00	14000	8.0	20.0	--	8.2	93
APR , 1980								
17...	1128	1.00	27000	8.0	21.0	.60	8.1	98
17...	1130	4.00	27000	8.0	21.0	--	8.0	97
OCT								
16...	1329	1.00	45000	8.1	25.0	.30	6.9	98
16...	1331	5.00	45000	8.1	25.0	--	6.7	95
APR , 1981								
07...	1238	1.00	42500	--	23.5	.10	7.4	100
07...	1240	4.00	43000	--	23.5	--	7.2	98
NOV								
23...	1135	1.00	24400	8.2	19.0	.20	8.2	96
23...	1137	4.50	24200	8.2	19.0	--	8.1	95
APR , 1982								
19...	1116	1.00	28500	8.0	24.0	.30	6.6	87
19...	1118	4.00	28000	7.9	24.5	--	6.6	87

Table 4.--Quality of water in the East Matagorda estuary, water years 1979-83--Continued

284000095545700 LINE 094 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT , 1978											
19...	1013	1.00	35000	8.1	20.5	--	7.4	96	--	--	--
19...	1014	4.50	35000	8.1	20.5	--	7.4	96	--	--	--
APR , 1979											
19...	0945	1.00	23000	7.7	23.5	--	6.9	89	--	160	28
19...	0946	4.00	23000	7.7	23.5	--	6.6	86	--	--	--
OCT											
25...	1235	1.00	13200	8.1	20.0	--	9.3	105	2.3	--	--
25...	1238	4.00	13300	8.1	20.5	--	9.1	104	--	--	--
APR , 1980											
17...	1119	1.00	26800	8.0	21.0	.40	8.0	97	--	--	--
17...	1121	4.00	26800	8.0	20.5	--	7.8	93	--	--	--
OCT											
16...	1326	1.00	46000	8.1	25.0	.20	6.6	94	--	--	--
16...	1328	5.00	46000	8.0	25.0	--	6.7	96	--	--	--
APR , 1981											
07...	1233	1.00	40500	--	23.5	.20	7.2	97	--	--	--
07...	1235	3.50	41000	--	23.5	--	7.2	97	--	--	--
NOV											
23...	1125	1.00	22800	8.3	19.0	.30	8.3	97	--	--	--
23...	1127	4.50	22800	8.3	19.0	--	8.3	97	--	--	--
APR , 1982											
19...	1108	1.00	26400	8.0	24.0	.20	6.8	89	--	--	--
19...	1110	5.00	26400	8.0	24.5	--	6.9	91	--	--	--

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
APR , 1979											
19...	51	7.7	31	1	4.5	160	131	0	42	43	.30
19...	--	--	--	--	--	--	--	--	--	--	--
OCT											
25...	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
17...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
OCT											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
APR , 1981											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
NOV											
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
19...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978										
19...	--	--	.020	<.010	.020	.010	.43	.44	.46	.070
19...	--	--	--	--	--	--	--	--	--	--
APR , 1979										
19...	22	280	-.020	.080	.060	.060	.61	.67	.73	.070
19...	--	--	--	--	--	--	--	--	--	--
OCT										
25...	--	--	-.010	.020	.010	.010	.70	.71	.72	.050
25...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
17...	--	--	.010	.010	.020	.100	.76	.86	.88	.050
17...	--	--	--	--	--	--	--	--	--	--
OCT										
16...	--	--	.000	.000	.000	.010	1.6	1.6	1.6	.110
16...	--	--	--	--	--	--	--	--	--	--

Table 5.--Quality of water in the Colorado estuary, water years 1979-83

284255095583500 LINE 081 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT , 1978											
18...	1322	1.00	6140	8.4	24.5	--	8.0	100	730	--	93
18...	1323	17.0	43000	8.2	25.0	--	3.6	53	--	--	--
18...	1324	32.0	43000	8.2	25.0	--	4.1	60	--	--	--
APR , 1979											
19...	1042	1.00	1300	8.8	22.5	--	6.8	81	270	77	70
19...	1046	17.0	23000	8.3	21.0	--	4.4	55	--	--	--
19...	1050	33.0	29000	8.2	21.5	--	4.5	58	--	--	--
OCT											
25...	0955	1.00	7030	8.2	22.0	--	7.5	86	770	530	110
25...	0959	10.0	42000	8.0	25.0	--	4.7	65	--	--	--
25...	1002	20.0	45800	8.0	24.0	--	4.9	68	--	--	--
25...	1005	31.0	47000	8.0	24.0	--	4.4	61	--	--	--
APR , 1980											
17...	0945	1.00	8500	8.1	20.5	.60	9.7	109	910	720	100
17...	0946	7.50	25000	7.8	18.5	--	6.6	75	--	--	--
17...	0948	15.0	38000	7.7	18.0	--	5.0	60	--	--	--
17...	0950	25.0	41500	7.8	18.0	--	4.4	53	--	--	--
17...	0952	33.0	41000	7.8	18.0	--	4.4	53	--	--	--
OCT											
16...	1101	1.00	14000	8.3	25.0	.40	7.8	99	1700	1500	150
16...	1103	7.50	24000	7.9	25.5	--	6.4	84	--	--	--
16...	1105	15.0	43000	7.9	25.0	--	2.3	32	--	--	--
16...	1107	30.0	41000	7.9	25.0	--	2.6	36	--	--	--
APR , 1981											
07...	1119	1.00	3570	8.3	22.0	.50	9.5	108	520	360	70
07...	1121	7.50	18000	8.2	21.5	--	7.9	94	--	--	--
07...	1123	15.0	41000	8.1	20.5	--	6.0	76	--	--	--
07...	1125	30.0	46000	8.0	20.0	--	4.1	53	--	--	--
NOV											
23...	1010	1.00	1140	8.5	18.0	.30	8.9	94	270	66	65
23...	1012	10.0	1360	8.5	18.0	--	8.7	92	--	--	--
23...	1014	20.0	37700	8.1	20.0	--	5.8	73	--	--	--
23...	1016	31.0	38300	8.1	20.0	--	6.2	78	--	--	--
APR , 1982											
19...	1355	1.00	3840	8.3	25.0	.20	7.6	93	560	370	81
19...	1357	10.0	28700	7.9	23.0	--	4.7	61	--	--	--
19...	1359	20.0	37000	7.9	22.5	--	3.3	44	--	--	--
19...	1401	31.0	37100	7.9	22.5	--	3.2	42	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978										
18...	120	910	15	37	--	--	--	270	1400	.40
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
APR , 1979										
19...	24	100	3	6.4	240	197	0	57	180	.30
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
OCT										
25...	120	1200	19	49	290	238	0	340	2000	.40
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
17...	160	1400	20	57	230	189	0	340	2500	.50
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
OCT										
16...	320	2500	27	110	--	179	--	650	4900	.50
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
07...	83	560	11	22	--	160	--	190	1000	.30
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	25	97	3	6.4	--	200	--	58	170	.30
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--

Table 4.--Quality of water in the East Matagorda estuary, water years 1979-83--Continued

284000095545700 LINE 094 SITE 02--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
APR , 1981										
07...	--	--	.000	.000	.000	.020	1.1	1.1	1.1	.100
07...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	--	--	--	<.030	<.090	.080	.79	.87	--	.070
23...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
19...	--	--	--	<.020	<.100	<.060	--	.89	--	.040
19...	--	--	--	--	--	--	--	--	--	--

284115095550400 LINE 094 SITE 03

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT , 1978								
19...	1007	1.00	35000	8.1	20.0	--	7.4	96
19...	1008	4.00	35000	8.2	20.0	--	7.4	96
APR , 1979								
19...	0933	1.00	21000	7.6	23.5	--	6.5	84
19...	0936	3.00	21000	7.7	23.0	--	6.3	82
OCT								
25...	1200	1.00	13500	8.3	19.5	--	9.2	103
25...	1203	3.00	13700	8.3	20.0	--	9.1	103
APR , 1980								
17...	1113	1.00	27000	8.0	21.0	.30	8.2	99
17...	1115	2.00	27000	8.0	21.0	--	8.2	99
OCT								
16...	1248	1.00	44000	8.1	25.0	.60	6.7	95
16...	1250	4.00	44000	8.1	25.0	--	6.7	95
APR , 1981								
07...	1223	1.00	40000	--	23.5	.00	7.1	95
07...	1225	3.00	41000	--	23.5	--	7.2	97
NOV								
23...	1115	1.00	22700	8.4	20.0	.20	8.1	96
23...	1117	2.00	22800	8.4	20.0	--	8.1	96
APR , 1982								
19...	1057	1.00	25200	8.1	24.0	.10	7.5	97
19...	1059	3.00	25500	8.0	24.0	--	7.3	95

Table 5.--Quality of water in the Colorado estuary, water years 1979-83--Continued

284255095583500 LINE 081 SITE 02--Continued

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
APR , 1982										
19...	87	590	11	22	--	190	--	190	1100	.40
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978										
18...	7.2	--	.050	.040	.090	.010	.48	.49	.58	.100
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	.010	.020	.030	.200	.37	.57	.60	.060
APR , 1979										
19...	8.4	560	.830	.020	.850	.030	.42	.45	1.3	.180
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	.170	.080	.250	.530	.77	1.3	1.6	.140
OCT										
25...	7.5	4000	.000	.080	.080	.080	.76	.84	.92	.060
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	-.110	.260	.150	.160	.44	.60	.75	.050
APR , 1980										
17...	12	4700	.880	.050	.930	.010	.55	.56	1.5	.180
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	.140	.020	.160	.110	.38	.49	.65	.070
OCT										
16...	8.9	8700	.060	.050	.110	.000	.78	.78	.89	.120
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	.000	.000	.000	.280	.57	.85	.85	.080
APR , 1981										
07...	7.7	2000	.600	.010	.610	.070	.83	.90	1.5	.200
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	.050	.010	.060	.290	.56	.85	.91	.080
NOV										
23...	13	550	--	<.030	.490	<.060	--	.45	.94	.110
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	.060	.030	.090	.120	.81	.93	1.0	.060
APR , 1982										
19...	9.4	2200	.460	.020	.480	.100	.73	.83	1.3	.140
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	<.020	<.100	.360	1.0	1.4	--	.040

284038095582100 LINE 095 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
18...	1404	1.00	16000	6.4	23.0	--	7.5	95
18...	1405	6.00	28000	8.3	23.0	--	7.2	95
18...	1406	12.0	32000	8.3	24.0	--	6.8	93
APR , 1979								
19...	1126	1.00	4500	8.7	23.5	--	7.0	86
19...	1128	8.00	9500	8.6	23.5	--	6.6	82
19...	1131	16.0	17000	8.4	23.0	--	5.8	74
OCT								
25...	1026	1.00	13500	8.1	22.0	--	7.4	87
25...	1028	10.0	36500	8.0	22.5	--	6.6	86
25...	1030	20.0	48000	8.0	23.0	--	6.3	87
APR , 1980								
17...	0958	1.00	13000	8.1	20.5	1.00	9.3	106
17...	1000	11.0	47000	8.0	19.5	--	7.2	92
17...	1002	22.0	44000	8.0	19.5	--	7.3	92

Table 5.--Quality of water in the Colorado estuary, water years 1979-83--Continued

284038095582100 LINE 095 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1980								
16...	0943	1.00	45000	8.1	25.5	.50	6.1	88
16...	0945	17.0	45000	8.2	25.5	--	5.8	83
APR , 1981								
07...	1040	1.00	10000	8.3	21.0	.70	9.1	104
07...	1042	9.00	36000	8.2	21.0	--	7.4	93
07...	1044	18.0	46000	8.1	20.0	--	6.6	85
NOV								
23...	0935	1.00	4520	8.3	18.0	.40	8.6	92
23...	0937	10.0	17900	8.1	19.0	--	7.5	86
23...	0939	20.0	43500	8.1	20.5	--	6.5	85
APR , 1982								
19...	1405	1.00	14200	8.1	23.0	.40	6.9	85
19...	1407	11.5	38100	8.0	23.0	--	5.7	77
19...	1408	23.0	38800	8.0	23.5	--	5.6	76

283916095574500 LINE 115 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
18...	1416	1.00	17000	8.2	24.5	--	7.3	95
18...	1417	10.0	38000	6.4	24.0	--	6.0	85
18...	1418	20.0	45000	8.3	24.0	--	6.1	88
APR , 1979								
19...	1138	1.00	6600	8.7	23.5	--	7.0	86
19...	1140	8.00	19000	8.5	23.0	--	6.3	81
19...	1142	16.0	21000	8.4	23.0	--	6.1	80
OCT								
25...	1036	1.00	18500	8.1	22.0	--	7.4	89
25...	1038	9.00	42000	8.0	22.5	--	6.5	86
25...	1040	18.0	48000	8.0	22.5	--	6.4	87
APR , 1980								
17...	1008	1.00	24000	8.1	20.0	.80	9.5	111
17...	1010	9.00	48500	8.0	19.5	--	7.5	96
17...	1012	18.0	46500	8.0	19.5	--	7.5	96
OCT								
16...	0936	1.00	46000	8.2	25.5	.30	6.3	91
16...	0938	20.0	46000	8.2	25.5	--	6.3	91
APR , 1981								
07...	1027	1.00	13000	8.3	21.5	.70	9.1	106
07...	1029	9.00	42000	8.2	20.5	--	7.5	96
07...	1031	18.0	48000	8.3	20.0	--	7.3	95
NOV								
23...	0925	1.00	4840	8.3	18.5	.50	8.6	93
23...	0927	10.0	12800	8.1	18.5	--	8.0	89
23...	0929	19.0	44000	8.1	20.5	--	6.8	89
APR , 1982								
19...	1421	1.00	14400	8.0	23.0	.50	6.4	79
19...	1423	10.0	38800	8.0	23.0	--	5.6	75
19...	1425	19.0	39500	8.0	23.5	--	5.7	78

283706095582500 LINE 130 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
OCT , 1978									
18...	1432	1.00	42700	8.2	24.0	--	6.5	92	--
18...	1433	10.0	44000	6.5	23.5	--	6.4	92	--
18...	1434	20.0	45100	6.5	23.5	--	6.4	92	--
APR , 1979									
19...	1148	1.00	13000	8.6	23.0	--	6.8	85	--
19...	1152	9.00	25000	8.4	23.0	--	6.6	87	--
19...	1155	18.0	25000	8.4	23.5	--	6.5	86	--

Table 5.--Quality of water in the Colorado estuary, water years 1979-83--Continued

283706095582500 LINE 130 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
OCT , 1979									
25...	1050	1.00	20400	8.0	22.0	--	7.3	88	1.4
25...	1053	9.00	47000	8.1	22.5	--	6.5	88	--
25...	1055	18.0	47400	8.1	22.5	--	6.5	88	1.1
APR , 1980									
17...	1020	1.00	49000	8.0	20.0	.40	7.8	101	.3
17...	1023	7.00	49000	8.1	20.0	--	7.8	101	--
17...	1025	14.0	49000	8.1	20.0	--	7.4	96	.0
OCT									
16...	0905	1.00	46000	8.1	25.0	.30	6.1	87	1.2
16...	0907	20.0	46000	8.1	25.0	--	6.1	87	1.4
APR , 1981									
07...	1006	1.00	31000	8.1	21.5	.70	8.2	102	1.8
07...	1008	11.0	48000	8.3	20.0	--	8.1	105	--
07...	1010	22.0	48000	8.2	20.0	--	7.6	99	1.8
NOV									
23...	0906	1.00	38500	8.3	18.5	.40	7.6	93	.0
23...	0908	10.0	29400	8.1	20.0	--	7.2	88	--
23...	0910	22.0	45200	8.2	21.0	--	6.3	83	.0
APR , 1982									
19...	1432	1.00	28300	8.1	24.5	.50	7.0	93	2.3
19...	1433	12.0	38100	8.1	24.0	--	6.8	93	--
19...	1435	24.0	38700	8.1	24.0	--	6.8	93	2.1

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
18...	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--
APR , 1979								
19...	.510	.190	.700	.110	.70	.81	1.5	.170
19...	--	--	--	--	--	--	--	--
19...	.190	.160	.350	.160	.60	.76	1.1	.220
OCT								
25...	.000	.060	.060	.050	.74	.79	.85	.050
25...	--	--	--	--	--	--	--	--
25...	-.010	.040	.030	.070	.43	.50	.53	.040
APR , 1980								
17...	.000	.000	.000	.070	.33	.40	.40	.040
17...	--	--	--	--	--	--	--	--
17...	-.010	.010	.000	.090	.38	.47	.47	.060
OCT								
16...	.000	.000	.000	.020	1.2	1.2	1.2	.060
16...	.000	.000	.000	.010	.52	.53	.53	.060
APR , 1981								
07...	.250	.010	.260	.020	.89	.91	1.2	.110
07...	--	--	--	--	--	--	--	--
07...	.010	.000	.010	.020	.66	.68	.69	.070
NOV								
23...	--	<.030	.440	<.060	--	.74	1.2	.090
23...	--	--	--	--	--	--	--	--
23...	--	.040	<.090	.140	.45	.59	--	.100
APR , 1982								
19...	--	<.020	.230	.120	.64	.76	.99	.050
19...	--	--	--	--	--	--	--	--
19...	.100	.030	.130	.120	.37	.49	.62	.090

284149095563300 LINE 164 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
18...	1506	1.00	32000	8.3	21.5	--	7.5	98
18...	1507	8.50	32000	8.3	21.5	--	7.3	96
18...	1508	17.0	32000	8.3	21.5	--	7.2	95
19...	0804	1.00	34000	8.4	20.0	--	7.1	92
19...	0805	8.50	35000	8.5	20.5	--	7.2	94
19...	0806	17.0	38000	8.5	19.0	--	7.2	92

Table 5.--Quality of water in the Colorado estuary, water years 1979-83--Continued

284149095563300 LINE 164 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
19...	1015	1.00	19000	8.5	23.5	--	6.6	84
19...	1017	8.00	19000	8.5	23.5	--	6.2	80
19...	1020	16.0	19000	8.5	23.5	--	6.5	83
OCT								
25...	1126	1.00	14000	8.2	20.0	--	8.1	92
25...	1130	6.00	17000	8.1	21.0	--	7.6	89
25...	1134	13.0	24500	8.0	21.5	--	7.0	85
APR , 1980								
17...	1046	1.00	23000	8.0	20.0	.60	8.7	102
17...	1048	8.00	26000	7.9	19.0	--	7.8	90
17...	1050	16.0	35000	7.9	19.0	--	6.8	82
OCT								
16...	1123	1.00	34000	8.1	25.0	.30	6.4	87
16...	1125	16.0	31000	8.1	25.0	--	6.5	87
APR , 1981								
07...	1006	1.00	37000	--	21.5	.10	6.9	88
07...	1008	8.00	37500	--	21.5	--	6.9	88
07...	1010	16.0	37500	--	22.0	--	6.4	83
NOV								
23...	1035	1.00	14800	8.2	20.0	.20	7.8	90
23...	1037	8.00	14900	8.1	19.5	--	7.7	88
23...	1039	17.0	15700	8.1	8.0	--	6.7	60
APR , 1982								
19...	1310	1.00	27000	7.9	24.5	.10	5.9	78
19...	1311	7.00	27200	7.9	24.0	--	5.6	73
19...	1312	14.0	26700	7.9	24.5	--	5.6	74

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
18...	.010	<.010	.010	.010	.63	.64	.65	.080
18...	--	--	--	--	--	--	--	--
18...	.020	<.010	.020	.020	.70	.72	.74	.100
19...	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--
APR , 1979								
19...	.120	.100	.220	.160	.72	.88	1.1	.110
19...	--	--	--	--	--	--	--	--
19...	.060	.160	.220	.170	.79	.96	1.2	.110
OCT								
25...	-.010	.020	.010	.060	.65	.71	.72	.080
25...	--	--	--	--	--	--	--	--
25...	.020	.000	.020	.080	.63	.71	.73	.110
APR , 1980								
17...	.310	.030	.340	.070	.53	.60	.94	.080
17...	--	--	--	--	--	--	--	--
17...	.280	.030	.310	.090	.37	.46	.77	.080
OCT								
16...	.010	.020	.030	.030	.57	.60	.63	.080
16...	.010	.020	.030	.040	.83	.87	.90	.080
APR , 1981								
07...	.000	.000	.000	.020	.82	.84	.84	.080
07...	--	--	--	--	--	--	--	--
07...	.000	.000	.000	.030	1.1	1.1	1.1	.160
NOV								
23...	--	<.030	.330	.060	.70	.76	1.1	.120
23...	--	--	--	--	--	--	--	--
23...	.300	.030	.330	.090	.58	.67	1.0	.100
APR , 1982								
19...	--	<.020	<.100	.210	1.5	1.7	--	.070
19...	--	--	--	--	--	--	--	--
19...	--	<.020	<.100	.220	1.4	1.6	--	.140

Table 5.--Quality of water in the Colorado estuary, water years 1979-83--Continued

283944096003300 LINE 176 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRATE TOTAL (MG/L AS N)
MAR , 1979								
27...	1130	1.00	10500	7.7	20.5	7.6	90	.120
27...	1132	5.00	11000	7.7	20.5	7.4	89	--
27...	1725	1.00	8000	7.8	21.5	7.6	91	--
27...	1727	4.00	8000	7.8	22.5	7.5	92	--
28...	1730	1.00	8000	7.8	21.5	7.7	92	.080
28...	1732	4.00	8500	7.8	21.5	7.7	92	--

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAR , 1979							
27...	.020	.140	.010	.57	.58	.72	.090
27...	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--
28...	.020	.100	.010	.61	.62	.72	.110
28...	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83

[UMHOS, micromhos per centimeter at 25° Celsius; DEG C, degrees Celsius; M, meters; MG/L, milligrams per liter; UG/L, micrograms per liter; UG/KG, micrograms per kilogram]

285003096352400 LINE 017 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)
OCT , 1978										
04...	1035	1.00	754	7.7	24.5	--	6.8	83	--	--
04...	1036	12.0	798	7.8	24.5	--	6.6	81	--	--
MAY , 1979										
15...	1040	1.00	240	7.5	22.0	--	5.7	67	--	--
15...	1041	5.00	240	7.6	22.0	--	5.7	67	--	--
15...	1042	12.0	240	7.6	22.5	--	5.7	67	--	--
OCT										
23...	0950	1.00	766	8.1	23.5	--	7.0	81	1.6	--
23...	0955	7.00	767	8.1	23.5	--	7.0	81	1.6	--
APR , 1980										
16...	0935	1.00	1180	8.4	18.5	.60	10.0	105	1.3	--
16...	0937	5.00	1150	8.4	18.5	--	9.8	103	--	--
16...	0938	9.00	2400	8.2	18.0	--	8.0	84	1.1	--
OCT										
07...	1145	1.00	2600	7.8	24.0	.30	5.4	64	1.0	--
07...	1147	5.00	17500	7.5	24.0	--	.3	4	--	--
07...	1150	10.0	19000	7.4	24.0	--	.3	4	1.6	--
APR , 1981										
01...	1009	1.00	14000	8.0	21.5	.80	8.8	102	3.3	--
01...	1011	2.00	13500	8.1	22.0	--	9.3	108	--	--
01...	1013	4.00	23200	7.7	22.0	--	8.6	104	--	--
01...	1015	8.00	25700	7.5	22.0	--	5.8	71	2.4	--
DEC										
01...	1240	1.00	626	8.2	19.5	.30	7.0	76	.9	--
01...	1242	9.00	637	8.2	19.0	--	7.0	76	1.2	--
APR , 1982										
13...	1006	1.00	1800	8.2	21.0	.40	8.1	91	2.6	--
13...	1008	5.00	4000	8.2	21.0	--	7.3	83	--	--
13...	1010	10.0	5700	8.1	21.0	--	6.1	70	2.9	--
NOV										
15...	1426	1.00	7600	8.1	17.0	.40	7.0	73	2.6	990
15...	1428	6.00	15400	8.2	17.5	--	5.9	64	--	--
15...	1430	12.0	17500	8.0	19.0	--	4.2	47	3.3	--
JAN , 1983										
31...	1240	1.00	657	8.0	15.5	.50	9.5	96	1.8	--
31...	1242	7.50	662	8.0	15.0	--	9.2	92	--	--
31...	1244	15.0	671	8.0	14.5	--	9.2	91	2.2	--
MAR										
21...	1446	1.00	414	7.5	17.5	.10	7.6	79	1.8	--
21...	1448	6.00	413	7.5	15.5	--	7.6	76	--	--
21...	1450	13.0	424	7.5	15.5	--	7.7	77	2.2	--
MAY										
16...	1158	1.00	704	7.9	23.0	.20	6.2	72	2.3	--
16...	1159	6.00	801	7.9	24.0	--	6.1	72	--	--
16...	1200	12.0	1390	7.8	23.0	--	6.0	70	1.8	--
JUN										
20...	1232	1.00	496	8.2	29.5	.20	6.2	81	3.6	--
20...	1234	7.00	696	7.9	27.5	--	5.2	66	--	--
20...	1236	14.0	706	7.8	27.5	--	4.5	57	1.9	--

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978										
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
MAY , 1979										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
OCT										
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
OCT										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

285003096352400 LINE 017 SITE 02--Continued

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
APR , 1981										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
DEC										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
NOV										
15...	830	100	180	1400	20	51	160	340	2600	.40
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
JAN , 1983										
31...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--
MAR										
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978										
04...	--	--	.140	.010	.150	.030	.39	.42	.57	.120
04...	--	--	.140	.010	.150	.030	.55	.58	.73	.130
MAY , 1979										
15...	--	--	.250	.080	.330	.100	.73	.83	1.2	.140
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	.230	.060	.290	.060	.71	.77	1.1	.150
OCT										
23...	--	--	.000	.000	.000	.010	.69	.70	.70	.060
23...	--	--	.000	.000	.000	.010	.58	.59	.59	.070
APR , 1980										
16...	--	--	.030	.010	.040	.040	.63	.67	.71	.140
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	.130	.030	.160	.290	1.1	1.4	1.6	.230
OCT										
07...	--	--	.070	.010	.080	.060	1.5	1.6	1.7	.170
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	.000	.000	.000	.530	1.2	1.7	1.7	.240
APR , 1981										
01...	--	--	.000	.010	.010	.020	.90	.92	.93	.150
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	.010	.010	.020	.020	1.2	1.2	1.2	.140
DEC										
01...	--	--	--	<.020	.190	.080	--	<.21	--	.070
01...	--	--	--	<.020	.200	.090	.18	.27	.47	.210
APR , 1982										
13...	--	--	--	<.020	.180	<.060	--	.41	.59	.100
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	<.020	<.100	.140	.41	.55	--	.110
NOV										
15...	9.8	4800	--	<.020	<.100	.100	1.1	1.2	--	.170
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	<.020	<.100	<.060	--	1.6	--	.180
JAN , 1983										
31...	--	--	--	<.020	.300	<.060	--	.80	1.1	.150
31...	--	--	--	--	--	--	--	--	--	--
31...	--	--	.280	.020	.300	.060	.84	.90	1.2	.160
MAR										
21...	--	--	.450	.050	.500	.220	1.1	1.3	1.8	.150
21...	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAR , 1983								
21...	.420	.080	.500	.250	1.1	1.3	1.8	.170

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

285003096352400 LINE 017 SITE 02--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1983								
16...	.250	.050	.300	.340	.56	.90	1.2	.130
16...	--	--	--	--	--	--	--	--
16...	.330	.070	.400	.380	.32	.70	1.1	.130
JUN								
20...	.250	.050	.300	<.060	--	1.8	2.1	.140
20...	--	--	--	--	--	--	--	--
20...	--	.020	<.100	<.060	--	.60	--	.120

285248096344400 LINE 20 SITE 2

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
APR , 1979											
22...	0925	--	--	--	--	--	--	--	--	--	--
22...	1015	2.00	20	6.7	21.5	--	--	--	--	--	--
22...	1700	--	--	--	--	--	--	--	--	--	--
23...	0920	--	--	--	--	--	--	--	--	--	--
23...	0955	1.00	110	5.7	21.0	7.6	87	36	0	12	1.5
23...	1500	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
APR , 1979										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	6.4	.5	3.3	45	37	0	7.9	6.3	.20	22
23...	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	84	.740	.020	.760	.550	.050	.95	1.0	1.8	.140
23...	--	--	--	--	--	--	--	--	--	--

285223096343100 LINE 022 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT , 1978											
04...	1010	1.00	356	7.7	24.5	--	6.6	81	--	--	--
04...	1011	9.00	351	7.6	24.5	--	6.6	81	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

285223096343100 LINE 022 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
MAY , 1979											
15...	1018	1.00	220	7.5	22.5	--	6.4	75	--	83	5
15...	1019	6.00	220	7.5	22.5	--	6.4	75	--	--	--
15...	1020	12.0	220	7.6	22.5	--	6.4	75	--	--	--
OCT											
23...	0925	1.00	677	8.0	24.0	--	6.6	77	1.8	220	9
23...	0930	7.00	689	8.0	23.5	--	6.7	77	1.7	--	--
APR , 1980											
16...	0915	1.00	1350	8.2	18.0	.40	8.5	89	1.1	300	82
16...	0918	7.00	1600	8.1	18.5	--	8.0	84	1.0	--	--
OCT											
07...	1120	1.00	1600	8.2	26.5	.50	7.5	92	1.9	--	--
07...	1130	8.00	16000	7.5	26.5	--	.4	5	1.7	--	--
APR , 1981											
01...	1022	1.00	21900	8.2	21.0	.70	9.1	107	3.4	2500	2300
01...	1023	4.00	22000	8.2	20.5	--	8.8	103	--	--	--
01...	1025	8.00	21900	8.0	21.5	--	4.7	56	1.6	--	--
DEC											
01...	1320	1.00	194	--	19.0	.30	--	--	1.0	57	3
01...	1322	9.00	202	--	19.0	--	--	--	3.0	--	--
APR , 1982											
13...	1029	1.00	1740	8.4	22.0	.50	8.6	99	3.3	250	77
13...	1032	4.50	1780	8.3	22.0	--	8.3	95	--	--	--
13...	1035	9.00	3500	7.9	21.0	--	4.5	51	2.5	--	--
NOV											
15...	1404	1.00	8300	8.3	18.0	.30	8.0	81	3.9	--	--
15...	1406	6.00	11600	8.1	18.5	--	5.8	63	--	--	--
15...	1408	12.0	12800	7.9	19.0	--	5.1	57	3.2	--	--
JAN , 1983											
31...	1200	1.00	361	8.0	16.0	.20	9.8	100	1.3	91	11
31...	1202	6.50	400	7.9	14.0	--	9.9	97	--	--	--
31...	1204	13.0	410	7.9	14.0	--	9.9	96	1.1	--	--
MAR											
21...	1354	1.00	211	7.5	16.5	.10	8.9	90	1.2	59	10
21...	1356	7.00	199	7.4	15.5	--	9.0	90	--	--	--
21...	1358	14.0	210	7.6	15.0	--	8.7	86	1.5	--	--
MAY											
16...	1128	1.00	217	7.6	23.0	.10	7.2	83	1.5	60	2
16...	1130	7.00	212	7.7	22.0	--	7.1	81	--	--	--
16...	1132	15.0	218	7.9	22.0	--	7.0	80	1.3	--	--
JUN											
20...	1204	1.00	295	7.6	28.0	.10	6.2	79	1.9	79	--
20...	1206	8.00	306	7.2	27.5	--	5.3	67	--	--	--
20...	1208	16.0	315	7.2	27.5	--	4.9	62	1.8	--	--

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978											
04...	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
MAY , 1979											
15...	29	2.6	12	.6	3.6	95	78	0	8.5	15	.20
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
OCT											
23...	73	9.6	62	2	4.4	260	213	0	16	90	.30
23...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
16...	88	20	180	5	8.2	270	221	0	50	300	.40
16...	--	--	--	--	--	--	--	--	--	--	--
OCT											
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
APR , 1981											
01...	220	480	4200	37	120	--	210	--	1100	7500	.60
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	18	2.9	17	1	4.4	--	54	--	6.0	30	.20
01...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
13...	56	26	250	7	9.6	--	170	--	54	430	.40
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

285223096343100 LINE 022 SITE 02--Continued

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
JAN , 1983											
31...	28	5.1	33	2	4.2	--	80	--	12	56	.20
31...	--	--	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--	--	--
MAR											
21...	19	2.9	17	1	3.4	--	49	--	10	26	.10
21...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
MAY											
16...	19	3.0	19	1	3.1	--	58	--	11	28	.20

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT , 1978										
04...	--	--	.130	.010	.140	.040	1.6	1.6	1.7	.210
04...	--	--	.120	.010	.130	.040	1.1	1.1	1.2	.220
MAY , 1979										
15...	9.6	130	.230	.060	.290	.100	.89	.99	1.3	.110
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	.210	.060	.270	.100	.90	1.0	1.3	.120
OCT										
23...	31	410	.050	.020	.070	.010	1.1	1.1	1.2	.150
23...	--	--	.040	.020	.060	.010	1.1	1.1	1.2	.140
APR , 1980										
16...	18	800	.560	.050	.610	.090	.91	1.0	1.6	.120
16...	--	--	.560	.040	.600	.120	.88	1.0	1.6	.120
OCT										
07...	--	--	.000	.000	.000	.000	1.3	1.3	1.3	.120
07...	--	--	.000	.000	.000	.650	1.5	2.1	2.1	.350
APR , 1981										
01...	4.7	14000	.020	.020	.040	.070	1.0	1.1	1.1	.680
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	.010	.010	.020	.030	1.1	1.1	1.1	.370
DEC										
01...	11	120	--	<.020	.340	.090	.35	.44	.78	.150
01...	--	--	.320	.020	.340	.080	.51	.59	.93	.330
APR , 1982										
13...	12	940	--	<.020	<.100	.070	.54	.61	--	.300
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
NOV										
15...	--	--	--	<.020	<.100	.060	1.2	1.3	--	.300
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	<.020	<.100	.070	1.3	1.4	--	.180
JAN , 1983										
31...	9.6	200	--	<.020	.500	<.060	--	.90	1.4	.110
31...	--	--	--	--	--	--	--	--	--	--
31...	--	--	.460	.040	.500	.100	1.0	1.1	1.6	.140
MAR										
21...	8.7	120	.820	.080	.900	.240	1.4	1.6	2.5	.140
21...	--	--	--	--	--	--	--	--	--	--
21...	--	--	.830	.070	.900	.200	1.4	1.6	2.5	.170
MAY										
16...	8.2	130	.780	.120	.900	.310	.69	1.0	1.9	.150

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

285223096343100 LINE 022 SITE 02--Continued

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
MAY , 1983										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
JUN										
20...	5	25	4.0	28	1	3.1	74	13	37	.20
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1983										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	.780	.120	.900	.360	.84	1.2	2.1	.150
JUN										
20...	9.2	160	.710	.090	.800	.120	1.3	1.4	2.2	.160
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	.720	.080	.800	.110	.89	1.0	1.8	.140

284921096342100 LINE 041 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)
APR , 1979											
22...	1400	--	--	--	--	--	--	--	--	--	--
22...	1525	1.00	214	--	--	--	--	51	2	18	1.5
22...	1600	20.0	--	--	--	--	--	--	--	--	--
22...	1715	--	--	--	22.0	--	--	--	--	--	--
23...	1205	--	--	--	22.0	--	--	--	--	--	--
23...	1209	--	--	--	22.0	--	--	--	--	--	--
23...	1315	--	143	--	--	--	--	44	1	15	1.6
23...	1320	1.00	120	6.0	22.0	6.6	78	--	--	--	--
23...	1325	18.0	120	6.0	22.5	5.6	66	--	--	--	--
23...	1530	--	--	--	--	--	--	--	--	--	--

DATE	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
APR , 1979										
22...	--	--	--	--	--	--	--	--	--	--
22...	7.3	.5	3.1	60	49	0	10	8.8	.20	6.9
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	7.1	.5	3.0	52	43	0	7.7	7.5	.20	7.9
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

284921096342100 LINE 041 SITE 02--Continued

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
APR , 1979										
22...	--	--	--	--	--	--	--	--	--	--
22...	87	.620	.040	.660	.450	.060	1.2	1.3	2.0	.160
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	78	.670	.060	.730	.550	.070	1.0	1.1	1.8	.140
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--

284516096343400 LINE 065 SITE 02

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT , 1978								
04...	1058	1.00	910	8.0	25.5	--	7.4	92
04...	1059	11.0	1700	7.8	25.5	--	3.7	46
MAY , 1979								
15...	1103	1.00	300	7.6	22.5	--	6.0	71
15...	11D4	8.00	495	7.6	22.5	--	5.9	69
OCT								
23...	1105	1.00	950	8.3	22.0	--	7.7	86
23...	1110	10.0	1100	8.3	22.0	--	7.7	86
APR , 1980								
16...	1039	1.00	16500	8.5	17.0	--	9.6	104
16...	1041	6.00	17000	8.5	17.0	--	9.6	104
16...	1043	12.0	18000	8.3	16.5	--	9.2	99
OCT								
07...	1244	1.00	12800	8.4	25.5	.60	9.0	113
07...	1246	11.0	24000	7.9	25.5	--	4.0	52
APR , 1981								
01...	0934	1.00	32500	8.0	21.5	.60	7.5	93
01...	0936	3.00	33000	7.9	21.5	--	7.4	92
01...	0938	5.00	37300	7.7	21.5	--	5.7	72
01...	0940	10.5	38300	7.7	22.0	--	5.3	68
DEC								
01...	1215	1.00	--	8.6	20.5	.40	--	--
01...	1227	11.0	--	8.5	20.0	--	--	--
APR , 1982								
13...	0945	1.00	11700	8.3	20.5	.60	7.8	90
13...	0947	13.0	13000	8.2	20.5	--	7.3	85
NOV								
15...	1456	1.00	21200	8.4	15.5	.40	9.5	101
15...	1458	6.00	21600	8.4	15.0	--	9.1	96
15...	1500	12.0	23800	8.2	15.5	--	8.6	91
JAN , 1983								
31...	1310	1.00	18600	8.8	16.0	.70	9.9	108
31...	1312	7.00	19200	8.8	16.0	--	9.9	109
31...	1314	14.0	22900	8.8	15.5	--	9.4	104
MAR								
21...	1508	1.00	833	7.9	15.5	.10	8.8	88
21...	1510	11.0	801	7.8	15.0	--	8.9	88
MAY								
16...	1229	1.00	7950	8.2	23.5	.30	6.8	82
16...	1231	7.00	13100	7.9	22.5	--	5.9	71
16...	1233	14.0	19700	7.6	23.5	--	3.9	49
JUN								
20...	1302	1.00	5020	8.5	29.5	.30	6.2	83
20...	1304	7.00	12700	7.7	28.5	--	3.0	40
20...	1306	14.0	13300	7.4	28.5	--	1.5	20

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

284125096343100 LINE 79 SITE 2

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
MAR , 1979										
20...	1744	1.00	25000	7.9	23.0	--	--	--	--	--
20...	1746	5.00	26000	7.9	23.0	--	--	--	--	--
20...	1748	10.0	26000	7.9	23.0	--	--	--	--	--
22...	0614	1.00	1400	8.0	18.0	6.7	74	--	--	--
22...	0618	5.00	1800	8.0	18.0	6.8	75	--	--	--
22...	0620	11.0	1500	8.0	20.0	6.8	77	210	99	46

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
MAR , 1979										
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	22	210	7	10	130	107	0	55	360	.20

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAR , 1979										
20...	--	--	-.010	.020	.010	.010	.42	.43	.44	.020
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	.000	<.010	<.100	<.010	6.8	6.8	6.8	.010
22...	--	--	.460	.080	.540	.150	1.2	1.3	1.8	.200
22...	--	--	--	--	--	--	--	--	--	--
22...	9.5	780	.450	.080	.530	.220	1.5	1.7	2.2	.230

284035096351200 LINE 085 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
04...	1117	1.00	7350	8.1	25.5	--	7.6	95
04...	1118	11.0	1900	7.8	26.0	--	3.0	38
MAY , 1979								
15...	1121	1.00	300	7.7	22.0	--	6.4	75
15...	1122	8.00	230	7.6	22.0	--	6.1	72
OCT								
23...	1210	1.00	10500	8.2	20.5	--	8.2	93
23...	1215	8.00	30000	8.1	23.0	--	7.4	94
APR , 1980								
16...	1132	1.00	28000	8.2	18.0	.20	8.2	94
16...	1134	6.00	28000	8.2	18.0	--	8.2	94
OCT								
07...	1332	1.00	24500	8.2	25.0	.60	7.4	96
07...	1334	5.00	30000	7.9	24.5	--	6.6	87
APR , 1981								
01...	0833	1.00	40800	7.7	21.5	.80	7.1	91
01...	0835	6.50	41300	7.9	21.5	--	7.0	90
DEC								
01...	1105	1.00	--	8.4	20.0	.40	--	--
01...	1107	8.00	--	8.3	19.5	--	--	--
APR , 1982								
13...	0837	1.00	23500	8.1	19.5	.40	7.3	86
13...	0840	9.00	24500	7.8	19.5	--	7.7	91
NOV								
15...	1516	1.00	28200	8.3	14.0	.30	9.5	101
15...	1518	4.00	32000	8.4	14.0	--	9.3	100
15...	1520	8.00	33200	8.3	14.0	--	9.2	100

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

284035096351200 LINE 085 SITE 01--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
JAN , 1983								
31...	1340	1.00	29900	8.6	17.0	.60	8.8	103
31...	1342	7.00	29800	8.6	17.0	--	9.0	105
MAR								
24...	1215	1.00	5270	8.2	14.5	.00	8.8	87
24...	1217	7.00	24700	8.1	14.0	--	6.4	68
MAY								
16...	1256	1.00	28000	7.9	23.5	.30	7.2	93
16...	1258	7.00	28700	7.9	21.5	--	7.1	89
JUN								
20...	1330	1.00	18800	8.1	29.0	.30	6.1	84
20...	1332	7.00	24800	7.9	28.5	--	5.5	77

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
04...	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--
MAY , 1979								
15...	.340	.100	.440	.190	.69	.88	1.3	.140
15...	--	--	--	--	--	--	--	--
OCT								
23...	.000	.000	.000	.010	1.2	1.2	1.2	.140
23...	--	--	--	--	--	--	--	--
APR , 1980								
16...	.040	.010	.050	.100	.90	1.0	1.1	.070
16...	--	--	--	--	--	--	--	--
OCT								
07...	.000	.000	.000	.000	1.3	1.3	1.3	.100
07...	--	--	--	--	--	--	--	--
APR , 1981								
01...	.010	.010	.020	.060	1.0	1.1	1.1	.060
01...	--	--	--	--	--	--	--	--
DEC								
01...	--	<.020	<.100	.080	.26	.34	--	.060
01...	--	--	--	--	--	--	--	--
APR , 1982								
13...	--	.020	<.100	.110	.49	.60	--	.070
13...	--	--	--	--	--	--	--	--
NOV								
15...	--	<.020	<.100	.070	1.5	1.6	--	.100
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
JAN , 1983								
31...	--	<.020	<.100	<.060	--	.70	--	.100
31...	--	--	--	--	--	--	--	--
MAR								
24...	.670	.030	.700	.190	1.4	1.6	2.3	.120
24...	--	--	--	--	--	--	--	--
MAY								
16...	--	.040	<.100	.430	.47	.90	--	.090
16...	--	--	--	--	--	--	--	--
JUN								
20...	--	.040	<.100	<.060	--	1.1	--	.090
20...	--	--	--	--	--	--	--	--

284116096362700 LINE 085 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
04...	1128	1.00	8900	8.4	26.0	--	8.2	103
04...	1129	5.00	8900	8.4	25.5	--	8.0	100
MAR , 1979								
20...	1754	1.00	25000	8.0	22.5	--	--	--
20...	1757	5.00	25000	8.0	23.0	--	--	--
22...	0629	1.00	16000	8.1	20.0	--	7.8	94
22...	0632	5.00	22000	8.0	18.0	--	7.5	89

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

284116096362700 LINE 085 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
15...	1132	1.00	430	7.7	22.5	--	6.6	77
15...	1133	5.00	610	7.6	22.5	--	6.5	76
OCT								
23...	1220	1.00	8750	8.2	21.0	--	8.3	94
23...	1225	5.00	8850	8.2	21.0	--	8.2	93
APR , 1980								
16...	1142	1.00	28500	8.3	18.0	.10	8.2	95
16...	1145	5.00	28500	8.2	18.0	--	8.1	93
OCT								
07...	1342	1.00	28000	8.1	25.0	.60	7.6	100
07...	1344	5.00	30000	8.2	24.5	--	7.2	94
APR , 1981								
01...	0853	1.00	42800	7.8	21.5	.90	7.6	98
01...	0855	4.50	42800	7.8	21.5	--	7.6	98
DEC								
01...	1115	1.00	--	8.4	20.0	.40	--	--
01...	1117	4.00	--	8.3	19.0	--	--	--
APR , 1982								
13...	0848	1.00	22500	8.1	20.0	.40	7.7	92
13...	0850	5.00	22500	8.1	20.0	--	7.8	93
NOV								
15...	1528	1.00	33600	8.3	14.5	.20	9.0	99
15...	1530	4.00	33600	8.3	14.5	--	9.5	104
JAN , 1983								
31...	1350	1.00	28700	9.1	17.0	.60	9.3	108
31...	1352	5.00	28700	9.0	17.0	--	9.5	111
MAR								
24...	1236	1.00	5670	8.4	14.0	--	8.7	86
24...	1238	5.00	11500	8.0	13.5	--	8.7	87
MAY								
16...	1310	1.00	28600	8.0	23.0	.20	7.2	92
16...	1312	5.00	29000	8.0	21.5	--	7.4	92
JUN								
20...	1338	1.00	19800	8.2	29.0	.30	6.3	87
20...	1340	6.00	20100	8.2	28.5	--	6.3	87

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
04...	.000	.010	.010	.010	.88	.89	.90	.110
04...	--	--	--	--	--	--	--	--
MAR , 1979								
20...	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
MAY								
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
OCT								
23...	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--
APR , 1980								
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
OCT								
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
APR , 1981								
01...	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--
DEC								
01...	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--
APR , 1982								
13...	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--
NOV								
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
JAN , 1983								
31...	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--
MAR								
24...	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

284116096362700 LINE 085 SITE 02--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1983								
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--

284200096374500 LINE 085 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
04...	1141	1.00	5800	8.4	26.0	--	7.6	95
04...	1142	3.00	5850	8.4	26.0	--	7.6	95
05...	0849	1.00	7100	8.4	26.5	--	7.0	91
05...	0850	3.00	5800	8.4	26.5	--	6.1	78
MAY , 1979								
15...	1148	1.00	200	2.3	22.5	--	6.2	73
15...	1149	3.00	200	7.1	23.0	--	6.0	71
OCT								
23...	1230	1.00	6800	8.2	21.0	--	8.3	93
23...	1235	5.00	6800	8.2	21.0	--	8.3	93
APR , 1980								
16...	1158	1.00	27000	8.2	18.5	.10	8.1	94
16...	1200	4.00	27000	8.2	18.5	--	7.8	90
OCT								
07...	1412	1.00	26000	8.2	25.0	.50	7.6	99
07...	1414	4.00	26000	8.2	24.5	--	7.4	96
APR , 1981								
01...	0903	1.00	40800	7.8	21.0	.80	7.6	96
01...	0905	4.00	41800	7.8	21.0	--	7.6	97
DEC								
01...	1130	1.00	--	8.3	20.0	.20	--	--
01...	1132	5.00	--	8.3	19.5	--	--	--
APR , 1982								
13...	0855	1.00	22300	8.1	20.0	.40	7.4	88
13...	0858	5.00	22200	8.1	20.0	--	7.5	89
NOV								
15...	1540	1.00	32000	8.3	14.5	.20	8.9	97
15...	1542	3.00	34500	8.3	14.0	--	9.0	98
JAN , 1983								
31...	1405	1.00	27400	8.8	17.5	.00	8.6	101
31...	1407	4.50	27300	8.8	17.5	--	8.6	101
MAR								
24...	1255	1.00	1800	8.3	14.0	.00	8.0	78
24...	1257	5.00	13300	7.9	14.0	--	8.1	82
MAY								
16...	1320	1.00	27600	8.1	24.0	.20	7.2	94
16...	1322	5.00	28300	8.0	21.5	--	7.4	92
JUN								
20...	1348	1.00	19700	8.2	29.5	.30	6.3	88
20...	1350	6.00	19800	8.2	29.5	--	6.4	90

284235096384900 LINE 085 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
04...	1149	1.00	18000	7.7	26.0	--	8.1	109
MAR , 1979								
20...	1815	1.00	22000	8.0	23.0	--	--	--
20...	1817	3.00	22000	8.0	22.0	--	--	--
22...	0655	1.00	12000	7.9	20.0	--	7.7	91
22...	0657	3.00	21000	7.8	19.0	--	6.7	81
MAY								
15...	1201	1.00	330	7.1	23.5	--	5.9	71
15...	1202	2.50	330	7.1	24.5	--	5.8	71

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

284235096384900 LINE 085 SITE 04--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1979								
23...	1250	1.00	6800	8.2	20.0	--	8.6	95
23...	1255	2.00	6800	8.2	20.0	--	8.5	94
APR , 1980								
16...	1212	1.00	27500	8.3	19.5	.20	8.3	98
16...	1215	2.00	27500	8.3	19.5	--	8.0	95
OCT								
07...	1358	1.00	24000	8.2	25.0	.60	7.9	103
07...	1400	3.00	24000	8.2	25.5	--	7.6	99
APR , 1981								
01...	0913	1.00	39800	7.6	21.0	.40	6.6	83
01...	0915	3.00	39800	7.6	21.5	--	7.1	91
DEC								
01...	1145	1.00	--	8.4	19.5	.30	--	--
01...	1147	3.00	--	8.3	19.0	--	--	--
APR , 1982								
13...	0910	1.00	21100	8.1	20.0	.20	7.5	89
13...	0915	3.00	21100	8.1	20.0	--	7.5	89
NOV								
15...	1600	1.00	32500	8.3	14.5	.30	9.2	101
JAN , 1983								
31...	1420	1.00	26500	8.8	18.5	.00	8.6	102
31...	1422	2.50	26300	8.8	18.5	--	8.8	105
MAR								
24...	1310	1.00	113	8.0	14.5	.00	7.7	75
24...	1312	2.50	115	8.3	14.5	--	7.7	75
MAY								
16...	1340	1.00	24100	8.1	22.5	.20	7.7	96
16...	1342	4.00	25100	8.1	21.5	--	7.5	92
JUN								
20...	1400	1.00	19700	8.2	30.0	.30	5.9	83
20...	1402	3.50	19100	8.2	30.5	6.1	87	--

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
04...	.040	.010	.050	.050	2.1	2.1	2.2	.110
MAR , 1979								
20...	.030	.020	.050	.030	.54	.57	.62	.020
20...	--	--	--	--	--	--	--	--
22...	.010	.020	.030	.060	.60	.66	.69	.010
22...	--	--	--	--	--	--	--	--
MAY								
15...	--	--	--	--	--	--	--	--
15...	.040	.040	.080	.080	.71	.79	.87	.080
OCT								
23...	.000	.000	.000	.010	1.1	1.1	1.1	.100
23...	--	--	--	--	--	--	--	--
APR , 1980								
16...	.050	.010	.060	.100	1.5	1.6	1.7	.070
16...	--	--	--	--	--	--	--	--
OCT								
07...	.000	.000	.000	.000	1.2	1.2	1.2	.080
07...	--	--	--	--	--	--	--	--
APR , 1981								
01...	.010	.010	.020	.060	.73	.79	.81	.060
01...	--	--	--	--	--	--	--	--
DEC								
01...	--	<.020	<.100	.040	.34	.38	--	.200
01...	--	--	--	--	--	--	--	--
APR , 1982								
13...	--	<.020	<.100	.090	.46	.55	--	.040
13...	--	--	--	--	--	--	--	--
NOV								
15...	--	<.020	<.100	<.060	--	1.6	--	.090
JAN , 1983								
31...	--	<.020	<.100	.080	2.0	2.1	--	.130
31...	--	--	--	--	--	--	--	--
MAR								
24...	.670	.130	.800	.320	1.3	1.6	2.4	.160
24...	--	--	--	--	--	--	--	--
MAY								
16...	--	.030	<.100	.080	.92	1.0	--	.060
16...	--	--	--	--	--	--	--	--
JUN								
20...	--	.020	<.100	<.060	--	1.5	--	.090

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283924096352000 LINE 090 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
04...	1217	1.00	9600	8.2	26.0	--	7.7	100
04...	1218	5.00	10000	8.1	26.0	--	7.3	96
MAR , 1979								
20...	1837	1.00	28000	7.9	22.5	--	--	--
20...	1839	5.00	28000	7.9	23.0	--	--	--
22...	0552	1.00	22000	8.0	20.0	--	7.7	94
22...	0555	5.00	26000	8.0	20.0	--	7.5	93
MAY								
15...	1225	1.00	1000	7.7	23.0	--	6.5	79
15...	1226	5.00	1000	7.7	23.5	--	6.5	78
OCT								
23...	1323	1.00	8500	8.3	20.5	--	8.4	94
23...	1325	5.00	28500	7.8	21.5	--	4.7	58
APR , 1980								
16...	1243	1.00	32000	8.2	19.5	.10	7.9	95
16...	1245	5.00	32000	8.2	19.5	--	7.6	92
OCT								
07...	1428	1.00	27000	8.2	25.0	.60	7.9	104
07...	1430	5.00	30800	7.6	24.5	--	4.0	53
MAR , 1981								
31...	0938	1.00	43000	8.2	21.0	.80	7.6	99
31...	0940	4.50	43000	8.2	21.0	--	7.4	97
DEC								
01...	1410	1.00	--	--	18.0	--	--	--
01...	1412	4.00	--	--	--	--	--	--
APR , 1982								
13...	1200	1.00	24000	8.1	22.0	.20	7.4	92
13...	1205	4.00	24000	8.1	22.5	--	7.4	93
NOV								
15...	1626	1.00	37100	8.3	15.5	.30	9.0	103
15...	1628	4.00	37400	8.2	15.5	--	9.3	106
JAN , 1983								
31...	1450	1.00	26200	8.6	17.5	.90	9.5	111
31...	1452	5.00	26300	8.6	17.5	--	9.6	112
MAR								
24...	1334	1.00	15400	8.1	14.0	.20	8.4	86
24...	1336	5.00	20500	7.8	14.0	--	7.8	81
MAY								
16...	1404	1.00	31800	8.0	23.0	.20	7.1	92
16...	1406	7.00	33200	7.9	22.5	--	7.0	91
JUN								
20...	1430	1.00	28000	8.0	29.5	.30	6.1	88
20...	1432	7.00	28200	7.9	29.5	--	5.5	79

283912096354400 LINE 090 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
04...	1222	1.00	9200	8.4	26.0	--	7.8	100
04...	1223	14.0	20000	7.8	26.0	--	4.8	64
MAR , 1979								
20...	1850	1.00	27000	8.0	22.0	--	--	--
20...	1855	7.00	29000	8.0	22.0	--	--	--
20...	1858	14.0	28000	7.6	22.0	--	--	--
22...	0540	1.00	19000	8.1	20.0	--	7.7	94
22...	0545	5.00	22000	8.1	20.0	--	7.7	94
22...	0547	11.0	23000	8.1	20.0	--	7.7	94
MAY								
15...	1234	1.00	420	7.7	22.5	--	6.5	76
15...	1235	12.0	430	7.7	23.0	--	8.4	77
OCT								
23...	1332	1.00	10100	8.2	21.0	--	8.2	93
23...	1335	6.00	18000	8.0	22.0	--	6.5	78
23...	1338	12.0	34000	7.8	23.0	--	3.8	49

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283912096354400 LINE 090 SITE 03--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1980								
16...	1250	1.00	32000	8.3	18.0	.20	8.5	99
16...	1252	5.00	32000	8.3	18.0	--	8.6	101
16...	1254	10.0	32000	8.3	19.5	--	8.2	99
OCT								
07...	1436	1.00	27500	8.2	25.0	.70	7.8	102
07...	1438	5.00	32000	8.1	24.5	--	6.2	82
07...	1440	11.0	34000	8.1	24.5	--	6.1	81
MAR , 1981								
31...	0928	1.00	41500	8.2	21.0	.40	7.4	95
31...	0930	11.5	43000	8.1	21.0	--	7.2	93
DEC								
01...	1420	1.00	--	--	18.5	.20	--	--
01...	1422	11.0	--	--	18.5	--	--	--
APR , 1982								
13...	1208	1.00	24900	8.1	21.5	.20	7.7	95
13...	1210	6.00	24800	8.0	21.5	--	7.6	94
13...	1212	12.0	24700	8.1	21.5	--	7.5	93
NOV								
15...	1630	1.00	36800	8.3	15.0	.20	8.6	97
15...	1632	5.50	36800	8.3	15.0	--	8.7	98
15...	1634	11.0	36700	8.3	15.0	--	8.7	98
JAN , 1983								
31...	1502	1.00	27800	8.7	17.0	.90	9.4	109
31...	1504	6.00	28000	8.7	16.5	--	9.6	111
31...	1506	12.0	28500	8.7	17.0	--	9.7	113
MAR								
24...	1348	1.00	11900	8.2	14.0	.30	8.6	87
24...	1349	5.00	27200	8.0	14.5	--	7.1	77
24...	1350	11.0	30800	7.9	14.5	--	6.3	69
MAY								
16...	1412	1.00	31300	8.0	23.0	.20	7.2	93
16...	1414	12.0	31900	8.0	22.0	--	6.9	88
JUN								
20...	1443	1.00	28200	8.0	29.5	.30	6.2	90
20...	1445	12.0	29900	7.9	28.5	--	4.6	66

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
04...	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--
MAR , 1979								
20...	.000	.020	.020	.020	.49	.51	.53	.010
20...	--	--	--	--	--	--	--	--
20...	.000	.020	.020	.030	.54	.57	.59	.020
22...	.010	.020	.030	.040	.52	.56	.59	.020
22...	--	--	--	--	--	--	--	--
22...	.010	.020	.030	.030	.56	.59	.62	.030
MAY								
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
OCT								
23...	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--
APR , 1980								
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
OCT								
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
MAR , 1981								
31...	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--
DEC								
01...	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--
APR , 1982								
13...	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283912096354400 LINE 090 SITE 03--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV , 1982								
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
JAN , 1983								
31...	--	--	--	--	--	--	--	--

283843096361600 LINE 090 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
04...	1228	1.00	9600	8.4	26.0	--	8.0	104
04...	1229	4.00	9600	8.4	26.0	--	7.8	102
MAY , 1979								
15...	1242	1.00	280	7.3	23.0	--	6.3	75
15...	1243	4.00	290	7.4	23.0	--	6.3	75
OCT								
23...	1342	1.00	10100	8.2	21.5	--	8.2	94
23...	1345	4.00	10100	8.2	21.0	--	8.2	93
APR , 1980								
16...	1258	1.00	31000	8.4	19.0	.20	8.8	104
16...	1300	4.00	31000	8.4	19.0	--	8.8	104
OCT								
07...	1446	1.00	28000	8.1	25.5	.60	7.9	104
07...	1448	4.00	30000	8.1	25.0	--	7.0	93
MAR , 1981								
31...	0918	1.00	42000	8.1	21.0	.70	7.3	95
31...	0920	3.50	42000	8.1	21.0	--	7.1	92
DEC								
01...	1425	1.00	--	--	19.0	.30	--	--
01...	1427	3.00	--	--	19.0	--	--	--
APR , 1982								
13...	1220	1.00	26200	8.1	22.0	.20	7.4	93
13...	1222	4.50	26400	8.1	22.0	--	7.5	94
NOV								
15...	1642	1.00	35200	8.3	14.5	.20	8.5	94
15...	1644	3.00	35300	8.3	14.5	--	8.6	95
JAN , 1983								
31...	1518	1.00	23400	8.9	17.5	.70	10.0	115
31...	1520	4.00	23400	8.9	17.5	--	10.0	115
MAR								
24...	1408	1.00	8780	8.2	14.0	.30	9.0	90
24...	1410	3.50	10800	8.2	13.5	--	8.7	86
MAY								
16...	1428	1.00	29900	8.0	23.0	.20	7.2	93
16...	1430	4.00	29900	8.0	23.0	--	7.2	93
JUN								
20...	1448	1.00	26700	8.0	30.0	.30	6.1	88
20...	1450	5.00	27000	8.0	30.0	--	6.1	88

283828096363700 LINE 90 SITE 5

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR , 1979							
20...	1903	1.00	26000	8.0	22.0	7.2	93
20...	1908	4.00	26000	8.0	22.0	7.2	93
22...	0529	1.00	24000	8.1	20.0	7.7	95
22...	0530	3.00	24000	8.0	18.5	7.7	93

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283432096371600 LINE 125 SITE 2

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRATE TOTAL (MG/L AS N)
MAR , 1979								
20...	1730	1.00	32000	8.3	21.5	7.8	102	.020
20...	1735	3.00	28000	8.3	21.5	8.0	102	--
22...	0740	1.00	30000	8.1	19.5	7.6	95	.020
22...	0743	3.00	31000	8.0	19.5	7.4	94	--

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAR , 1979							
20...	<.010	.020	.020	.34	.36	.38	.010
20...	--	--	--	--	--	--	--
22...	.020	.040	.060	.51	.57	.61	.030
22...	--	--	--	--	--	--	--

283716096310400 LINE 143 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
04...	1402	1.00	17500	8.5	26.5	--	8.2	110
04...	1403	5.00	17500	8.4	26.5	--	8.2	110
MAR , 1979								
20...	1820	1.00	35000	8.2	20.5	--	7.7	100
20...	1824	7.00	34000	8.2	20.5	--	7.7	100
22...	0656	1.00	32000	8.0	19.5	--	7.7	97
22...	0700	5.00	33000	8.0	19.5	--	7.6	97
MAY								
14...	1944	1.00	8500	8.9	23.0	--	8.7	107
14...	1946	3.00	6500	8.4	23.0	--	8.7	106
14...	1948	6.00	16000	8.0	21.0	--	6.9	84
OCT								
23...	0930	1.00	--	8.1	20.5	--	--	--
23...	0932	5.00	--	8.1	20.5	--	--	--
APR , 1980								
16...	0856	1.00	34500	7.9	17.5	.50	8.3	97
16...	0858	5.00	33000	7.9	17.5	--	8.4	98
OCT								
07...	1030	1.00	38800	8.3	23.5	.80	7.0	93
07...	1033	5.00	38800	8.3	23.0	--	7.0	92
MAR , 1981								
31...	1158	1.00	--	7.8	22.0	.40	--	--
31...	1200	5.50	--	7.8	22.0	--	--	--
DEC								
01...	1005	1.00	--	8.1	20.0	.50	--	--
01...	1007	6.00	--	8.1	20.0	--	--	--
APR , 1982								
13...	0801	1.00	31100	8.1	19.5	.70	7.5	91
13...	0805	6.00	31200	8.0	20.0	--	7.6	94
NOV								
16...	0854	1.00	39600	8.2	14.5	.60	8.8	100
16...	0856	6.00	39600	8.2	14.5	--	9.2	105
FEB , 1983								
01...	1010	1.00	32200	8.5	15.5	.70	8.8	100
01...	1012	6.50	32300	8.5	15.5	--	8.8	100
MAR								
23...	0924	1.00	28000	8.4	14.5	.40	8.5	93
23...	0926	6.00	27800	8.4	15.0	--	8.8	97
MAY								
17...	0950	1.00	36200	8.2	22.0	.10	7.0	91
17...	0952	6.00	36200	8.2	22.0	--	7.1	93
JUN								
21...	1430	1.00	34400	8.2	29.5	.40	6.3	93
21...	1432	6.00	34600	8.2	29.0	--	5.3	78

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283802096315200 LINE 143 SITE 3

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRATE TOTAL (MG/L AS N)
MAR , 1979								
20...	1812	1.00	36000	8.3	20.5	7.6	100	.020
20...	1815	7.00	36000	8.3	20.5	7.6	100	.020
22...	0705	1.00	31000	8.0	19.5	7.7	97	.020
22...	0708	6.00	32000	8.0	19.5	7.7	99	-.010

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAR , 1979.							
20...	<.010	.020	.020	.35	.37	.39	.010
20...	<.010	.020	.020	.34	.36	.38	.010
22...	<.010	.020	.050	.42	.47	.49	.020
22...	.020	.010	.060	.23	.29	.30	.020

283819096321100 LINE 143 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
04...	1354	1.00	17000	8.4	26.5	--	8.1	109
04...	1355	6.00	17500	8.4	26.5	--	7.8	105
MAR , 1979								
20...	1805	1.00	35000	8.2	20.5	--	7.7	100
20...	1808	6.00	36000	8.2	20.5	--	7.6	100
22...	0710	1.00	32000	8.1	19.5	--	7.7	97
22...	0713	5.00	33000	8.0	19.5	--	7.6	96
MAY								
14...	1955	1.00	6500	8.9	24.0	--	9.8	121
14...	1958	7.00	7200	9.0	23.5	--	9.8	119
OCT								
23...	0921	1.00	--	8.1	21.0	--	--	--
23...	0924	5.00	--	8.1	21.0	--	--	--
APR , 1980								
16...	0848	1.00	32500	8.0	18.5	.60	8.9	105
16...	0850	5.00	32500	8.0	18.5	--	8.9	105
OCT								
07...	1022	1.00	37500	8.3	23.5	.60	7.0	93
07...	1025	5.00	38000	8.3	23.5	--	6.7	89
MAR , 1981								
31...	1023	1.00	44500	8.2	21.5	.30	7.6	101
31...	1025	4.50	44500	8.2	21.5	--	7.5	99
DEC								
01...	0955	1.00	--	8.0	20.5	.30	--	--
01...	0957	3.00	--	8.1	20.0	--	--	--
APR , 1982								
13...	0750	1.00	31700	8.0	21.5	.20	7.0	89
13...	0752	5.50	31600	8.0	21.0	--	7.2	90
NOV								
16...	0844	1.00	38900	8.2	14.5	.50	8.7	99
16...	0846	5.00	39000	8.2	14.5	--	8.8	100
FEB , 1983								
01...	0958	1.00	31900	8.5	16.0	.60	8.5	98
01...	1000	5.00	32000	8.5	16.0	--	8.5	98
MAR								
23...	0910	1.00	28100	8.5	15.0	.40	8.6	95
23...	0912	4.50	28100	8.4	15.0	--	8.8	97
MAY								
17...	0936	1.00	36000	8.2	22.5	.00	6.9	91
17...	0938	5.50	36100	8.2	22.5	--	6.9	91
JUN								
21...	1440	1.00	34400	8.2	30.0	.40	6.3	94
21...	1442	6.00	34500	8.2	29.5	--	6.2	92

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283802096330200 LINE 145 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
04...	1333	1.00	16500	8.4	26.5	--	8.3	111
04...	1334	4.00	17000	8.4	26.5	--	7.9	106
OCT , 1979								
23...	0900	1.00	17700	8.1	20.5	--	8.8	102
23...	0904	5.00	--	8.1	20.0	--	--	--
APR , 1980								
16...	0830	1.00	33500	8.0	18.0	.50	9.1	107
16...	0834	5.00	34000	8.0	18.0	--	8.4	99
OCT								
07...	1000	1.00	37500	8.3	24.0	.60	7.1	95
07...	1002	5.00	40000	8.3	24.0	--	6.3	85
MAR , 1981								
31...	0958	1.00	45000	8.1	20.5	.20	7.1	93
31...	1000	3.50	45000	8.1	20.5	--	7.1	93
DEC								
01...	0930	1.00	24900	8.1	19.5	.10	7.9	94
01...	0932	5.00	--	8.0	19.5	--	--	--
APR , 1982								
13...	0738	1.00	31000	8.1	19.5	.20	7.8	95
13...	0740	6.00	31000	8.0	19.5	--	7.7	94
NOV								
16...	0823	1.00	39000	8.2	16.0	.50	8.5	99
16...	0825	4.00	39300	8.1	16.0	--	9.1	107
FEB , 1983								
01...	0940	1.00	31400	8.4	15.5	.80	8.8	100
01...	0942	3.50	31400	8.4	15.5	--	8.5	97
MAR								
23...	0847	1.00	29300	8.3	16.0	.20	8.3	94
23...	0849	2.50	28800	8.2	15.5	--	8.3	93
MAY								
17...	0908	1.00	36200	8.1	22.5	.00	6.8	90
17...	0910	3.00	36100	7.8	22.5	--	6.8	90
JUN								
21...	1450	1.00	33500	8.3	31.5	.40	7.0	106
21...	1452	3.00	33400	8.3	31.5	--	7.0	106

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
04...	.000	.010	.010	.010	.55	.56	.57	.070
04...	--	--	--	--	--	--	--	--
OCT , 1979								
23...	.010	.000	.010	.030	.95	.98	.99	.090
23...	--	--	--	--	--	--	--	--
APR , 1980								
16...	.000	.000	.000	.060	1.1	1.2	1.2	.050
16...	--	--	--	--	--	--	--	--
OCT								
07...	.000	.000	.000	.000	1.1	1.1	1.1	.070
07...	--	--	--	--	--	--	--	--
MAR , 1981								
31...	.010	.010	.020	.070	.74	.81	.83	.080
31...	--	--	--	--	--	--	--	--
DEC								
01...	--	<.020	<.100	.050	.36	.41	--	.050
01...	--	--	--	--	--	--	--	--
APR , 1982								
13...	--	<.020	<.100	.100	.45	.55	--	.030
13...	--	--	--	--	--	--	--	--
NOV								
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
FEB , 1983								
01...	--	<.020	<.100	.060	.84	.90	--	.050
01...	--	--	--	--	--	--	--	--
MAR								
23...	--	<.020	<.100	.170	.93	1.1	--	.100
23...	--	--	--	--	--	--	--	--
MAY								
17...	--	.070	<.100	.310	.89	1.2	--	.220
17...	--	--	--	--	--	--	--	--
JUN								
21...	--	.040	<.100	<.060	--	.70	--	.180
21...	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283812096331200 LINE 145 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
04...	1345	1.00	16500	8.6	27.5	--	8.7	118
04...	1346	3.00	17000	8.5	27.0	--	8.7	117
OCT , 1979								
23...	0912	1.00	--	8.0	22.0	--	--	--
23...	0916	3.00	--	8.0	22.5	--	--	--
APR , 1980								
16...	0842	1.00	34000	8.0	18.0	.40	8.4	99
16...	0844	4.00	33500	8.0	18.0	--	8.6	101
OCT								
07...	1015	1.00	39000	8.0	24.0	.60	7.2	96
07...	1017	3.00	38700	8.3	23.5	--	7.0	93
MAR , 1981								
31...	1013	1.00	44000	8.2	21.0	.00	6.9	91
31...	1015	2.50	45000	8.2	21.0	--	6.9	91
DEC								
01...	0945	1.00	--	8.1	21.0	.30	--	--
01...	0947	5.00	--	8.1	20.5	--	--	--
APR , 1982								
13...	0742	1.00	30600	8.0	21.0	.20	8.0	90
13...	0748	4.50	31600	8.0	20.5	--	7.2	90
NOV								
16...	0834	1.00	38900	8.3	14.5	.50	8.9	101
16...	0836	4.00	38900	8.3	15.0	--	9.1	104
FEB , 1983								
01...	0950	1.00	31500	8.5	16.0	.70	8.3	95
01...	0952	4.00	31600	8.5	16.0	--	8.2	94
MAR								
23...	0858	1.00	29000	8.3	16.0	.20	8.3	94
23...	0900	2.00	29000	8.3	16.0	--	8.4	95
MAY								
17...	0923	1.00	36300	8.2	22.5	.00	6.9	91
17...	0925	2.00	36200	8.2	22.5	--	7.0	92
JUN								
21...	1500	1.00	33600	8.3	31.5	.40	6.7	102
21...	1502	4.00	33700	8.3	31.5	--	6.8	103

283617096315600 LINE 150 SITE 2

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR , 1979							
20...	1750	1.00	35000	8.3	20.5	7.8	101
20...	1753	7.00	39000	8.3	20.5	7.6	101
22...	0648	1.00	33000	8.0	19.5	7.6	97
22...	0650	7.00	33000	8.0	19.5	7.6	97

283522096332500 LINE 150 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT , 1978										
04...	1510	1.00	17000	8.6	27.0	3.4	33	--	--	--
04...	1511	5.00	18000	8.5	26.5	7.9	106	--	--	--
04...	1512	20.0	35000	8.1	26.5	3.4	48	--	--	--
04...	1513	36.0	37700	8.0	26.5	2.3	33	--	--	--
04...	1907	1.00	16500	8.6	26.5	7.9	106	--	--	--
04...	1908	5.00	17500	8.5	26.5	7.6	102	--	--	--
04...	1909	20.0	35000	8.0	26.5	1.8	25	--	--	--
04...	1910	36.0	37000	8.0	26.5	1.5	22	--	--	--
05...	0818	1.00	13000	8.4	26.0	7.2	94	--	--	--
05...	0819	5.00	20500	8.4	26.5	6.5	88	--	--	--
05...	0820	10.0	26000	8.2	27.0	4.4	61	--	--	--
05...	0821	20.0	36500	8.0	26.5	1.3	19	--	--	--
05...	0822	30.0	37500	8.0	26.5	1.9	28	--	--	--
05...	0823	37.0	38500	8.2	26.5	3.6	52	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283522096332500 LINE 150 SITE 04--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
MAR , 1979										
20...	1925	1.00	34000	8.3	20.0	7.6	99	--	--	--
20...	1930	10.0	36000	8.3	20.0	7.5	99	--	--	--
20...	1932	20.0	39000	8.3	19.5	7.5	99	--	--	--
20...	1935	36.0	46000	8.4	18.5	7.3	98	5300	5200	310
22...	0535	1.00	30000	8.0	20.0	7.4	94	--	--	--
22...	0540	10.0	33000	8.0	20.0	7.4	96	--	--	--
22...	0543	20.0	33000	8.1	20.0	7.7	100	--	--	--
22...	0545	36.0	34000	8.0	19.5	7.9	101	3700	3600	250
MAY										
14...	2014	1.00	28000	8.7	22.0	7.0	92	--	--	--
14...	2017	18.0	29000	8.2	21.5	7.1	92	--	--	--
14...	2020	36.0	29000	8.0	21.5	7.1	92	--	--	--
15...	0642	1.00	11000	8.1	21.0	7.3	88	--	--	--
15...	0646	18.0	22000	7.8	22.0	6.9	87	--	--	--
15...	0650	35.0	30000	7.3	21.5	7.3	94	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978										
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
MAR , 1979										
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	1100	8900	54	390	140	115	0	2500	16000	.70
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	750	6500	47	270	140	115	0	1700	11000	.70
MAY										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978										
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	.000	<.010	<.100	.010	.59	.60	.60	.080
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--	--	--
04...	--	--	.020	.220	.240	.070	.39	.46	.70	.110
05...	--	--	.000	<.010	<.100	.010	.60	.61	.61	.090
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--
05...	--	--	.010	.020	.030	.070	.23	.30	.33	.050

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283522096332500 LINE 150 SITE 04--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
MAR , 1979										
20...	--	--	.010	<.010	.010	.040	.32	.36	.37	.020
20...	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--
20...	13	29000	.010	<.010	.010	.180	.92	1.1	1.1	.060
22...	--	--	.000	.020	.020	.060	.67	.73	.75	.030
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
22...	5.4	21000	.040	<.010	.040	.130	2.2	2.3	2.3	.260
MAY										
14...	--	--	.260	.080	.340	.060	.73	.79	1.1	.130
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	-.010	.100	.090	.110	.71	.82	.91	.060
15...	--	--	.170	.040	.210	.080	.67	.75	.96	.140
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	.000	.210	.210	.080	.37	.45	.66	.080

283645096271900 LINE 175 SITE 2

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
MAR , 1979								
20...	1838	1.00	45000	8.3	20.5	7.1	98	.010
20...	1840	6.00	45000	8.3	20.5	7.1	98	.010
22...	0637	1.00	31000	8.1	19.5	7.8	99	.010
22...	0640	6.00	31000	8.1	19.5	7.7	97	.010

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
MAR , 1979							
20...	<.010	.010	.020	.40	.42	.43	.020
20...	<.010	.010	.020	.50	.52	.53	.020
22...	<.010	.010	.060	.22	.28	.29	.020
22...	<.010	.010	.030	.51	.54	.55	.020

283405096293200 LINE 190 SITE 01

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
APR , 1982								
13...	1203	1.00	33100	8.2	20.5	.10	8.8	98
13...	1205	4.00	33200	8.2	20.5	--	7.8	98
NOV								
16...	0940	1.00	40900	8.2	14.5	.40	8.3	95
16...	0942	3.00	40900	8.2	14.5	--	8.6	98
FEB , 1983								
01...	1100	1.00	35200	8.4	15.0	.60	8.5	97
01...	1102	2.00	35300	8.5	15.0	--	8.7	99
MAR								
24...	0752	1.00	28900	8.3	14.0	.40	8.4	91
24...	0754	2.00	28800	8.3	14.0	--	8.7	94
MAY								
17...	1038	1.00	37200	8.1	23.0	.00	6.8	91
17...	1040	4.00	37200	8.2	23.0	--	6.9	92
JUN								
21...	1024	1.00	34600	8.1	29.0	.40	6.1	89
21...	1026	2.00	34600	8.1	29.0	--	6.1	89

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283355096295900 LINE 190 SITE 2

DATE	TIME	SAMPLING DEPTH (FEET)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)
OCT , 1979				
23...	1010	1.00	8.1	21.0
23...	1012	3.00	8.1	21.0

283337096305000 LINE 190 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
04...	1444	1.00	22000	8.4	26.5	--	7.9	107
04...	1445	5.00	22000	8.4	26.5	--	7.8	106
04...	1446	20.0	36500	8.2	26.5	--	6.9	93
04...	1447	37.0	38500	8.2	26.5	--	4.8	70
MAR , 1979								
20...	1905	1.00	41000	8.3	20.5	--	7.4	99
20...	1910	10.0	40000	8.3	20.0	--	7.4	99
20...	1912	20.0	39000	8.3	20.0	--	7.5	99
20...	1915	40.0	47000	8.4	18.5	--	7.3	96
22...	0605	1.00	33000	8.1	19.5	--	7.7	99
22...	0608	10.0	33000	8.1	19.5	--	7.7	99
22...	0610	20.0	33000	8.1	19.5	--	7.7	99
22...	0615	35.0	33000	8.1	19.5	--	7.7	99
MAY								
14...	1912	1.00	16000	8.6	23.0	--	8.4	106
14...	1916	20.0	32000	8.0	22.0	--	7.3	98
14...	1920	37.0	27000	7.5	22.0	--	7.4	96
OCT								
23...	0954	1.00	--	8.1	21.5	--	--	--
23...	0958	18.0	--	8.0	24.0	--	--	--
23...	1002	35.0	--	8.0	24.5	--	--	--
APR , 1980								
16...	0927	1.00	37500	8.0	17.5	--	7.2	85
16...	0931	19.0	38000	8.0	17.5	--	6.8	81
16...	0935	38.0	45000	8.0	17.5	--	6.4	78
OCT								
07...	1015	1.00	33500	8.3	24.0	.40	6.1	80
07...	1017	10.0	35000	8.3	24.0	--	6.1	81
07...	1019	25.0	32500	8.3	23.5	--	6.3	82
07...	1021	40.0	31500	8.2	23.5	--	6.3	81
MAR , 1981								
31...	0954	1.00	--	7.9	21.0	.60	--	--
31...	0956	20.0	--	7.9	21.0	--	--	--
31...	0958	40.0	--	7.8	20.5	--	--	--
DEC								
01...	0900	1.00	28700	8.1	19.5	.20	7.9	95
01...	0902	17.0	40200	8.1	21.0	--	6.3	82
01...	0905	34.0	43300	8.1	21.0	--	5.6	74
APR , 1982								
13...	0722	1.00	30800	8.0	19.5	.20	7.5	91
13...	0724	10.0	32400	8.1	19.0	--	7.3	89
13...	0726	20.0	35100	7.9	18.5	--	7.2	88
13...	0728	30.0	36700	8.1	18.5	--	7.1	87
13...	0730	40.0	38300	8.2	18.5	--	6.8	84
NOV								
16...	0924	1.00	39900	8.2	15.0	.20	8.0	92
16...	0926	10.0	40100	8.2	15.0	--	8.0	92
16...	0928	20.0	40500	8.2	15.0	--	8.1	94
16...	0930	40.0	40600	8.2	15.0	--	8.1	94
FEB , 1983								
01...	1050	1.00	33400	8.5	15.0	.90	8.7	99
01...	1052	5.50	33300	8.5	15.0	--	8.7	99
01...	1054	11.0	33500	8.5	15.0	--	8.8	100
01...	1056	22.0	41000	8.3	14.5	--	8.4	97
01...	1058	44.0	41000	8.4	14.5	--	8.5	98
MAR								
24...	0734	1.00	26700	8.4	14.0	.40	8.6	92
24...	0736	11.0	32800	8.3	14.5	--	8.0	89
24...	0738	23.0	43600	8.3	15.5	--	7.3	86
24...	0740	45.0	43800	8.2	15.5	--	7.2	85
MAY								
17...	1014	1.00	36200	8.1	22.5	.10	6.7	88
17...	1016	10.0	36800	8.1	22.0	--	6.3	82
17...	1018	20.0	36900	8.1	22.5	--	6.3	83
17...	1020	40.0	37200	8.1	22.5	--	6.5	86
JUN								
21...	0804	1.00	34400	8.2	28.5	.30	5.3	77
21...	0806	10.0	34700	8.2	29.0	--	5.3	78
21...	0810	20.0	35300	8.2	29.0	--	5.1	75
21...	0812	40.0	37400	8.0	28.5	--	4.1	60

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283337096305000 LINE 190 SITE 04--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
04...	.010	<.010	.010	.010	.52	.53	.54	.070
04...	--	--	--	--	--	--	--	--
04...	--	--	--	--	--	--	--	--
04...	.010	.010	.020	.040	.25	.29	.31	.050
MAR , 1979								
20...	.010	<.010	.010	.030	.33	.36	.37	.020
20...	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--
20...	.010	<.010	.010	.040	.40	.44	.45	.020
22...	.000	.020	.020	.050	.61	.66	.68	.030
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
22...	.000	<.010	<.100	.040	1.5	1.5	1.5	.140
MAY								
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
OCT								
23...	.020	.000	.020	.030	1.2	1.2	1.2	.090
23...	--	--	--	--	--	--	--	--
23...	.020	.000	.020	.050	.88	.93	.95	.080
APR , 1980								
16...	.000	.000	.000	.070	.67	.74	.74	.060
16...	--	--	--	--	--	--	--	--
16...	.000	.000	.000	.140	.86	1.0	1.0	.120
OCT								
07...	.000	.000	.000	.000	.92	.92	.92	.050
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
07...	.000	.000	.000	.000	.99	.99	.99	.080
MAR , 1981								
31...	.010	.010	.020	.050	.78	.83	.85	.060
31...	--	--	--	--	--	--	--	--
31...	.010	.010	.020	.030	.70	.73	.75	.060
DEC								
01...	--	<.020	<.100	<.070	--	.30	--	.040
01...	--	--	--	--	--	--	--	--
01...	--	<.020	<.100	.090	.24	.33	--	.160
APR , 1982								
13...	--	<.020	<.100	.100	.50	.60	--	.020
13...	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--
13...	--	.020	<.100	.140	.44	.58	--	.160
NOV								
16...	--	<.020	<.100	<.060	--	1.0	--	.060
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
16...	--	<.020	<.100	<.060	--	1.1	--	.100
FEB , 1983								
01...	--	<.020	<.100	.060	.64	.70	--	.070
01...	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--
01...	--	<.020	<.100	.070	.73	.80	--	.120
MAR								
24...	--	.020	<.100	.220	.78	1.0	--	.060
24...	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--
24...	.080	.020	.100	.180	.62	.80	.90	.160
MAY								
17...	--	.040	<.100	.330	.37	.70	--	.480
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
17...	--	.020	<.100	.310	2.2	2.5	--	.350
JUN								
21...	--	<.020	<.100	<.060	--	.50	--	.200
21...	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--
21...	--	.040	<.100	.130	.67	.80	--	.180

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283018096275500 LINE 200 SITE 5

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
05...	0905	1.00	27000	--	26.5	.40	6.2	86
05...	0906	4.00	29000	--	26.5	--	5.7	80
OCT , 1979								
23...	1030	1.00	--	8.1	21.5	--	--	--
23...	1032	9.00	--	8.0	21.0	--	--	--
APR , 1980								
16...	0948	1.00	37000	8.0	18.0	--	7.5	90
16...	0950	3.00	37000	8.0	18.0	--	7.5	90
OCT								
07...	1551	1.00	43500	8.4	26.5	.60	8.9	111
07...	1553	4.00	43500	8.4	26.5	--	8.2	118
MAR , 1981								
31...	1053	1.00	--	7.9	21.5	.70	--	--
31...	1055	4.00	--	7.9	21.5	--	--	--
APR , 1982								
13...	0805	1.00	35000	8.2	19.0	.30	7.4	91
13...	0810	8.00	38000	8.2	19.5	--	7.1	89
NOV								
16...	1400	1.00	38400	8.1	15.0	.50	8.4	96
16...	1403	3.00	38600	8.1	15.5	--	8.6	100
FEB , 1983								
07...	1455	1.50	29300	8.1	12.0	.50	9.2	95
MAR								
24...	1138	1.00	30800	8.2	14.0	.30	8.4	91
24...	1140	2.50	31300	8.3	14.0	--	8.4	91
MAY								
17...	1443	1.00	36200	8.4	23.0	.60	6.8	91
17...	1445	4.00	36300	8.4	23.0	--	7.1	95
JUN								
21...	1400	1.00	36500	8.5	30.5	.60	6.3	95
21...	1402	2.00	36300	8.5	30.5	--	6.4	97

284153096240000 LINE 235 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT , 1978											
03...	1000	1.00	23000	8.2	26.5	--	7.2	98	--	2400	2300
03...	1001	5.50	23000	8.2	26.0	--	6.7	92	--	--	--
MAY , 1979											
14...	1610	1.00	4000	8.5	22.5	--	9.9	124	--	390	320
14...	1611	2.50	11000	8.3	24.5	--	8.8	111	--	--	--
14...	1612	4.00	12000	8.1	22.5	--	6.6	81	--	--	--
OCT											
24...	1105	1.00	10500	8.3	19.0	--	9.0	99	2.3	1200	1100
24...	1110	3.00	11500	8.3	19.0	--	8.8	97	--	--	--
24...	1115	5.00	17500	8.2	21.0	--	7.6	89	--	--	--
OCT , 1980											
08...	1018	1.00	29500	8.5	23.5	.60	7.6	98	2.0	3500	3400
08...	1020	5.00	36400	8.3	25.0	--	6.2	84	--	--	--
APR , 1981											
01...	1538	1.00	43000	7.8	23.0	.30	--	--	1.7	5400	5300
01...	1540	4.50	43500	7.8	23.0	--	--	--	--	--	--
DEC											
02...	1030	1.00	19700	8.4	17.5	.50	8.3	92	2.3	2200	2100
02...	1035	4.00	19800	8.4	17.5	--	8.4	94	--	--	--
APR , 1982											
14...	0740	1.00	22900	8.3	22.5	.50	6.7	84	3.2	2700	2600
14...	0742	3.50	24000	8.3	22.5	--	6.4	80	--	--	--
NOV											
18...	1242	1.00	31700	8.4	16.5	.30	9.0	103	4.2	3900	3800
18...	1244	4.00	31500	8.4	16.5	--	9.3	107	--	--	--
FEB , 1983											
03...	1515	1.00	26800	8.8	13.0	.70	9.3	98	4.7	3100	3000
03...	1517	4.00	27400	8.8	13.0	--	9.4	99	--	--	--
MAY											
18...	1305	1.00	31300	8.2	24.0	.30	6.6	88	2.2	3800	3700
18...	1307	6.00	31500	8.1	24.5	--	6.8	91	--	--	--
JUN											
22...	0934	1.00	31000	8.4	28.5	.30	5.9	84	2.8	3900	3800
22...	0936	5.00	31600	8.4	28.5	--	6.3	90	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

284153096240000 LINE 235 SITE 02--Continued

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
OCT , 1978											
03...	170	480	4500	40	170	150	123	0	1100	7700	.50
03...	--	--	--	--	--	--	--	--	--	--	--
MAY , 1979											
14...	42	70	680	15	28	89	73	0	170	1100	.30
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	85	230	1900	25	85	120	98	0	500	3500	.40
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
OCT , 1980											
08...	260	700	5900	44	230	--	130	--	1300	11000	.70
08...	--	--	--	--	--	--	--	--	--	--	--
APR , 1981											
01...	350	1100	8500	51	270	--	130	--	2300	17000	.60
01...	--	--	--	--	--	--	--	--	--	--	--
DEC											
02...	160	430	3500	33	140	--	110	--	1000	6600	.50
02...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
14...	190	540	4300	36	140	--	110	--	1100	8400	.50
14...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	260	800	6400	45	220	--	150	--	1600	12000	.60
18...	--	--	--	--	--	--	--	--	--	--	--
FEB , 1983											
03...	210	630	5000	39	180	--	98	--	1300	9100	.60
03...	--	--	--	--	--	--	--	--	--	--	--
MAY											
18...	280	750	6100	44	200	--	120	--	1600	11000	.60
18...	--	--	--	--	--	--	--	--	--	--	--
JUN											
22...	280	780	6000	42	200	--	130	--	1500	11000	.60
22...	--	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)
OCT , 1978											
03...	11	14000	.000	<.010	<.100	.010	.65	.66	.66	.060	--
03...	--	--	--	--	--	--	--	--	--	--	--
MAY , 1979											
14...	7.6	2100	.670	.120	.790	.060	1.1	1.2	2.0	.190	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	7.4	6400	.010	.000	.010	.010	1.1	1.1	1.1	.120	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
OCT , 1980											
08...	10	19000	.000	.000	.000	.000	1.1	1.1	1.1	.060	20
08...	--	--	--	--	--	--	--	--	--	--	--
APR , 1981											
01...	3.4	30000	.000	.010	.010	.030	.72	.75	.76	.060	--
01...	--	--	--	--	--	--	--	--	--	--	--
DEC											
02...	5.8	12000	--	<.020	<.100	.040	.32	.36	--	.220	--
02...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
14...	1.3	15000	--	<.020	<.100	.100	.42	.52	--	.030	--
14...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	6.9	21000	--	<.020	<.100	<.060	--	1.5	--	.090	--
18...	--	--	--	--	--	--	--	--	--	--	--
FEB , 1983											
03...	<1.2	17000	--	<.020	<.100	<.060	--	.80	--	.080	--
03...	--	--	--	--	--	--	--	--	--	--	--
MAY											
18...	2.7	20000	--	.040	<.100	.380	.32	.70	--	.110	--
18...	--	--	--	--	--	--	--	--	--	--	--
JUN											
22...	4.1	20000	--	<.020	<.200	<.060	--	1.4	--	.180	--
22...	--	--	--	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

284246096112800 LINE 264 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT , 1978											
02...	1907	1.00	29000	8.3	27.0	--	7.2	102	--	3100	3000
02...	1908	4.50	29000	8.3	27.0	--	7.2	102	--	--	--
03...	0815	1.00	27700	8.0	26.0	--	6.5	90	--	3000	2800
03...	0816	5.00	29000	8.0	26.5	--	6.4	90	--	--	--
03...	1050	1.00	28000	8.2	26.5	--	6.9	95	--	--	--
03...	1051	5.00	30500	8.1	26.5	--	6.3	88	--	--	--
MAY , 1979											
14...	1430	1.00	8500	8.1	25.0	--	8.9	112	--	--	--
14...	1431	2.50	21000	7.9	23.0	--	6.2	81	--	--	--
14...	1432	4.00	21000	7.9	23.0	--	6.0	79	--	--	--
14...	1906	1.00	8600	8.3	26.0	--	9.4	120	--	790	710
14...	1907	2.00	20000	7.7	23.0	--	5.8	74	--	--	--
14...	1908	4.00	20000	7.7	23.0	--	5.6	71	--	--	--
15...	0735	1.00	11400	8.0	23.0	--	8.2	101	--	1100	960
15...	0736	4.00	21000	7.8	22.5	--	6.0	77	--	--	--
OCT											
24...	0935	1.00	13200	8.2	18.5	--	8.8	97	--	--	--
24...	0940	5.00	13200	8.2	18.5	--	8.6	95	2.4	--	--
APR , 1980											
16...	1436	1.00	36000	8.1	20.0	--	8.6	106	--	--	--
16...	1440	5.00	36500	8.1	20.0	--	8.0	99	--	--	--
OCT											
08...	1153	1.00	25400	8.4	24.0	--	8.0	103	3.1	--	--
08...	1155	4.00	39000	8.2	25.5	--	6.2	86	--	--	--
APR , 1981											
01...	1321	1.00	41200	7.9	23.0	.20	7.2	96	1.3	--	--
01...	1323	3.50	39900	7.9	23.5	--	7.2	95	--	--	--
DEC											
02...	0855	1.00	27200	8.0	16.0	.50	8.0	89	2.0	--	--
02...	0900	3.00	26900	8.0	16.0	--	7.7	86	--	--	--
APR , 1982											
14...	1014	1.00	31300	7.9	22.5	.20	7.0	90	1.9	--	--
14...	1016	4.00	31400	7.9	22.5	--	7.0	90	--	--	--
NOV											
18...	1350	1.00	35500	8.2	17.5	.60	9.6	114	2.3	--	--
18...	1352	3.00	35700	8.2	17.5	--	9.8	117	--	--	--
FEB , 1983											
03...	1615	1.00	29400	8.5	13.0	.60	11.2	119	3.3	--	--
03...	1617	3.00	29800	8.5	13.0	--	10.6	113	--	--	--
MAR											
22...	1344	1.00	26400	8.3	14.0	.40	8.9	95	1.4	--	--

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978											
02...	210	630	5400	42	220	150	123	0	1400	9300	.70
02...	--	--	--	--	--	--	--	--	--	--	--
03...	200	600	5100	41	210	150	123	0	1300	9000	.70
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
MAY , 1979											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	71	150	1200	19	51	110	90	0	330	2200	.40
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
15...	91	200	2300	31	72	110	90	0	470	3900	.40
15...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
OCT											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
APR , 1981											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

284246096112800 LINE 264 SITE 02--Continued

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
APR , 1982											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
FEB , 1983											
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT , 1978										
02...	13	17000	.010	<.010	.010	.010	.59	.60	.61	.070
02...	--	--	.010	<.010	.010	.010	.55	.56	.57	.080
03...	14	16000	.020	<.010	.020	.010	.65	.66	.68	.070
03...	--	--	.010	<.010	.010	.020	.46	.48	.49	.060
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
MAY , 1979										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	7.3	4100	.710	.160	.870	.070	.84	.91	1.8	.160
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	.290	.160	.450	.260	.69	.95	1.4	.140
15...	6.1	7100	.440	.120	.560	.080	.83	.91	1.5	.120
15...	--	--	.110	.080	.190	.130	.59	.72	.91	.080
OCT										
24...	--	--	.020	.000	.020	.010	.72	.73	.75	.090
24...	--	--	.030	.000	.030	.030	.76	.79	.82	.090
APR , 1980										
16...	--	--	.000	.000	.000	.120	.88	1.0	1.0	.050
16...	--	--	.000	.000	.000	.010	1.3	1.3	1.3	.070
OCT										
08...	--	--	.000	.000	.000	.000	1.3	1.3	1.3	.110
08...	--	--	.000	.000	.000	.000	.97	.97	.97	.080
APR , 1981										
01...	--	--	.040	.010	.050	.040	.92	.96	1.0	.090
01...	--	--	.040	.020	.060	.040	1.1	1.1	1.2	.090
DEC										
02...	--	--	--	<.020	<.100	.040	.33	.37	--	.210
02...	--	--	--	<.020	<.100	<.070	--	.49	--	.210
APR , 1982										
14...	--	--	--	<.020	<.100	.100	.66	.76	--	.020
14...	--	--	--	<.020	<.100	.100	.27	.37	--	.030
NOV										
18...	--	--	--	<.020	<.100	<.060	--	1.0	--	.060
18...	--	--	--	<.020	<.100	<.060	--	1.0	--	.070
FEB , 1983										
03...	--	--	--	<.020	<.100	<.060	--	.80	--	.110
03...	--	--	--	<.020	<.100	.070	.73	.80	--	.110
MAR										
22...	--	--	--	<.020	<.100	.160	.64	.80	--	.060

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAR , 1983								
22...	1346	4.00	26500	8.3	14.0	--	9.2	98
MAY								
18...	1410	1.00	33800	8.1	24.5	.30	6.5	88
18...	1412	5.00	34400	8.1	24.0	--	6.6	89
JUN								
22...	1415	1.00	30100	8.4	29.5	.50	6.8	99
22...	1417	5.00	33600	8.2	29.0	--	5.2	76

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

284246096112800 LINE 264 SITE 02--Continued

DATE	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
MAR , 1983							
22...	--	<.020	<.100	.160	.74	.90	.060
MAY							
18...	2.7	.060	<.100	.420	.48	.90	.130
18...	--	.040	<.100	.410	.39	.80	.130
JUN							
22...	2.8	<.020	<.100	.060	.94	1.0	.170
22...	--	<.020	<.100	<.060	--	.80	.220

283634096144200 LINE 300 SITE 01

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT , 1978								
03...	0855	1.00	30500	8.1	26.0	--	5.2	73
03...	0856	7.50	31000	8.1	26.5	--	6.0	85
MAY , 1979								
14...	1500	1.00	24000	8.4	25.0	--	10.4	141
14...	1501	3.00	24000	8.4	24.0	--	10.4	139
14...	1502	6.00	25000	8.2	23.0	--	7.8	102
OCT								
24...	1000	1.00	20900	8.2	21.5	--	7.9	95
24...	1005	10.0	20900	8.2	21.5	--	7.9	95
APR , 1980								
16...	1345	1.00	38000	8.0	19.5	--	8.0	99
16...	1348	8.00	37500	8.0	19.0	--	7.9	97
OCT								
08...	1126	1.00	45000	8.3	24.5	.90	6.8	95
08...	1128	7.00	45200	8.3	24.0	--	6.8	94
APR , 1981								
01...	1328	1.00	--	7.9	22.0	.60	--	--
01...	1330	10.0	--	7.9	22.5	--	--	--
DEC								
02...	0923	1.00	31100	8.1	18.5	.50	7.8	93
02...	0925	8.00	30700	8.1	18.0	--	8.0	94
APR , 1982								
14...	0833	1.00	34500	8.0	21.0	.30	7.2	92
14...	0835	7.00	34000	8.1	21.0	--	7.2	91
NOV								
18...	1150	1.00	40500	8.1	17.0	.50	7.9	95
18...	1152	7.00	40900	8.1	17.0	--	7.9	95
FEB , 1983								
03...	1420	1.00	35800	8.2	12.5	.60	8.3	90
03...	1422	8.00	35800	8.2	12.5	--	8.3	90
MAR								
22...	1313	1.00	33500	8.3	14.0	.40	8.0	88
22...	1315	7.00	33500	8.3	14.0	--	8.4	92
MAY								
18...	0842	1.00	38700	8.0	23.0	.20	6.9	93
18...	0844	7.00	38400	8.1	23.0	--	6.7	90
JUN								
22...	1332	1.00	35400	8.4	29.5	.60	6.3	93
22...	1334	8.00	35700	8.4	28.5	--	5.4	79

283724096160100 LINE 300 SITE 02

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT , 1978								
03...	0908	1.00	29500	8.2	26.5	--	6.9	97
03...	0909	7.00	29500	8.2	26.5	--	6.9	97
03...	0910	14.0	30500	7.7	26.5	--	1.8	25
MAY , 1979								
14...	1513	1.00	23500	8.4	25.0	--	11.4	154
14...	1514	6.00	25000	8.2	23.0	--	7.4	98
14...	1515	12.0	25000	8.2	23.0	--	7.2	95

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283724096160100 LINE 300 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1979								
24...	1012	1.00	20600	8.2	21.0	--	8.1	96
24...	1015	6.50	20700	8.2	21.0	--	8.1	96
24...	1018	10.0	30200	8.1	23.0	--	6.1	78
24...	1020	13.0	30200	8.1	23.0	--	6.1	78
APR , 1980								
16...	1400	1.00	37000	8.1	19.0	--	8.3	101
16...	1402	8.00	37000	8.0	19.0	--	7.9	96
16...	1404	15.0	38000	8.0	18.5	--	7.6	92
OCT								
08...	1116	1.00	42500	8.3	23.5	.80	6.9	94
08...	1118	7.00	45400	8.3	24.0	--	6.8	94
08...	1120	15.0	46200	8.3	24.5	--	6.8	95
APR , 1981								
01...	1356	1.00	44700	8.1	21.5	.60	7.5	98
01...	1358	7.00	44200	8.1	21.5	--	7.4	96
01...	1400	14.0	45200	8.0	21.5	--	6.2	80
DEC								
02...	0931	1.00	29900	8.1	18.5	.60	7.2	85
02...	0933	7.00	30900	8.0	19.0	--	6.0	72
02...	0935	13.0	36900	7.9	20.0	--	6.5	81
APR , 1982								
14...	0815	1.00	35300	8.0	21.5	.30	7.1	91
14...	0817	7.00	35200	8.0	21.5	--	6.9	89
14...	0820	14.0	35400	8.0	21.5	--	6.9	89
NOV								
18...	0750	1.00	40800	8.1	16.5	1.00	7.9	94
18...	0752	6.50	40800	8.1	16.5	--	7.8	93
18...	0754	13.0	41300	8.0	16.5	--	7.2	86
FEB , 1983								
03...	0940	1.00	35700	8.3	12.5	.70	8.5	91
03...	0942	6.00	36000	8.2	12.5	--	8.3	89
03...	0944	12.5	36100	8.2	12.5	--	7.9	85
MAR , 1983								
22...	0844	1.00	33100	8.3	14.0	.40	8.6	94
22...	0846	6.00	33200	8.2	14.0	--	8.4	92
22...	0848	12.0	34800	7.9	15.0	--	7.6	86
MAY								
18...	0827	1.00	38500	8.0	23.0	.30	7.1	96
18...	0829	8.00	38900	8.0	23.0	--	6.7	90
18...	0831	17.0	38800	8.0	23.5	--	6.3	86
JUN								
22...	1450	1.00	35500	8.4	29.5	.40	6.3	93
22...	1452	7.00	35600	8.3	28.5	--	5.2	76

283816096170000 LINE 300 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)
OCT , 1978										
03...	0917	1.00	29000	8.1	26.5	--	6.5	91	.010	.010
03...	0918	6.00	29000	8.1	26.5	--	6.4	90	--	--
MAY , 1979										
14...	1528	1.00	23500	8.4	24.5	--	10.1	134	.010	<.010
14...	1529	3.00	23500	8.4	24.5	--	10.0	133	--	--
14...	1530	6.00	23500	8.2	23.0	--	7.2	95	--	--
OCT										
24...	1030	1.00	26000	8.2	21.0	--	7.9	96	.020	.000
24...	1032	3.00	27500	8.2	21.5	--	7.6	93	--	--
24...	1035	7.00	31500	8.1	23.0	--	6.2	80	--	--
APR , 1980										
16...	1409	1.00	36500	8.1	19.0	--	8.4	102	.000	.000
16...	1412	8.00	37000	8.0	19.0	--	8.0	98	--	--
OCT										
08...	0954	1.00	44000	8.2	24.0	.80	6.8	94	--	--
08...	0955	7.00	44000	8.2	24.0	--	6.7	92	--	--
APR , 1981										
01...	1408	1.00	40700	8.1	21.5	.70	7.1	91	--	--
01...	1410	6.50	41700	8.1	22.0	--	7.1	92	--	--
DEC										
02...	0943	1.00	30100	8.2	19.0	.70	7.8	93	--	--
02...	0945	5.00	30200	8.2	19.0	--	7.9	95	--	--
APR , 1982										
14...	0836	1.00	34500	8.0	21.5	.20	7.2	92	--	--
14...	0838	5.00	34700	8.0	21.5	--	7.3	94	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283816096170000 LINE 300 SITE 03--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)
NOV , 1982										
18...	0805	1.00	40400	8.1	16.0	.70	8.4	99	--	--
18...	0807	5.00	40500	8.1	16.0	--	8.5	100	--	--
FEB , 1983										
03...	0945	1.00	35500	8.2	12.0	1.00	9.1	96	--	--
03...	0947	6.00	35800	8.2	12.0	--	9.0	95	--	--
MAR										
22...	0854	1.00	33700	8.3	14.0	.30	8.7	95	--	--
22...	0856	6.00	33700	8.3	14.0	--	8.7	95	--	--
MAY										
18...	1348	1.00	3840D	8.1	25.0	.30	6.3	88	--	--
18...	1350	7.50	38700	8.1	24.0	--	6.2	85	--	--
JUN										
22...	0840	1.00	35300	8.3	28.5	.40	5.7	83	--	--
22...	0842	8.00	35100	8.3	28.5	--	5.3	77	--	--

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
OCT , 1978									
03...	.020	.040	.36	.40	.42	.040	--	--	--
03...	--	--	--	--	--	--	--	--	--
MAY , 1979									
14...	.010	.010	.49	.50	.51	.040	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
OCT									
24...	.020	.050	.52	.57	.59	.050	2	300	0
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
APR , 1980									
16...	.000	.030	.67	.70	.70	.030	--	--	--
16...	--	--	--	--	--	--	--	--	--
OCT									
08...	--	--	--	--	--	--	2	400	40
08...	--	--	--	--	--	--	--	--	--
APR , 1981									
01...	--	--	--	--	--	--	1	100	0
01...	--	--	--	--	--	--	--	--	--
DEC									
02...	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--
APR , 1982									
14...	--	--	--	--	--	--	1	<100	<1
14...	--	--	--	--	--	--	--	--	--
NOV									
18...	--	--	--	--	--	--	2	100	<1
18...	--	--	--	--	--	--	--	--	--
FEB , 1983									
03...	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--
MAR									
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
MAY									
18...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
JUN									
22...	--	--	--	--	--	--	1	<100	<1
22...	--	--	--	--	--	--	--	--	--

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT , 1978									
03...	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--
MAY , 1979									
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283816096170000 LINE 300 SITE 03--Continued

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
OCT , 1979									
24...	10	0	70	5	20	.1	0	0	20
24...	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--
APR , 1980									
16...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
OCT									
08...	20	80	130	200	30	.2	0	0	30
08...	--	--	--	--	--	--	--	--	--
APR , 1981									
01...	40	0	240	0	30	.8	0	0	60
01...	--	--	--	--	--	--	--	--	--
DEC									
02...	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--
APR , 1982									
14...	30	2	70	3	30	.1	<1	<1	30
14...	--	--	--	--	--	--	--	--	--
NOV									
18...	40	4	170	<1	40	.1	<1	<1	50
18...	--	--	--	--	--	--	--	--	--
FEB , 1983									
03...	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--
MAR									
22...	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--
MAY									
18...	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--
JUN									
22...	20	5	80	<1	20	.1	<1	<1	30
22...	--	--	--	--	--	--	--	--	--

DATE	TIME	SAMPLING DEPTH (FEET)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDE, TOTAL (UG/L)
OCT , 1979											
24...	1030	1.00	.0	.00	.000	.0	.0	.00	.000	.1	.000

DATE	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)
OCT , 1979										
24...	.6	.000	.0	.00	.000	.0	.000	.000	.0	.00

DATE	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARATHION, TOTAL (UG/L)
OCT , 1979										
24...	.000	.0	.000	.0	.000	.2	.00	.00	.0	.00

DATE	METHYL TRITHION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT , 1979										
24...	.00	.00	.00	.0	.0	.00	.00	.01	.00	.00

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

284000096002900 LINE 310 SITE 2

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
18...	1346	1.00	28000	6.5	23.5	--	7.1	95
18...	1347	8.00	29000	8.2	24.0	--	6.8	92
18...	1348	17.0	32000	6.4	24.5	--	5.9	82
APR , 1979								
19...	1112	1.00	13000	8.5	23.5	--	6.7	84
19...	1115	7.50	13000	8.5	23.5	--	6.7	84
19...	1120	15.0	13000	8.5	23.0	--	6.5	80
OCT								
25...	1022	1.00	24000	8.8	22.0	--	7.2	88
25...	1025	8.00	25000	8.8	22.0	--	7.1	87
25...	1030	15.0	25500	8.8	22.0	--	7.1	87
APR , 1980								
17...	0928	1.00	24500	8.0	19.5	.60	8.8	102
17...	0930	6.00	24500	8.0	19.5	--	8.4	98
17...	0932	12.0	26000	8.0	19.5	--	8.0	94
OCT								
16...	0955	1.00	35000	8.1	25.0	.40	6.6	90
16...	0957	14.0	34000	8.1	25.5	--	6.2	85
APR , 1981								
07...	1056	1.00	26000	8.2	21.0	.40	8.4	102
07...	1058	7.50	29000	8.2	21.0	--	7.7	94
07...	1100	15.0	30000	8.2	21.0	--	7.5	92
NOV								
23...	0950	1.00	13700	8.1	19.5	.30	7.4	84
23...	0952	8.00	16100	8.1	19.0	--	7.2	82
23...	0954	16.0	21100	8.1	19.0	--	7.0	81
APR , 1982								
19...	1327	1.00	25300	7.9	24.0	.40	5.9	77
19...	1328	9.00	26600	7.9	24.0	--	5.5	72
19...	1329	18.0	28500	7.9	24.0	--	5.2	68

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
18...	.040	.010	.050	.030	.47	.50	.55	.070
18...	--	--	--	--	--	--	--	--
18...	.040	.010	.050	.050	.63	.68	.73	.110
APR , 1979								
19...	.370	.040	.410	.110	.53	.64	1.1	.120
19...	--	--	--	--	--	--	--	--
19...	.590	.040	.630	.070	.53	.60	1.2	.140
OCT								
25...	.010	.020	.030	.070	.53	.60	.63	.100
25...	--	--	--	--	--	--	--	--
25...	.000	.020	.020	.060	.59	.65	.67	.080
APR , 1980								
17...	.420	.040	.460	.040	.55	.59	1.1	.090
17...	--	--	--	--	--	--	--	--
17...	.380	.040	.420	.D90	.41	.50	.92	.100
OCT								
16...	.060	.010	.070	.040	.84	.88	.95	.090
16...	.000	.000	.000	.020	.95	.97	.97	.080
APR , 1981								
07...	.260	.010	.270	.020	.67	.69	.96	.110
07...	--	--	--	--	--	--	--	--
07...	.190	.000	.190	.040	1.5	1.5	1.7	.110
NOV								
23...	--	<.030	.240	.080	.67	.75	.99	.090
23...	--	--	--	--	--	--	--	--
23...	.120	.040	.160	.110	.61	.72	.88	.080
APR , 1982								
19...	--	<.020	.170	.190	.66	.85	1.0	.050
19...	--	--	--	--	--	--	--	--
19...	.200	.020	.220	.210	.64	.85	1.1	.070

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283702095583300 LINE 330 SITE 2

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
MAR , 1979											
27...	1040	1.00	7400	7.8	20.0	--	7.8	90	740	640	80
27...	1042	4.00	8400	7.7	20.0	--	7.6	89	--	--	--
27...	1700	1.00	8300	7.8	20.0	--	7.8	91	--	--	--
27...	1702	5.00	18000	7.9	20.0	--	7.4	90	--	--	--
27...	1704	9.00	20000	7.8	20.0	--	7.4	90	--	--	--
28...	1703	1.00	20500	8.0	21.0	--	7.6	94	--	--	--
28...	1705	10.0	31500	8.1	21.0	--	7.6	99	--	--	--
OCT , 1980											
16...	0854	1.00	45000	8.1	24.5	.40	6.3	89	--	--	--
16...	0856	10.0	45000	8.1	25.0	--	6.3	90	--	--	--
APR , 1981											
07...	0953	1.00	39000	8.2	21.0	.40	8.1	103	--	--	--
07...	0955	11.0	48000	8.1	25.5	--	7.6	109	--	--	--
NOV											
23...	0855	1.00	20800	8.4	18.5	.30	7.5	86	--	--	--
23...	0857	7.00	22600	8.4	18.5	--	7.2	83	--	--	--
APR , 1982											
19...	1440	1.00	37700	8.1	24.0	.20	6.8	93	--	--	--
19...	1442	9.00	37800	8.0	24.0	--	6.8	93	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
MAR , 1979										
27...	130	1100	18	44	120	98	0	280	1900	.40
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--
OCT , 1980										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAR , 1979										
27...	6.9	3600	.240	.020	.260	.010	.60	.61	.87	.110
27...	--	--	.190	.020	.210	.010	.69	.70	.91	.150
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
28...	--	--	.130	.020	.150	.010	.52	.53	.68	.080
28...	--	--	.100	.020	.120	.020	1.1	1.1	1.2	.190
OCT , 1980										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283608096011400 LINE 333 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT , 1978											
03...	0915	1.00	36600	7.9	26.0	.50	6.0	85	4000	3900	260
03...	0916	3.50	39000	7.9	26.0	--	6.0	86	--	--	--
MAR , 1979											
27...	1206	1.00	32000	8.2	21.0	--	8.5	110	--	--	--
27...	1208	3.00	32000	8.1	21.0	--	8.5	110	--	--	--
27...	1743	1.00	31500	8.1	23.5	--	8.8	120	--	--	--
27...	1745	4.00	31500	8.1	22.0	--	8.8	118	--	--	--
MAY											
14...	1615	1.00	22000	8.6	24.5	--	9.2	122	2100	2000	150
14...	1620	6.00	22000	8.7	24.0	--	9.2	121	--	--	--
15...	1242	1.00	21000	8.7	23.0	--	--	--	--	--	--
15...	1244	4.00	13000	8.7	23.5	--	--	--	--	--	--
15...	1246	8.00	22000	8.6	23.0	--	--	--	--	--	--
OCT											
24...	1203	1.00	36600	8.1	19.0	--	8.2	100	4600	4400	200
24...	1206	5.00	36000	8.1	19.5	--	8.1	99	--	--	--
APR , 1980											
16...	1222	1.00	37000	8.0	19.5	--	8.5	105	4400	4300	280
16...	1225	3.00	37000	8.0	19.5	--	8.0	99	--	--	--
OCT											
08...	1203	1.00	35500	8.3	23.5	.80	8.2	108	--	--	--
08...	1205	3.50	31500	8.4	23.0	--	8.2	105	--	--	--
08...	1207	5.00	39000	8.3	24.5	--	6.6	90	--	--	--
APR , 1981											
01...	1200	1.00	38700	8.0	23.0	.10	--	--	4600	4500	310
01...	1202	4.00	--	8.0	23.0	--	--	--	--	--	--
DEC											
02...	1035	1.00	27600	--	17.5	.10	8.0	92	3000	2800	220
02...	1037	4.00	--	--	18.5	--	--	--	--	--	--
APR , 1982											
14...	1040	1.00	34500	8.1	22.0	.20	6.9	89	4200	4100	260
14...	1045	4.50	34700	8.1	22.0	--	6.9	89	--	--	--
NOV											
18...	1104	1.00	37700	8.1	18.0	.40	8.5	103	4600	4500	300
18...	1106	4.00	36800	8.1	18.0	--	8.7	105	--	--	--
FEB , 1983											
03...	1325	1.00	32300	8.1	11.5	.50	9.3	96	3900	3800	260
03...	1327	2.00	31500	8.1	11.0	--	9.5	97	--	--	--
MAR											
22...	1143	1.00	23800	8.3	13.0	.00	8.7	90	1300	1200	200
22...	1145	2.00	22500	8.4	13.0	--	8.9	91	--	--	--
MAY											
18...	1052	1.00	37200	8.1	23.5	.30	6.6	89	4600	4500	--
18...	1054	5.00	37900	8.1	23.5	--	6.7	91	--	--	--
JUN											
22...	1220	1.00	28900	8.3	30.0	.40	6.2	90	3400	3300	--
22...	1222	4.00	35600	8.3	28.5	--	5.8	84	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978										
03...	810	7500	52	290	150	123	0	1800	12000	.70
03...	--	--	--	--	--	--	--	--	--	--
MAR , 1979										
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAY										
14...	420	3400	33	150	140	115	0	870	5900	.60
14...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
OCT										
24...	990	7700	50	160	170	139	0	2000	14000	.60
24...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
16...	900	7400	49	290	150	123	0	1800	14000	.90
16...	--	--	--	--	--	--	--	--	--	--
OCT										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
01...	940	7900	51	280	--	150	--	2000	15000	.70
01...	--	--	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283608096011400 LINE 333 SITE 01--Continued

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
DEC , 1981										
02...	590	5100	41	180	--	140	--	1200	9200	.60
02...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
14...	860	7300	49	230	--	130	--	1900	13000	.70
14...	--	--	--	--	--	--	--	--	--	--
NOV , 1982										
18...	940	8000	52	270	--	130	--	2000	14000	.60
18...	--	--	--	--	--	--	--	--	--	--
FEB , 1983										
03...	800	6100	43	220	--	120	--	1700	11000	.60
03...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	200	4900	60	170	--	120	--	1200	7900	.60

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978										
03...	5.8	23000	.010	<.010	.010	.030	.47	.50	.51	.090
03...	--	--	--	--	--	--	--	--	--	--
MAR , 1979										
27...	--	--	.000	<.010	<.100	.010	.40	.41	.41	.040
27...	--	--	.000	<.010	<.100	.010	.40	.41	.41	.030
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAY										
14...	2.7	11000	.020	.020	.040	<.010	.56	.56	.60	.060
14...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
OCT										
24...	2.4	25000	.000	.020	.020	.030	.64	.67	.69	.070
24...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
16...	1.0	25000	.000	.000	.000	.110	.55	.66	.66	.040
16...	--	--	--	--	--	--	--	--	--	--
OCT										
08...	--	--	.000	.000	.000	.000	.95	.95	.95	.070
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
01...	.7	27000	.000	.010	.010	.030	1.2	1.2	1.2	.130
01...	--	--	--	--	--	--	--	--	--	--
DEC										
02...	3.7	17000	--	<.020	.110	<.070	--	.33	.44	.060
02...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
14...	.2	24000	--	.020	<.100	.100	.73	.83	--	.050
14...	--	--	--	--	--	--	--	--	--	--
NOV										
18...	1.6	26000	--	<.020	<.100	<.060	--	1.0	--	.060
18...	--	--	--	--	--	--	--	--	--	--
FEB , 1983										
03...	<1.2	20000	--	<.020	<.100	.060	.64	.70	--	.140
03...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	3.0	15000	.180	.020	.200	.200	1.1	1.3	1.5	.130

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
MAR , 1983										
22...	--	--	--	--	--	--	--	--	--	--
MAY										
18...	320	920	7600	49	240	120	2000	14000	.60	<1.2
18...	--	--	--	--	--	--	--	--	--	--
JUN										
22...	240	680	5300	40	190	120	1400	9300	.60	1.6
22...	--	--	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283608096011400 LINE 333 SITE 01--Continued

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
MAR , 1983									
22...	--	--	--	--	--	--	--	--	--
MAY									
18...	--	--	.030	<.100	.370	.23	.60	--	.140
18...	--	--	--	--	--	--	--	--	--
JUN									
22...	17000	.080	.020	.100	<.060	--	1.1	1.2	.150
22...	--	--	--	--	--	--	--	--	--

283700096013400 LINE 333 SITE 2

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAR , 1979							
27...	1213	1.00	28500	8.0	22.0	8.3	109
27...	1215	3.00	28500	8.0	23.0	8.4	112
27...	1748	1.00	31000	8.1	23.0	9.7	131
27...	1750	4.00	31000	8.1	22.5	9.7	129

283749096015500 LINE 333 SITE 3

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
MAR , 1979								
27...	1220	1.00	12500	8.0	22.0	8.6	105	.380
27...	1222	3.00	12500	8.0	22.0	8.5	104	--
27...	1800	1.00	12500	8.0	24.5	8.2	104	--
27...	1802	3.00	12500	8.0	22.5	8.0	99	--
MAY								
15...	1228	1.00	17000	8.7	23.5	--	--	--
15...	1230	3.00	16000	8.7	23.5	--	--	--
15...	1232	7.00	21000	9.4	23.0	--	--	--

DATE	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
MAR , 1979							
27...	.020	.400	.020	.51	.53	.93	.100
27...	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--
MAY							
15...	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--

283518096034400 LINE 340 SITE 1

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
MAR , 1979								
27...	1030	1.00	40000	8.1	20.0	7.4	99	.000
27...	1035	4.00	40000	8.0	--	--	--	.000
27...	1830	1.00	36000	8.1	23.0	8.0	110	--
27...	1832	4.00	36000	8.1	22.5	8.0	108	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283518096034400 LINE 340 SITE 1--Continued

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAR , 1979							
27...	<.010	<.100	.010	.27	.28	.28	.040
27...	<.010	<.100	.010	.42	.43	.43	.050
27...	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--

283617096041600 LINE 340 SITE 2

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR , 1979							
27...	1040	1.00	36000	8.2	21.0	7.2	97
27...	1043	4.00	35000	8.2	21.0	7.3	97
27...	1045	7.00	38000	8.1	--	--	--
27...	1820	1.00	33500	8.2	22.5	8.1	109
27...	1822	5.00	34500	8.1	22.5	7.7	104

283704096044200 LINE 340 SITE 3

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR , 1979							
27...	1049	1.00	38000	8.2	21.0	7.2	95
27...	1052	5.00	36000	8.1	--	--	--
27...	1810	1.00	17500	8.0	23.5	8.1	104
27...	1812	3.00	19000	7.9	23.5	8.1	104

283327096080000 LINE 345 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
03...	0905	1.00	32500	8.0	26.0	--	6.3	89
03...	0906	2.50	37000	8.0	26.0	--	62.0	89
MAR , 1979								
27...	1130	1.00	40000	8.3	20.0	--	7.3	98
27...	1134	4.00	40000	8.3	--	--	--	--
27...	1802	1.00	40000	9.1	22.0	--	7.5	102
27...	1804	4.00	40000	9.2	21.0	--	7.4	100
MAY								
14...	1648	1.00	24000	8.7	23.0	--	8.8	115
14...	1650	5.00	24000	8.5	23.0	--	7.2	95
14...	1652	7.00	21000	8.4	22.0	--	7.6	96
OCT								
24...	1111	1.00	34000	8.0	20.0	--	7.3	89
24...	1114	7.00	36000	8.0	20.5	--	7.3	91
APR , 1980								
16...	1202	1.00	37000	8.0	18.0	--	8.4	100
16...	1204	7.00	39000	8.0	18.0	--	7.9	95
OCT								
08...	1121	1.00	45000	8.2	23.5	.80	7.1	97
08...	1123	4.00	40500	8.3	23.0	--	7.3	97
08...	1125	5.50	42500	8.2	23.5	--	7.0	95
08...	1127	7.00	45000	8.1	24.0	--	5.6	78

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283327096080000 LINE 345 SITE 01--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1981								
01...	1220	1.00	--	7.9	22.5	.20	--	--
01...	1222	7.00	--	7.9	22.5	--	--	--
DEC								
02...	1115	1.00	--	--	18.5	.40	--	--
02...	1117	6.00	--	--	19.0	--	--	--
APR , 1982								
14...	0955	1.00	36500	8.1	22.0	.50	7.1	93
14...	0958	7.50	36400	8.1	22.0	--	7.0	91
NOV								
18...	1025	1.00	38900	8.1	16.5	.50	8.3	98
18...	1027	7.00	39500	8.1	16.5	--	8.4	100
FEB , 1983								
03...	1212	1.00	33800	8.2	12.0	.30	8.5	90
03...	1214	7.00	33800	8.2	12.0	--	8.5	90
MAR								
22...	1110	1.00	30300	8.3	14.0	.10	8.5	92
22...	1112	6.00	30700	8.3	14.0	--	8.5	92
MAY								
18...	1118	1.00	39300	8.1	23.5	.30	6.5	89
18...	1120	8.00	39700	8.1	23.0	--	6.4	87
JUN								
22...	1132	1.00	37900	8.3	29.0	.40	5.5	82
22...	1135	8.00	38000	8.3	28.5	--	4.8	71

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
03...	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--
MAR , 1979								
27...	.000	<.010	<.100	.010	.36	.37	.37	.030
27...	.000	<.010	<.100	.010	.30	.31	.31	.030
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
MAY								
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
OCT								
24...	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--
APR , 1980								
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
OCT								
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
APR , 1981								
01...	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--
DEC								
02...	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--
APR , 1982								
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
NOV								
18...	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--
FEB , 1983								
03...	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--
MAR								
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283445096084200 LINE 345 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
02...	1910	1.00	39000	8.2	26.5	--	6.7	97
02...	1911	4.00	40000	8.2	26.5	--	6.7	97
03...	0845	1.00	39000	8.0	25.5	--	6.3	89
03...	0846	4.00	40000	8.0	25.5	--	6.5	93
MAR , 1979								
27...	1120	1.00	39000	8.2	19.0	--	7.6	98
27...	1122	5.00	39000	8.2	19.0	--	7.5	97
27...	1125	10.0	38000	8.2	--	--	--	--
27...	1810	1.00	40500	9.2	21.0	--	7.5	101
27...	1812	4.00	40000	9.2	21.0	--	7.6	102
27...	1815	9.00	40000	9.2	21.0	--	7.4	100
MAY								
14...	1634	1.00	21000	8.7	23.5	--	9.1	118
14...	1636	3.00	20000	8.7	23.5	--	9.2	118
14...	1638	5.00	23000	8.7	23.5	--	8.9	116
14...	1640	7.00	25000	8.5	23.0	--	7.6	98
14...	1815	1.00	27000	8.4	24.5	--	9.4	127
14...	1816	4.00	27000	8.4	24.5	--	9.2	124
14...	1817	8.00	27000	8.3	24.0	--	9.0	122
15...	0655	1.00	26000	8.4	23.5	--	7.9	105
15...	0656	4.50	27000	8.4	23.5	--	7.9	105
15...	0657	9.00	27000	8.4	23.5	--	7.9	105
OCT								
24...	1227	1.00	35000	8.0	21.0	--	8.0	100
24...	1230	7.00	40000	8.0	21.0	--	7.6	97
APR , 1980								
16...	1242	1.00	34000	8.1	19.0	--	8.8	106
16...	1245	7.00	37000	8.1	18.5	--	8.3	100
OCT								
08...	1214	1.00	39500	8.4	24.0	.70	7.9	107
08...	1216	4.50	44500	8.4	24.0	--	7.7	106
08...	1218	7.00	41500	8.3	24.5	--	6.6	91
08...	1220	8.00	38500	8.3	24.5	--	6.6	90
APR , 1981								
01...	1233	1.00	--	8.0	22.0	.40	--	--
01...	1235	8.00	--	8.0	22.0	--	--	--
DEC								
02...	1130	1.00	--	--	19.5	.60	--	--
02...	1132	8.00	--	--	19.0	--	--	--
02...	1210	1.00	--	--	19.5	.40	--	--
02...	1212	11.0	--	--	20.0	--	--	--
APR , 1982								
14...	1000	1.00	34100	8.0	21.5	.40	7.4	95
14...	1002	8.00	33900	8.0	21.5	--	7.2	92
NOV								
18...	1035	1.00	40300	8.1	17.0	.00	7.8	94
18...	1037	7.00	40400	8.1	17.0	--	8.0	96
FEB , 1983								
03...	1225	1.00	33000	8.3	13.0	.50	8.4	90
03...	1227	7.50	33000	8.2	13.0	--	8.4	90
MAR								
22...	1217	1.00	33100	8.3	14.5	.20	8.2	91
22...	1219	8.00	33200	8.3	14.5	--	8.5	94
MAY								
18...	0945	1.00	38700	8.1	23.5	.20	6.6	90
18...	0947	10.0	39900	8.1	23.5	--	6.3	86
JUN								
22...	1144	1.00	37800	8.3	29.5	.30	5.4	81
22...	1146	10.0	37900	8.3	28.5	--	5.3	78

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
02...	.010	<.010	.010	.010	.42	.43	.44	.060
02...	.000	.010	.010	.030	.58	.61	.62	.070
03...	.010	<.010	.010	.010	.52	.53	.54	.060
03...	.000	.010	.010	.010	.53	.54	.55	.060
MAR , 1979								
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283445096084200 LINE 345 SITE 02--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979								
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--
14...	.010	<.010	.010	.010	.50	.51	.52	.050
14...	--	--	--	--	--	--	--	--
14...	.010	<.010	.010	<.010	.57	.57	.58	.060
15...	.010	<.010	.010	.020	.46	.48	.49	.040
15...	--	--	--	--	--	--	--	--
15...	.010	<.010	.010	.010	.55	.56	.57	.070
OCT								
24...	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--
APR , 1980								
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
OCT								
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
APR , 1981								
01...	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--
DEC								
02...	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--

283557096092100 LINE 345 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
03...	0925	1.00	39000	8.1	26.0	.70	6.3	90
03...	0926	4.00	39000	8.1	26.0	--	6.0	86
03...	0951	11.0	43000	8.0	25.5	--	5.3	72
MAR , 1979								
27...	1108	1.00	24000	8.1	22.0	--	7.4	95
27...	1113	5.00	25000	8.1	--	--	--	--
27...	1820	1.00	27500	8.5	22.5	--	7.7	101
27...	1822	3.00	30000	8.5	20.0	--	7.7	98
27...	1824	7.00	46000	8.5	19.0	--	7.2	97
MAY								
14...	1550	1.00	12000	8.7	24.0	--	9.1	115
14...	1553	7.00	10000	8.7	23.5	--	9.0	111
OCT								
24...	1232	1.00	33000	8.1	20.5	--	8.0	98
24...	1237	5.00	33000	8.0	20.5	--	7.9	97
APR , 1980								
16...	1251	1.00	35500	8.1	20.0	--	8.8	109
16...	1254	4.00	35000	8.1	20.0	--	8.3	102
OCT								
08...	1230	1.00	39000	8.3	24.0	.30	7.2	97
08...	1232	4.00	40000	8.3	23.5	--	6.8	91
APR , 1981								
01...	1245	1.00	--	8.0	22.5	.10	--	--
01...	1247	5.00	--	8.0	22.5	--	--	--
DEC								
02...	1150	1.00	--	--	19.0	--	--	--
02...	1152	5.00	--	--	18.5	--	--	--
APR , 1982								
14...	1012	1.00	33200	8.0	22.5	.20	7.2	94
14...	1015	4.50	33100	8.0	22.5	--	7.2	94
NOV								
18...	1040	1.00	40200	8.1	17.0	.50	8.1	97
18...	1042	5.00	40200	8.1	17.0	--	8.1	97
FEB , 1983								
03...	1240	1.00	33100	8.2	12.5	.40	8.5	90
03...	1242	3.50	33000	8.2	12.5	--	8.6	91
MAR								
22...	1228	1.00	32400	8.4	14.0	.00	8.3	91
22...	1230	4.00	32400	8.4	14.0	--	8.6	94
MAY								
18...	0956	1.00	36000	8.1	23.5	.30	6.8	91

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283557096092100 LINE 345 SITE 03--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
03...	.010	<.010	.010	.010	.39	.40	.41	.060
03...	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--
MAR , 1979								
27...	.150	.020	.170	.060	.53	.59	.76	.080
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
MAY								
14...	.010	<.010	.010	<.010	.55	.55	.56	.040
14...	--	--	--	--	--	--	--	--
OCT								
24...	.000	.020	.020	.020	.87	.89	.91	.060
24...	--	--	--	--	--	--	--	--
APR , 1980								
16...	.000	.000	.000	.030	.97	1.0	1.0	.040
16...	--	--	--	--	--	--	--	--
OCT								
08...	.000	.000	.000	.000	.97	.97	.97	.080
08...	--	--	--	--	--	--	--	--
APR , 1981								
01...	.010	.010	.020	.040	.76	.80	.82	.130
01...	--	--	--	--	--	--	--	--
DEC								
02...	--	<.020	<.100	.030	.22	.25	--	.190
02...	--	--	--	--	--	--	--	--
APR , 1982								
14...	--	<.020	<.100	.090	2.1	2.2	--	.050
14...	--	--	--	--	--	--	--	--
NOV								
18...	--	<.020	<.100	<.060	--	.80	--	.060
18...	--	--	--	--	--	--	--	--
FEB , 1983								
03...	--	<.020	<.100	<.060	--	.80	--	.140
03...	--	--	--	--	--	--	--	--
MAR								
22...	--	<.020	<.100	.160	.84	1.0	--	.180
22...	--	--	--	--	--	--	--	--
MAY								
18...	--	.040	<.100	.210	.39	.60	--	.160

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)
MAY , 1983							
18...	0958	5.50	37500	8.1	23.5	--	6.7
JUN							
22...	1156	1.00	33800	8.3	29.0	.60	6.0
22...	1158	6.00	36100	8.3	29.0	--	5.1

DATE	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1983						
18...	91	--	--	--	--	--
JUN						
22...	88	.020	<.100	<.060	.70	.170
22...	75	--	--	--	--	--

283145096113700 LINE 350 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
03...	0950	1.00	42000	8.1	25.5	--	5.7	82
03...	0951	11.0	43000	8.0	25.5	--	5.3	72

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283145096113700 LINE 350 SITE 01--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR , 1979								
27...	1140	1.00	40000	8.2	19.0	--	7.5	98
27...	1143	4.00	40000	8.2	19.0	--	7.5	98
27...	1147	9.00	40000	8.2	--	--	--	--
27...	1755	1.00	0	8.2	21.0	--	7.6	102
27...	1756	4.00	39500	8.2	21.0	--	7.6	102
27...	1759	8.00	39500	8.2	21.0	--	7.5	100
MAY								
14...	1715	1.00	24000	8.6	22.5	--	8.4	109
14...	1720	10.0	27000	8.4	22.0	--	7.8	101
OCT								
24...	1050	1.00	36000	8.0	21.5	--	7.4	94
24...	1053	5.00	36000	8.0	21.5	--	7.4	94
24...	1055	10.0	35500	8.0	21.0	--	7.3	91
APR , 1980								
16...	1148	1.00	39000	8.0	18.0	--	7.9	95
16...	1150	9.00	39000	8.0	18.0	--	7.6	92
OCT								
08...	1101	1.00	45000	8.4	23.5	.70	7.3	100
08...	1103	5.00	46000	8.3	23.5	--	7.3	101
08...	1105	9.00	44000	8.3	24.0	--	6.8	94
APR , 1981								
01...	1033	1.00	--	8.1	22.0	.60	--	--
01...	1035	9.00	--	8.1	22.0	--	--	--
DEC								
02...	1240	1.00	--	--	20.0	.60	--	--
02...	1242	9.00	--	--	20.0	--	--	--
APR , 1982								
14...	0935	1.00	36000	8.0	20.5	.40	7.3	92
14...	0937	7.50	36000	8.0	20.5	--	7.1	90
NOV								
18...	1005	1.00	39600	8.1	16.5	.50	8.2	97
18...	1007	4.50	39600	8.1	16.5	--	8.2	97
18...	1009	9.00	40000	8.1	16.5	--	8.3	99
FEB , 1983								
03...	1150	1.00	34700	8.3	13.0	.50	8.4	91
03...	1152	5.00	34700	8.2	13.0	--	8.4	91
03...	1154	10.0	34700	8.2	12.5	--	8.4	90
MAR								
22...	1056	1.00	33500	8.3	14.0	.10	8.4	92
22...	1058	8.00	33400	8.3	14.0	--	8.6	94
MAY								
18...	1132	1.00	39700	8.2	23.5	.50	6.9	94
18...	1134	3.00	39400	8.2	23.5	--	6.8	93
JUN								
22...	1118	1.00	37700	8.3	29.0	.40	5.1	76
22...	1120	10.0	37700	8.2	28.0	--	4.9	71

283315096123200 LINE 350 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT , 1978											
03...	0955	1.00	39000	8.1	25.5	1.10	6.3	90	--	--	--
03...	0956	5.00	39000	8.1	26.0	--	6.2	89	--	--	--
03...	0957	14.0	40000	8.1	26.0	--	6.1	9	--	--	--
MAR , 1979											
27...	1152	1.00	39000	8.3	19.5	--	7.7	100	--	--	--
27...	1159	7.00	39000	8.3	19.0	--	7.6	98	--	--	--
27...	1204	15.0	39000	8.2	--	--	--	--	4300	4200	270
27...	1740	1.00	38500	8.2	21.0	--	7.5	100	--	--	--
27...	1743	7.00	39000	8.2	21.0	--	7.4	99	--	--	--
27...	1745	15.0	39000	8.1	21.0	--	7.3	98	--	--	--
MAY											
14...	1524	1.00	13000	8.7	22.0	--	8.7	106	--	--	--
14...	1526	10.0	12000	8.6	22.0	--	7.8	95	--	--	--
14...	1530	20.0	14000	8.7	22.5	--	7.9	99	--	--	--
OCT											
24...	1252	1.00	31500	8.1	21.5	--	7.5	93	--	--	--
24...	1255	8.00	32000	8.0	21.5	--	7.2	90	--	--	--
24...	1258	15.0	35000	8.0	22.0	--	6.4	82	--	--	--
APR , 1980											
16...	1318	1.00	36500	8.0	19.0	--	8.4	102	--	--	--
16...	1320	8.00	36000	8.0	18.5	--	8.0	96	--	--	--
16...	1332	16.0	36000	8.0	18.5	--	7.6	91	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283315096123200 LINE 350 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
OCT , 1980											
08...	1049	1.00	45000	8.3	24.0	.60	7.3	101	--	--	--
08...	1051	7.50	46000	8.3	24.0	--	6.3	88	--	--	--
08...	1053	16.0	46000	8.3	24.0	--	6.1	85	--	--	--
APR , 1981											
01...	1046	1.00	--	8.1	22.0	.50	--	--	--	--	--
01...	1048	10.0	--	8.1	22.0	--	--	--	--	--	--
01...	1050	20.0	--	8.0	21.5	--	--	--	--	--	--
APR , 1982											
14...	0924	1.00	35600	8.1	21.0	.40	7.5	96	--	--	--
14...	0927	8.50	35500	8.1	20.5	--	7.2	91	--	--	--
14...	0930	17.0	35400	8.0	21.0	--	7.3	93	--	--	--
NOV											
18...	0952	1.00	40500	8.1	16.5	.60	7.7	92	--	--	--
18...	0954	8.00	40500	8.1	16.5	--	7.8	93	--	--	--
18...	0956	16.0	40600	8.1	16.5	--	7.9	94	--	--	--
FEB , 1983											
03...	1140	1.00	35300	8.2	12.5	.50	8.3	89	--	--	--
03...	1142	8.00	35400	8.2	12.5	--	8.3	89	--	--	--
03...	1144	16.0	35500	8.2	12.0	--	8.3	88	--	--	--
MAR											
22...	1254	1.00	34000	8.3	14.0	.20	8.3	91	--	--	--
22...	1256	14.0	34700	8.3	14.0	--	8.3	92	--	--	--
MAY											
18...	0912	1.00	39100	8.1	23.0	.30	6.7	90	--	--	--
18...	0914	8.00	39300	8.1	23.0	--	6.6	89	--	--	--
18...	0916	16.0	39300	8.1	23.0	--	6.6	89	--	--	--
JUN											
22...	1300	1.00	36300	8.4	28.5	--	5.8	85	--	--	--
22...	1302	12.0	36500	8.3	28.5	--	5.6	82	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
MAR , 1979										
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	880	7600	51	300	140	115	0	2000	13000	.70
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAY										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
OCT										
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
OCT										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
NOV										
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
FEB , 1983										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283315096123200 LINE 350 SITE 02--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT , 1978										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
MAR , 1979										
27...	--	--	.000	<.010	<.100	.010	.30	.31	.31	.030
27...	--	--	--	--	--	--	--	--	--	--
27...	13	24000	.000	<.010	<.100	.010	.37	.38	.38	.030
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
MAY										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
OCT										
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
OCT										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
NOV										
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
FEB , 1983										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--

283353096125600 LINE 350 SITE 03

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
OCT , 1978								
03...	1004	1.00	37000	8.1	25.5	1.60	6.3	90
03...	1005	6.50	40000	8.1	26.0	--	6.2	89
MAR , 1979								
27...	1208	1.00	38000	8.2	20.5	--	7.4	99
27...	1209	4.00	38500	8.2	21.0	--	7.5	100
27...	1215	7.00	38500	8.2	--	--	--	--
27...	1731	1.00	38000	8.2	21.0	--	7.7	102
27...	1733	4.00	38000	8.2	21.0	--	7.7	102
27...	1735	8.00	39000	8.2	22.0	--	7.8	105
MAY								
14...	1510	1.00	9400	9.0	23.0	--	8.3	102
14...	1512	4.50	13000	8.9	22.0	--	8.4	102
14...	1515	9.00	13000	8.8	22.0	--	8.3	101
OCT								
24...	1305	1.00	33000	8.1	22.5	--	7.2	92
24...	1310	5.00	33000	8.1	22.5	--	7.1	91
APR , 1980								
16...	1330	1.00	37000	8.1	19.0	--	8.3	101
16...	1332	5.00	37000	8.1	19.0	--	8.1	99
OCT								
08...	1246	1.00	44000	8.3	24.0	.40	6.8	94
08...	1248	4.00	44000	8.3	23.5	--	6.6	90
08...	1250	7.00	44000	8.2	23.5	--	6.1	83

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283353096125600 LINE 350 SITE 03--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1980								
16...	1330	1.00	37000	8.1	19.0	--	8.3	101
16...	1332	5.00	37000	8.1	19.0	--	8.1	99
OCT								
08...	1246	1.00	44000	8.3	24.0	.40	6.8	94
08...	1248	4.00	44000	8.3	23.5	--	6.6	90
08...	1250	7.00	44000	8.2	23.5	--	6.1	83
APR , 1981								
01...	1058	1.00	--	8.0	22.0	.30	--	--
01...	1100	7.00	--	8.0	22.0	--	--	--
DEC								
02...	1220	1.00	--	--	19.0	.40	--	--
02...	1222	8.00	--	--	19.5	--	--	--
APR , 1982								
14...	0907	1.00	34600	8.0	21.5	.30	7.2	92
14...	0910	17.0	35500	8.0	21.0	--	7.0	89
NOV								
18...	0940	1.00	40400	8.1	16.5	.70	7.9	94
18...	0942	4.00	40400	8.1	16.5	--	7.9	94
18...	0944	8.00	40500	8.1	16.5	--	7.8	93
FEB , 1983								
03...	1400	1.00	35800	8.2	13.0	.50	8.5	93
03...	1402	7.50	35800	8.2	13.0	--	8.4	92
MAR								
22...	1258	1.00	33300	8.3	14.0	.10	8.3	91

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
03...	.010	<.010	.010	.020	.47	.49	.50	.030
03...	.000	.010	.010	.010	.36	.37	.38	.060
MAR , 1979								
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--
MAY								
14...	.000	--	--	--	.59	--	.63	--
14...	--	--	--	--	--	--	--	--
14...	.030	.020	.050	.050	.59	.64	.69	.080
OCT								
24...	.020	.000	.020	.020	.87	.89	.91	.070
24...	.030	.000	.030	.020	.44	.46	.49	.050
APR , 1980								
16...	.000	.000	.000	.070	.76	.83	.83	.060
16...	.000	.000	.000	.100	2.3	2.4	2.4	.080
OCT								
08...	.000	.000	.000	.000	.79	.79	.79	.060
08...	--	--	--	--	--	--	--	--
08...	.000	.000	.000	.000	.78	.78	.78	.080
APR , 1981								
01...	.010	.010	.020	.050	.72	.77	.79	.060
01...	.010	.010	.020	.040	.64	.68	.70	.070
DEC								
02...	--	<.020	<.100	<.070	--	.34	--	.180
02...	--	<.020	<.100	.040	.26	.30	--	.190
APR , 1982								
14...	--	<.020	<.100	.100	1.4	1.5	--	.030
14...	--	<.020	<.100	.080	.52	.60	--	.040

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283353096125600 LINE 350 SITE 03--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV , 1982								
18...	--	<.020	<.100	<.060	--	.70	--	.080
18...	--	--	--	--	--	--	--	--
18...	--	<.020	<.100	<.060	--	.80	--	.070
FEB , 1983								
03...	--	<.020	<.100	<.060	--	.60	--	.150
03...	--	<.020	<.100	<.060	--	.70	--	.160
MAR								
22...	--	<.020	<.100	.160	.94	1.1	--	.150

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)
MAR , 1983							
22...	1300	7.00	33400	8.3	14.0	--	8.3
MAY							
18...	0902	1.00	39600	8.1	23.5	.20	6.8
18...	0904	8.00	39800	8.1	23.5	--	6.5
JUN							
22...	1310	1.00	35200	8.4	29.0	.50	5.8
22...	1312	9.00	36900	8.3	28.5	--	4.7

DATE	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAR , 1983							
22...	91	.020	<.100	.170	.73	.90	.150
MAY							
18...	93	.090	<.100	.240	.36	.60	.170
18...	89	.030	<.100	.210	2.3	2.5	.170
JUN							
22...	85	.020	<.100	<.060	--	.60	.180
22...	69	<.020	<.100	<.060	--	.60	.190

282928096144600 LINE 363 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
05...	1023	1.00	32000	--	26.5	.80	6.2	87
05...	1024	5.00	32000	--	26.5	--	6.3	90
05...	1025	10.0	33000	--	26.5	--	4.8	68
OCT , 1979								
24...	1028	1.00	33000	8.1	21.0	--	7.8	96
24...	1030	4.00	32000	8.1	20.5	--	7.7	94
24...	1033	9.00	37000	8.1	20.0	--	7.6	94
APR , 1980								
16...	1130	1.00	39000	8.0	18.5	--	8.3	101
16...	1132	9.00	39000	8.0	18.0	--	8.0	97
OCT								
08...	1028	1.00	47000	8.2	24.0	--	6.7	94
08...	1030	5.00	47000	8.3	23.5	--	6.6	91
08...	1032	10.0	46000	8.3	23.5	--	6.7	92
APR , 1981								
01...	0948	1.00	--	8.1	21.5	.60	--	--
01...	0950	8.00	--	8.0	21.5	--	--	--
DEC								
02...	1300	1.00	--	--	19.5	.40	--	--
02...	1302	10.0	--	--	20.0	--	--	--
APR , 1982								
14...	0931	1.00	35200	8.1	20.5	.30	7.8	98
14...	0933	9.00	35200	8.1	20.5	--	7.7	97
NOV								
18...	0915	1.00	40600	8.1	16.5	.60	8.1	97
18...	0917	4.50	40700	8.1	16.5	--	8.1	97
18...	0919	9.00	41100	8.0	16.5	--	8.0	96

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

282928096144600 LINE 363 SITE 01--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
FEB , 1983								
03...	1110	1.00	36400	8.2	11.0	.50	8.9	93
03...	1112	3.00	36600	8.2	10.5	--	9.0	93
MAR								
22...	1030	1.00	37500	8.4	14.5	.30	8.2	92
22...	1032	7.00	46300	8.2	15.5	--	7.2	86
MAY								
18...	1153	1.00	37300	8.2	23.5	.80	6.7	90
18...	1155	7.00	39400	8.2	23.5	--	6.8	93
JUN								
22...	1100	1.00	37500	8.3	29.0	--	5.9	87
22...	1102	5.00	37500	8.3	28.5	--	5.8	85

283135096170500 LINE 363 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
05...	1035	1.00	34000	--	26.5	.60	7.3	104
05...	1036	5.00	34000	--	26.5	--	6.5	92
05...	1037	11.0	35000	--	26.5	--	5.8	83
OCT , 1979								
24...	1002	1.00	28500	8.1	21.5	--	7.5	92
24...	1005	4.00	29000	8.1	21.5	--	7.5	92
24...	1008	9.00	29000	8.1	21.0	--	7.5	92
APR , 1980								
16...	1110	1.00	39000	8.0	18.5	--	8.1	99
16...	1112	10.0	39000	8.0	18.0	--	7.4	89
OCT								
08...	1011	1.00	44000	7.9	23.5	.80	6.9	94
08...	1013	5.00	46000	7.9	23.5	--	6.8	94
08...	1015	7.50	45000	8.0	23.5	--	6.8	93
08...	1017	10.0	46000	8.1	24.5	--	6.0	84
APR , 1981								
01...	0928	1.00	--	8.0	21.0	.60	--	--
01...	0930	10.0	--	8.0	21.0	--	--	--
DEC								
02...	1315	1.00	--	--	19.5	.50	--	--
02...	1317	10.0	--	--	19.5	--	--	--
APR , 1982								
14...	0914	1.00	35300	8.1	20.5	.30	7.9	100
14...	0916	5.00	35300	8.1	20.5	--	8.8	99
14...	0918	10.0	35400	8.1	20.5	--	7.7	97
NOV								
18...	0900	1.00	41100	8.1	16.5	.60	8.2	98
18...	0902	5.00	41100	8.1	16.5	--	8.3	99
18...	0904	10.0	41200	8.0	16.5	--	8.7	104
FEB , 1983								
03...	1040	1.00	37000	8.2	12.5	.40	8.1	87
03...	1042	5.00	37100	8.1	12.5	--	8.2	88
03...	1044	11.0	37100	8.1	12.0	--	8.3	89
MAR								
22...	1006	1.00	35700	8.3	14.5	.20	8.3	93
22...	1008	10.0	35800	8.4	14.5	--	8.4	94
MAY								
18...	1204	1.00	38400	8.1	24.0	.50	6.3	86
18...	1206	13.0	39500	8.1	23.5	--	6.1	83
JUN								
22...	1044	1.00	36500	8.2	29.0	.40	5.7	84
22...	1046	12.0	36500	8.3	28.5	5.7	83	--

283432096194600 LINE 363 SITE 05--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT , 1978											
05...	1050	1.00	31600	--	26.5	.90	6.6	93	--	3400	3300
05...	1051	11.0	31300	--	26.0	--	6.4	90	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283432096194600 LINE 363 SITE 05--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
MAR , 1979											
27...	1233	1.00	37000	8.3	20.0	--	7.6	100	--	--	--
27...	1237	5.00	37000	8.3	19.5	--	7.4	98	--	--	--
27...	1239	10.0	37000	8.2	--	--	--	--	--	--	--
27...	1715	1.00	37000	8.1	20.0	--	7.7	101	--	--	--
27...	1717	5.00	37000	8.2	20.0	--	7.7	101	--	--	--
27...	1720	10.0	37000	8.2	20.0	--	7.6	100	--	--	--
OCT											
24...	0933	1.00	30100	8.2	21.0	--	8.1	99	1.4	3400	3300
24...	0938	5.00	30000	8.2	23.0	--	8.0	102	--	--	--
24...	0942	10.0	36500	8.2	22.0	--	6.8	88	1.3	--	--
APR , 1980											
16...	1044	1.00	39000	8.0	18.5	--	8.0	97	.2	4400	4300
16...	1047	6.00	39000	8.0	18.5	--	7.9	96	--	--	--
16...	1050	11.0	38000	8.0	18.0	--	7.7	92	.2	--	--
OCT											
08...	1052	1.00	47500	8.3	24.5	1.10	7.1	100	.8	--	--
08...	1054	12.0	48000	8.3	24.0	--	6.9	97	.7	--	--
APR , 1981											
01...	1446	1.00	44400	8.1	17.5	.60	7.5	91	1.0	--	--
01...	1448	6.00	44400	8.1	17.0	--	7.7	92	--	--	--
01...	1450	10.0	44700	8.1	18.0	--	7.2	88	.6	--	--
DEC											
02...	1112	1.00	34200	8.1	20.0	.60	7.2	89	1.1	--	--
02...	1115	10.0	34300	8.1	19.5	--	7.3	90	1.1	--	--
APR , 1982											
14...	0808	1.00	34200	8.0	21.0	.30	7.6	97	1.5	--	--
14...	0810	5.00	34400	8.0	20.5	--	7.5	94	--	--	--
14...	0812	10.0	34600	8.0	20.5	--	7.6	96	1.6	--	--
NOV											
18...	0834	1.00	41100	8.1	16.5	.90	8.2	98	1.6	--	--
18...	0836	5.00	41500	8.1	16.5	--	8.2	98	--	--	--
18...	0838	10.0	41500	8.1	16.5	--	8.1	97	1.4	--	--
FEB , 1983											
03...	1020	1.00	37000	8.2	12.5	.40	8.4	90	1.4	--	--
03...	1022	5.00	37000	8.1	12.5	--	8.5	91	--	--	--
03...	1024	11.0	37000	8.2	12.5	--	8.6	93	1.4	--	--
MAR											
22...	0946	1.00	35400	8.3	14.5	.20	8.2	92	1.1	--	--

DATE	CALCIUM, DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978											
05...	230	690	5900	44	250	130	107	0	1600	10000	.70
05...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1979											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	170	720	5900	44	230	130	107	0	1500	10000	.60
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
16...	290	890	7700	51	310	150	123	0	2000	14000	1.0
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
OCT											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--	--
APR , 1981											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
DEC											
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283432096194600 LINE 363 SITE 05--Continued

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
FEB , 1983											
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT , 1978										
05...	6.0	19000	.010	.010	.020	.010	.44	.45	.47	.030
05...	--	--	.000	.010	.010	.010	.45	.46	.47	.030
MAR , 1979										
27...	--	--	.000	<.010	<.100	.020	3.9	3.9	3.9	.020
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	.000	<.010	<.100	.010	.40	.41	.41	.020
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
OCT										
24...	3.9	19000	.010	.000	.010	.010	.54	.55	.56	.040
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	.010	.000	.010	.020	.13	.15	.16	.040
APR , 1980										
16...	1.3	25000	.000	.000	.000	.030	.55	.58	.58	.040
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	.000	.000	.000	.040	.75	.79	.79	.040
OCT										
08...	--	--	.000	.000	.000	.000	.54	.54	.54	.040
08...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
01...	--	--	.000	.010	.010	.050	.70	.75	.76	.050
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
DEC										
02...	--	--	--	<.020	<.100	<.070	--	.39	--	.180
02...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
14...	--	--	--	<.020	<.100	.090	1.7	1.8	--	.020
14...	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--
NOV										
18...	--	--	--	<.020	<.100	<.060	--	.80	--	.050
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
FEB , 1983										
03...	--	--	--	<.020	<.100	.060	.74	.80	--	.110
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
MAR										
22...	--	--	--	<.020	<.100	.090	.71	.80	--	.140

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAR , 1983								
22...	0948	10.0	35500	8.3	14.5	--	8.2	92
MAY								
18...	1218	1.00	38100	8.1	24.5	.30	6.3	87
18...	1220	12.0	38300	8.1	23.5	--	6.4	87
JUN								
22...	1018	1.00	36500	8.2	29.0	.50	5.8	85
22...	1020	12.0	36600	8.3	29.0	--	5.6	83

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283432096194600 LINE 363 SITE 05--Continued

DATE	OXYGEN DEMAND, BIO-CHEMICAL, 5 DAY (MG/L)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAR , 1983							
22...	--	<.020	<.100	.090	.81	.90	.160
MAY							
18...	1.4	.040	<.100	.320	.28	.60	.140
18...	1.3	--	--	--	--	--	--
JUN							
22...	1.0	<.020	<.100	<.060	--	.50	.170
22...	.9	--	--	--	--	--	--

283611096211900 LINE 363 SITE 06

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
03...	0935	1.00	28000	8.2	26.5	--	7.2	101
03...	0936	10.0	29500	8.2	26.5	--	6.8	95
MAY , 1979								
14...	1647	1.00	22500	8.3	24.0	--	9.3	122
14...	1648	4.50	23000	8.2	23.5	--	8.0	104
14...	1649	9.00	24500	7.8	23.0	--	5.5	73
OCT								
24...	1135	1.00	26500	8.3	20.0	--	8.4	100
24...	1137	3.00	26500	8.3	20.5	--	8.4	101
24...	1140	7.00	34500	8.1	22.5	--	5.8	75
APR , 1980								
16...	1031	1.00	39000	8.0	18.5	--	7.8	95
16...	1034	10.0	39000	8.0	18.5	--	7.4	90
OCT								
08...	1040	1.00	47000	8.3	24.0	1.00	7.1	99
08...	1042	10.0	47000	8.3	24.0	--	6.9	96
APR , 1981								
01...	1501	1.00	42000	7.8	--	.60	--	--
01...	1503	6.00	44000	7.7	--	--	--	--
01...	1505	10.5	42000	8.0	19.5	--	7.6	94
DEC								
02...	1103	1.00	30700	8.2	19.0	.70	7.8	94
02...	1105	8.00	31400	8.2	19.0	--	7.7	93
APR , 1982								
14...	0802	1.00	32700	8.0	22.0	.40	7.0	90
14...	0804	5.00	33800	8.0	22.0	--	6.8	88
NOV								
18...	0822	1.00	40300	8.1	16.5	.80	8.3	99
18...	0824	4.00	40500	8.0	16.5	--	8.3	99
18...	0826	8.00	41100	8.0	16.5	--	8.6	103
FEB , 1983								
03...	1000	1.00	35600	8.2	12.5	.60	8.8	94
03...	1002	4.00	35800	8.2	12.5	--	8.8	94
03...	1004	8.50	36000	8.3	12.0	--	8.8	93
MAR								
22...	0919	1.00	33700	8.3	14.0	.30	8.6	94
22...	0921	9.00	33800	8.3	14.0	--	8.7	95
MAY								
18...	1230	1.00	38100	8.1	24.0	.30	6.2	85
18...	1232	11.0	38800	8.1	23.5	--	6.2	84
JUN , 1983								
22...	1004	1.00	35500	8.3	29.0	.40	6.1	90
22...	1006	11.0	35400	8.3	29.0	--	6.2	91

282820096185100 LINE 375 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
05...	0943	1.00	36000	--	26.5	.90	7.3	105
05...	0944	5.00	36000	--	26.5	--	6.2	92
05...	0945	13.0	42000	--	26.5	--	5.8	85

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

282820096185100 LINE 375 SITE 01--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
14...	1752	1.00	26000	8.3	22.5	--	8.2	109
14...	1755	6.00	28000	8.2	21.5	--	7.8	100
14...	1757	12.0	30000	8.1	21.5	--	7.5	97
OCT								
23...	1211	1.00	--	8.1	22.5	--	--	--
23...	1214	5.00	--	8.1	22.0	--	--	--
23...	1216	10.0	--	8.1	22.0	--	--	--
APR , 1980								
15...	1725	1.00	40000	8.0	18.0	.40	8.7	106
15...	1728	6.00	41000	8.1	18.5	--	8.7	107
15...	1730	12.0	46000	8.0	18.0	--	7.1	89
OCT								
07...	1223	1.00	47000	8.4	25.0	.70	6.9	97
07...	1225	7.00	46000	8.4	25.5	--	6.9	99
07...	1227	14.0	47000	8.4	24.5	--	6.7	94
MAR , 1981								
31...	1520	1.00	--	7.9	19.5	.50	--	--
31...	1522	15.0	--	8.0	19.5	--	--	--
DEC								
01...	1043	1.00	40400	8.1	20.5	.20	7.1	92
01...	1045	11.0	40600	8.1	20.5	--	7.1	92
APR , 1982								
13...	1022	1.00	39700	8.3	20.0	.50	7.1	91
13...	1024	7.00	39800	8.3	20.0	--	7.1	91
13...	1026	14.0	39700	8.3	20.0	--	7.1	91
NOV								
16...	1154	1.00	42200	8.2	16.5	.30	7.6	91
16...	1156	6.50	42300	8.2	16.5	--	7.9	95
16...	1158	13.0	42500	8.1	16.5	--	8.3	100
FEB , 1983								
01...	1250	1.00	40000	8.5	15.0	.40	8.6	100
01...	1252	7.00	40000	8.5	15.0	--	8.6	100
01...	1254	14.0	40000	8.4	15.0	--	8.4	98
MAR								
24...	0911	1.00	39300	8.3	15.0	.50	8.0	92
24...	0913	14.0	44200	8.3	15.0	--	7.5	88
MAY , 1983								
17...	1308	1.00	34600	8.4	23.0	.50	7.1	94
17...	1310	14.0	34900	8.4	23.0	--	7.7	102
JUN								
21...	1200	1.00	34000	8.4	29.5	.50	6.1	90
21...	1202	14.0	36300	8.2	29.0	--	5.3	78

282943096204500 LINE 375 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT , 1978											
05...	0935	1.00	36000	--	26.5	1.00	6.7	96	--	--	--
05...	0936	13.0	37000	--	26.5	--	6.7	95	--	--	--
05...	1853	1.00	34000	--	26.5	--	7.3	105	--	3800	3700
05...	1854	5.00	34300	8.1	26.5	--	7.3	105	--	--	--
05...	1855	10.0	36000	8.2	26.5	--	6.3	91	--	--	--
06...	0744	2.00	32000	8.2	26.0	--	7.1	100	--	--	--
06...	0745	12.0	33000	8.2	26.5	--	7.2	102	--	--	--
MAR , 1979											
27...	1300	1.00	39500	8.2	--	--	7.6	100	--	--	--
27...	1304	5.00	40000	8.2	19.0	--	7.5	98	--	--	--
27...	1307	11.0	41000	8.2	--	--	--	--	--	--	--
27...	1700	1.00	40500	8.2	20.0	--	7.6	101	--	--	--
27...	1702	6.00	41000	8.2	19.0	--	7.6	100	--	--	--
27...	1704	12.0	42500	8.1	--	--	--	--	--	--	--
MAY											
14...	1812	1.00	20000	8.7	23.5	--	8.7	112	--	2300	2200
14...	1815	5.00	26000	8.6	23.0	--	8.1	107	--	--	--
14...	1818	10.0	20000	8.1	22.0	--	8.0	100	--	--	--
15...	0734	1.00	26000	8.3	22.0	--	7.8	101	--	--	--
15...	0738	5.00	26000	8.2	22.0	--	7.7	100	--	--	--
15...	0740	11.0	28000	8.1	22.0	--	7.6	99	--	--	--
OCT											
23...	1222	1.00	35700	8.0	22.5	--	7.9	102	1.5	4200	4100
23...	1228	6.00	--	8.0	22.5	--	--	--	--	--	--
23...	1232	11.0	35500	8.0	22.5	--	7.8	101	1.7	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

282943096204500 LINE 375 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
APR , 1980											
15...	1742	1.00	37500	8.0	17.5	.60	9.0	107	.3	4300	4200
15...	1745	6.00	39000	8.1	17.5	--	8.9	107	--	--	--
15...	1748	11.0	42000	8.0	16.5	--	7.4	88	.1	--	--
OCT											
07...	1141	1.00	45100	8.3	24.5	.70	6.9	96	.4	5500	5300
07...	1143	6.50	45000	8.3	24.5	--	6.4	89	--	--	--
07...	1145	12.0	45000	8.3	24.5	--	6.3	88	.3	--	--
MAR , 1981											
31...	1533	1.00	48800	7.9	21.0	.70	6.8	91	.8	5900	5800
31...	1535	13.0	49300	7.9	20.5	--	7.2	96	.8	--	--
DEC											
01...	1005	1.00	38600	8.1	19.5	.50	7.3	91	1.0	4500	4400
01...	1010	11.0	37700	8.1	20.0	--	7.3	92	.9	--	--
APR , 1982											
13...	1045	1.00	36400	8.2	19.5	.30	7.5	94	1.3	4200	4100
13...	1047	6.00	36900	8.2	19.5	--	7.3	91	--	--	--
13...	1049	12.0	36900	8.2	19.0	--	7.3	91	.9	--	--
NOV											
16...	1100	1.00	43700	8.2	16.5	.20	7.5	90	1.0	5800	5700
16...	1102	6.00	42700	8.2	16.5	--	7.6	91	--	--	--
16...	1104	12.0	42700	8.1	16.5	--	7.6	91	1.1	--	--
FEB , 1983											
01...	1215	1.00	40100	8.4	15.0	.80	8.7	101	1.3	4900	4800
01...	1217	6.50	39500	8.4	15.0	--	8.7	101	--	--	--
01...	1219	13.0	39500	8.4	15.0	--	8.7	101	1.2	--	--
MAR											
24...	0846	1.00	40200	8.3	14.5	.40	7.9	90	1.0	4800	4700
24...	0848	12.0	40300	8.3	14.5	--	7.9	90	.8	--	--
MAY											
17...	1232	1.00	35600	8.3	23.0	.00	6.7	89	1.6	4400	4300
17...	1234	13.0	35700	8.3	23.0	--	7.2	96	1.7	--	--
JUN											
21...	1117	1.00	33200	8.5	29.5	.90	6.2	91	.9	4000	3900
21...	1119	13.0	36800	8.3	29.0	--	5.7	84	1.1	--	--

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1978											
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	240	780	6600	47	260	130	107	0	1700	11000	.90
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1979											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
MAY											
14...	160	460	3800	35	160	120	98	0	1000	7000	.50
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
OCT											
23...	180	910	7200	49	150	130	107	0	1800	13000	.60
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
15...	280	870	7300	49	380	140	115	0	2100	14000	.90
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
OCT											
07...	370	1100	9300	55	370	--	124	--	2300	18000	.70
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1981											
31...	390	1200	11000	63	320	--	130	--	2600	19000	.70
31...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	290	920	7200	47	250	--	120	--	1700	14000	.70
01...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
13...	260	870	7400	50	240	--	110	--	2000	14000	.70

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

282943096204500 LINE 375 SITE 02--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)
OCT , 1978											
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	8.0	21000	.000	.010	.010	.010	.63	.64	.65	.030	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	.010	.010	.020	.020	.47	.49	.51	.050	--
06...	--	--	.000	.010	.010	.010	.58	.59	.60	.030	--
06...	--	--	.000	.010	.010	.020	.44	.46	.47	.040	--
MAR , 1979											
27...	--	--	.000	<.010	<.100	.010	.22	.23	.23	.020	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	.000	<.010	<.100	.010	.25	.26	.26	.020	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
MAY											
14...	14	13000	.030	.020	.050	.030	.58	.61	.66	.040	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	.160	.040	.200	.020	.44	.46	.66	.040	--
15...	--	--	.050	.020	.070	.010	.58	.59	.66	.040	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	.030	.020	.050	.010	.49	.50	.55	.050	--
OCT											
23...	3.5	23000	.040	.020	.060	.050	.40	.45	.51	.100	2
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	.030	.020	.050	.050	.39	.44	.49	.110	--
APR , 1980											
15...	1.8	25000	.000	.010	.010	.090	.64	.73	.74	.040	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	.000	.010	.010	.120	.76	.88	.89	.050	--
OCT											
07...	2.6	32000	.000	.000	.000	.000	.67	.67	.67	.050	3
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	.000	.000	.000	.000	.65	.65	.65	.050	--
MAR , 1981											
31...	.3	35000	.010	.010	.020	.040	.41	.45	.47	.050	1
31...	--	--	.010	.010	.020	.040	.68	.72	.74	.050	--
DEC											
01...	2.4	24000	--	<.020	<.100	.040	.25	.29	--	.170	2
01...	--	--	--	<.020	<.100	<.070	--	.34	--	.170	--
APR , 1982											
13...	<.1	--	--	<.020	<.100	.080	4.8	4.9	--	.020	1

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT , 1978											
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1979											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
MAY											
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
OCT											
23...	300	0	10	0	80	1	30	.4	0	0	10
23...	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

282943096204500 LINE 375 SITE 02--Continued

DATE	BARIUM, DIS-SOLVED (UG/L AS BA)	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
OCT , 1980											
07...	400	50	20	80	140	200	30	.2	0	0	30
07...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1981											
31...	100	0	40	50	240	300	40	.6	0	0	50
31...	--	--	--	--	--	--	--	--	--	--	--
DEC											
01...	100	<1	30	5	130	<1	30	.2	<1	<1	40
01...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
13...	100	<1	<10	6	100	2	30	.8	<1	<1	30

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	ALKA-LINITY FIELD (MG/L AS CACO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)
APR , 1982											
13...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
NOV											
16...	360	1200	9400	54	340	130	2300	17000	.70	1.7	31000
16...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
FEB , 1983											
01...	330	1000	7900	49	280	110	2000	15000	.70	<1.2	27000
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--
MAR											
24...	310	970	8000	51	270	110	2000	14000	.70	<1.2	--
24...	--	--	--	--	--	--	--	--	--	--	--
MAY											
17...	300	880	7100	47	250	100	1900	13000	.60	<1.2	--
17...	--	--	--	--	--	--	--	--	--	--	--
JUN											
21...	270	800	6500	45	220	110	1700	12000	.60	4.4	22000
21...	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)	ARSENIC DIS-SOLVED (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)
APR , 1982										
13...	--	--	--	--	--	--	--	--	--	--
13...	--	<.020	<.100	.100	.90	1.0	--	.020	--	--
NOV										
16...	--	.020	<.100	.080	.82	.90	--	.070	2	<100
16...	--	--	--	--	--	--	--	--	--	--
16...	--	.030	<.100	.080	.72	.80	--	.080	--	--
FEB , 1983										
01...	--	<.020	<.100	.060	.74	.80	--	.120	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	<.020	<.100	.060	.54	.60	--	.110	--	--
MAR										
24...	--	<.020	<.100	.100	.60	.70	--	.150	--	--
24...	--	<.020	<.100	.100	.30	.40	--	.150	--	--
MAY										
17...	--	.020	<.100	.100	.50	.60	--	.140	--	--
17...	.070	.030	.100	.170	.53	.70	.80	.140	--	--
JUN										
21...	--	<.020	<.100	<.060	--	<.20	--	.140	1	<100
21...	--	<.020	<.100	<.060	--	.80	--	.190	--	--

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
APR , 1982										
13...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
NOV										
16...	<1	40	2	190	6	40	.1	<1	<1	50
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

282943096204500 LINE 375 SITE 02--Continued

DATE	CADMIUM DIS-SOLVED (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	COPPER, DIS-SOLVED (UG/L AS CU)	IRON, DIS-SOLVED (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	ZINC, DIS-SOLVED (UG/L AS ZN)
FEB , 1983										
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--
MAR										
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
MAY										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
JUN										
21...	<1	20	3	70	<1	20	.2	<1	<1	20
21...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	SAM-PLING DEPTH (FEET)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	NAPH-THA-LENES, POLY-CHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	CHLOR-DANE, TOTAL (UG/L)	CHLOR-DANE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)
OCT , 1979												
23...	1222	1.00	.0	6	--	--	.000	.0	.0	.00	.000	.0
OCT , 1980												
07...	1145	12.0	.0	.00	.00	.0	.000	.0	.0	.00	.000	.0
DEC , 1981												
01...	1005	1.00	.0	--	.00	--	.000	--	.0	--	.000	--
01...	1010	11.0	--	.00	--	.0	--	.0	--	.00	--	.0

DATE	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN TOTAL (UG/L)	DI-ELDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	ETHION, TOTAL (UG/L)
OCT , 1979											
23...	.000	.2	.000	.0	.00	.000	.0	.000	.000	.0	.00
OCT , 1980											
07...	.000	.0	.000	.0	.00	.000	.0	.000	.000	.0	.00
DEC , 1981											
01...	.000	--	.000	--	.00	.000	--	.000	.000	--	.00
01...	--	.0	--	.0	--	--	.0	--	--	.0	--

DATE	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)
OCT , 1979											
23...	.000	.0	.000	.0	.000	.0	.00	.00	.0	.00	.00
OCT , 1980											
07...	.000	.0	.000	.0	.000	.0	.00	.00	.0	.00	.00
DEC , 1981											
01...	.000	--	.000	--	.000	--	.00	.00	--	.00	.00
01...	--	.0	--	.0	--	.0	--	--	.0	--	--

DATE	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT , 1979											
23...	.00	--	.00	.0	.0	.00	.00	--	--	--	--
OCT , 1980											
07...	.00	.0	.00	.0	.0	.00	.00	.00	.00	.00	.00
DEC , 1981											
01...	.00	--	.00	.0	.0	--	.00	.02	.00	.00	.00
01...	--	.0	--	--	--	.00	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283233096244100 LINE 375 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
05...	0925	1.00	32000	--	26.5	1.00	6.6	93
05...	0926	16.0	35000	--	27.0	--	6.2	89
OCT , 1979								
23...	1248	1.00	--	8.1	23.0	--	--	--
23...	1251	6.00	--	8.1	22.5	--	--	--
23...	1255	11.0	--	8.1	22.5	--	--	--
APR , 1980								
16...	1004	1.00	38000	8.0	18.5	--	7.5	91
16...	1006	9.00	38000	8.0	18.0	--	7.4	89
OCT								
07...	1113	1.00	44000	8.3	24.5	.40	6.5	91
07...	1115	6.00	43000	8.3	24.5	--	6.5	90
07...	1117	12.0	43000	8.3	24.5	--	6.6	92
MAR , 1981								
31...	1558	1.00	--	8.0	21.0	1.00	--	--
31...	1559	6.00	--	8.0	21.5	--	--	--
31...	1600	13.0	--	7.8	20.5	--	--	--
DEC								
01...	0948	1.00	35200	8.1	20.0	.60	7.4	92
01...	0950	11.0	35200	8.1	20.0	--	7.5	94
APR , 1982								
13...	1110	1.00	35800	8.2	20.0	.20	7.7	97
13...	1112	6.50	35700	8.3	20.0	--	7.7	97
13...	1114	13.0	35900	8.2	20.0	--	7.6	96
NOV								
16...	1032	1.00	41200	8.2	16.0	.30	7.8	92
16...	1034	6.00	41300	8.1	16.0	--	8.0	95
16...	1036	12.0	41400	8.1	16.0	--	8.1	96
FEB , 1983								
01...	1150	1.00	36800	8.4	14.5	.70	8.5	97
01...	1152	6.50	36800	8.4	14.5	--	8.6	98
01...	1154	13.0	37900	8.4	14.5	--	8.5	97
MAR								
24...	0826	1.00	35800	8.3	14.5	.50	8.1	91
24...	0828	14.0	39700	8.3	14.5	--	7.7	88
MAY								
17...	1138	1.00	37300	8.3	23.0	.20	7.0	94
17...	1140	12.0	38100	8.3	23.0	--	7.0	94
JUN								
21...	1055	1.00	36900	8.1	29.0	.30	6.0	89
21...	1057	13.0	37400	8.1	28.5	--	6.0	88

283430096272200 LINE 375 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
05...	1114	1.00	29000	--	26.0	.60	6.4	89
05...	1115	8.00	29000	--	26.0	--	6.1	86
MAY , 1979								
14...	1856	1.00	21000	8.7	24.0	--	8.8	116
14...	1858	5.00	19000	8.5	24.0	--	8.9	116
14...	1900	10.0	17000	8.6	24.0	--	9.0	116
OCT								
23...	1307	1.00	--	8.1	22.5	--	--	--
23...	1310	6.00	--	8.1	23.0	--	--	--
23...	1312	13.0	--	8.1	22.5	--	--	--
APR , 1980								
16...	1018	1.00	38500	8.0	18.5	.60	7.8	95
16...	1020	9.00	38000	8.0	18.0	--	7.5	90
OCT								
07...	1057	1.00	44000	8.3	23.5	.40	6.7	92
07...	1059	6.50	44000	8.3	23.5	--	6.5	89
MAR , 1981								
31...	1611	1.00	--	8.0	21.5	.40	--	--
31...	1613	5.00	--	8.0	21.5	--	--	--
31...	1615	10.0	--	8.0	21.5	--	--	--
DEC								
01...	0938	1.00	33900	8.1	19.5	.50	7.5	92
01...	0940	7.00	33800	8.1	19.0	--	7.7	94
APR , 1982								
13...	1145	1.00	34000	8.2	20.5	.20	7.6	96
13...	1147	9.00	34000	8.2	20.5	--	7.6	96

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

283430096272200 LINE 375 SITE 04--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
NOV , 1982								
16...	0956	1.00	40400	8.2	15.5	.20	7.9	92
16...	0958	4.00	40500	8.2	15.5	--	7.9	92
16...	1000	8.00	40600	8.2	15.5	--	8.0	93
FEB , 1983								
01...	1145	1.00	35700	8.4	14.5	.60	8.5	96
01...	1147	4.00	35700	8.4	14.5	--	8.5	96
01...	1149	8.50	35700	8.5	14.5	--	8.6	97
MAR								
24...	0810	1.00	33700	8.3	14.0	.40	8.1	89
24...	0812	8.00	33700	8.3	14.0	--	8.2	90
MAY								
17...	1104	1.00	37500	8.2	23.0	.00	6.8	91
17...	1106	9.00	37800	8.2	23.0	--	6.7	90
JUN , 1983								
21...	1038	1.00	34100	8.2	29.5	.40	6.0	88
21...	1040	8.00	34300	8.2	29.0	--	5.9	86

282516096230000 LINE 382 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
04...	1000	1.00	39000	8.2	26.0	.90	6.8	98
04...	1001	10.0	39000	8.2	25.5	--	6.9	98
04...	1002	19.0	37000	8.1	25.5	--	7.3	103
MAY , 1979								
15...	1020	1.00	29000	8.5	23.0	--	7.9	105
15...	1023	8.00	29000	8.6	23.0	--	8.0	107
15...	1026	16.0	27000	8.9	23.0	--	8.1	107
OCT								
23...	1102	1.00	--	8.1	21.5	--	--	--
23...	1106	10.0	--	8.1	22.0	--	--	--
23...	1110	20.0	--	8.0	22.0	--	--	--
APR , 1980								
15...	1550	1.00	45000	8.0	18.5	.80	8.3	104
15...	1553	9.00	46000	8.1	18.5	--	8.2	103
15...	1556	19.0	46000	8.0	18.5	--	8.2	103
OCT								
07...	1522	1.00	46500	8.4	26.0	1.00	7.3	105
07...	1524	8.00	46500	8.4	25.5	--	7.1	102
07...	1526	16.0	46500	8.4	25.5	--	6.9	99
MAR , 1981								
31...	1233	1.00	--	8.0	20.0	.60	--	--
31...	1235	10.0	--	8.0	20.0	--	--	--
31...	1237	19.0	--	8.0	20.5	--	--	--
DEC								
01...	1155	1.00	40800	8.1	20.5	.20	6.7	87
01...	1158	9.00	40700	8.1	20.5	--	6.7	86
01...	1200	18.0	40700	8.1	20.5	--	6.9	89
APR , 1982								
13...	0835	1.00	39700	8.4	19.5	.50	7.3	92
13...	0837	7.50	39600	8.3	19.5	--	7.3	92
13...	0839	16.0	39500	8.3	19.5	--	7.4	94
NOV								
16...	1250	1.00	42700	8.1	17.0	.50	7.5	91
16...	1252	8.50	42900	8.1	17.0	--	7.4	90
16...	1254	17.0	43000	8.1	17.0	--	7.7	94
FEB , 1983								
07...	1402	1.00	41800	8.1	12.5	.30	8.2	90
07...	1404	6.50	41800	8.1	12.5	--	8.1	89
07...	1406	13.0	41800	8.1	13.0	--	7.7	85
MAR								
24...	1028	1.00	44100	8.3	15.0	.50	7.6	89

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

282516096230000 LINE 382 SITE 02--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
04...	.000	.010	.010	.010	.39	.40	.41	.040
04...	--	--	--	--	--	--	--	--
04...	.010	.010	.020	.020	.30	.32	.34	.040
MAY , 1979								
15...	.080	.020	.100	<.010	.52	.52	.62	.030
15...	--	--	--	--	--	--	--	--
15...	.080	.020	.100	.040	.70	.74	.84	.040
OCT								
23...	.030	.000	.030	.050	.40	.45	.48	.070
23...	--	--	--	--	--	--	--	--
23...	.030	.000	.030	.040	.21	.25	.28	.060
APR , 1980								
15...	.000	.000	.000	.060	.33	.39	.39	.030
15...	--	--	--	--	--	--	--	--
15...	.000	.000	.000	.140	.47	.61	.61	.040
OCT								
07...	.000	.000	.000	.000	.88	.88	.88	.030
07...	--	--	--	--	--	--	--	--
07...	.000	.000	.000	.000	.60	.60	.60	.030
MAR , 1981								
31...	.010	.010	.020	.040	.37	.41	.43	.050
31...	--	--	--	--	--	--	--	--
31...	.000	.010	.010	.020	.47	.49	.50	.050
DEC								
01...	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--
01...	--	<.020	<.100	<.070	--	.37	--	.040
APR , 1982								
13...	--	<.020	<.100	.160	.14	.30	--	.020
13...	--	--	--	--	--	--	--	--
13...	.100	.020	.120	.120	.69	.81	.93	.020
NOV								
16...	--	.020	<.100	<.060	.74	.80	--	.050
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
FEB , 1983								
07...	--	<.020	<.100	.060	.44	.50	--	.070
07...	--	--	--	--	--	--	--	--
07...	--	<.020	<.100	.060	.64	.70	--	.110
MAR								
24...	--	<.020	<.100	.110	.59	.70	--	.190

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)
MAR , 1983							
24...	1030	11.0	45300	8.3	15.0	--	7.6
MAY							
17...	1350	1.00	36100	8.4	23.0	.60	6.8
17...	1352	14.0	36300	8.4	23.0	--	7.7
JUN							
21...	1310	1.00	32900	8.6	30.0	1.70	6.6
21...	1312	10.0	32900	8.6	29.5	--	6.9

DATE	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAR , 1983							
24...	90	<.020	<.100	.120	.58	.70	.180
MAY							
17...	90	<.020	<.100	.170	.63	.80	.130
17...	103	<.020	<.100	.150	.95	1.1	.140
JUN							
21...	98	<.020	<.100	<.060	--	.90	.160
21...	101	.030	<.100	<.060	--	.50	.140

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

282516096192300 LINE 397 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
05...	1005	1.00	41000	--	26.5	--	6.3	92
05...	1006	20.0	42000	--	27.0	--	6.1	90
05...	1007	42.0	41000	--	26.5	--	6.3	92
MAY , 1979								
15...	0936	1.00	30000	8.5	23.5	--	7.7	104
15...	0940	50.0	30000	8.6	23.0	--	7.7	102
OCT , 1980								
07...	1252	1.00	46500	8.3	26.0	.90	6.6	95
07...	1254	20.0	46500	8.3	25.5	--	6.6	94
07...	1256	35.0	45500	8.3	25.5	--	6.6	94
07...	1258	50.0	46500	8.3	25.5	--	6.7	96
MAR , 1981								
31...	1456	1.00	--	8.0	19.5	.30	--	--
31...	1458	25.0	--	8.0	19.0	--	--	--
31...	1500	53.0	--	8.0	19.5	--	--	--
DEC								
01...	1125	1.00	40700	8.1	20.5	.10	6.6	85
01...	1128	25.0	40700	8.1	20.5	--	6.6	85
01...	1130	55.0	40900	8.1	17.5	--	6.8	83
APR , 1982								
13...	0922	1.00	39600	8.3	19.5	.30	7.3	92
13...	0924	10.0	39600	8.3	19.5	--	7.3	92
13...	0926	20.0	39600	8.3	19.5	--	7.3	92
13...	0928	30.0	39600	8.3	19.5	--	7.4	94
13...	0930	40.0	39600	8.2	19.5	--	7.4	94
13...	0931	57.0	39600	8.2	19.5	--	7.4	94
NOV								
16...	1228	1.00	42700	8.1	18.0	.30	7.1	88
16...	1230	10.0	42800	8.1	18.0	--	7.1	88
16...	1232	21.0	42800	8.0	18.0	--	7.2	89
16...	1234	42.0	42800	8.1	17.5	--	7.2	85
FEB , 1983								
01...	1325	1.00	41000	8.5	15.0	.60	8.3	97
01...	1327	5.00	41000	8.4	15.0	--	8.2	96
01...	1329	11.5	41000	8.4	15.0	--	8.3	97
01...	1331	23.0	41000	8.4	15.0	--	8.3	97
01...	1333	46.0	41100	8.4	15.0	--	8.4	98
MAR								
24...	0930	1.00	41800	8.3	15.0	.40	7.8	91
24...	0932	13.0	42100	8.3	15.0	--	7.7	90

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
05...	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--
05...	--	--	--	--	--	--	--	--
MAY , 1979								
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
OCT , 1980								
07...	-.010	.010	.000	.020	.47	.49	.49	.030
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
07...	.000	.000	.000	.000	.67	.67	.67	.050
MAR , 1981								
31...	.010	.010	.020	.040	.61	.65	.67	.050
31...	--	--	--	--	--	--	--	--
31...	.010	.010	.020	.020	.59	.61	.63	.050
DEC								
01...	--	<.020	<.100	<.070	--	.39	--	.180
01...	--	--	--	--	--	--	--	--
01...	--	<.020	<.100	<.070	--	.34	--	.180
APR , 1982								
13...	--	<.020	.120	.110	.63	.74	.86	.020
13...	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--
13...	--	<.020	.120	.180	1.5	1.7	1.8	.020
NOV								
16...	--	.040	<.100	.090	.61	.70	--	.060
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

282516096192300 LINE 397 SITE 02--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
FEB , 1983								
01...	--	<.020	<.100	.060	.44	.50	--	.120
01...	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--
01...	--	<.020	<.100	<.060	--	.50	--	.160
MAR								
24...	--	<.020	<.100	.110	.59	.70	--	.150
24...	--	--	--	--	--	--	--	--

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)
MAR , 1983							
24...	0934	25.0	42300	8.3	15.0	--	7.7
24...	0936	51.0	44900	8.3	15.0	--	7.7
MAY							
17...	1324	1.00	34300	8.4	23.0	.40	7.1
17...	1326	13.0	34600	8.4	23.0	--	7.7
17...	1328	27.0	34600	8.4	23.0	--	7.7
17...	1330	55.0	34700	8.4	23.0	--	7.7
JUN							
21...	1215	1.00	29000	8.5	29.0	1.00	6.6
21...	1217	12.0	28900	8.5	29.0	--	6.4
21...	1219	25.0	28700	8.5	29.0	--	6.4
21...	1221	49.0	28700	8.5	29.0	--	6.4

DATE	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAR , 1983							
24...	90	--	--	--	--	--	--
24...	91	<.020	<.100	.120	.58	.70	.190
MAY							
17...	94	<.020	<.100	.170	.33	.50	.130
17...	102	--	--	--	--	--	--
17...	102	--	--	--	--	--	--
17...	102	<.020	<.100	.160	.44	.60	.130
JUN							
21...	95	<.020	<.100	.060	1.2	1.3	.150
21...	92	--	--	--	--	--	--
21...	92	--	--	--	--	--	--
21...	92	<.020	<.100	<.060	--	<.20	.200

282330096174000 LINE 903 SITE 49

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
15...	0920	1.00	30000	8.5	23.5	--	7.7	104
15...	0923	19.0	30000	8.4	23.0	--	7.7	102
15...	0926	38.0	31000	8.4	23.0	--	7.5	101

Table 6.--Quality of water in the Lavaca-Tres Palacios estuary, water years 1979-83--Continued

282330096174000 LINE 903 SITE 49--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1980								
15...	1700	1.00	46000	8.1	18.5	--	8.2	103
15...	1706	50.0	51000	8.0	18.5	--	7.2	93
OCT								
07...	1321	1.00	46500	8.3	27.5	1.00	6.5	95
07...	1323	21.0	47000	8.2	27.0	--	6.5	95
07...	1325	42.0	46500	8.3	27.0	--	6.5	95
APR , 1982								
13...	0947	1.00	38900	8.3	20.0	.50	7.6	97
13...	0949	10.0	39600	8.3	19.5	--	7.0	89
13...	0951	20.0	40600	8.3	19.5	--	6.7	85
13...	0954	30.0	42600	8.2	19.5	--	6.3	81
13...	0957	40.0	43100	8.2	19.5	--	6.4	82
MAR , 1983								
24...	0954	1.00	48100	8.3	16.0	.30	7.4	90
24...	0956	10.0	48100	8.3	16.0	--	7.4	90
24...	0958	20.0	48200	8.3	16.0	--	7.3	89
24...	1000	41.0	48200	8.3	16.0	--	7.5	92
JUN								
21...	1236	1.00	31700	8.6	29.5	2.20	6.8	99
21...	1238	9.00	32500	8.6	29.0	--	7.4	108
21...	1240	18.0	33000	8.5	28.5	--	6.9	100
21...	1242	36.0	43100	8.1	27.0	--	4.0	59

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979								
15...	.150	.020	.170	.040	.34	.38	.55	.010
15...	--	--	--	--	--	--	--	--
15...	.180	.020	.200	.010	.35	.36	.56	.020
APR , 1980								
15...	.000	.000	.000	.040	.36	.40	.40	.030
15...	.000	.000	.000	.130	.97	1.1	1.1	.120
OCT								
07...	-.010	.010	.000	.000	.35	.35	.35	.040
07...	--	--	--	--	--	--	--	--
07...	.000	.000	.000	.000	.46	.46	.46	.050
APR , 1982								
13...	--	<.020	<.100	.090	.46	.55	--	.010
13...	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--
13...	.120	.020	.140	.130	.70	.83	.97	.040
MAR , 1983								
24...	--	<.020	<.100	.130	.37	.50	--	.180
24...	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--
24...	--	.020	<.100	.120	.88	1.0	--	.220
JUN								
21...	--	.030	<.100	<.060	--	.40	--	.180
21...	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--
21...	--	.020	<.100	.130	.57	.70	--	.260

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83

[UMHOS, micromhos per centimeter at 25° Celsius; DEG C, degrees Celsius; M, meters; MG/L, milligrams per liter; UG/L, micrograms per liter; UG/KG, micrograms per kilogram]

282644096455400 LINE 080 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
MAY , 1979									
16...	1149	1.00	1000	7.8	24.5	--	6.8	84	--
16...	1150	11.0	1000	7.7	24.5	--	5.9	72	--
OCT									
18...	1415	1.00	1040	8.5	27.0	--	8.6	107	1.8
18...	1420	7.00	1200	8.5	26.5	--	8.1	100	--
18...	1425	14.0	1750	8.4	26.0	--	7.3	89	1.4
APR , 1980									
15...	1306	1.00	10500	8.3	18.0	.30	9.4	102	4.7
15...	1310	7.00	10800	8.2	16.0	--	9.2	96	--
15...	1312	13.0	12000	8.1	15.5	--	8.5	88	2.2
OCT									
09...	1346	1.00	790	8.2	27.5	.30	9.8	123	2.8
09...	1348	3.00	660	8.0	26.5	--	6.6	81	--
09...	1350	5.00	890	7.9	25.5	--	5.9	71	--
09...	1352	10.0	870	7.8	25.5	--	5.2	63	2.1
APR , 1981									
02...	1542	1.00	8900	8.3	22.0	.20	7.8	91	1.9
02...	1544	6.00	14000	8.2	22.0	--	7.8	93	--
02...	1546	10.0	16000	8.1	22.0	--	7.9	94	--
02...	1548	13.0	21000	8.0	22.0	--	6.1	73	1.7
DEC									
03...	1430	1.00	645	8.2	18.0	.20	8.0	84	1.2
03...	1432	12.0	665	8.2	17.5	--	7.8	82	1.0
APR , 1982									
15...	1218	1.00	20900	8.5	26.0	.00	6.6	88	3.2
15...	1220	7.00	--	8.5	26.0	--	--	--	--
15...	1225	15.0	35300	8.3	26.0	--	5.8	81	3.0

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979								
16...	.120	.060	.180	.030	.97	1.0	1.2	.160
16...	.070	.020	.090	.010	.80	.81	.90	.130
OCT								
18...	1.56	.040	1.60	.020	.65	.67	2.3	.250
18...	--	--	--	--	--	--	--	--
18...	.330	.040	.370	.030	.61	.64	1.0	.240
APR , 1980								
15...	.330	.030	.360	.180	.92	1.1	1.5	.210
15...	--	--	--	--	--	--	--	--
15...	.530	.050	.580	.320	1.1	1.4	2.0	.280
OCT								
09...	-.010	.010	.000	.000	1.5	1.5	1.5	.170
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
09...	.120	.010	.130	.090	1.2	1.3	1.4	.180
APR , 1981								
02...	1.58	.020	1.60	.030	.97	1.0	2.6	.480
02...	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--
02...	.590	.030	.620	.070	.89	.96	1.6	.320
DEC								
03...	--	<.020	.510	.090	.25	.34	.85	.110
03...	--	<.020	.550	.070	.43	.50	1.1	.120
APR , 1982								
15...	--	<.020	1.40	.080	.58	.66	2.1	.490
15...	--	--	--	--	--	--	--	--
15...	1.17	.030	1.20	.140	.65	.79	2.0	.450

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

282648096493700 LINE 160 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
MAY , 1979											
16...	1045	1.00	380	7.5	23.0	--	6.0	71	--	130	19
16...	1046	14.0	380	7.5	23.0	--	6.1	73	--	--	--
APR , 1980											
15...	1155	1.00	900	7.9	18.5	--	7.9	83	1.1	310	62
15...	1158	7.00	900	7.9	18.5	--	7.9	83	--	--	--
15...	1200	15.0	900	7.9	18.0	--	7.9	82	.8	--	--
OCT											
09...	1239	1.00	673	8.1	25.0	.20	6.7	80	1.0	220	27
09...	1241	7.50	600	7.8	25.0	--	6.7	80	--	--	--
09...	1243	15.0	600	7.7	25.0	--	6.6	79	.8	--	--
APR , 1981											
02...	1356	1.00	688	8.1	21.5	.20	7.2	81	1.5	270	46
02...	1358	8.00	680	8.3	21.5	--	7.8	87	--	--	--
02...	1400	15.0	720	8.2	21.5	--	7.8	87	1.2	--	--

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
MAY , 1979											
16...	41	5.6	23	.9	5.6	130	107	0	25	30	.20
16...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
15...	92	19	69	2	4.4	300	246	0	69	100	.40
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
OCT											
09...	67	14	42	1	4.4	--	198	--	48	70	.30
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
APR , 1981											
02...	75	19	44	1	3.2	--	220	--	50	65	.30
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979										
16...	11	210	.890	.020	.910	.030	.71	.74	1.7	.300
16...	--	--	.780	.040	.820	.040	.78	.82	1.6	.270
APR , 1980										
15...	17	520	2.57	.030	2.60	.150	.44	.59	3.2	.900
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	2.58	.020	2.60	.120	.52	.64	3.2	.890
OCT										
09...	15	380	1.49	.010	1.50	.010	.99	1.0	2.5	.440
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	1.49	.010	1.50	.030	1.2	1.2	2.7	.450
APR , 1981										
02...	12	400	1.98	.020	2.00	.060	1.4	1.5	3.5	.600
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	1.98	.020	2.00	.040	1.2	1.2	3.2	.600

282749096481800 LINE 170 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)
DEC , 1981										
03...	1350	1.00	780	7.9	19.0	.10	7.9	85	--	--
03...	1352	--	--	8.0	19.0	--	7.8	84	--	--
APR , 1982										
15...	1350	1.00	865	8.0	28.0	.20	5.9	76	1.8	310
15...	1355	8.00	864	8.0	28.5	--	5.8	75	1.9	--

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

282749096481800 LINE 170 SITE 02--Continued

DATE	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	ALKALINITY FIELD (MG/L AS CACO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
DEC , 1981										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
15...	63	92	20	64	2	3.8	250	66	100	.40
15...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
DEC , 1981										
03...	--	--	--	<.020	1.60	<.070	--	.68	2.3	.250
03...	--	--	--	.020	--	.070	.41	.48	--	--
APR , 1982										
15...	17	510	--	<.020	2.10	.100	.47	.57	2.7	.610
15...	--	--	2.08	.020	2.10	.080	.47	.55	2.7	.610

282749096474700 LINE 200 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
MAY , 1979									
16...	0924	1.00	310	7.5	23.0	--	5.1	61	--
16...	0925	4.00	310	7.5	23.0	--	5.2	62	--
OCT									
18...	1205	1.00	819	8.4	26.5	--	8.4	103	1.2
18...	1210	4.00	819	8.4	26.5	--	8.4	103	--
APR , 1980									
15...	1052	1.00	900	8.3	17.0	.10	9.1	93	.9
15...	1055	3.00	920	8.3	17.0	--	9.1	93	--
OCT									
09...	1154	1.00	600	8.0	25.5	.30	6.9	83	.8
09...	1156	3.50	140	7.9	23.5	--	6.3	73	--
APR , 1981									
02...	1303	1.00	680	8.1	21.5	.20	8.0	90	.9
02...	1305	3.00	670	8.1	21.5	--	8.0	90	--
DEC									
03...	1300	1.00	791	8.1	18.5	.30	8.3	88	.6
03...	1302	4.00	791	8.1	18.5	--	8.2	87	--
APR , 1982									
15...	1238	1.00	866	8.3	26.0	.00	7.3	91	2.7
15...	1242	3.50	--	8.3	26.5	--	--	--	--

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979								
16...	.290	.040	.330	.040	.59	.63	.96	.140
16...	--	--	--	--	--	--	--	--
OCT								
18...	.590	.020	.610	.020	.54	.56	1.2	.440
18...	--	--	--	--	--	--	--	--
APR , 1980								
15...	2.48	.020	2.50	.130	1.1	1.2	3.7	.940
15...	--	--	--	--	--	--	--	--
OCT								
09...	1.39	.010	1.40	.000	1.1	1.1	2.5	.430
09...	--	--	--	--	--	--	--	--
APR , 1981								
02...	2.27	.030	2.30	.060	1.0	1.1	3.4	.530
02...	--	--	--	--	--	--	--	--

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

282749096474700 LINE 200 SITE 02--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
DEC , 1981								
03...	--	<.020	1.50	.070	.58	.65	2.2	.260
03...	--	--	--	--	--	--	--	--
APR , 1982								
15...	--	<.020	1.90	.070	.53	.60	2.5	.770
15...	--	--	--	--	--	--	--	--

282553096451900 LINE 225 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
16...	0910	1.00	340	7.7	23.0	--	6.6	79
16...	0911	2.00	340	7.6	23.0	--	6.5	77
OCT								
18...	1155	1.00	830	8.6	26.5	--	8.0	98
18...	1159	3.00	840	8.6	26.5	--	8.0	98
APR , 1980								
15...	1036	1.00	2300	8.4	15.5	.00	9.4	94
15...	1039	2.00	2500	8.4	15.0	--	9.4	93
OCT								
09...	1142	1.00	350	8.2	25.0	.30	8.3	99
09...	1144	2.00	800	8.0	24.0	--	7.3	86
APR , 1981								
02...	1243	1.00	900	8.1	21.5	.30	8.9	100
02...	1245	2.50	1000	8.1	22.0	--	8.7	99
DEC								
03...	1245	1.00	718	8.4	18.5	.10	8.5	91
03...	1247	2.00	728	8.4	18.5	--	8.5	91
APR , 1982								
15...	1155	1.00	--	8.5	25.0	.00	--	--
15...	1158	2.50	--	8.4	25.0	--	--	--

282542096453400 LINE 225 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
16...	0903	1.00	310	7.5	23.0	--	5.6	67
16...	0904	3.00	310	7.5	23.0	--	5.6	67
OCT								
18...	1145	1.00	1200	8.5	26.5	--	7.9	97
18...	1150	5.00	1300	8.5	26.5	--	7.8	96
APR , 1980								
15...	1031	1.00	920	8.4	15.0	.00	9.5	93
15...	1034	2.00	1000	8.4	15.0	--	9.5	93
OCT								
09...	1135	1.00	4000	8.1	24.5	.10	6.9	81
09...	1137	4.00	1300	7.9	25.0	--	6.0	72
APR , 1981								
02...	1233	1.00	790	8.3	21.5	.20	8.7	98
02...	1235	2.50	790	8.4	22.0	--	8.6	97
DEC								
03...	1235	1.00	811	8.1	19.5	--	8.0	87
03...	1237	3.00	811	8.1	19.5	--	7.9	86
APR , 1982								
15...	1148	1.00	--	8.5	25.0	.00	--	--
15...	1150	4.00	--	8.5	25.0	--	--	--

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

282423096493400 LINE 236 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
16...	0842	1.00	590	8.1	23.5	--	8.0	96
16...	0843	3.00	590	7.9	23.0	--	8.4	92
OCT								
18...	1100	1.00	3000	8.6	26.0	--	8.3	102
18...	1105	4.00	3000	8.6	26.0	--	8.3	102
APR , 1980								
15...	1002	1.00	13500	8.1	15.0	.00	9.3	95
15...	1005	1.50	14000	8.1	15.0	--	9.3	96
OCT								
09...	1100	1.00	8000	8.1	24.5	.90	8.4	102
09...	1103	2.50	5500	8.1	24.5	--	8.5	102
APR , 1981								
02...	1203	1.00	9500	8.1	22.0	.20	8.0	93
02...	1205	2.00	10100	8.1	22.0	--	8.1	95
DEC								
03...	1210	1.00	989	8.4	18.0	.10	8.5	90
03...	1212	3.00	989	8.4	18.0	--	8.5	90
APR , 1982								
15...	1055	1.00	--	8.4	25.0	.00	--	--
15...	1058	3.50	--	8.4	24.5	--	--	--

282404096452300 LINE 243 SITE 05

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
MAY , 1979											
15...	1805	1.00	325	7.6	24.5	--	6.4	78	120	1	37
15...	1806	4.00	315	7.6	24.5	--	6.3	77	--	--	--
16...	0816	1.00	310	7.5	22.5	--	5.4	64	110	2	35
16...	0817	3.00	310	7.5	22.5	--	5.4	64	--	--	--
OCT											
18...	1120	1.00	3300	8.4	26.5	--	7.6	94	--	--	--
18...	1125	5.00	3700	8.4	26.0	--	7.5	92	--	--	--
APR , 1980											
15...	1018	1.00	3850	8.3	15.5	.10	9.4	94	--	--	--
15...	1022	3.00	8200	8.2	15.0	--	9.2	93	--	--	--
OCT											
09...	1122	1.00	4500	8.2	25.5	.30	7.9	97	--	--	--
09...	1124	4.00	5000	8.1	25.5	--	7.1	86	--	--	--
APR , 1981											
02...	1218	1.00	6100	8.3	22.0	.30	8.6	99	--	--	--
02...	1220	4.00	12500	8.0	22.0	--	7.2	85	--	--	--
DEC											
03...	1220	1.00	822	8.2	18.5	.30	8.1	86	--	--	--
03...	1222	4.50	822	8.2	18.5	--	8.0	85	--	--	--
03...	1425	1.00	662	8.6	18.5	.20	8.3	88	--	--	--
03...	1430	3.00	672	8.7	18.5	--	8.4	89	--	--	--
APR , 1982											
15...	1125	1.00	--	8.4	25.0	.00	--	--	--	--	--
15...	1130	4.00	--	8.3	24.0	--	--	--	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
MAY , 1979											
15...	5.7	14	.6	3.9	140	115	0	12	20	.20	8.7
15...	--	--	--	--	--	--	--	--	--	--	--
16...	5.2	13	.6	3.1	130	107	0	11	17	.20	8.4
16...	--	--	--	--	--	--	--	--	--	--	--
OCT											
18...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
OCT											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

282404096452300 LINE 243 SITE 05--Continued

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)
APR , 1981											
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--
DEC											
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
MAY , 1979											
15...	170	.390	.040	.430	.080	.58	.66	1.1	.120	--	--
15...	--	.370	.040	.410	.070	.53	.60	1.0	.120	--	--
16...	160	.360	.040	.400	.040	.64	.68	1.1	.120	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
OCT											
18...	--	1.36	.040	1.40	.010	.61	.62	2.0	.300	3	200
18...	--	1.36	.040	1.40	.020	.56	.58	2.0	.270	--	--
APR , 1980											
15...	--	1.67	.030	1.70	.200	.70	.90	2.6	.680	--	--
15...	--	1.47	.030	1.50	.280	2.7	3.0	4.5	.580	--	--
OCT											
09...	--	.980	.020	1.00	.000	1.1	1.1	2.1	.430	4	100
09...	--	.470	.010	.480	.020	1.1	1.1	1.6	.320	--	--
APR , 1981											
02...	--	1.66	.040	1.70	.050	1.3	1.3	3.0	.450	3	100
02...	--	1.15	.050	1.20	.090	.85	.94	2.1	.360	--	--
DEC											
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--	--
03...	--	--	<.020	1.10	.070	.72	.79	1.9	.210	3	200
03...	--	--	<.020	1.10	.080	.64	.72	1.8	.210	--	--
APR , 1982											
15...	--	1.08	.020	1.10	.120	.64	.76	1.9	.510	3	200
15...	--	.880	.040	.920	.220	.68	.90	1.8	.440	--	--

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
MAY , 1979										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
OCT										
18...	22	.00	19	100	29	10	.1	0	0	30
18...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
OCT										
09...	0	.00	0	10	200	0	.1	1	0	10
09...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
02...	0	10	0	100	0	10	.4	1	0	60
02...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
03...	1	<10	6	10	1	<10	1.5	1	<1	10
03...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
15...	<1	<10	2	<10	4	10	<.1	1	<1	20
15...	--	--	--	--	--	--	--	--	--	--

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

282404096452300 LINE 243 SITE 05--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT , 1979												
18...	1120	1.00	.0	2	--	--	.000	.0	.0	1.0	.000	.2
OCT , 1980												
09...	1124	4.00	.0	.00	.00	.0	.000	.0	.0	.00	.000	.1
DEC , 1981												
03...	1425	1.00	.0	--	.00	--	.000	--	.0	--	.000	--
03...	1430	3.00	--	.00	--	.0	--	.0	--	.00	--	.0

DATE	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)
OCT , 1979											
18...	.000	.4	.000	.0	.01	.000	.0	.000	.000	.0	.00
OCT , 1980											
09...	.000	.3	.000	.0	.02	.000	.0	.000	.000	.0	.00
DEC , 1981											
03...	.000	--	.000	--	.03	.000	--	.000	.000	--	.00
03...	--	.2	--	.0	--	--	.0	--	--	.0	--

DATE	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)
OCT , 1979											
18...	.000	.0	.000	.0	.000	.0	.00	.00	.0	.00	.00
OCT , 1980											
09...	.000	.0	.000	.0	.000	.0	.00	.00	.0	.00	.00
DEC , 1981											
03...	.000	--	.000	--	.000	--	.00	.00	--	.00	.00
03...	--	.0	--	.0	--	.0	--	--	.0	--	--

DATE	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT , 1979											
18...	.00	--	.00	.0	.0	.00	.00	.00	--	.00	.00
OCT , 1980											
09...	.00	.0	.00	.0	.0	.00	.00	.00	.00	.00	.00
DEC , 1981											
03...	.00	--	.00	.0	.0	--	.00	.02	.00	.00	.00
03...	--	.0	--	--	--	.00	--	--	--	--	--

282254096474100 LINE 243 SITE 09

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
16...	0830	1.00	405	7.6	23.5	--	6.9	83
16...	0831	4.00	400	7.6	23.0	--	6.8	81
OCT								
18...	1045	1.00	4100	8.6	26.0	--	7.9	97
18...	1050	5.00	4100	8.6	26.0	--	7.8	96

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

282254096474100 LINE 243 SITE 09--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1980								
15...	0950	1.00	18500	8.2	15.0	.00	9.2	96
15...	0953	4.00	18500	8.1	15.0	--	9.1	95
OCT								
09...	1048	1.00	13000	8.4	24.5	.50	9.1	113
09...	1050	5.00	13000	8.2	25.0	--	6.2	77
APR , 1981								
02...	1143	1.00	15500	7.9	22.0	.30	8.4	100
02...	1145	3.50	15500	8.0	22.0	--	8.1	96
DEC								
03...	1200	1.00	999	8.5	18.0	.20	8.5	90
03...	1202	4.00	1010	8.5	18.0	--	8.5	90
APR , 1982								
15...	1047	1.00	--	8.3	24.5	.00	--	--
15...	1050	3.50	--	8.3	24.5	--	--	--

282226096442600 LINE 264 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)
APR , 1982					
15...	1032	1.00	8.2	24.5	.00
15...	1035	4.00	8.2	24.5	--

282128096461700 LINE 264 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)
APR , 1982							
15...	1022	1.00	8.4	24.0	.00	--	<.020
15...	1025	5.00	8.4	24.5	--	.670	.020

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1982						
15...	.650	.110	.66	.77	1.4	.400
15...	.690	<.060	--	.67	1.4	.400

282029096431300 LINE 274 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
15...	1845	1.00	1900	8.2	24.5	--	8.2	101
15...	1846	4.00	1900	8.2	24.0	--	8.3	101
16...	0700	1.00	1600	8.1	23.5	--	7.3	88
16...	0701	4.00	1600	8.1	23.0	--	7.2	87

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

282029096431300 LINE 274 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1979								
18...	0945	1.00	10000	8.4	26.0	--	6.8	85
18...	0950	4.00	10000	8.4	26.0	--	6.6	83
APR , 1980								
15...	0908	1.00	24000	8.1	15.0	.00	8.7	93
15...	0910	2.00	24000	8.1	15.0	--	8.7	93
OCT								
09...	0956	1.00	20500	8.2	24.5	.50	7.2	91
09...	0958	4.00	17500	7.6	25.0	--	2.8	35
APR , 1981								
02...	0958	1.00	26500	7.9	22.0	.20	7.8	97
02...	1000	4.50	27000	8.0	22.0	--	8.0	99
DEC								
03...	1040	1.00	2380	8.6	19.5	.20	8.5	93
03...	1042	3.00	3200	8.4	18.5	--	8.3	89
APR , 1982								
15...	0842	1.00	--	8.2	23.5	.30	--	--
15...	0845	5.50	--	8.2	23.5	--	--	--

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979								
15...	.310	.020	.330	.030	.56	.59	.92	.160
15...	.320	.040	.360	.050	.56	.61	.97	.160
16...	.360	.040	.400	.080	.59	.67	1.1	.190
16...	.240	.020	.260	.020	.66	.68	.94	.190
OCT								
18...	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--
APR , 1980								
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
OCT								
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
APR , 1981								
02...	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--
DEC								
03...	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--
APR , 1982								
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--

281923096460100 LINE 274 SITE 05

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
16...	0728	1.00	550	8.0	23.5	--	7.4	89
16...	0729	6.00	550	8.0	23.5	--	8.3	88
OCT								
18...	1010	1.00	7500	8.5	26.0	--	7.5	93
18...	1015	6.00	8000	8.5	26.0	--	7.5	93
APR , 1980								
15...	0925	1.00	25000	8.1	15.0	.00	8.8	94
15...	0928	5.00	25000	8.1	15.0	--	8.8	94
OCT								
09...	1013	1.00	24000	8.2	24.5	.70	8.3	107
09...	1015	7.00	18000	7.9	25.5	--	7.2	92
APR , 1981								
02...	1013	1.00	24500	7.8	22.0	.20	7.2	89
02...	1015	5.00	24000	7.8	22.0	--	7.4	91
DEC								
03...	1135	1.00	1780	8.6	18.5	.20	8.4	90
03...	1137	4.50	1810	8.6	19.0	--	8.5	92
APR , 1982								
15...	1008	1.00	--	8.4	24.0	.20	--	--
15...	1010	5.00	--	8.4	24.0	--	--	--

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

281833096421900 LINE 287 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
OCT , 1980									
09...	0942	1.00	23200	8.4	24.5	.70	7.0	90	1.0
09...	0944	3.00	34000	8.3	25.0	--	6.2	84	--
APR , 1981									
02...	1600	1.00	38200	8.0	22.5	.30	6.7	88	--
02...	1602	3.00	38000	8.0	22.5	--	6.7	88	--
DEC									
03...	1055	1.00	2670	8.6	19.0	.30	8.5	92	--
03...	1057	5.00	2850	8.6	18.5	--	8.2	88	--
APR , 1982									
15...	0905	1.00	--	8.4	23.5	.20	--	--	--
15...	0910	4.00	--	8.4	23.5	--	--	--	--

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1980								
09...	.000	.000	.000	.000	1.1	1.1	1.1	.150
09...	.000	.000	.000	.000	.96	.96	.96	.110
APR , 1981								
02...	.010	.010	.020	.070	.76	.83	.85	.100
02...	.010	.010	.020	.060	.74	.80	.82	.100
DEC								
03...	--	<.020	.410	<.070	--	.68	1.1	.170
03...	--	<.020	.370	<.070	--	.85	1.2	.160
APR , 1982								
15...	--	<.020	<.100	.080	.72	.80	--	.110
15...	--	<.020	<.100	.100	.82	.92	--	.120

281801096431000 LINE 287 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1979								
18...	1036	1.00	14000	8.2	26.0	--	7.4	94
18...	1040	5.00	16000	8.2	26.0	--	7.1	91
APR , 1980								
15...	0926	1.00	32000	8.0	16.0	.20	9.0	101
15...	0930	3.00	32000	8.0	15.5	--	8.8	98

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1979								
18...	-.020	.020	.000	.040	.61	.65	.65	.100
18...	-.010	.020	.010	.010	.77	.78	.79	.080
APR , 1980								
15...	.050	.010	--	.220	.50	.72	--	.200
15...	.040	.020	.060	.220	.41	.63	.69	.220

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

281604096461300 LINE 287 SITE 08

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
OCT , 1979											
18...	1008	1.00	11600	8.2	26.0	--	7.1	90	1.3	1300	1200
18...	1012	5.00	11700	8.2	26.0	--	7.1	90	1.5	--	--
APR , 1980											
15...	0948	1.00	35500	8.0	16.0	.30	8.8	101	--	--	--
15...	0952	4.00	36000	8.0	16.0	--	8.6	99	--	--	--
OCT											
09...	1002	1.00	22900	8.2	24.5	.70	7.6	98	--	2600	2500
09...	1004	5.00	29200	8.2	25.0	--	6.1	81	.9	--	--
APR , 1981											
02...	1043	1.00	29700	7.7	22.0	.20	7.3	90	1.8	3400	3300
02...	1045	5.00	27000	7.8	22.0	--	7.2	89	1.9	--	--
DEC											
03...	1115	1.00	3700	8.6	19.0	--	8.7	95	1.8	460	300
03...	1117	5.00	3630	8.5	19.0	--	8.6	93	1.5	--	--
APR , 1982											
15...	0930	1.00	23200	8.2	23.5	.20	7.0	90	--	2800	2600
15...	0942	5.50	24000	8.2	24.0	--	6.7	87	3.0	--	--

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
OCT , 1979											
18...	110	250	2200	27	95	160	131	0	560	3800	.40
18...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
15...	--	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--	--
OCT											
09...	200	520	4300	37	140	--	130	--	1100	8200	.50
09...	--	--	--	--	--	--	--	--	--	--	--
APR , 1981											
02...	240	690	5300	40	180	--	140	--	1400	10000	.60
02...	--	--	--	--	--	--	--	--	--	--	--
DEC											
03...	72	69	570	12	27	--	160	--	150	1000	.30
03...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
15...	200	550	4400	37	150	--	150	--	1200	8600	.60
15...	--	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1979										
18...	10	7100	.000	.020	.020	.020	.86	.88	.90	.100
18...	--	--	-.010	.020	.010	.020	.73	.75	.76	.100
APR , 1980										
15...	--	--	.030	.030	.060	.230	.39	.62	.68	.170
15...	--	--	.020	.020	.040	.180	1.2	1.4	1.4	.170
OCT										
09...	9.7	15000	.000	.000	.000	.430	1.4	1.8	1.8	.160
09...	--	--	.000	.000	.000	.000	1.0	1.0	1.0	.170
APR , 1981										
02...	4.6	18000	.150	.030	.180	.060	1.0	1.1	1.3	.160
02...	--	--	.120	.030	.150	.060	.93	.99	1.1	.160
DEC										
03...	11	2000	--	<.020	.320	<.070	--	.90	1.2	.160
03...	--	--	--	<.020	.330	<.070	--	.76	1.1	.180
APR , 1982										
15...	4.1	15000	--	<.020	<.100	<.060	--	.59	--	.090
15...	--	--	--	<.020	<.100	<.060	--	.81	--	.100

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

281327096431100 LINE 291 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1979								
18...	0940	1.00	15500	8.2	25.5	--	7.1	90
18...	0942	6.00	15500	8.2	26.0	--	7.1	91
APR , 1980								
15...	1228	1.00	41500	8.0	18.0	.60	8.6	105
15...	1230	5.00	38000	8.0	16.5	--	8.5	99
OCT								
09...	1154	1.00	31400	8.4	25.0	.80	7.4	99
09...	1156	6.50	34500	8.4	25.0	--	6.9	93
APR , 1981								
02...	1328	1.00	35200	8.4	22.5	.50	8.3	106
02...	1330	6.00	35000	8.3	22.0	--	8.3	105
DEC								
03...	1058	1.00	4700	8.8	19.0	.20	8.8	96
03...	1100	6.00	4830	8.8	18.5	--	8.7	94
APR , 1982								
15...	1129	1.00	33000	8.1	23.0	.20	6.8	89
15...	1131	5.00	33100	8.0	23.0	--	6.8	89

281453096441800 LINE 291 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1979								
18...	0951	1.00	16000	8.2	25.5	--	7.1	90
18...	0954	6.00	16500	8.2	25.5	--	7.1	91
APR , 1980								
15...	1242	1.00	39000	8.0	18.5	.40	8.5	104
15...	1245	5.00	39500	8.0	17.0	--	8.2	97
OCT								
09...	1202	1.00	29000	8.5	25.0	.90	7.6	101
09...	1204	6.50	32500	8.4	25.0	--	6.7	90
APR , 1981								
02...	1315	1.00	33000	8.4	22.5	.20	7.7	98
02...	1317	7.00	33500	8.4	22.5	--	7.4	93
DEC								
03...	1108	1.00	4170	8.8	19.0	.20	9.1	99
03...	1110	5.00	4210	8.8	19.0	--	8.9	97
APR , 1982								
15...	1140	1.00	26400	8.2	23.0	.20	7.1	91
15...	1142	5.00	27100	8.1	23.5	--	7.0	91

281305096455500 LINE 294 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1979								
18...	0928	1.00	15500	8.2	26.0	--	7.1	91
18...	0932	5.00	15500	8.2	26.0	--	7.1	91
APR , 1980								
15...	1214	1.00	38000	8.0	18.0	.60	8.8	106
15...	1218	5.00	38000	8.0	16.5	--	8.3	97
OCT								
09...	1142	1.00	27600	8.4	25.5	.70	7.5	100
09...	1144	7.00	34000	8.3	25.5	--	6.4	77
APR , 1981								
02...	1345	1.00	31000	8.3	22.5	--	8.8	111
02...	1347	6.00	31500	8.4	22.5	--	8.7	110
DEC								
03...	1045	1.00	5980	8.8	19.0	.30	8.8	96
03...	1050	6.00	6090	8.8	18.5	--	9.0	97
APR , 1982								
15...	1108	1.00	30800	8.1	23.0	.00	6.8	89
15...	1110	6.00	30800	8.1	23.0	--	6.7	87

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

281305096455500 LINE 294 SITE 02--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1979								
18...	-.010	.020	.010	.010	.92	.93	.94	.090
18...	-.010	.020	.010	.020	1.2	1.2	1.2	.110
APR , 1980								
15...	-.020	.020	.000	.130	.30	.43	.43	.090
15...	-.020	.020	.000	.130	.31	.44	.44	.110
OCT								
09...	.000	.000	.000	.000	.83	.83	.83	.120
09...	.000	.000	.000	.000	1.2	1.2	1.2	.110
APR , 1981								
02...	.030	.020	.050	.050	.88	.93	.98	.130
02...	.010	.010	.020	.040	.73	.77	.79	.120
DEC								
03...	--	<.020	<.100	<.070	--	.59	--	.120
03...	--	<.020	<.100	<.070	--	.90	--	.110
APR , 1982								
15...	--	<.020	<.100	<.060	--	.68	--	.100
15...	--	<.020	<.100	.160	.40	.56	--	.110

281438096413500 LINE 302 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1979								
18...	1058	1.00	19000	8.1	26.0	--	7.0	91
18...	1100	5.00	19000	8.1	26.0	--	7.0	91
APR , 1980								
15...	1310	1.00	40000	8.0	18.5	.30	8.8	108
15...	1312	4.00	40000	8.0	18.0	--	8.6	104
OCT								
09...	1222	1.00	33000	8.5	25.5	.90	7.6	103
09...	1224	6.00	34200	8.4	25.0	--	7.1	96
APR , 1981								
02...	1240	1.00	38800	8.3	22.0	.40	7.6	98
02...	1242	6.00	39500	8.2	22.0	--	7.3	94
DEC								
03...	1133	1.00	3720	8.7	19.0	.20	8.3	90
03...	1135	5.00	4090	8.7	18.5	--	8.3	89
APR , 1982								
15...	1209	1.00	35800	8.0	23.5	.10	6.8	91
15...	1211	5.00	35800	8.0	23.5	--	6.8	91

281605096424200 LINE 302 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1979								
18...	1045	1.00	19500	8.2	26.0	--	7.1	92
18...	1047	5.00	19500	8.2	26.0	--	7.1	92
APR , 1980								
15...	1258	1.00	34000	8.0	18.0	.20	8.7	103
15...	1300	4.00	35000	8.0	17.0	--	8.3	97
OCT								
09...	1213	1.00	28800	8.5	25.5	.90	7.8	104
09...	1215	6.00	31500	8.4	25.0	--	6.7	90
APR , 1981								
02...	1253	1.00	35500	8.4	22.0	.40	8.3	105
02...	1255	6.50	36500	8.4	22.0	--	7.2	92
DEC								
03...	1123	1.00	2570	8.8	19.0	.20	8.9	96
03...	1125	5.00	2720	8.8	19.0	--	8.7	94
APR , 1982								
15...	1153	1.00	32000	8.1	23.5	.10	6.7	88
15...	1155	5.00	32100	8.1	23.5	--	6.8	90

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

281715096384500 LINE 307 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
MAY , 1979											
15...	1942	1.00	10700	9.0	23.5	--	--	--	1000	700	94
15...	1946	6.00	11500	9.0	23.0	--	--	--	--	--	--
16...	0642	1.00	5820	8.5	21.5	--	8.6	102	560	420	71
16...	0646	6.00	6500	8.5	20.5	--	8.5	99	--	--	--
OCT											
18...	1112	1.00	23000	8.1	26.0	--	7.0	92	--	--	--
18...	1116	6.00	24000	8.0	25.5	--	6.7	88	--	--	--
APR , 1980											
15...	1327	1.00	37000	8.0	18.0	.50	8.7	104	--	--	--
15...	1330	5.00	37000	8.0	17.5	--	8.7	103	--	--	--
OCT											
09...	1230	1.00	34500	8.5	25.5	1.00	8.3	114	--	--	--
09...	1232	6.00	38800	8.5	25.5	--	8.8	122	--	--	--
APR , 1981											
02...	1223	1.00	42000	8.2	22.5	.60	7.5	99	--	--	--
02...	1225	6.50	43600	8.1	22.0	--	7.4	97	--	--	--
DEC											
03...	1140	1.00	5760	8.7	19.0	.40	9.1	99	--	--	--
03...	1145	6.00	11300	8.3	19.0	--	6.5	72	--	--	--
APR , 1982											
15...	1223	1.00	31000	8.1	23.5	.20	6.8	89	--	--	--
15...	1225	5.00	31000	8.1	23.5	--	6.7	88	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
MAY , 1979										
15...	190	1700	23	68	390	320	0	440	2800	.40
15...	--	--	--	--	--	--	--	--	--	--
16...	92	1100	21	21	170	139	0	240	1600	.30
16...	--	--	--	--	--	--	--	--	--	--
OCT										
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
OCT										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979										
15...	7.7	5500	-.010	.020	.010	.010	.56	.57	.58	.070
15...	--	--	.000	<.010	<.100	.020	.66	.68	.68	.080
16...	8.8	3200	.140	.040	.180	.030	.66	.69	.87	.130
16...	--	--	.090	.020	.110	.010	.67	.68	.79	.120
OCT										
18...	--	--	.000	.020	.020	.050	.65	.70	.72	.140
18...	--	--	.000	.020	.020	.030	.62	.65	.67	.080
APR , 1980										
15...	--	--	-.010	.030	.020	.130	1.2	1.3	1.3	.100
15...	--	--	.010	.020	.030	.170	.44	.61	.64	.110
OCT										
09...	--	--	.000	.000	.000	.000	1.2	1.2	1.2	.090
09...	--	--	.000	.000	.000	.000	1.2	1.2	1.2	.100
APR , 1981										
02...	--	--	.000	.010	.010	.050	.73	.78	.79	.050
02...	--	--	.050	.020	.070	.150	.69	.84	.91	.060
DEC										
03...	--	--	--	<.020	<.100	<.070	--	.66	--	.120
03...	--	--	--	<.020	<.100	.090	.48	.57	--	.120
APR , 1982										
15...	--	--	--	<.020	<.100	<.060	--	.54	--	.080
15...	--	--	--	<.020	<.100	.070	.49	.56	--	.100

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

281001096500000 LINE 311 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
16...	0800	1.00	7300	8.6	22.0	--	8.3	99
16...	0802	3.00	7500	8.6	22.0	--	8.3	99
OCT								
18...	0904	1.00	16500	8.0	25.5	--	6.6	84
18...	0908	3.00	17000	8.0	25.5	--	6.3	80
APR , 1980								
15...	1032	1.00	41000	7.9	16.0	.20	8.6	101
15...	1034	2.00	40000	7.9	16.0	--	8.5	99
OCT								
09...	1123	1.00	36200	8.2	25.0	.70	6.6	90
09...	1125	3.00	41000	8.2	26.0	--	5.6	79
APR , 1981								
02...	1428	1.00	34300	8.1	22.5	.30	7.6	97
02...	1430	2.00	34500	8.1	22.5	--	7.6	97
DEC								
03...	1003	1.00	15700	8.4	18.5	.50	8.8	99
03...	1005	4.00	16300	8.4	18.5	--	8.8	99
APR , 1982								
15...	1032	2.00	26700	7.9	24.5	.00	6.5	86

280923096514100 LINE 311 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
15...	1825	1.00	5000	8.9	24.5	--	--	--
15...	1828	3.00	4500	9.1	24.0	--	--	--
16...	0746	1.00	6500	8.5	22.0	--	8.4	100
16...	0750	3.00	6500	8.6	22.0	--	8.4	100
OCT								
18...	0846	1.00	18700	8.2	26.0	--	6.8	88
18...	0848	4.00	19000	8.1	26.0	--	6.7	87
APR , 1980								
15...	1130	1.00	38000	8.0	17.0	.20	8.6	101
15...	1135	3.00	38000	8.0	16.5	--	8.3	97
OCT								
09...	1026	1.00	36200	8.2	24.5	.70	7.1	96
09...	1028	3.50	39600	8.2	25.0	--	6.0	83
APR , 1981								
02...	1515	1.00	--	8.2	22.5	.30	--	--
02...	1517	3.00	38000	8.2	22.5	--	7.6	100
DEC								
03...	0955	1.00	15000	8.4	18.5	.60	8.1	90
03...	1000	4.00	17600	8.3	19.0	--	8.1	92
APR , 1982								
15...	0926	1.00	26800	8.0	23.5	.00	7.4	96
15...	0928	3.00	26500	8.0	23.5	--	7.1	92

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979								
15...	.110	.040	.150	.100	.62	.72	.87	.160
15...	.130	.040	.170	.060	.49	.55	.72	.160
16...	.110	.040	.150	.060	.59	.65	.80	.140
16...	.110	.040	.150	.060	.73	.79	.94	.160
OCT								
18...	.000	.000	.000	.050	1.1	1.1	1.1	.080
18...	--	--	--	--	--	--	--	--
APR , 1980								
15...	-.010	.010	.000	.130	.87	1.0	1.0	.110
15...	--	--	--	--	--	--	--	--
OCT								
09...	.000	.000	.000	.000	.91	.91	.91	.080
09...	--	--	--	--	--	--	--	--
APR , 1981								
02...	.010	.010	.020	.050	2.6	2.6	2.6	.080
02...	--	--	--	--	--	--	--	--
DEC								
03...	--	<.020	<.100	<.070	--	.58	--	.090
03...	--	--	--	--	--	--	--	--
APR , 1982								

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

280810096495900 LINE 314 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
16...	0810	1.00	7500	8.8	22.0	--	8.5	101
16...	0814	4.00	7300	8.7	22.0	--	8.5	101
OCT								
18...	0856	1.00	21500	8.1	25.5	--	6.9	89
18...	0859	4.00	20000	8.1	25.5	--	6.9	89
APR , 1980								
15...	1042	1.00	37000	8.0	16.0	.20	8.7	100
15...	1045	2.00	37500	8.0	16.0	--	8.7	100
OCT								
09...	1040	1.00	40000	8.3	24.5	1.00	7.0	96
09...	1042	3.50	41800	8.3	25.0	--	6.7	94
APR , 1981								
02...	1440	1.00	38800	8.1	22.5	.50	7.6	100
02...	1442	3.00	38800	8.1	22.5	--	7.6	100
DEC								
03...	1025	1.00	19800	8.5	18.5	.40	8.8	100
03...	1027	3.50	20300	8.5	18.0	--	8.8	99
APR , 1982								
15...	0955	1.00	18000	8.0	23.5	.00	7.4	93
15...	0957	3.00	17900	8.0	23.5	--	7.3	91

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979								
16...	-.010	.020	.010	.030	.84	.87	.88	.100
16...	--	--	--	--	--	--	--	--
OCT								
18...	-.010	.020	.010	.010	.73	.74	.75	.070
18...	--	--	--	--	--	--	--	--
APR , 1980								
15...	-.010	.010	.000	.090	1.5	1.6	1.6	.160
15...	--	--	--	--	--	--	--	--
OCT								
09...	-.010	.010	.000	.010	2.4	2.4	2.4	.070
09...	--	--	--	--	--	--	--	--
APR , 1981								
02...	.010	.010	.020	.050	.63	.68	.70	.070
02...	--	--	--	--	--	--	--	--
DEC								
03...	--	<.020	<.100	<.070	--	.64	--	.090
03...	--	--	--	--	--	--	--	--
APR , 1982								
15...	--	<.020	<.100	.070	.56	.63	--	.120
15...	--	--	--	--	--	--	--	--

281834096345300 LINE 333 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1980								
15...	1345	1.00	35000	8.0	17.5	.40	8.8	104
15...	1348	5.00	35000	8.0	16.0	--	8.6	99
OCT								
09...	1243	1.00	37800	8.3	25.0	.90	7.1	97
09...	1245	6.00	40000	8.4	25.0	--	6.9	96
APR , 1981								
02...	1133	1.00	45000	8.1	22.0	.40	7.4	98
02...	1135	6.00	46800	8.1	22.0	--	6.8	91
DEC								
03...	1218	1.00	8860	8.7	19.5	.40	9.2	103
03...	1220	6.00	18900	8.4	19.5	--	6.6	76
APR , 1982								
15...	1250	1.00	39000	8.2	24.0	.30	6.7	92
15...	1252	4.00	38800	8.2	24.0	--	6.8	93

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

281937096354600. LINE 333 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1980								
15...	1357	1.00	31000	8.1	17.5	.30	8.9	103
15...	1359	5.00	31000	8.0	17.5	--	8.7	101
OCT								
09...	1248	1.00	40000	8.3	25.5	1.00	7.7	108
09...	1250	6.00	42000	8.4	25.5	--	8.2	116
APR , 1981								
02...	1122	1.00	47000	8.1	22.0	.40	6.8	91
02...	1124	6.00	47500	8.1	22.0	--	6.7	89
DEC								
03...	1243	1.00	9570	8.7	20.0	.40	9.1	103
03...	1245	6.00	17800	8.3	20.0	--	6.8	79
APR , 1982								
15...	1302	1.00	33100	8.1	23.5	.10	6.7	89
15...	1304	6.00	33000	.3	24.0	--	6.8	91

282021096331500 LINE 342 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
MAY , 1979											
15...	1206	1.00	28000	8.5	23.5	--	--	--	2000	1800	160
15...	1209	8.00	28000	8.9	23.5	--	--	--	--	--	--
OCT											
18...	1132	1.00	36200	8.1	26.0	--	6.9	96	--	--	--
18...	1136	6.00	36500	8.1	26.0	--	6.9	96	--	--	--
APR , 1980											
15...	1410	1.00	41000	8.0	18.0	.50	8.8	107	--	--	--
15...	1414	7.00	42000	7.9	16.5	--	8.4	100	--	--	--
OCT											
09...	1258	1.00	43800	8.4	26.5	1.00	7.6	110	--	--	--
09...	1300	6.50	43500	8.4	25.0	--	8.1	114	--	--	--
APR , 1981											
02...	1105	1.00	48600	8.1	22.0	.30	6.9	93	--	--	--
02...	1107	2.00	48200	8.1	22.0	--	6.7	90	--	--	--
DEC											
03...	1300	1.00	12900	8.6	19.5	.60	9.2	104	--	--	--
03...	1305	7.00	22500	8.4	19.5	--	7.2	84	--	--	--
APR , 1982											
15...	1318	1.00	36900	8.1	23.5	.10	6.7	90	--	--	--
15...	1320	7.00	37200	8.1	23.5	--	6.7	90	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
MAY , 1979										
15...	380	3400	34	70	160	131	0	900	5800	.50
15...	--	--	--	--	--	--	--	--	--	--
OCT										
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
OCT										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
APR , 1981										
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
DEC										
03...	--	--	--	--	--	--	--	--	--	--
03...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

282021096331500 LINE 342 SITE 02--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
MAY , 1979										
15...	19	11000	.000	.020	.020	.020	.51	.53	.55	.050
15...	--	--	--	--	--	--	--	--	--	--
OCT										
18...	--	--	-.010	.020	.010	.020	.65	.67	.68	.030
18...	--	--	-.010	.020	.010	.010	.64	.65	.66	.050
APR , 1980										
15...	--	--	.010	.010	.020	.100	.69	.79	.81	.060
15...	--	--	.000	.010	.010	.150	.73	.88	.89	.070
OCT										
09...	--	--	.000	.000	.000	.000	.68	.68	.68	.060
09...	--	--	.000	.000	.000	.000	.69	.69	.69	.070
APR , 1981										
02...	--	--	.000	.010	.010	.050	.57	.62	.63	.060
02...	--	--	.000	.010	.010	.050	.75	.80	.81	.080
DEC										
03...	--	--	--	<.020	<.100	<.070	--	.64	--	.090
03...	--	--	--	<.020	<.100	<.070	--	1.0	--	.080
APR , 1982										
15...	--	--	--	<.020	<.100	.120	.48	.60	--	.050
15...	--	--	--	<.020	<.100	<.060	--	.54	--	.040

282106096281600 LINE 354 SITE 02

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAY , 1979								
15...	1147	1.00	32000	8.4	22.5	--	8.6	115
15...	1150	7.00	32000	8.8	22.5	--	8.4	112
OCT								
18...	1156	1.00	45000	8.1	26.0	--	6.5	93
18...	1200	7.00	45500	8.1	26.5	--	6.4	93
APR , 1980								
15...	1430	1.00	44000	7.9	17.0	.60	8.3	101
15...	1432	6.00	44000	7.9	17.0	--	8.3	101
OCT								
09...	1320	1.00	45200	8.4	26.0	1.80	7.0	101
09...	1322	6.00	45800	8.4	25.5	--	7.2	103
APR , 1981								
02...	1043	1.00	50000	8.2	21.5	1.10	6.8	91
02...	1045	7.00	50000	8.2	21.5	--	6.8	91
DEC								
03...	1323	1.00	21900	8.5	19.5	.50	8.5	99
03...	1325	5.00	21900	8.5	19.5	--	8.6	101
APR , 1982								
15...	1344	1.00	39400	8.1	23.5	.30	7.1	97
15...	1346	6.00	39500	8.1	23.5	--	7.0	95

282246096284900 LINE 354 SITE 04

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAY , 1979								
15...	1138	1.00	30000	2.3	23.0	--	8.1	108
15...	1140	6.00	30000	8.5	23.0	--	7.7	102
OCT								
18...	1208	1.00	43500	8.1	26.5	--	6.5	94
18...	1211	6.00	43500	8.1	26.5	--	5.9	85
APR , 1980								
15...	1440	1.00	43500	7.9	18.0	.60	8.5	105
15...	1442	5.00	44000	7.9	18.0	--	8.3	103
OCT								
09...	1330	1.00	45000	8.4	25.5	1.80	7.1	102
09...	1332	6.00	45600	8.4	25.5	--	7.1	102
APR , 1981								
02...	1028	1.00	50000	8.3	22.0	1.10	6.8	92
02...	1030	7.00	50000	8.2	22.5	--	6.8	92
DEC								
03...	1313	1.00	19800	8.4	20.0	.70	8.0	94
03...	1315	7.00	38700	8.3	20.0	--	7.5	95

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

282246096284900 LINE 354 SITE 04--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1982								
15...	1352	1.00	39300	8.1	23.5	.30	6.7	91
15...	1354	7.00	39600	8.1	23.5	--	6.6	90

282400096243500 LINE 360 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1978								
04...	1020	1.00	40500	8.2	25.5	--	6.6	95
04...	1021	10.0	41000	8.2	25.5	--	6.7	96
04...	1022	22.0	41000	8.2	25.5	--	7.2	103
MAY , 1979								
15...	1005	1.00	27000	8.8	23.5	--	7.9	105
15...	1007	13.0	28000	8.7	23.0	--	7.8	10
15...	1010	26.0	28000	9.2	23.0	--	7.8	102
OCT								
23...	1138	1.00	--	8.1	20.0	--	--	--
23...	1142	10.0	--	8.1	20.0	--	--	--
23...	1147	20.0	--	8.1	20.0	--	--	--
APR , 1980								
15...	1610	1.00	43500	7.9	18.5	.60	8.2	102
15...	1612	12.0	43500	7.9	18.5	--	8.1	101
15...	1615	25.0	43500	7.9	18.0	--	8.0	99
OCT								
07...	1502	1.00	46500	8.4	26.0	1.10	7.7	112
07...	1504	10.0	46500	8.4	26.0	--	7.5	108
07...	1506	20.0	46500	8.4	26.0	--	7.4	107
MAR , 1981								
31...	1221	1.00	--	8.0	22.0	.40	--	--
31...	1223	10.0	--	7.9	21.0	--	--	--
31...	1225	21.0	--	8.0	21.0	--	--	--
DEC								
01...	1210	1.00	29700	8.3	20.0	.40	7.4	91
01...	1213	10.0	31000	8.3	20.0	--	7.5	92
01...	1215	20.0	31900	8.3	20.0	--	7.4	91
APR , 1982								
13...	0855	1.00	39500	8.4	19.5	.40	7.3	92
13...	0857	11.5	39700	8.3	19.5	--	7.3	92
13...	0859	23.0	39500	8.3	19.5	--	7.3	92
NOV								
16...	1304	1.00	42200	8.0	17.0	.40	7.3	89
16...	1306	9.50	42500	8.0	17.0	--	7.3	89
16...	1308	19.0	42800	8.0	17.0	--	7.4	90
FEB , 1983								
07...	1420	1.00	39200	8.1	12.5	.40	8.8	95
07...	1422	10.0	41800	8.1	12.5	--	8.5	93
07...	1424	19.0	41900	8.1	12.5	--	8.6	94
MAR								
24...	1038	1.00	45100	8.3	15.0	.20	7.9	93
24...	1039	8.00	45000	8.3	15.0	--	7.9	93
24...	1040	17.0	45100	8.3	15.0	--	7.9	93
MAY								
17...	1410	1.00	36000	8.4	23.0	.70	6.9	92
17...	1412	9.00	36200	8.4	23.0	--	7.2	96
17...	1414	18.0	36300	8.4	23.0	--	7.3	97
JUN								
21...	1326	1.00	33000	8.6	30.0	1.00	6.9	102
21...	1328	10.0	33000	8.5	29.5	--	6.4	94
21...	1330	20.0	33100	8.6	29.5	--	6.4	94

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1978								
04...	.010	.010	.020	.010	.42	.43	.45	.030
04...	--	--	--	--	--	--	--	--
04...	.000	.010	.010	.020	.40	.42	.43	.030

Table 7.--Quality of water in the Guadalupe estuary, water years 1979-83--Continued

282400096243500 LINE 360 SITE 03--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979								
15...	.070	<.010	.070	.020	.49	.51	.58	.050
15...	--	--	--	--	--	--	--	--
15...	.070	.020	.090	<.010	.47	.47	.56	.030
OCT								
23...	.010	.000	.010	.030	.78	.81	.82	.040
23...	--	--	--	--	--	--	--	--
23...	.010	.000	.010	.040	1.1	1.1	1.1	.060
APR , 1980								
15...	.000	.000	.000	.090	.29	.38	.38	.040
15...	--	--	--	--	--	--	--	--
15...	.000	.000	.000	.100	.43	.53	.53	.050
OCT								
07...	.000	.000	.000	.000	.39	.39	.39	.040
07...	--	--	--	--	--	--	--	--
07...	.000	.000	.000	.000	.47	.47	.47	.040
MAR , 1981								
31...	.000	.010	.010	.060	.83	.89	.90	.040
31...	--	--	--	--	--	--	--	--
31...	.010	.010	.020	.060	.50	.56	.58	.050
DEC								
01...	--	<.020	<.100	<.070	--	.56	--	.050
01...	--	--	--	--	--	--	--	--
01...	--	<.020	<.100	<.070	--	.67	--	.050
APR , 1982								
13...	--	<.020	<.100	.160	.38	.54	--	.020
13...	--	--	--	--	--	--	--	--
13...	--	<.020	<.100	.150	.34	.49	--	.020
NOV								
16...	--	<.020	<.100	<.060	--	.70	--	.050
16...	--	--	--	--	--	--	--	--
16...	--	<.020	<.100	.090	.71	.80	--	.050
FEB , 1983								
07...	--	<.020	<.100	<.060	--	1.1	--	.050
07...	--	--	--	--	--	--	--	--
07...	--	<.020	<.100	.060	.44	.50	--	.090
MAR								
24...	--	<.020	<.100	.110	.49	.60	--	.200
24...	--	--	--	--	--	--	--	--
24...	--	<.020	<.100	.160	.74	.90	--	.180
MAY								
17...	--	<.020	<.100	.140	.56	.70	--	.140
17...	--	--	--	--	--	--	--	--
17...	--	<.020	<.100	.160	.34	.50	--	.140
JUN								
21...	--	<.020	<.100	<.060	--	.70	--	.150
21...	--	--	--	--	--	--	--	--
21...	--	<.020	<.100	<.060	--	.80	--	.190

Table 8.--Quality of water in the Mission-Aransas estuary, water years 1979-83

[UMHOS, micromhos per centimeter at 25° Celsius; DEG C, degrees Celsius; M, meters; MG/L, milligrams per liter; UG/L, micrograms per liter]

281131097010500 LINE 015 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
02...	0846	1.00	16000	8.3	23.0	--	8.1	102
02...	0848	5.00	16000	8.3	23.0	--	8.0	101
OCT								
17...	0820	1.00	8200	8.2	26.0	--	6.6	83
17...	0825	3.00	8200	8.2	26.0	--	6.6	83
APR , 1980								
10...	0830	1.00	23000	7.7	19.0	.70	8.3	96
10...	0835	4.00	23000	7.9	19.0	--	8.1	94
OCT								
22...	0918	1.00	22000	7.9	21.0	.70	8.4	101
22...	0920	4.00	22000	7.9	21.0	--	7.2	86
MAR , 1981								
19...	1046	1.00	24500	8.2	16.5	1.00	8.7	95
19...	1048	2.00	23000	8.2	16.5	--	8.7	95
DEC								
08...	1125	1.00	434	8.4	17.5	.50	8.0	83
08...	1127	4.00	760	7.9	17.0	--	7.3	75
APR , 1982								
08...	0945	1.00	6140	8.1	22.0	.60	7.5	88
08...	0950	3.00	5820	8.1	21.5	--	7.8	90

280331097092500 LINE 044 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
02...	0936	1.00	15500	8.1	23.0	--	8.1	101
02...	0938	7.00	15500	8.1	23.0	--	7.9	99
OCT								
17...	0950	1.00	6250	8.3	26.0	--	7.2	89
17...	0955	7.00	6250	8.3	26.0	--	6.7	83
APR , 1980								
10...	1008	1.00	16500	8.0	19.5	.70	8.5	97
10...	1010	7.00	16500	8.0	19.5	--	8.5	97
OCT								
22...	1042	1.00	22000	7.9	21.0	.90	7.7	92
22...	1044	7.00	22000	7.9	20.5	--	7.6	90
MAR , 1981								
19...	1313	1.00	22000	8.1	16.0	.30	10.0	108
19...	1315	6.00	22000	8.1	16.5	--	9.5	103
DEC								
08...	1235	1.00	3560	8.3	17.5	.20	8.8	92
08...	1237	7.00	3580	8.3	17.0	--	8.7	90
APR , 1982								
08...	1120	1.00	8240	8.3	21.0	.40	8.0	93
08...	1125	8.00	8970	8.2	21.0	--	7.4	86

280431097130300 LINE 044 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
02...	0948	1.00	14500	8.4	23.0	--	8.5	106
02...	0949	3.00	14500	8.4	23.0	--	8.4	105
02...	0950	5.00	15000	8.3	23.5	--	8.4	106
OCT								
17...	0940	1.00	5600	8.4	26.0	--	7.2	89
17...	0945	5.00	5800	8.2	26.0	--	6.3	78
APR , 1980								
10...	0950	1.00	14500	8.2	19.0	.20	8.6	96
10...	0952	5.00	14500	8.2	19.0	--	8.6	96

Table 8.--Quality of water in the Mission-Aransas estuary, water years 1979-83--Continued

280431097130300 LINE 044 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1980								
22...	1025	1.00	18100	8.1	21.0	.60	7.8	92
22...	1027	5.00	19000	8.0	21.0	--	7.2	85
MAR , 1981								
19...	1253	1.00	16500	8.4	16.5	.20	11.3	120
19...	1255	3.00	16000	8.5	17.0	--	11.5	124
DEC								
08...	1250	1.00	3230	8.3	17.5	.20	8.5	89
08...	1252	4.00	3250	8.3	17.5	--	8.6	90
APR , 1982								
08...	1140	1.00	7930	8.3	21.0	.20	7.7	89
08...	1145	5.00	8610	8.3	21.0	--	7.6	88

280452097054800 LINE 054 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
MAY , 1979											
02...	0918	1.00	15600	8.1	23.0	--	8.0	101	--	1600	1500
02...	0920	7.00	16500	8.1	23.0	--	7.9	100	--	--	--
OCT											
17...	1010	1.00	6250	8.2	25.5	--	7.4	91	.9	600	510
17...	1015	8.00	6700	8.1	25.5	--	6.5	80	--	--	--
APR , 1980											
10...	1030	1.00	20000	8.0	20.0	.90	8.5	99	1.6	2400	2200
10...	1032	8.00	21200	7.9	20.0	--	8.0	94	--	--	--
OCT											
22...	1100	1.00	22500	8.1	21.0	1.00	8.1	97	--	2600	2500
22...	1103	7.00	23500	7.9	21.0	--	7.8	94	--	--	--
MAR , 1981											
19...	1348	1.00	28000	8.2	17.5	.30	8.6	98	1.2	3400	3300
19...	1350	6.00	28500	7.9	17.5	--	8.6	98	--	--	--
DEC											
08...	1215	1.00	3610	8.3	17.0	.30	9.2	95	1.8	360	270
08...	1217	6.50	4160	8.3	17.0	--	9.0	94	--	--	--
22...	1100	--	--	--	--	--	--	--	2.0	--	--
APR , 1982											
08...	1050	1.00	10200	8.2	21.5	.60	7.9	93	1.7	1100	1000
08...	1055	7.00	11000	8.1	21.0	--	7.6	89	--	--	--

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
MAY , 1979											
02...	130	300	2600	29	100	130	107	0	630	4900	.50
02...	--	--	--	--	--	--	--	--	--	--	--
OCT											
17...	58	110	1100	20	54	110	90	0	290	1900	.30
17...	--	--	--	--	--	--	--	--	--	--	--
APR , 1980											
10...	170	470	3000	27	120	150	123	0	880	6000	.60
10...	--	--	--	--	--	--	--	--	--	--	--
OCT											
22...	200	510	4200	36	180	--	98	--	960	8200	.60
22...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1981											
19...	250	670	5400	41	190	--	100	--	1400	10000	.50
19...	--	--	--	--	--	--	--	--	--	--	--
DEC											
08...	43	61	580	14	27	--	89	--	130	1000	.30
08...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
08...	94	220	1800	23	73	--	110	--	470	3400	.50
08...	--	--	--	--	--	--	--	--	--	--	--

Table 8.--Quality of water in the Mission-Aransas estuary, water years 1979-83--Continued

280452097054800 LINE 054 SITE 01--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
MAY , 1979										
02...	25	8700	.000	.020	.020	.030	.55	.58	.60	.050
02...	--	--	--	--	--	--	--	--	--	--
OCT										
17...	12	3600	-.020	.020	.000	.010	.64	.65	.65	.100
17...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
10...	7.6	11000	-.010	.010	.000	.000	.68	.68	.68	.080
10...	--	--	--	--	--	--	--	--	--	--
OCT										
22...	5.1	14000	.080	.020	.100	.340	.47	.81	.91	.140
22...	--	--	--	--	--	--	--	--	--	--
MAR , 1981										
19...	3.4	18000	.010	.010	.020	.070	.58	.65	.67	.040
19...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	10	1900	--	.020	<.100	.120	.65	.77	--	.070
08...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
08...	6.9	6100	--	<.020	<.100	<.060	--	.37	--	<.010
08...	--	--	--	--	--	--	--	--	--	--

280612097070400 LINE 054 SITE 02

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	CALCIUM DIS-SOLVED (MG/L AS CA)
MAY , 1979											
01...	1802	1.00	14000	8.2	23.0	--	7.9	99	--	--	--
01...	1804	9.00	14000	8.2	23.0	--	7.8	98	1500	1400	120
02...	0800	1.00	16000	8.3	23.0	--	8.0	101	--	--	--
02...	0802	7.00	16000	8.3	23.0	--	8.0	101	1500	1400	120
02...	1012	1.00	16000	8.3	23.0	--	8.4	106	--	--	--
02...	1014	8.00	16000	8.2	23.0	--	8.2	104	--	--	--
OCT											
17...	0900	1.00	7200	8.2	26.0	--	7.6	95	--	--	--
17...	0905	8.00	7300	8.2	26.0	--	7.4	92	--	--	--
APR , 1980											
10...	0912	1.00	1700	8.1	19.5	.60	8.7	99	--	--	--
10...	0914	8.00	17000	8.1	19.5	--	8.9	101	--	--	--
OCT											
22...	1000	1.00	18500	8.1	21.0	1.00	7.7	91	--	--	--
22...	1002	8.00	23500	7.9	21.0	--	6.8	82	--	--	--
MAR , 1981											
19...	1228	1.00	22500	7.9	17.0	.20	8.8	97	--	--	--
19...	1230	6.50	23000	7.9	17.5	--	8.8	98	--	--	--
DEC											
08...	1205	1.00	3910	8.3	17.0	.30	8.7	90	--	--	--
08...	1207	7.00	7260	7.9	16.5	--	7.8	82	--	--	--
APR , 1982											
08...	1035	1.00	7300	8.3	21.0	.20	7.7	89	--	--	--
08...	1040	7.00	6570	8.1	21.0	--	7.4	85	--	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
MAY , 1979										
01...	--	--	--	--	--	--	--	--	--	--
01...	280	2500	29	100	120	98	0	640	4600	.50
02...	--	--	--	--	--	--	--	--	--	--
02...	280	2500	29	96	120	98	0	630	4400	.50
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
OCT										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--

Table 8.--Quality of water in the Mission-Aransas estuary, water years 1979-83--Continued

280612097070400 LINE 054 SITE 02--Continued

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
APR , 1980										
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
OCT										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
MAR , 1981										
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979										
01...	--	--	.000	.020	.020	.010	.65	.66	.68	.070
01...	27	8300	-.010	.020	.010	.010	.79	.80	.81	.070
02...	--	--	.050	.020	.070	.020	.61	.63	.70	.060
02...	27	8100	-.010	.020	.010	.010	.64	.65	.66	.070
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
OCT										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
OCT										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
MAR , 1981										
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--

280754097084000 LINE 054 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
02...	0813	1.00	15000	8.1	23.0	--	7.9	99
02...	0815	5.00	15000	8.1	23.0	--	7.7	96
OCT								
17...	0920	1.00	7320	8.2	26.5	--	7.4	93
17...	0925	6.00	7300	8.2	26.5	--	7.4	93
APR , 1980								
10...	0923	1.00	17000	8.1	19.5	.30	8.6	98
10...	0925	6.00	17000	8.1	19.5	--	8.6	98
OCT								
22...	1008	1.00	17000	8.1	21.0	.70	7.5	88
22...	1010	6.00	22000	7.8	22.0	--	6.3	77
MAR , 1981								
19...	1218	1.00	21500	8.1	17.5	.50	9.0	100
19...	1220	4.50	20500	8.1	17.5	--	9.0	99

Table 8.--Quality of water in the Mission-Aransas estuary, water years 1979-83--Continued

280754097084000 LINE 054 SITE 03--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
DEC , 1981								
08...	1150	1.00	3420	8.2	17.0	.20	8.3	87
08...	1152	5.50	4170	8.2	17.0	--	8.3	87
APR , 1982								
08...	1025	1.00	6780	8.3	21.5	.30	8.1	94
08...	1030	5.00	4530	8.2	21.0	--	7.8	89

280727097032700 LINE 065 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
02...	0906	1.00	16500	8.3	23.0	--	7.8	99
02...	0908	5.00	16000	8.3	23.0	--	7.6	96
OCT								
17...	1025	1.00	7600	8.2	26.0	--	7.5	93
17...	1030	8.00	7800	8.2	26.0	--	7.2	90
APR , 1980								
10...	1050	1.00	22200	8.0	19.5	.80	8.5	99
10...	1052	8.00	22500	8.0	19.5	--	8.5	99
OCT								
22...	0942	1.00	24800	7.9	21.0	.90	7.3	88
22...	0944	7.50	28400	7.7	21.5	--	6.7	83
MAR , 1981								
19...	1134	1.00	25200	8.1	16.5	.30	8.7	96
19...	1136	8.00	24500	8.1	16.5	--	8.8	97
DEC								
08...	1055	1.00	5440	8.3	17.0	.40	8.8	93
08...	1057	7.00	9000	8.0	16.5	--	8.0	84
APR , 1982								
08...	1350	1.00	13000	8.3	22.5	.40	8.1	98
08...	1353	4.00	15700	8.3	22.5	--	8.1	99
08...	1355	7.00	18300	8.1	21.5	--	6.9	83

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979								
02...	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--
OCT								
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
APR , 1980								
10...	.000	.000	.000	.040	.94	.98	.98	.070
10...	--	--	--	--	--	--	--	--
OCT								
22...	.100	.020	.120	.370	.93	1.3	1.4	.140
22...	--	--	--	--	--	--	--	--
MAR , 1981								
19...	-.010	.010	.000	.050	.62	.67	.67	.180
19...	--	--	--	--	--	--	--	--
DEC								
08...	--	<.020	<.100	.120	.61	.73	--	.070
08...	--	--	--	--	--	--	--	--
APR , 1982								
08...	--	<.020	<.100	<.060	--	.46	--	<.010
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--

Table 8.--Quality of water in the Mission-Aransas estuary, water years 1979-83--Continued

280847097034700 LINE 065 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
02...	0828	1.00	16000	8.3	23.0	--	8.1	103
02...	0830	7.00	16000	8.3	23.0	--	7.6	96
OCT								
17...	0830	1.00	9000	8.1	25.5	--	6.8	84
17...	0835	8.00	8950	8.1	25.5	--	6.8	84
APR , 1980								
10...	0848	1.00	23000	8.1	19.5	.80	8.5	99
10...	0850	7.00	23000	8.1	19.5	--	8.3	97
OCT								
22...	0930	1.00	22200	7.9	21.5	.90	7.9	95
22...	0932	7.00	27500	7.8	22.0	--	6.4	80
MAR , 1981								
19...	1153	1.00	23000	8.1	17.0	.50	8.9	98
19...	1155	6.00	23000	8.1	17.0	--	8.9	98
DEC								
08...	1110	1.00	5410	8.2	16.5	.30	8.6	90
08...	1112	11.0	8210	8.0	16.5	--	8.1	85
APR , 1982								
08...	1320	1.00	11200	8.3	21.5	--	7.9	93
08...	1325	8.00	13700	8.1	21.5	--	7.7	92

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979								
02...	.000	.020	.020	.010	.55	.56	.58	.060
02...	--	--	--	--	--	--	--	--
OCT								
17...	.000	.020	.020	.030	.76	.79	.81	.110
17...	--	--	--	--	--	--	--	--
APR , 1980								
10...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--
OCT								
22...	.060	.020	.080	.370	.53	.90	.98	.140
22...	--	--	--	--	--	--	--	--
MAR , 1981								
19...	.000	.010	.010	.050	.61	.66	.67	.060
19...	--	--	--	--	--	--	--	--
DEC								
08...	--	<.020	<.100	.110	.66	.77	--	.060
08...	--	--	--	--	--	--	--	--
APR , 1982								
08...	--	<.020	<.100	<.060	--	.41	--	<.010
08...	--	--	--	--	--	--	--	--

280608096551700 LINE 104 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
MAY , 1979											
01...	1015	1.00	13500	8.2	22.5	--	7.0	87	1300	1200	120
01...	1017	5.00	16000	8.2	23.0	--	6.7	85	--	--	--
OCT											
17...	1054	1.00	24000	8.2	26.5	--	7.3	97	--	--	--
17...	1058	5.00	24000	8.2	26.5	--	7.3	97	--	--	--
APR , 1980											
10...	1115	1.00	34000	8.0	20.0	.60	8.5	105	--	--	--
10...	1118	3.00	34000	8.0	20.0	--	8.4	104	--	--	--
OCT											
22...	0928	1.00	38000	8.0	20.5	.40	7.9	100	--	--	--
22...	0930	5.00	37000	8.0	20.5	--	8.4	105	--	--	--
MAR , 1981											
19...	1100	1.00	36600	8.4	15.0	.80	8.2	92	--	--	--
19...	1102	5.00	36800	8.4	15.5	--	7.8	88	--	--	--

Table 8.--Quality of water in the Mission-Aransas estuary, water years 1979-83--Continued

280608096551700 LINE 104 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
DEC , 1981											
08...	1000	1.00	11100	8.3	17.5	.50	8.8	95	--	--	--
08...	1002	5.00	17300	8.2	17.0	--	8.6	94	--	--	--
APR , 1982											
08...	1410	1.00	21600	8.2	23.0	.70	8.0	101	--	--	--
08...	1414	5.00	26000	8.1	22.5	--	7.6	97	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
MAY , 1979										
01...	250	2200	27	90	190	156	0	550	4100	.50
01...	--	--	--	--	--	--	--	--	--	--
OCT										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
OCT										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
MAR , 1981										
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979										
01...	23	7400	.010	.020	.030	.070	.74	.81	.84	.120
01...	--	--	--	--	--	--	--	--	--	--
OCT										
17...	--	--	-.020	.020	.000	.010	.67	.68	.68	.070
17...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
10...	--	--	.000	.010	.010	.100	.47	.57	.58	.080
10...	--	--	--	--	--	--	--	--	--	--
OCT										
22...	--	--	.000	.010	.010	.340	.52	.86	.87	.170
22...	--	--	--	--	--	--	--	--	--	--
MAR , 1981										
19...	--	--	.000	.010	.010	.040	.67	.71	.72	.060
19...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	<.020	<.100	<.070	--	.65	--	.080
08...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
08...	--	--	--	<.020	<.100	<.060	--	.50	--	.020
08...	--	--	--	--	--	--	--	--	--	--

Table 8.--Quality of water in the Mission-Aransas estuary, water years 1979-83--Continued

280633096581200 LINE 104 SITE 06

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
APR , 1979											
30...	1808	1.00	11000	8.2	23.0	--	7.9	98	--	--	--
30...	1810	6.00	11000	8.2	24.0	--	7.9	100	--	--	--
MAY											
01...	0805	1.00	10000	8.3	22.5	--	7.3	89	--	--	--
01...	0807	6.00	11000	8.2	22.0	--	7.3	89	1100	980	110
OCT											
17...	1041	1.00	18000	8.2	26.0	--	7.3	94	--	--	--
17...	1044	6.00	19000	8.1	26.5	--	7.2	94	--	--	--
APR , 1980											
10...	1016	1.00	31500	8.1	20.0	1.00	8.6	105	--	--	--
10...	1018	6.00	32000	8.1	20.0	--	8.3	102	--	--	--
OCT											
22...	0916	1.00	32000	8.0	21.0	.80	7.7	96	--	--	--
22...	0918	6.00	32000	8.0	21.0	--	7.6	94	--	--	--
MAR , 1981											
19...	1002	1.00	29900	8.4	15.5	.90	8.4	92	--	--	--
19...	1004	5.00	30200	8.2	15.5	--	7.2	79	--	--	--
DEC											
08...	0942	1.00	12700	8.1	17.5	.70	8.0	86	--	--	--
08...	0944	5.00	16700	8.0	17.5	--	7.6	83	--	--	--
APR , 1982											
08...	1350	1.00	21000	8.1	21.5	.60	8.4	103	--	--	--
08...	1359	7.00	25700	8.1	22.0	--	8.2	103	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
APR , 1979										
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
MAY										
01...	--	--	--	--	--	--	--	--	--	--
01...	210	1700	22	80	200	164	0	470	3200	.40
OCT										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
OCT										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
MAR , 1981										
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979										
30...	--	--	.000	.020	.020	.030	.46	.49	.51	.100
30...	--	--	-.010	.020	.010	.020	.83	.85	.86	.100
MAY										
01...	--	--	.020	.040	.060	.080	.82	.90	.96	.170
01...	6.9	5900	.030	.020	.050	.060	1.0	1.1	1.2	.170
OCT										
17...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--

Table 8.--Quality of water in the Mission-Aransas estuary, water years 1979-83--Continued

280633096581200 LINE 104 SITE 06--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
OCT , 1980										
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
MAR , 1981										
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
DEC										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--

280653097003300 LINE 104 SITE 10

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
MAY , 1979								
01...	1400	1.00	12000	8.3	23.0	--	7.7	95
01...	1402	8.00	12000	8.2	23.0	--	7.0	87
OCT								
17...	1032	1.00	14000	8.2	26.5	--	7.4	95
17...	1035	7.00	15500	8.1	26.5	--	6.8	88
APR , 1980								
10...	1005	1.00	26000	8.0	20.0	.60	8.5	102
10...	1008	6.00	26000	8.0	20.0	--	8.5	102
OCT								
22...	0906	1.00	32000	7.9	21.5	.80	7.6	95
22...	0908	9.00	34000	7.9	21.5	--	7.5	95
MAR , 1981								
19...	1008	1.00	26500	7.9	16.0	.90	8.6	94
19...	1010	6.00	26700	8.0	16.0	--	8.7	95
DEC								
08...	1000	1.00	580	8.4	17.0	.50	8.7	89
08...	1002	9.00	1890	8.0	17.0	--	7.7	79
APR , 1982								
08...	1405	1.00	21700	8.2	22.5	.80	8.1	101
08...	1410	9.00	23300	8.0	22.0	--	6.7	83

280755096533100 LINE 115 SITE 05

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)
MAY , 1979									
01...	1025	1.00	15500	8.2	23.0	--	7.5	94	--
01...	1027	4.00	16000	8.2	22.5	--	7.1	88	--
OCT									
17...	1110	1.00	16000	7.9	26.0	--	6.2	80	1.0
17...	1114	3.00	16500	7.9	26.5	--	6.2	80	--
APR , 1980									
10...	1128	1.00	35000	8.0	20.0	.30	8.0	99	2.1
10...	1130	3.00	35000	8.0	20.0	--	7.9	98	--
OCT									
22...	0943	1.00	37000	8.1	20.0	.70	8.3	103	1.9
22...	0945	4.00	37000	8.1	20.0	--	8.3	103	--
MAR , 1981									
19...	1118	1.00	36800	8.4	15.5	.50	8.2	93	2.0
19...	1120	4.00	37200	8.4	15.5	--	7.6	86	--
DEC									
03...	0930	1.00	18700	8.3	18.0	.70	8.1	91	.6
03...	0940	3.50	19300	8.2	18.0	--	7.4	83	--
08...	1012	1.00	8090	8.4	18.0	.50	8.5	91	1.3
08...	1014	3.50	9910	8.3	17.5	--	8.8	94	--
APR , 1982									
08...	1424	1.00	26000	8.1	23.0	.40	8.2	105	1.7
08...	1430	4.00	26500	8.1	22.5	--	7.6	97	--
15...	0938	1.00	26800	7.9	23.5	.00	7.3	94	--
15...	0940	4.00	26700	7.9	23.5	--	7.3	94	--

Table 8.--Quality of water in the Mission-Aransas estuary, water years 1979-83--Continued

280755096533100 LINE 115 SITE 05--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979									
01...	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--
OCT									
17...	.000	.020	.020	.050	.58	.63	.65	--	.090
17...	--	--	--	--	--	--	--	--	--
APR , 1980									
10...	.000	.010	.010	.080	.86	.94	.95	--	.090
10...	--	--	--	--	--	--	--	--	--
OCT									
22...	-.010	.010	.000	.260	.60	.86	.86	--	.100
22...	--	--	--	--	--	--	--	--	--
MAR , 1981									
19...	.000	.010	.010	.060	.54	.60	.61	--	.050
19...	--	--	--	--	--	--	--	--	--
DEC									
03...	--	<.020	<.100	<.070	--	.48	--	.120	.090
03...	--	--	--	--	--	--	--	--	--
08...	--	<.020	<.100	.070	.59	.66	--	--	.080
08...	--	--	--	--	--	--	--	--	--
APR , 1982									
08...	--	<.020	<.100	<.060	--	.45	--	--	.030
08...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--

280426096593500 LINE 120 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
01...	0836	1.00	14000	8.2	22.5	--	7.2	89
01...	0838	9.00	14000	8.2	22.5	--	7.0	87
OCT								
17...	1009	1.00	16000	8.3	26.5	--	7.5	97
17...	1011	9.00	23500	8.1	26.5	--	6.1	81
APR , 1980								
10...	0938	1.00	30000	8.1	20.0	1.20	8.2	100
10...	0940	8.00	30000	8.1	20.0	--	8.2	100
OCT								
22...	0954	1.00	36000	7.9	21.5	.80	6.9	88
22...	0956	5.00	35000	7.9	21.5	--	7.3	92
22...	0958	9.00	35000	7.9	21.5	--	6.9	87
MAR , 1981								
19...	1148	1.00	29800	8.4	16.5	.90	8.2	92
19...	1150	7.00	30100	8.4	16.5	--	8.3	93
DEC								
08...	1040	1.00	14100	8.3	17.5	.50	8.5	92
08...	1042	7.00	25300	8.1	18.0	--	7.4	85
APR , 1982								
08...	1508	1.00	20400	8.3	23.5	.50	8.6	109
08...	1512	5.00	20400	8.3	23.0	--	8.4	106

280458097004800 LINE 120 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
01...	0826	1.00	14000	8.2	22.5	--	7.0	87
01...	0828	9.00	14000	8.1	22.5	--	6.9	86
OCT								
17...	1016	1.00	15000	8.2	26.5	--	7.4	96
17...	1020	5.00	15000	8.3	26.0	--	7.3	93
17...	1022	10.0	19000	8.3	26.0	--	7.0	91

Table 8.--Quality of water in the Mission-Aransas estuary, water years 1979-83--Continued

280458097004800 LINE 120 SITE 03--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1980								
10...	0953	1.00	28000	8.0	20.0	.80	8.3	100
10...	0956	8.00	28500	8.1	20.0	--	8.3	100
OCT								
22...	1030	1.00	35000	7.9	21.5	.70	7.8	99
22...	1032	5.00	35000	7.9	21.5	--	7.8	99
22...	1034	9.50	36000	7.9	22.0	--	7.2	92
MAR , 1981								
19...	1200	1.00	30600	8.5	16.5	1.40	7.7	86
19...	1202	9.00	30400	8.4	16.5	--	7.8	87
DEC								
08...	1055	1.00	9140	8.4	18.0	.50	8.7	94
08...	1057	9.00	24900	8.1	17.5	--	7.1	80
APR , 1982								
08...	1516	1.00	21100	8.3	23.0	.60	8.6	108
08...	1520	9.00	24400	8.1	22.5	--	6.6	83

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979								
01...	-.01D	.020	.010	.050	.76	.81	.82	.070
01...	--	--	--	--	--	--	--	--
OCT								
17...	.610	.020	.630	.010	.65	.66	1.3	.090
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
APR , 1980								
10...	.000	.000	.000	.080	.23	.31	.31	.080
10...	--	--	--	--	--	--	--	--
OCT								
22...	.000	.000	.000	.090	.63	.72	.72	.060
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
MAR , 1981								
19...	-.010	.010	.000	.060	.94	1.0	1.0	.040
19...	--	--	--	--	--	--	--	--
DEC								
08...	--	<.020	<.100	.090	.73	.82	--	.060
08...	--	--	--	--	--	--	--	--
APR , 1982								
08...	--	<.020	<.100	<.060	--	.62	--	.020
08...	--	--	--	--	--	--	--	--

280132097002200 LINE 133 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
01...	0852	1.00	17000	8.1	22.5	--	7.3	92
01...	0854	8.00	18000	8.1	22.5	--	7.3	92
01...	0856	16.0	18000	8.0	22.5	--	6.9	86
OCT								
17...	1142	1.00	28000	8.3	26.5	--	7.3	99
17...	1146	7.00	30000	8.2	26.5	--	7.1	97
17...	1150	14.0	34500	8.1	26.5	--	6.2	86
APR , 1980								
10...	0922	1.00	31000	8.1	20.0	.90	8.2	100
10...	0924	6.00	31000	8.1	20.0	--	8.2	100
10...	0926	12.0	31500	8.1	20.0	--	8.2	100
OCT								
22...	1059	1.00	37000	8.0	22.0	.50	7.3	94
22...	1101	7.50	37000	8.0	22.0	--	7.2	93
22...	1103	15.0	36000	7.9	22.0	--	6.8	87

Table 8.--Quality of water in the Mission-Aransas estuary, water years 1979-83--Continued

280132097002200 LINE 133 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR , 1981								
19...	1218	1.00	34400	8.4	16.5	.40	7.3	83
19...	1220	15.0	39900	8.3	17.0	--	6.6	78
DEC								
08...	1114	1.00	14200	8.4	17.5	.70	8.5	92
08...	1116	7.00	29000	8.2	18.0	--	7.2	84
08...	1118	14.0	39900	8.0	18.5	--	5.7	70
APR , 1982								
08...	1130	1.00	19900	8.2	21.0	.60	8.5	103
08...	1136	7.50	20500	8.2	20.5	--	7.9	95
08...	1140	15.0	27200	8.1	21.0	--	6.4	79

275723097001300 LINE 141 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
01...	1010	1.00	21000	8.3	22.5	--	7.2	92
01...	1012	9.00	21000	8.3	22.5	--	7.0	89
OCT								
17...	0941	1.00	33000	8.2	26.0	--	6.9	94
17...	0944	5.00	38000	8.1	26.0	--	6.2	87
17...	0946	10.0	42500	8.1	26.0	--	6.0	85
APR , 1980								
10...	0902	1.00	32000	8.1	20.0	.80	8.4	103
10...	0905	8.00	32000	8.1	20.0	--	8.2	100
OCT								
22...	1058	1.00	36000	8.0	21.0	.20	8.1	102
22...	1100	8.00	37000	8.0	21.0	--	7.8	99
MAR , 1981								
19...	1238	1.00	35600	8.3	17.0	.40	7.2	83
19...	1240	8.00	35600	8.4	16.5	--	7.3	84
DEC								
08...	1202	1.00	24900	8.3	18.5	.70	8.6	99
08...	1204	7.00	25100	8.3	18.5	--	8.6	99
APR , 1982								
08...	0935	1.00	22500	8.2	21.0	1.00	8.6	105
08...	0939	7.50	29700	8.1	21.0	--	8.0	100

275750097015400 LINE 141 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)
MAY , 1979										
01...	1000	1.00	22000	8.2	22.5	--	6.9	88	.020	<.010
01...	1002	10.0	22000	8.3	22.5	--	6.9	88	--	--
OCT										
17...	0912	1.00	35000	8.2	26.0	--	6.6	91	.010	.020
17...	0916	5.00	37500	8.2	26.0	--	6.6	92	--	--
17...	0920	10.0	41000	8.1	26.5	--	5.9	84	--	--
APR , 1980										
10...	0850	1.00	31000	8.1	20.0	.80	7.7	94	.000	.010
10...	0852	5.00	32000	8.1	20.0	--	7.6	93	--	--
10...	0854	10.0	32000	8.0	20.0	--	7.1	87	--	--
OCT										
22...	1033	1.00	38000	8.0	21.5	.20	7.2	92	.000	.000
22...	1035	7.00	38000	8.0	21.5	--	6.9	88	--	--
MAR , 1981										
19...	1248	1.00	35400	8.4	17.0	.40	7.6	88	-.010	.020
19...	1250	10.0	35400	8.4	16.5	--	7.2	82	--	--
DEC										
08...	1145	1.00	20300	8.3	18.0	.80	8.5	96	--	<.020
08...	1147	6.00	24400	8.3	18.0	--	8.0	91	--	--
08...	1149	12.0	37600	8.2	19.0	--	7.4	91	--	--
APR , 1982										
08...	0917	1.00	23000	8.2	21.0	.80	8.3	93	--	<.020
08...	0922	9.00	29400	8.2	21.0	--	8.1	101	--	--

Table 8.--Quality of water in the Mission-Aransas estuary, water years 1979-83--Continued

275750097015400 LINE 141 SITE 02--Continued

DATE	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
MAY , 1979									
01...	.020	.030	.92	.95	.97	.060	--	--	--
01...	--	--	--	--	--	--	--	--	--
OCT									
17...	.030	.010	.58	.59	.62	.070	2	300	0
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
APR , 1980									
10...	.010	.260	.46	.72	.73	.100	--	--	--
10...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
OCT									
22...	.000	.410	.18	.59	.59	.080	4	300	30
22...	--	--	--	--	--	--	--	--	--
MAR , 1981									
19...	.010	.060	.53	.59	.60	.060	2	200	0
19...	--	--	--	--	--	--	--	--	--
DEC									
08...	<.100	<.070	--	.93	--	.050	4	100	<1
08...	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--
APR , 1982									
08...	<.100	.060	.82	.88	--	.020	2	<100	<1
08...	--	--	--	--	--	--	--	--	--

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
MAY , 1979									
01...	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--
OCT									
17...	10	0	120	7	30	.1	0	0	90
17...	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--
APR , 1980									
10...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--
OCT									
22...	20	80	130	200	30	.4	0	0	20
22...	--	--	--	--	--	--	--	--	--
MAR , 1981									
19...	30	50	110	0	30	.3	0	0	20
19...	--	--	--	--	--	--	--	--	--
DEC									
08...	20	3	50	<1	20	.3	<1	<1	30
08...	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--
APR , 1982									
08...	20	3	60	<1	30	.1	<1	<1	20
08...	--	--	--	--	--	--	--	--	--

275815097031800 LINE 141 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1979								
17...	0822	1.00	37500	8.2	26.0	--	6.6	92
17...	0825	6.00	38000	8.2	26.0	--	6.4	89
17...	0827	13.0	41500	8.1	26.0	--	5.9	84
APR , 1980								
10...	0753	1.00	33000	8.0	20.0	.70	7.2	88
10...	0755	6.00	34000	8.0	20.0	--	7.2	89
10...	0758	12.0	34000	8.0	20.0	--	7.1	88

Table 8.--Quality of water in the Mission-Aransas estuary, water years 1979-83--Continued

275815097031800 LINE 141 SITE 03--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1980								
22...	1118	1.00	38000	8.0	21.5	--	7.9	101
22...	1120	7.00	41000	8.0	21.5	--	7.8	101
22...	1122	14.0	39000	8.0	22.0	--	6.3	82
MAR , 1981								
19...	1303	1.00	36800	8.4	17.0	.60	7.3	85
19...	1305	13.0	37000	8.3	16.5	--	7.3	84
DEC								
08...	1133	1.00	17800	8.4	18.0	.90	8.5	95
08...	1135	6.50	19700	8.4	17.5	--	8.5	94
08...	1137	13.0	40100	8.1	19.0	--	7.0	87
APR , 1982								
08...	0858	1.00	24700	8.3	21.0	1.00	8.2	101
08...	0901	6.50	26100	8.2	21.0	--	7.8	96
08...	0904	13.0	36700	8.1	21.0	--	7.1	91

275232097025000 LINE 165 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAY , 1979								
01...	0945	1.00	34000	8.2	22.5	--	6.7	91
01...	0947	10.0	35000	8.2	22.5	--	6.6	89
01...	0949	20.0	35000	8.2	23.0	--	6.6	90
OCT								
17...	0846	1.00	48600	8.1	26.5	--	6.4	94
17...	0850	10.0	50000	8.1	26.5	--	6.3	93
17...	0854	20.0	50500	8.1	26.5	--	6.3	93
APR , 1980								
10...	0820	1.00	35500	8.0	19.5	.80	7.6	93
10...	0821	8.00	38000	8.0	19.5	--	7.3	91
10...	0824	17.0	39000	8.0	19.5	--	7.1	89
OCT								
22...	1206	1.00	41000	8.0	21.5	.70	7.9	103
22...	1208	10.0	41000	8.0	21.5	--	7.5	97
22...	1210	19.0	40000	7.8	21.5	--	7.3	94
MAR , 1981								
19...	1328	1.00	37100	8.3	16.5	.50	7.1	82
19...	1330	18.0	37600	8.0	16.5	--	7.3	84
DEC								
08...	1224	1.00	23900	8.3	18.0	.80	8.4	96
08...	1226	9.50	27000	8.3	18.0	--	8.2	95
08...	1228	19.0	27800	8.3	18.0	--	8.0	93
APR , 1982								
08...	0826	1.00	40400	8.2	20.0	.50	7.2	93
08...	0828	8.50	40600	8.2	20.0	--	7.2	93
08...	0832	19.0	40700	8.1	20.5	--	7.1	92

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1979								
01...	.030	.020	.050	.040	.85	.89	.94	.050
01...	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--
OCT								
17...	.010	.020	.030	.020	.21	.23	.26	.030
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
APR , 1980								
10...	.020	.000	.020	.120	.51	.63	.65	.060
10...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--

Table 8.--Quality of water in the Mission-Aransas estuary, water years 1979-83--Continued

275232097025000 LINE 165 SITE 02--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
OCT , 1980								
22...	-.020	.020	.000	.510	.20	.71	.71	.030
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
MAR , 1981								
19...	.000	.010	.010	.050	.56	.61	.62	.060
19...	--	--	--	--	--	--	--	--
DEC								
08...	--	<.020	<.100	<.070	--	.74	--	.040
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
APR , 1982								
08...	--	<.020	<.100	.070	.39	.46	--	<.010
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--

Table 9.--Quality of water in the Nueces estuary, water years 1979-83

[UMHOS, micromhos per centimeter at 25° Celsius; DEG C, degrees Celsius; M, meters; MG/L, milligrams per liter; UG/L, micrograms per liter; UG/KG, micrograms per kilogram]

275138097331900 LINE 022 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
25...	1220	1.00	13000	8.2	26.0	--	6.7	84
25...	1224	8.00	13000	8.4	26.0	--	6.3	79
OCT								
16...	1200	1.00	8500	8.5	27.0	--	9.0	115
16...	1204	5.00	12000	8.8	26.5	--	5.6	72
16...	1208	10.0	21100	8.6	26.5	--	.2	3
APR , 1980								
09...	1144	1.00	16800	8.9	22.0	.20	11.9	141
09...	1146	4.00	17000	8.9	22.0	--	11.9	141
09...	1148	6.00	18500	8.9	22.0	--	10.7	128
09...	1150	10.0	35000	8.4	22.5	--	.4	5
OCT								
21...	1132	1.00	2100	8.1	22.0	.70	7.1	81
21...	1134	9.00	4460	8.2	21.5	--	6.7	76
APR , 1982								
07...	1140	1.00	5770	8.3	22.0	.20	5.9	69
07...	1145	5.00	5850	8.3	21.5	--	4.7	54
07...	1150	9.00	22400	7.9	21.0	--	.7	9
NOV								
23...	1100	1.00	17100	8.3	24.0	.20	6.5	82
23...	1102	5.00	27600	8.1	22.5	--	3.7	47
23...	1104	10.0	47100	7.7	19.0	--	.2	3
MAR , 1983								
16...	1102	1.00	20100	8.6	19.0	.20	5.3	62
16...	1104	5.00	29200	8.4	19.0	--	.3	4
16...	1106	10.0	38500	7.5	20.0	--	.1	1
MAY								
12...	0953	1.00	20300	8.5	24.5	.20	6.3	81
12...	0955	9.00	48900	8.2	24.0	--	1.2	17
JUN								
29...	0950	1.00	1650	8.4	30.0	.30	4.5	60
29...	0951	5.00	21100	8.3	29.0	--	2.1	29
29...	0952	9.00	42100	7.2	27.0	--	1.4	20

275056097270500 LINE 047 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
APR , 1979										
25...	1200	1.00	27000	8.4	26.0	--	6.8	94	--	--
25...	1204	3.00	33000	8.1	26.0	--	4.9	70	--	--
OCT										
16...	1140	1.00	28000	8.5	25.5	--	7.5	101	7	600
16...	1142	3.00	28000	8.4	25.5	--	6.8	91	--	--
APR , 1980										
09...	1122	1.00	45500	7.9	19.0	.00	7.2	90	--	--
09...	1124	3.00	45000	7.9	19.0	--	7.2	90	--	--
OCT										
21...	1148	1.00	18200	8.1	20.0	.60	7.2	83	8	400
21...	1150	4.00	22500	7.9	21.0	--	5.6	67	--	--
MAR , 1981										
17...	1653	1.00	34000	8.3	20.5	.20	9.6	120	4	400
17...	1655	3.00	34000	8.3	20.5	--	9.6	120	--	--
DEC										
09...	1242	2.00	20300	8.5	19.5	.60	8.5	98	7	400
APR , 1982										
07...	1110	1.00	33500	8.0	20.5	.10	6.9	87	3	300
07...	1115	3.00	35000	7.9	21.0	--	6.9	88	--	--
NOV										
23...	1036	1.00	49400	8.1	23.5	.70	5.2	74	5	200
23...	1038	4.00	49600	8.1	23.5	--	5.0	71	--	--
FEB , 1983										
09...	1154	1.00	45700	7.9	17.0	.00	7.3	91	--	--
09...	1156	2.50	45800	7.9	17.0	--	7.4	92	--	--
MAR										
16...	1026	1.00	47300	7.9	18.5	.10	6.9	89	--	--
16...	1028	4.00	47500	7.9	18.5	--	6.7	87	--	--

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

275056097270500 LINE 047 SITE 03--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
MAY , 1983										
12...	0928	1.00	48200	7.9	24.0	.00	6.7	95	--	--
12...	0930	5.00	48200	7.9	24.0	--	6.8	97	--	--
JUN										
29...	0916	1.00	48100	8.0	29.0	.20	5.4	84	4	400
29...	0918	3.50	48200	8.0	29.0	--	5.4	84	--	--

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
APR , 1979										
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
OCT										
16...	0	10	0	130	2	20	.2	0	0	0
16...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
OCT										
21...	30	10	50	60	100	20	.3	0	0	30
21...	--	--	--	--	--	--	--	--	--	--
MAR , 1981										
17...	0	20	50	110	0	30	.5	0	0	30
17...	--	--	--	--	--	--	--	--	--	--
DEC										
09...	<1	10	3	80	<1	10	.7	<1	<1	30
APR , 1982										
07...	<1	30	4	120	<1	30	.1	<1	<1	40
07...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	<1	40	3	170	<1	50	.1	1	<1	40
23...	--	--	--	--	--	--	--	--	--	--
FEB , 1983										
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
MAR										
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
MAY										
12...	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--
JUN										
29...	1	40	10	150	1	40	.1	1	<1	40
29...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	SAMPLING DEPTH (FEET)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT , 1979										
16...	1140	1.00	.0	3	.000	.0	.0	1.0	.000	.1

DATE	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT , 1979										
16...	.000	.4	.000	.0	.00	.000	.1	.000	.000	.0

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

275056097270500 LINE 047 SITE 03--Continued

DATE	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	MALA-THION, TOTAL (UG/L)	METH-OXY-CHLOR, TOTAL (UG/L)
OCT , 1979									
16...	.00	.000	.0	.000	.0	.000	.0	.00	.00

DATE	METH-OXY-CHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARA-THION, TOTAL (UG/L)	METHYL TRI-THION, TOTAL (UG/L)	MIREX, TOTAL (UG/L)	PARA-THION, TOTAL (UG/L)	PER-THANE TOTAL (UG/L)	TOX-APHENE, TOTAL (UG/L)	TOXA-PHENE, TOTAL IN BOT-TOM MA-TERIAL (UG/KG)	TOTAL TRI-THION (UG/L)
OCT , 1979									
16...	.0	.00	.00	.00	.00	.0	.0	.00	.00

275125097252800 LINE 053 SITE 02

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)
APR , 1979											
25...	1120	1.00	39000	8.4	26.5	--	7.4	109	--	4400	4300
25...	1124	3.00	39000	8.4	25.5	--	7.3	106	--	--	--
OCT											
16...	1055	1.00	31900	8.4	26.0	--	7.3	100	1.9	3900	3700
16...	1100	2.00	34500	8.4	25.5	--	6.9	95	--	--	--
APR , 1980											
09...	1048	1.00	45000	8.0	19.0	.20	7.4	93	2.3	5400	5200
09...	1050	4.00	45000	8.0	19.0	--	7.4	93	--	--	--
OCT											
21...	1042	1.00	31000	8.1	20.0	.70	7.6	92	1.6	3600	3500
21...	1045	4.00	37000	8.2	21.5	--	5.9	75	--	--	--
MAR , 1981											
17...	1535	1.00	43100	8.4	20.0	.20	13.8	178	5.7	5100	4900
17...	1537	3.00	43000	8.5	20.0	--	13.6	175	--	--	--
DEC											
09...	1200	1.00	27300	8.4	19.5	.70	8.2	97	1.8	3200	3000
09...	1202	4.00	27100	8.4	19.5	--	7.9	94	--	--	--
APR , 1982											
07...	1040	1.00	38000	7.9	20.5	.20	7.1	91	1.8	4600	4400
07...	1045	4.00	37900	7.9	20.5	--	7.2	92	--	--	--
NOV											
23...	1011	1.00	50100	8.1	22.5	.30	6.1	85	3.9	6900	6800
23...	1012	4.00	50300	8.2	23.0	--	6.1	86	--	--	--
FEB , 1983											
09...	1125	1.00	47000	7.8	16.0	.00	7.3	89	1.9	5600	5400
09...	1127	2.50	46200	7.8	16.0	--	7.3	89	--	--	--
MAR											
16...	0954	1.00	47000	7.9	18.5	.10	6.8	88	1.7	5900	5800
16...	0956	4.00	47000	7.9	18.5	--	6.8	88	--	--	--
MAY											
12...	0912	1.00	48400	7.9	24.0	.00	6.7	95	--	6500	6400
12...	0914	4.00	48100	7.9	24.0	--	6.8	97	--	--	--
JUN											
29...	0856	1.00	47100	8.0	29.0	.20	5.2	80	--	6000	5900
29...	0858	3.50	47800	8.0	29.0	--	5.3	82	--	--	--

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
APR , 1979											
25...	310	890	8100	53	340	140	115	0	2200	14000	1.0
25...	--	--	--	--	--	--	--	--	--	--	--
OCT											
16...	260	780	6300	45	170	150	123	0	1600	11000	.70
16...	--	--	--	--	--	--	--	--	--	--	--

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

275125097252800 LINE 053 SITE 02--Continued

DATE	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	SODIUM, DIS-SOLVED (MG/L AS NA)	SODIUM AD-SORP-TION RATIO	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	BICAR-BONATE FET-FLD (MG/L AS HCO3)	ALKA-LINITY FIELD (MG/L AS CACO3)	CAR-BONATE FET-FLD (MG/L AS CO3)	SULFATE DIS-SOLVED (MG/L AS SO4)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL)	FLUO-RIDE, DIS-SOLVED (MG/L AS F)
APR , 1980											
09...	330	1100	8800	53	380	150	123	0	2000	16000	.80
09...	--	--	--	--	--	--	--	--	--	--	--
OCT											
21...	280	700	5900	43	260	--	126	--	1400	12000	.80
21...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1981											
17...	380	1000	8700	54	310	--	130	--	2400	17000	.70
17...	--	--	--	--	--	--	--	--	--	--	--
DEC											
09...	240	620	5300	41	180	--	140	--	1200	10000	.60
09...	--	--	--	--	--	--	--	--	--	--	--
APR , 1982											
07...	310	920	7600	49	260	--	120	--	1900	14000	.70
07...	--	--	--	--	--	--	--	--	--	--	--
NOV											
23...	450	1400	11000	58	340	--	130	--	2600	20000	.70
23...	--	--	--	--	--	--	--	--	--	--	--
FEB , 1983											
09...	410	1100	9500	56	310	--	120	--	2500	17000	.80
09...	--	--	--	--	--	--	--	--	--	--	--
MAR											
16...	400	1200	9500	54	310	--	100	--	2500	16000	.70
16...	--	--	--	--	--	--	--	--	--	--	--
MAY											
12...	450	1300	11000	60	340	--	110	--	2700	20000	.70
12...	--	--	--	--	--	--	--	--	--	--	--
JUN											
29...	430	1200	10000	57	310	--	110	--	2500	18000	.70
29...	--	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
APR , 1979										
25...	2.3	26000	.050	.020	.070	.020	.55	.57	.64	.060
25...	--	--	--	--	--	--	--	--	--	--
OCT										
16...	7.2	20000	-.010	.020	.010	.010	.73	.74	.75	.110
16...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
09...	5.5	29000	.150	.040	.190	.270	.83	1.1	1.3	.180
09...	--	--	--	--	--	--	--	--	--	--
OCT										
21...	1.8	21000	.000	.000	.000	.630	.16	.79	.79	.130
21...	--	--	--	--	--	--	--	--	--	--
MAR , 1981										
17...	1.8	30000	.000	.010	.010	.080	1.1	1.2	1.2	.130
17...	--	--	--	--	--	--	--	--	--	--
DEC										
09...	8.3	18000	--	<.020	<.100	<.070	--	.86	--	.060
09...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
07...	3.2	25000	--	<.020	<.100	<.060	--	.48	--	.030
07...	--	--	--	--	--	--	--	--	--	--
NOV										
23...	4.0	36000	--	<.010	<.100	.070	1.1	1.2	--	.210
23...	--	--	--	--	--	--	--	--	--	--
FEB , 1983										
09...	3.0	31000	--	<.020	.100	.200	.60	.80	.90	.220
09...	--	--	--	--	--	--	--	--	--	--
MAR										
16...	4.1	30000	.040	.060	.100	.200	1.0	1.2	1.3	.090
16...	--	--	--	--	--	--	--	--	--	--
MAY										
12...	5.5	36000	.140	.060	.200	.190	1.3	1.5	1.7	.120
12...	--	--	--	--	--	--	--	--	--	--
JUN										
29...	6.1	33000	--	.090	<.100	.150	.75	.90	--	.120
29...	--	--	--	--	--	--	--	--	--	--

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

275027097252300 LINE 053 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
25...	1130	1.00	38000	8.5	25.0	--	7.4	106
25...	1133	3.50	38000	8.5	25.0	--	7.5	107
OCT								
16...	1045	1.00	34900	8.4	25.5	--	6.9	95
16...	1048	3.00	35500	8.3	25.5	--	6.7	93
APR , 1980								
09...	1035	1.00	45000	7.9	18.5	.10	7.5	93
09...	1038	5.00	45000	7.9	18.5	--	7.5	93
OCT								
21...	1204	1.00	27500	7.8	20.0	.70	8.6	102
21...	1206	4.00	28000	7.7	20.0	--	7.9	95
MAR , 1981								
17...	1558	1.00	42500	8.5	20.0	.20	13.0	167
17...	1600	3.00	42500	8.2	20.0	--	13.1	169
DEC								
09...	1220	1.00	21300	8.6	20.0	.60	8.3	97
09...	1222	3.00	36700	8.3	23.5	--	7.4	98
APR , 1982								
07...	1025	1.00	37100	7.9	21.0	.10	6.9	89
07...	1030	5.00	37300	8.0	21.0	--	6.9	89
NOV								
23...	1002	1.00	50400	8.1	23.0	.40	6.2	87
23...	1004	3.00	50000	8.0	23.0	--	6.1	86
FEB , 1983								
09...	1210	1.00	45400	7.9	16.0	.20	7.7	94
09...	1212	2.50	45400	7.9	16.0	--	7.8	95
MAR								
16...	0945	1.00	46400	8.0	18.5	.00	7.0	91
16...	0947	4.00	46400	7.9	18.5	--	7.1	92
MAY								
12...	0856	1.00	49200	7.8	24.0	.00	6.9	98
12...	0858	5.00	48500	7.7	24.0	--	6.8	97
JUN								
29...	0844	1.00	46500	8.0	29.0	.20	5.4	83
29...	0846	3.50	46600	8.0	29.0	--	5.3	81

274849097245600 LINE 108 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
APR , 1979									
25...	1035	1.00	40000	8.5	25.0	--	7.5	109	--
25...	1038	20.0	40000	7.8	24.5	--	6.5	93	--
25...	1040	10.0	40000	8.4	25.0	--	7.1	102	--
25...	1045	35.0	41000	8.1	24.0	--	6.7	95	--
OCT									
16...	1000	1.00	38300	8.3	26.0	--	5.6	79	1.5
16...	1005	15.0	42500	8.3	26.0	--	5.0	72	--
16...	1010	30.0	43000	8.2	26.0	--	4.1	59	--
16...	1015	42.0	52000	8.2	26.0	--	4.0	60	2.1
APR , 1980									
09...	0934	1.00	41500	7.8	20.5	.70	4.6	59	5.1
09...	0938	30.0	44500	7.8	21.0	--	6.3	82	--
09...	0940	45.0	45000	8.0	21.0	--	6.3	82	1.6
OCT									
21...	1001	1.00	41000	8.2	24.0	1.30	6.0	82	1.9
21...	1003	25.0	44000	8.3	24.5	--	5.0	70	--
21...	1005	42.0	44000	7.9	24.5	--	5.7	79	2.2
MAR , 1981									
17...	1416	1.00	44000	8.0	18.0	.60	6.9	86	2.1
17...	1418	10.0	44500	8.0	18.0	--	6.9	86	--
17...	1420	25.0	45000	8.1	17.5	--	6.6	82	--
17...	1422	45.0	45000	8.1	19.0	--	6.9	88	2.0
DEC									
09...	1115	1.00	38600	8.3	20.0	.90	6.6	83	2.5
09...	1117	10.0	40000	8.2	20.0	--	6.8	86	--
09...	1119	20.0	40500	8.3	20.0	--	6.6	83	--
09...	1121	30.0	44400	8.2	20.0	--	6.3	81	--
09...	1125	45.0	46300	8.2	20.0	--	6.5	84	.8

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

274849097245600 LINE 108 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
APR , 1982									
07...	0925	1.00	38600	7.9	21.5	.50	5.9	77	1.9
07...	0926	10.0	38900	7.9	21.5	--	5.8	76	--
07...	0927	20.0	38400	7.9	21.5	--	5.6	73	--
07...	0928	30.0	39300	7.9	21.5	--	5.7	75	--
07...	0930	45.0	38900	7.9	21.5	--	6.2	81	1.9
NOV									
23...	0910	1.00	48900	8.0	20.5	.40	5.5	74	2.8
23...	0912	10.5	49600	8.0	20.0	--	5.3	71	--
23...	0914	21.0	49600	8.0	20.0	--	5.1	68	--
23...	0916	42.0	49700	8.0	19.5	--	5.0	66	4.3
FEB , 1983									
09...	1020	1.00	44700	8.0	15.0	.50	7.0	83	1.8
09...	1022	5.00	44500	8.0	15.0	--	6.8	81	--
09...	1024	10.0	44600	8.0	15.0	--	7.0	83	--
09...	1026	21.0	44800	8.0	14.5	--	6.8	80	--
09...	1028	42.0	44900	8.0	14.0	--	6.8	79	1.3
MAR									
15...	1124	1.00	44000	8.3	19.0	.50	6.2	80	2.4
15...	1126	10.0	44500	8.3	19.0	--	5.9	76	--
15...	1128	21.0	44500	8.3	19.0	--	5.4	70	--
15...	1130	42.0	44800	8.3	18.5	--	5.3	68	1.5
JUN									
28...	1032	1.00	44000	7.8	30.0	.70	4.5	70	2.0
28...	1034	11.0	44100	7.8	30.0	--	4.4	68	--
28...	1036	22.0	44300	7.8	30.0	--	4.4	68	--
28...	1038	44.0	44500	7.8	30.0	--	4.3	67	1.0

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
25...	.030	.020	.050	.110	.82	.93	.98	.160
25...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--
25...	.030	.020	.050	.190	.91	1.1	1.2	.180
OCT								
16...	.060	.100	.160	.200	1.3	1.5	1.7	.100
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
16...	.000	.020	.020	.150	.39	.54	.56	.100
APR , 1980								
09...	.120	.060	.180	1.00	1.0	2.0	2.2	.430
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
09...	.070	.020	.090	.180	.66	.84	.93	.110
OCT								
21...	.210	.040	.250	1.00	.50	1.5	1.8	.090
21...	--	--	--	--	--	--	--	--
21...	.000	.000	.000	.060	.88	.94	.94	.080
MAR , 1981								
17...	.430	.110	.540	.580	.72	1.3	1.8	.060
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
17...	.020	.010	.030	.170	.42	.59	.62	.060
DEC								
09...	.180	.030	.210	.580	1.1	1.7	1.9	.190
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
09...	--	<.020	<.100	.130	.70	.83	--	.010
APR , 1982								
07...	.070	.030	.100	.350	.37	.72	.82	.080
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
07...	--	.020	<.100	.300	1.1	1.4	--	.070
NOV								
23...	.080	.020	.100	.410	1.3	1.7	1.8	.100
23...	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--
23...	.170	.030	.200	.260	1.2	1.5	1.7	.330

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

274849097245600 LINE 108 SITE 02--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
FEB , 1983								
09...	.370	.030	.400	.310	.29	.60	1.0	.160
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
09...	--	<.020	.200	.230	.37	.60	.80	.150
MAR								
15...	.160	.040	.200	.380	1.0	1.4	1.6	.140
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
15...	--	<.020	<.100	.210	.89	1.1	--	.110
JUN								
28...	.250	.050	.300	.300	.40	.70	1.0	.110
28...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--
28...	--	.040	<.100	.290	.51	.80	--	.110

275105097193100 LINE 122 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	NITROGEN, NITRATE TOTAL (MG/L AS N)
APR , 1979									
25...	1100	1.00	39000	8.5	24.0	--	6.8	96	--
25...	1105	7.00	39000	8.4	24.0	--	6.4	90	--
25...	1800	1.00	39000	8.5	25.0	--	7.5	109	.020
25...	1805	10.0	39000	8.5	25.0	--	7.2	104	.030
26...	0730	1.00	42700	8.4	24.5	--	6.6	96	.020
26...	0735	11.0	42700	8.4	24.5	--	6.5	94	.020
OCT									
16...	0920	1.00	37000	8.2	26.0	--	6.8	96	-.010
16...	0925	6.00	38000	8.2	26.0	--	6.7	95	--
16...	0928	13.0	39000	8.1	26.0	--	5.4	77	-.010
APR , 1980									
09...	0840	1.00	45500	8.1	20.0	.50	7.2	92	-.010
09...	0845	10.0	45500	8.1	20.0	--	7.2	92	.000
OCT									
21...	0850	1.00	42000	7.7	22.5	.80	6.5	86	.000
21...	0855	10.0	43000	7.4	22.5	--	6.7	89	.000
DEC , 1981									
09...	0943	1.00	37600	8.5	19.0	1.70	7.2	88	--
09...	0945	11.0	40500	8.3	19.5	--	5.5	69	--
APR , 1982									
07...	1300	1.00	39400	8.1	21.5	.50	6.6	87	--
07...	1305	11.0	39500	8.1	21.5	--	6.5	85	--
NOV									
23...	0755	1.00	47400	8.3	21.5	.40	6.9	94	--
23...	0757	4.50	47500	8.2	21.5	--	6.8	92	--
23...	0759	9.00	47600	8.2	21.5	--	6.6	90	--
FEB , 1983									
09...	0840	1.00	44300	8.0	14.0	.90	8.2	95	--
09...	0841	5.00	44400	8.0	14.0	--	8.2	95	--
09...	0842	10.0	44500	8.0	14.0	--	7.7	89	--
MAR									
15...	1210	1.00	43000	8.3	19.5	.60	6.3	82	--
15...	1212	6.00	43000	8.3	19.5	--	6.2	80	--
15...	1214	12.0	41000	8.3	19.5	--	5.9	76	--
MAY									
11...	0818	1.00	46300	8.0	23.5	.20	6.8	95	--
11...	0819	6.00	46400	8.0	23.5	--	6.8	95	--
11...	0820	12.0	46700	7.9	23.5	--	6.0	84	--
JUN									
28...	0808	1.00	40900	8.0	29.5	.20	5.7	86	--
28...	0810	12.0	41100	8.0	29.5	--	5.4	82	--

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

275105097193100 LINE 122 SITE 02--Continued

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
25...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--
25...	<.010	.020	.020	.45	.47	.49	--	.030
25...	<.010	.030	.030	.77	.80	.83	--	.110
26...	<.010	.020	.020	.36	.38	.40	--	.030
26...	<.010	.020	.010	.42	.43	.45	--	.030
OCT								
16...	.020	.010	.010	.61	.62	.63	--	.080
16...	--	--	--	--	--	--	--	--
16...	.020	.010	.020	.75	.77	.78	--	.090
APR , 1980								
09...	.010	.000	.120	3.2	3.3	3.3	--	.300
09...	.000	.000	.100	.59	.69	.69	--	.060
OCT								
21...	.000	.000	.020	.80	.82	.82	--	.060
21...	.000	.000	.950	.25	1.2	1.2	--	.090
DEC , 1981								
09...	<.020	<.100	<.070	--	.70	--	--	.020
09...	.020	<.100	<.070	--	.90	--	--	.020
APR , 1982								
07...	<.020	<.100	.070	.57	.64	--	<.100	.070
07...	<.020	<.100	.080	2.2	2.3	--	<.100	.060
NOV								
23...	.010	<.100	<.060	--	.50	--	--	.050
23...	--	--	--	--	--	--	--	--
23...	.020	<.100	<.060	--	.90	--	--	.050
FEB , 1983								
09...	<.020	<.100	.060	.34	.40	--	--	.090
09...	--	--	--	--	--	--	--	--
09...	<.020	<.100	.060	.34	.40	--	--	.080
MAR								
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
MAY								
11...	<.020	<.100	.070	.43	.50	--	--	.050
11...	--	--	--	--	--	--	--	--
11...	<.020	<.100	.070	.73	.80	--	--	.080
JUN								
28...	.020	<.100	.100	.50	.60	--	--	.060
28...	.040	<.100	.080	.72	.80	--	--	.070

274838097201700 LINE 122 SITE 06

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	CHLORIDE, DISSOLVED (MG/L AS CL)
APR , 1979									
25...	1015	1.00	41000	8.6	24.5	--	6.7	96	--
25...	1018	20.0	41000	8.5	24.0	--	6.2	89	--
25...	1020	42.0	42000	8.3	24.0	--	5.6	80	--
OCT									
16...	0938	1.00	39000	8.2	26.5	--	6.7	96	--
16...	0941	10.0	40000	8.2	26.0	--	6.4	91	--
16...	0945	20.0	47000	8.1	26.0	--	5.7	84	--
16...	0947	40.0	49000	8.0	26.0	--	5.7	84	--
16...	0950	50.0	49000	8.0	26.0	--	5.6	83	--
APR , 1980									
09...	0852	1.00	45500	8.1	20.5	.40	7.1	92	--
09...	0854	10.0	45500	8.1	20.5	--	7.0	91	--
09...	0856	20.0	45500	8.1	20.5	--	6.9	89	--
09...	0858	30.0	45500	8.1	20.5	--	6.9	89	--
09...	0900	44.0	46000	8.1	20.5	--	6.9	89	--
OCT									
21...	0910	1.00	40000	7.7	22.0	--	7.1	93	--
21...	0912	25.0	43000	7.7	23.0	--	6.6	89	--
21...	0915	50.0	45500	7.7	24.0	--	6.1	85	--
MAR , 1981									
17...	1244	1.00	45000	8.1	17.5	1.10	9.2	114	--
17...	1246	10.0	45000	8.1	17.5	--	8.6	106	--
17...	1248	25.0	45700	8.1	17.5	--	7.5	93	--
17...	1250	50.0	45000	8.0	17.5	--	7.8	96	--

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

274838097201700 LINE 122 SITE 06--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	CHLORIDE, DISSOLVED (MG/L AS CL)
DEC , 1981									
09...	1020	1.00	37600	8.4	19.0	1.50	7.3	89	--
09...	1022	10.0	38100	8.4	19.0	--	7.2	88	--
09...	1024	18.0	42000	8.3	19.5	--	6.6	83	--
09...	1026	25.0	42900	8.3	19.5	--	6.3	80	--
09...	1028	40.0	46300	8.3	20.0	--	6.1	79	--
09...	1030	47.0	46300	8.3	20.0	--	6.0	78	--
NOV , 1982									
23...	0816	1.00	50400	8.2	20.5	.40	6.5	88	--
23...	0818	6.00	50400	8.2	20.5	--	6.4	86	--
23...	0820	12.0	50400	8.2	20.5	--	6.4	86	--
23...	0822	24.0	50400	8.1	20.5	--	6.3	85	--
23...	0824	48.0	50400	8.1	20.5	--	6.2	84	--
FEB , 1983									
09...	0910	1.00	44900	8.1	14.0	1.00	8.3	96	--
09...	0912	7.00	44900	8.1	14.0	--	8.3	96	--
09...	0914	13.0	44900	8.1	14.0	--	8.3	96	--
09...	0916	25.0	44900	8.1	14.0	--	8.2	95	--
09...	0918	50.0	45000	8.0	13.5	--	8.0	92	--
MAR									
15...	1054	1.00	45000	8.3	19.0	.30	6.6	86	--
15...	1056	13.0	44500	8.3	19.0	--	6.5	84	--
15...	1058	25.0	44000	8.3	19.0	--	6.1	79	--
15...	1100	50.0	41500	8.2	19.0	--	5.2	66	--
MAY									
11...	0848	1.00	46700	8.0	24.0	.20	6.6	93	290
11...	0850	12.0	47800	8.0	24.0	--	6.1	87	290
11...	0852	25.0	47800	8.0	24.0	--	6.1	87	290
11...	0854	49.0	47400	7.6	24.0	--	4.8	68	290
JUN									
28...	1000	1.00	43200	8.0	29.5	.30	5.5	84	290
28...	1002	12.0	43700	7.9	29.5	--	5.2	80	290
28...	1004	23.0	44100	7.9	29.5	--	5.2	80	290
28...	1006	46.0	44200	7.9	29.5	--	5.2	80	290

274543097211100 LINE 122 SITE 12

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
25...	1000	1.00	41000	8.6	24.5	--	7.1	101
25...	1005	11.0	41000	8.6	24.5	--	6.7	95
OCT								
16...	1004	1.00	43000	8.2	26.5	--	6.7	98
16...	1007	6.00	42500	8.2	26.5	--	6.7	97
16...	1010	13.0	39000	8.2	26.5	--	6.4	92
APR , 1980								
09...	0908	1.00	45500	8.1	20.0	.30	7.3	94
09...	0910	8.00	45500	8.1	20.0	--	7.1	91
OCT								
21...	0925	1.00	42000	7.7	22.0	.60	7.1	94
21...	0930	12.0	42000	7.7	22.0	--	7.0	92
MAR , 1981								
17...	1225	1.00	45500	8.1	18.0	.70	8.6	107
17...	1227	10.0	45500	8.5	18.0	--	8.1	101
DEC								
09...	1040	1.00	36700	8.4	19.0	.70	7.6	93
09...	1042	7.00	36700	8.4	19.0	--	7.7	94
NOV , 1982								
23...	0840	1.00	50500	8.1	20.5	.70	6.3	85
23...	0842	7.00	50500	8.2	20.5	--	6.4	86
FEB , 1983								
09...	0940	1.00	44500	8.0	14.5	.70	7.8	91
09...	0942	7.00	44600	8.1	14.5	--	8.0	94
MAR								
15...	1032	1.00	44500	8.3	19.5	.40	6.8	89
15...	1034	7.00	44000	8.3	19.0	--	6.4	82
MAY								
11...	0912	1.00	48500	8.1	23.5	.20	6.2	88
11...	0914	9.00	47800	8.1	23.5	--	6.3	89
JUN								
28...	1107	1.00	45200	7.9	30.0	.30	5.1	79
28...	1109	12.0	45300	7.9	30.0	--	5.1	79

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

274543097211100 LINE 122 SITE 12--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
25...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--
OCT								
16...	.000	.000	.000	.010	.76	.77	.77	.050
16...	--	--	--	--	--	--	--	--
16...	-.020	.020	.000	.010	.67	.68	.68	.050
APR , 1980								
09...	.030	.010	.040	.150	.59	.74	.78	.080
09...	.010	.010	.020	.120	.64	.76	.78	.090
OCT								
21...	.000	.000	.000	.820	.02	.84	.84	.050
21...	.000	.000	.000	.010	1.2	1.2	1.2	.070
MAR , 1981								
17...	.000	.010	.010	.090	.62	.71	.72	.080
17...	.010	.010	.020	.080	.54	.62	.64	.060
DEC								
09...	--	<.020	<.100	<.070	--	.80	--	.020
09...	--	<.020	<.100	<.070	--	.85	--	.020
NOV , 1982								
23...	--	.010	<.100	<.060	--	.70	--	.050
23...	--	.010	<.100	<.060	--	.80	--	.050
FEB , 1983								
09...	--	<.020	<.100	.060	.64	.70	--	.090
09...	--	<.020	<.100	<.060	--	.40	--	.090
MAR								
15...	--	<.020	<.100	.090	.61	.70	--	.110
15...	--	<.020	<.100	.100	.50	.60	--	.140
MAY								
11...	--	<.020	<.100	.080	.32	.40	--	.050
11...	--	<.020	<.100	.070	.73	.80	--	.060
JUN								
28...	--	.040	<.100	.100	.60	.70	--	.060
28...	--	.020	<.100	.100	.60	.70	--	.070

274820097125900 LINE 142 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
25...	0930	1.00	41000	7.6	24.0	--	7.0	100
25...	0934	11.0	41000	7.8	24.0	--	6.9	99
25...	1715	1.00	40000	8.3	24.5	--	7.6	109
25...	1720	13.0	40000	8.3	24.5	--	7.6	109
OCT								
16...	1028	1.00	39000	8.2	26.5	--	6.8	98
16...	1030	7.00	45000	8.2	26.5	--	6.6	97
16...	1033	14.0	47500	8.1	26.5	--	5.8	86
APR , 1980								
09...	0835	1.00	44000	7.9	19.5	.90	6.9	87
09...	0838	5.00	44000	7.9	19.5	--	6.9	87
09...	0840	10.0	44000	7.9	19.5	--	6.9	87
OCT								
21...	1030	1.00	43000	8.2	22.5	.80	7.1	95
21...	1032	13.0	44000	8.3	22.5	--	7.0	94
MAR , 1981								
17...	1508	1.00	44400	8.3	18.0	.70	7.2	91
17...	1510	11.0	44800	8.3	18.0	--	7.1	89
DEC								
09...	1202	1.00	37500	8.3	19.0	.70	7.5	92
09...	1204	5.50	37600	8.3	19.0	--	7.2	88
09...	1206	11.0	39400	8.2	19.0	--	6.0	74
APR , 1982								
07...	1040	1.00	36000	8.1	20.5	.30	7.2	91
07...	1044	9.00	36200	8.1	21.0	--	7.1	91
NOV								
22...	1518	1.00	49800	8.1	21.0	.50	7.4	100
22...	1520	6.00	49900	8.1	20.5	--	7.4	100
22...	1522	12.0	50100	8.1	20.5	--	6.8	92

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

274820097125900 LINE 142 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
FEB , 1983								
08...	1043	1.00	43000	8.1	13.5	1.70	7.8	88
08...	1045	7.00	43300	8.1	13.5	--	7.8	88
MAR								
15...	1008	1.00	43500	8.3	18.5	.60	6.7	85
15...	1010	10.0	44000	8.3	18.5	--	6.4	82
MAY								
11...	1118	1.00	44300	8.2	24.0	.30	6.5	91
11...	1120	10.0	44500	8.2	24.0	--	6.6	92
JUN								
28...	1235	1.00	42600	8.1	31.0	.60	5.6	88
28...	1237	10.0	47300	7.9	30.0	--	5.0	78

274548097141000 LINE 142 SITE 06

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
APR , 1979											
25...	0915	1.00	41000	8.6	24.5	--	7.3	104	--	--	--
25...	0920	12.0	41000	8.5	24.0	--	7.1	101	--	--	--
25...	1715	1.00	40000	8.3	24.5	--	7.6	109	--	--	--
25...	1724	13.0	40000	8.3	24.5	--	7.6	109	--	--	--
26...	0710	1.00	43600	8.4	24.5	--	6.9	100	--	--	--
26...	0715	12.0	43800	8.5	24.0	--	6.9	100	--	--	--
OCT											
16...	1038	1.00	39900	8.2	26.5	--	6.7	96	4600	4500	200
16...	1041	7.00	39500	8.2	26.5	--	6.7	96	--	--	--
16...	1046	14.0	39500	8.2	26.5	--	6.6	95	--	--	--
APR , 1980											
09...	0848	1.00	44000	8.0	20.0	.60	7.3	93	5300	5200	320
09...	0851	6.00	45500	8.0	20.0	--	7.1	91	--	--	--
09...	0854	12.0	45000	8.0	20.0	--	7.2	92	--	--	--
OCT											
21...	1018	1.00	43300	8.2	22.5	.70	7.0	94	5500	5400	400
21...	1020	15.0	44000	8.2	22.5	--	7.0	94	--	--	--
MAR , 1981											
17...	1446	1.00	45900	8.3	18.0	.60	7.4	93	5400	5300	340
17...	1448	13.0	45800	8.3	18.0	--	7.4	93	--	--	--
DEC											
09...	1134	1.00	38100	8.2	19.0	.70	7.7	94	4500	4400	310
09...	1136	6.50	37100	8.2	19.0	--	7.7	94	--	--	--
09...	1138	13.0	37300	8.2	19.0	--	7.6	93	--	--	--
APR , 1982											
07...	1010	1.00	39500	8.0	21.0	.30	7.1	92	4900	4700	320
07...	1016	6.50	39400	8.0	21.0	--	7.0	91	--	--	--
07...	1022	13.0	39400	8.0	21.0	--	7.0	91	--	--	--
NOV											
22...	1456	1.00	50000	8.1	21.0	.40	7.7	105	6800	6700	410
22...	1458	6.50	50300	8.1	21.0	--	7.5	102	--	--	--
22...	1500	13.0	50900	8.1	19.5	--	6.3	83	--	--	--
FEB , 1983											
08...	1020	1.00	44900	8.1	13.5	1.30	8.1	92	5400	5300	360
08...	1022	6.00	44100	8.1	13.5	--	8.1	92	--	--	--
08...	1024	12.0	44100	8.1	13.0	--	7.9	89	--	--	--
MAR											
15...	0938	1.00	44500	8.3	19.0	.80	6.5	84	5400	5300	360
15...	0940	7.00	44500	8.3	19.0	--	6.3	81	--	--	--
15...	0942	14.0	44500	8.3	18.5	--	6.3	81	--	--	--
MAY											
11...	1048	1.00	46000	8.2	24.0	.30	6.4	90	5900	5800	400
11...	1050	15.0	46700	8.2	23.5	--	6.0	84	--	--	--
JUN											
28...	1215	1.00	46500	7.9	31.0	.50	5.6	89	6000	5800	410
28...	1217	7.00	47600	7.9	30.0	--	5.1	80	--	--	--
28...	1219	13.0	48000	7.9	30.0	--	4.8	76	--	--	--

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

274548097141000 LINE 142 SITE 06--Continued

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
APR , 1979										
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--
OCT										
16...	1000	8000	52	1.2	140	115	0	2000	15000	.70
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
APR , 1980										
09...	1100	8700	52	410	160	131	0	2000	16000	.70
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
OCT										
21...	1100	8800	52	400	--	130	--	2100	18000	.80
21...	--	--	--	--	--	--	--	--	--	--
MAR , 1981										
17...	1100	8800	53	340	--	130	--	2600	16000	.60
17...	--	--	--	--	--	--	--	--	--	--
DEC										
09...	910	7500	49	270	--	130	--	1800	14000	.70
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
APR , 1982										
07...	990	7700	48	290	--	130	--	2100	15000	.80
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
NOV										
22...	1400	11000	59	330	--	130	--	2500	20000	.70
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
FEB , 1983										
08...	1100	8600	51	--	--	120	--	2300	15000	.70
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--	--	--
MAR										
15...	1100	8700	52	310	--	120	--	2400	16000	.70
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
MAY , 1983										
11...	1200	9400	54	320	--	120	--	2500	18000	.70
11...	--	--	--	--	--	--	--	--	--	--
JUN										
28...	1200	9600	55	310	--	120	--	2400	18000	.80
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979										
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	.020	<.010	.020	.D20	.52	.54	.56	.040
25...	--	--	.020	<.010	.020	.010	.59	.60	.62	.060
26...	--	--	.020	<.010	.D20	.010	.48	.49	.51	.040
26...	--	--	.030	<.010	.030	.010	.95	.96	.99	.080
OCT										
16...	3.0	26000	-.020	.020	.000	.010	.82	.83	.83	.040
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	-.010	.020	.010	.010	.43	.44	.45	.040
APR , 1980										
09...	.8	29000	.010	.000	.010	.130	.80	.93	.94	.070
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	-.010	.010	.000	.160	1.4	1.6	1.6	.300
OCT										
21...	.7	31000	.000	.000	.000	.010	.54	.55	.55	.050
21...	--	--	.000	.000	.000	.050	.89	.94	.94	.080
MAR , 1981										
17...	1.3	29000	.000	.010	.010	.D70	.61	.68	.69	.040
17...	--	--	-.010	.010	.000	.080	.46	.54	.54	.040

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

274548097141000 LINE 142 SITE 06--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
DEC , 1981										
09...	4.3	25000	--	<.020	<.100	<.070	--	.73	--	.020
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	<.020	<.100	<.070	--	.86	--	.020
APR , 1982										
07...	1.9	26000	--	<.020	<.100	.070	.64	.71	--	<.010
07...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	<.020	<.100	.080	1.7	1.8	--	<.010
NOV										
22...	2.8	36000	--	<.010	<.100	<.060	--	.70	--	.050
22...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	<.010	<.100	<.060	--	1.2	--	.060
FEB , 1983										
08...	1.5	27000	--	<.020	<.100	<.060	--	.40	--	.080
08...	--	--	--	--	--	--	--	--	--	--
08...	--	--	--	<.020	<.100	<.060	--	.40	--	.080
MAR										
15...	1.5	29000	--	<.020	<.100	.070	.53	.60	--	.150
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	.020	<.100	.140	.56	.70	--	.090
MAY										
11...	<1.2	--	--	<.020	<.100	.070	.83	.90	--	.040
11...	--	--	--	<.020	<.100	.060	.34	.40	--	.050
JUN										
28...	3.3	32000	--	<.020	<.100	.090	.61	.70	--	.060
28...	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	.030	<.100	.130	.57	.70	--	.070

274315097152000 LINE 142 SITE 10

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
APR , 1979								
25...	0904	1.00	42000	8.3	25.0	--	7.2	105
25...	0906	12.0	42000	8.4	25.0	--	7.1	102
OCT								
16...	1124	1.00	42000	8.2	26.5	--	6.8	99
16...	1127	6.00	41000	8.2	26.5	--	6.7	97
16...	1130	12.0	42000	8.2	26.5	--	6.3	91
APR , 1980								
09...	0908	1.00	44000	8.0	20.5	--	7.4	95
09...	0910	6.00	45000	8.0	20.5	--	7.2	93
09...	0912	13.0	45000	8.0	20.5	.70	7.1	92
OCT								
21...	0951	1.00	45000	8.3	22.0	.70	6.4	85
21...	0953	15.0	45000	8.3	22.5	--	6.2	83
MAR , 1981								
17...	1428	1.00	45600	8.3	18.5	.40	8.2	104
17...	1430	13.0	45600	8.3	18.5	--	8.2	104
DEC								
09...	1120	1.00	36600	8.2	19.0	1.00	6.7	82
09...	1122	13.0	36800	8.1	19.0	--	6.4	78
APR , 1982								
07...	0954	1.00	39100	8.0	21.0	.30	7.1	92
07...	0957	7.00	39100	8.0	21.0	--	7.0	91
07...	1000	14.0	39100	8.0	21.0	--	6.9	90
NOV								
22...	1440	1.00	49500	8.2	20.5	.50	6.8	91
22...	1442	6.00	49600	8.2	20.5	--	6.8	91
22...	1444	12.0	50200	8.1	20.5	--	7.1	96
FEB , 1983								
08...	1000	1.00	44300	8.1	13.5	.80	8.0	91
08...	1002	7.00	44400	8.1	13.5	--	7.9	90
08...	1004	13.0	44400	8.1	13.5	--	7.7	87
MAR								
15...	0916	1.00	45000	8.3	18.5	.80	6.5	83
15...	0918	6.00	43500	8.3	18.5	--	6.6	84
15...	0920	13.0	44500	8.3	18.5	--	6.5	83
MAY								
11...	1030	1.00	47600	8.1	24.0	.40	6.4	91
11...	1031	7.00	48000	8.1	24.0	--	6.0	85
11...	1032	14.0	48500	8.1	24.0	--	6.1	87

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

274315097152000 LINE 142 SITE 10--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
JUN , 1983								
28...	1200	1.00	48000	7.9	31.0	.70	5.4	86
28...	1202	7.00	48200	7.9	30.5	--	5.3	84
28...	1204	14.0	52600	8.2	30.0	--	4.5	72

274720097092600 LINE 147 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	CHLORIDE, DISSOLVED (MG/L AS CL)
APR , 1979									
25...	0800	1.00	41000	7.9	24.5	--	6.9	99	--
25...	0805	10.0	40000	8.0	24.0	--	6.9	99	--
OCT									
16...	1225	1.00	44000	8.2	26.5	--	6.8	100	--
16...	1227	5.00	44000	8.2	26.5	--	6.8	100	--
16...	1230	10.0	44000	8.2	26.5	--	6.8	100	--
APR , 1980									
09...	1046	1.00	44000	8.0	20.0	.80	7.3	93	--
09...	1048	8.00	44000	8.0	20.0	--	7.1	91	--
OCT									
21...	0835	1.00	46000	8.2	22.0	1.00	7.1	95	--
21...	0837	13.0	47000	8.2	22.0	--	6.9	93	--
MAR , 1981									
17...	1238	1.00	41500	8.1	17.5	.60	7.5	92	--
17...	1240	12.0	43200	8.1	17.5	--	7.3	89	--
DEC									
09...	1011	1.00	38500	8.2	19.0	1.70	7.8	96	--
09...	1013	5.00	38500	8.2	19.0	--	7.8	96	--
09...	1015	10.0	41600	8.1	19.0	--	6.2	77	--
APR , 1982									
07...	0837	1.00	36800	8.0	20.5	.40	7.2	92	--
07...	0839	10.0	38300	8.1	20.5	--	7.0	90	--
NOV									
22...	1326	1.00	48600	8.1	21.5	.40	7.2	98	--
22...	1328	4.50	48900	8.2	21.5	--	7.3	99	--
22...	1330	9.00	49000	8.1	21.5	--	7.7	105	--
FEB , 1983									
08...	0827	1.00	42900	8.1	13.0	1.70	8.5	95	--
08...	0829	11.0	43100	8.1	13.0	--	8.5	95	--
MAR									
15...	0758	1.00	44500	8.2	19.0	.90	6.7	86	--
15...	0800	5.00	44000	8.2	19.0	--	6.6	85	--
15...	0802	11.0	45000	8.2	18.5	--	6.6	85	--
MAY									
11...	1206	1.00	45500	8.2	23.5	.50	6.4	89	240
11...	1208	12.0	47400	8.1	23.5	--	5.5	77	240
JUN									
28...	1312	1.00	42600	8.0	30.5	--	5.9	92	240
28...	1313	6.00	43500	8.0	30.0	.40	6.1	94	240
28...	1314	12.0	48800	7.9	30.0	--	5.1	81	240

274335097111700 LINE 147 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
25...	0815	1.00	41000	8.3	24.5	--	7.3	105
25...	0817	6.00	41000	8.1	24.5	--	7.3	104
25...	0820	12.0	41000	8.3	24.0	--	7.3	104
OCT								
16...	1142	1.00	37500	8.2	26.0	--	6.8	96
16...	1144	6.00	38000	8.2	26.0	--	6.8	96
16...	1146	12.0	38000	8.2	26.5	--	6.4	91
APR , 1980								
09...	1020	1.00	44000	8.0	20.0	.90	7.1	91
09...	1022	6.00	44000	8.0	20.0	--	7.1	91
09...	1024	12.0	45000	8.0	20.0	--	7.1	91

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

274335097111700 LINE 147 SITE 04--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1980								
21...	0852	1.00	45000	8.2	22.5	.60	6.5	87
21...	0858	13.0	45000	8.2	22.5	--	6.5	87
MAR , 1981								
17...	1310	1.00	44200	8.2	18.0	.70	7.5	93
17...	1312	12.0	44300	8.2	18.0	--	7.4	91
DEC								
09...	1032	1.00	37500	8.2	19.0	.90	7.9	96
09...	1034	6.50	37600	8.2	19.0	--	7.9	97
09...	1036	13.0	37600	8.2	19.0	--	7.9	97
APR , 1982								
07...	0859	1.00	38900	8.0	21.0	.40	7.1	92
07...	0900	6.50	38900	8.0	21.0	--	7.0	91
07...	0902	13.0	38900	8.0	21.0	--	7.0	91
NOV								
22...	1348	1.00	49500	8.1	20.5	.50	6.6	89
22...	1350	6.00	49500	8.1	20.5	--	6.0	80
22...	1352	12.0	49900	8.1	19.5	--	4.6	61
FEB , 1983								
08...	0845	1.00	43500	8.1	13.0	1.90	8.1	90
08...	0847	6.00	43500	8.1	13.0	--	8.1	90
08...	0849	12.0	44200	8.0	13.5	--	7.9	89
MAR								
15...	0815	1.00	45000	8.2	18.5	.80	6.5	83
15...	0817	9.00	44500	8.2	18.5	--	6.6	84
MAY								
11...	1143	1.00	47100	8.1	24.0	.40	6.3	89
11...	1145	13.0	47600	8.1	24.0	--	6.0	85
JUN								
28...	1254	1.00	47600	7.9	30.5	.50	6.0	95
28...	1256	13.0	48100	7.9	30.0	--	5.0	79

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
25...	.020	<.010	.020	.020	.50	.52	.54	.030
25...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--
OCT								
16...	-.020	.020	.000	.010	.51	.52	.52	.050
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
APR , 1980								
09...	.000	.010	.010	.080	.75	.83	.84	.070
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
OCT								
21...	.000	.000	.000	.840	.26	1.1	1.1	.030
21...	--	--	--	--	--	--	--	--
MAR , 1981								
17...	.000	.010	.010	.060	.49	.55	.56	.040
17...	--	--	--	--	--	--	--	--
DEC								
09...	--	<.020	<.100	<.070	--	.79	--	.010
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
APR , 1982								
07...	--	<.020	<.100	<.060	--	.51	--	<.010
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
NOV								
22...	--	<.010	<.100	<.060	--	.70	--	.050
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
FEB , 1983								
08...	--	<.020	<.100	.060	.34	.40	--	.070
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
MAR								
15...	--	.020	<.100	.090	.51	.60	--	.090
15...	--	--	--	--	--	--	--	--

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

274335097111700 LINE 147 SITE 04--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
MAY , 1983								
11...	--	<.020	<.100	.060	.44	.50	--	.030
11...	--	--	--	--	--	--	--	--
JUN								
28...	--	<.020	<.100	.080	.72	.80	--	.050

275326097063300 LINE 159 SITE 08

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
26...	0820	1.00	41000	8.5	23.0	--	6.3	89
26...	0825	11.0	41000	8.4	23.0	--	6.2	87
OCT								
16...	1415	1.00	42000	8.3	26.5	--	7.1	103
16...	1418	10.0	44000	8.2	26.5	--	6.4	94
16...	1422	21.0	47000	8.1	26.5	--	6.0	89
APR , 1980								
09...	1154	1.00	36000	8.1	18.5	.90	7.7	92
09...	1156	10.0	37500	8.0	18.5	--	7.3	88
09...	1158	20.0	38000	8.0	18.5	--	7.1	86
OCT								
21...	1114	1.00	48000	8.1	22.5	.60	6.7	91
21...	1116	8.00	48000	8.1	22.5	--	6.6	90
21...	1118	16.0	47000	8.1	22.5	--	5.8	79
MAR , 1981								
17...	1543	1.00	40300	8.3	18.5	.50	7.6	94
17...	1545	15.0	40400	8.3	18.0	--	7.3	89
DEC								
09...	1241	1.00	23400	8.4	20.0	.80	7.8	92
09...	1243	8.50	34200	8.3	19.5	--	6.1	74
09...	1245	17.0	36000	8.3	19.5	--	6.0	73
APR , 1982								
07...	1109	1.00	27600	8.2	20.5	.60	7.6	93
07...	1113	8.50	33600	8.2	20.5	--	7.2	91
07...	1116	17.0	38300	8.1	20.5	--	6.8	87
NOV								
22...	1554	1.00	41300	8.2	24.0	.40	6.9	95
22...	1556	8.00	41200	8.2	23.5	--	6.8	93
22...	1558	16.0	41200	8.2	23.5	--	6.8	93
FEB , 1983								
08...	1125	1.00	38100	8.2	13.0	.50	7.7	84
08...	1127	8.00	38300	8.2	13.0	--	7.7	84
08...	1129	16.0	39300	8.2	13.0	--	7.6	84
MAR								
15...	1326	1.00	39000	8.4	20.0	.60	6.2	80
15...	1328	8.00	40000	8.4	19.0	--	6.2	79
15...	1330	17.0	40000	8.4	18.0	--	5.9	73
MAY								
11...	1300	1.00	42800	8.1	24.0	.40	6.7	93
11...	1302	8.00	43200	8.1	24.0	--	6.4	89
11...	1304	17.0	43100	8.1	23.5	--	5.9	81
JUN								
28...	1406	1.00	36500	8.3	30.5	.70	5.8	88
28...	1408	8.00	37000	8.3	30.5	--	5.7	87
28...	1410	16.0	38300	8.2	30.0	--	4.9	74

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
26...	.130	--	.150	.030	.35	.38	.53	.030
26...	--	--	--	--	--	--	--	--
OCT								
16...	.010	.000	.010	.020	.59	.61	.62	.050
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

275326097063300 LINE 159 SITE 08--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1980								
09...	.010	.000	.010	.100	.61	.71	.72	.050
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
OCT								
21...	.000	.000	.000	.800	.40	1.2	1.2	.030
21...	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--
MAR , 1981								
17...	-.010	.010	.000	.040	.62	.66	.66	.070
17...	--	--	--	--	--	--	--	--
DEC								
09...	--	<.020	<.100	<.070	--	.89	--	.030
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
APR , 1982								
07...	--	<.020	<.100	<.060	--	.77	--	<.010
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
NOV								
22...	--	<.010	<.100	<.060	--	.80	--	.050
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
FEB , 1983								
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
MAR								
15...	--	.040	<.100	.120	.58	.70	--	.060
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
MAY								
11...	--	.040	<.100	.070	.43	.50	--	.020
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
JUN								
28...	--	<.020	<.100	.050	.65	.70	--	.040
28...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--

275023097045500 LINE 168 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
25...	0730	1.00	36000	8.6	22.5	--	7.5	102
25...	0733	10.0	36000	8.6	22.5	--	7.4	101
25...	0735	30.0	36000	8.6	22.5	--	7.3	100
25...	0738	50.0	36000	8.5	22.5	--	7.2	99
OCT								
16...	1238	1.00	44000	8.1	26.5	--	6.6	97
16...	1242	12.0	52000	8.1	26.5	--	6.3	95
16...	1247	24.0	53000	8.1	26.5	--	6.2	94
16...	1251	48.0	52000	8.1	26.5	--	6.2	94
APR , 1980								
09...	1116	1.00	40000	8.0	19.5	.60	7.2	90
09...	1120	12.0	42000	8.0	19.5	--	7.2	90
09...	1122	24.0	42000	8.0	19.5	--	7.2	90
09...	1124	48.0	42000	8.0	19.5	--	7.2	90
OCT								
21...	0758	1.00	48000	8.1	24.5	.30	6.3	89
21...	0800	25.0	48000	8.1	24.5	--	6.3	89
21...	0802	49.0	48000	8.7	24.5	--	6.3	89
MAR , 1981								
17...	1159	1.00	45700	8.2	17.0	.70	7.4	90
17...	1201	20.0	45900	8.2	17.0	--	6.9	84
17...	1203	35.0	45900	8.2	17.0	--	6.9	84
17...	1205	50.0	25900	8.2	17.0	--	8.2	92
DEC								
09...	0946	1.00	39000	8.2	19.0	.90	7.2	88
09...	0948	25.0	40800	8.1	19.0	--	7.1	88
09...	0950	48.0	40200	8.1	19.5	--	7.8	97

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

275023097045500 LINE 168 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1982								
07...	0810	1.00	38200	8.1	20.0	.70	7.7	98
07...	0814	10.0	38400	8.1	20.0	--	7.6	96
07...	0816	20.0	38100	8.1	20.0	--	7.6	96
07...	0817	30.0	38200	8.1	20.0	--	7.6	96
07...	0819	40.0	38300	8.1	20.0	--	7.6	96
07...	0820	52.0	38100	8.1	20.0	--	7.2	91
NOV								
22...	1300	1.00	45600	8.2	21.0	.40	7.6	101
22...	1302	6.00	46200	8.2	21.0	--	7.5	100
22...	1304	12.0	46500	8.3	21.0	--	7.5	100
22...	1306	24.0	47700	8.3	20.5	--	7.0	93
22...	1308	48.0	46900	8.3	20.5	--	6.5	86
FEB , 1983								
08...	0750	1.00	42800	8.1	13.0	.60	8.6	96
08...	0752	6.00	42900	8.1	13.0	--	8.5	95
08...	0754	12.0	42900	8.1	13.0	--	8.5	95
08...	0756	24.0	43000	8.1	13.0	--	8.5	95
08...	0758	48.0	43100	8.2	13.0	--	8.5	95
MAR								
15...	1342	1.00	42500	8.4	18.5	1.20	6.8	86
15...	1346	12.0	44000	8.4	18.5	--	6.8	87
15...	1348	24.0	44000	8.4	18.0	--	6.7	85
15...	1350	49.0	44000	8.4	18.5	--	6.5	83
MAY								
11...	1239	1.00	42200	8.2	23.5	.50	6.7	92
11...	1241	12.0	42500	8.2	23.0	--	6.6	90
11...	1243	25.0	42500	8.2	23.0	--	6.5	89
11...	1245	51.0	44600	8.2	23.5	--	6.1	85
JUN								
28...	1340	1.00	37300	8.2	29.5	.60	5.2	78
28...	1342	12.0	37700	8.2	29.0	--	4.9	73
28...	1344	24.0	38600	8.1	29.0	--	4.5	67
28...	1346	47.0	40300	8.1	28.5	--	4.1	61

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
25...	.130	.020	.150	.030	.35	.38	.53	.030
25...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--
OCT								
16...	.000	.020	.020	.030	.78	.81	.83	.020
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
16...	-.010	.020	.010	.040	.38	.42	.43	.010
APR , 1980								
09...	.000	.010	.010	.100	.68	.78	.79	.090
09...	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--
09...	.010	.010	.020	.080	.82	.90	.92	.100
OCT								
21...	.000	.000	.000	.020	.72	.74	.74	.030
21...	--	--	--	--	--	--	--	--
21...	.000	.000	.000	.040	.72	.76	.76	.040
MAR , 1981								
17...	.000	.010	.010	.070	.64	.71	.72	.080
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
17...	.000	.010	.010	.070	.44	.51	.52	.050
DEC								
09...	--	<.020	<.100	<.070	--	.81	--	.010
09...	--	--	--	--	--	--	--	--
09...	--	<.020	<.100	<.070	--	.68	--	.020
APR , 1982								
07...	--	<.020	.120	.070	1.6	1.7	1.8	<.010
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
07...	--	<.020	<.100	<.060	--	.48	--	<.010

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

275023097045500 LINE 168 SITE 02--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
NOV , 1982								
22...	--	.010	<.100	<.060	--	.60	--	.040
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
22...	--	<.010	<.100	<.060	--	.70	--	.050
FEB , 1983								
08...	--	<.020	<.100	.120	.28	.40	--	.210
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	.080	.020	.100	.060	.64	.70	.80	.070
MAR								
15...	--	<.020	<.100	.110	.29	.40	--	.080
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
15...	--	<.020	<.100	.060	.44	.50	--	.050
MAY								
11...	--	<.020	<.100	<.060	--	1.0	--	.020
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--
11...	--	<.020	<.100	.090	.61	.70	--	.060
JUN								
28...	--	.020	<.100	.080	.62	.70	--	.030
28...	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--
28...	--	.080	<.100	.120	.48	.60	--	.050

274113097132900 LINE 170 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR , 1982								
30...	1315	1.00	38600	8.1	21.0	.70	6.8	88
30...	1318	7.50	39800	8.1	20.5	--	6.3	81
30...	1320	31.5	40200	8.0	20.5	--	6.0	77

275346097373700 LINE 601 SITE 50

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
JAN , 1979									
24...	1005	1.00	1160	230	100	69	15	130	4

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
JAN , 1979									
24...	8.9	160	131	0	72	230	.30	15	620

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

275346097373700 LINE 601 SITE 50--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
JAN , 1979								
24...	.030	.020	.050	.070	.50	.57	.62	.090

275318097321100 LINE 634 SITE 50

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO
JAN , 1979									
24...	1200	1.00	20800	2500	2400	320	420	3600	32

DATE	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)
JAN , 1979									
24...	110	210	172	0	280	6900	.30	10	12000

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
JAN , 1979								
24...	-.010	.020	.010	.100	1.3	1.4	1.4	.140

274935097013500 LINE 901 SITE 70

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
26...	0840	1.00	41000	8.4	22.5	--	7.4	102
26...	0842	10.0	40000	8.4	21.5	--	6.3	86
26...	0843	20.0	44000	8.3	21.0	--	6.2	85
26...	0845	48.0	39000	8.3	21.0	--	6.0	82
OCT								
16...	1340	1.00	49200	8.1	26.5	--	6.5	97
16...	1342	22.0	49000	8.1	26.5	--	6.5	97
16...	1347	45.0	49000	8.1	26.5	--	6.2	93
OCT , 1980								
21...	1147	1.00	49000	8.1	25.0	.30	6.4	91
21...	1149	23.0	49000	8.1	25.0	--	6.4	91
21...	1151	46.0	49000	8.1	25.0	--	6.4	91
MAR , 1981								
17...	1124	1.00	43100	8.2	17.0	1.00	7.5	90
17...	1126	20.0	48500	8.2	16.0	--	7.3	89
17...	1128	35.0	48700	8.2	16.0	--	7.0	86
17...	1130	50.0	48300	8.1	16.0	--	6.3	77
DEC								
09...	0921	1.00	37800	8.2	19.5	.90	8.0	99
09...	0923	23.0	42900	8.1	20.0	--	7.7	98
09...	0925	45.0	42600	8.1	20.0	--	7.0	89

Table 9.--Quality of water in the Nueces estuary, water years 1979-83--Continued

274935097013500 LINE 901 SITE 70--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1982								
07...	1135	1.00	38600	8.2	20.0	.40	7.8	99
07...	1140	10.0	38600	8.2	20.0	--	7.8	99
07...	1143	20.0	38600	8.2	20.0	--	7.8	99
07...	1147	30.0	39300	8.2	19.5	--	7.3	92
07...	1151	40.0	40000	8.1	19.5	--	7.1	90
07...	1155	48.0	40100	8.1	20.0	--	7.1	91
NOV								
22...	1627	1.00	44400	8.2	21.0	.60	7.9	105
22...	1629	12.5	44400	8.2	21.0	--	7.9	105
22...	1631	25.0	44700	8.1	21.0	--	7.8	103
22...	1633	50.0	44600	8.1	21.0	--	7.5	99
FEB , 1983								
08...	1142	1.00	42500	8.2	13.5	.50	7.9	89
08...	1144	7.00	43500	8.2	13.5	--	7.7	87
08...	1146	14.0	43600	8.2	13.5	--	7.7	87
08...	1148	27.0	43700	8.1	13.5	--	7.7	87
08...	1150	55.0	43900	8.1	13.5	--	7.6	86
MAR								
15...	1407	1.00	41000	8.4	18.0	2.90	7.1	89
15...	1409	7.00	40000	8.4	18.0	--	7.2	90
15...	1411	14.0	43000	8.4	18.0	--	7.1	90
15...	1413	28.0	42000	8.4	18.0	--	7.0	88
15...	1415	56.0	45000	8.3	17.5	--	5.7	72

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
26...	.070	.020	.090	.040	.42	.46	.55	.030
26...	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--
26...	.020	.040	.060	.070	.34	.41	.47	.050
OCT								
16...	.000	.000	.000	.030	.20	.23	.23	.010
16...	--	--	--	--	--	--	--	--
16...	-.010	.020	.010	.060	.22	.28	.29	.040
OCT , 1980								
21...	.030	.030	.060	.310	.19	.50	.56	.030
21...	--	--	--	--	--	--	--	--
21...	.000	.030	.030	.320	.02	.34	.37	.040
MAR , 1981								
17...	.000	.010	.010	.050	.56	.61	.62	12.0
17...	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--
17...	.000	.010	.010	.080	.28	.36	.37	.030
DEC								
09...	--	<.020	<.100	<.070	--	.76	--	.020
09...	--	--	--	--	--	--	--	--
09...	--	<.020	<.100	<.070	--	.72	--	.010
APR , 1982								
07...	--	<.020	<.100	.070	.59	.66	--	<.010
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--
07...	--	<.020	.100	.080	.60	.68	.78	<.010
NOV								
22...	--	<.010	<.100	<.060	--	.80	--	.030
22...	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--
22...	--	<.010	<.100	<.060	--	.90	--	.070
FEB , 1983								
08...	--	<.020	<.100	.060	.44	.50	--	.050
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	--
08...	--	<.020	<.100	.060	.34	.40	--	.060
MAR								
15...	--	<.020	<.100	.100	.30	.40	--	.050
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
15...	--	<.030	<.100	.360	.44	.80	--	.090

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83

[UMHOS, micromhos per centimeter at 25° Celsius; DEG C, degrees Celsius; M, meters; MG/L, milligrams per liter; UG/L, micrograms per liter; UG/KG, micrograms per kilogram]

273811097142100 LINE 023 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
11...	1315	1.00	44000	8.8	25.0	--	6.9	131
11...	1318	13.2	44000	8.8	25.0	--	6.8	100
11...	1320	25.0	43000	8.8	25.0	--	6.7	99
25...	0835	1.00	44000	8.0	24.5	--	6.3	93
25...	0840	16.0	46000	8.1	24.5	--	6.4	94
25...	1315	--	--	--	--	--	--	101
OCT								
11...	1256	1.00	36000	8.2	22.5	--	7.3	95
11...	1258	8.50	41000	8.2	22.5	--	6.3	84
11...	1300	17.0	41000	8.2	23.0	--	5.5	74
APR , 1980								
09...	0942	1.00	45000	8.1	19.5	1.00	7.2	92
09...	0946	8.00	46000	8.1	19.0	--	7.0	89
09...	0950	17.0	46000	8.1	19.0	--	7.0	89
JUL								
16...	1345	1.00	60000	8.5	30.0	.80	2.5	41
16...	1347	7.00	58000	8.5	29.5	--	2.3	37
16...	1350	14.0	61000	8.5	29.5	--	2.1	34
OCT								
21...	0925	1.00	44000	8.3	21.0	.80	5.8	75
21...	0927	11.0	45000	8.3	20.5	--	5.9	76
NOV								
18...	0914	1.00	46000	8.0	10.0	.20	8.5	89
18...	0916	11.0	46000	7.9	9.5	--	8.8	91
18...	0918	21.0	46000	7.9	9.5	--	8.8	91
MAR , 1981								
17...	1343	1.00	45900	8.2	18.0	.80	7.3	91
17...	1345	17.0	46000	8.2	18.0	--	6.9	87
24...	0926	1.00	47000	8.2	17.0	1.30	6.6	80
24...	0928	10.0	47000	8.2	17.0	--	6.4	78
24...	0930	17.0	47000	8.2	17.0	--	7.3	89
DEC								
09...	1056	1.00	36500	8.2	20.0	.80	6.4	79
09...	1058	10.0	36400	8.2	20.0	--	6.6	82
09...	1100	20.0	36300	8.2	19.5	--	7.0	86
15...	0840	1.00	38300	7.9	14.5	.60	7.7	86
15...	0842	8.00	38300	8.0	12.0	--	7.8	83
15...	0844	17.0	38200	8.0	11.5	--	8.0	84
MAR , 1982								
30...	1300	1.00	40300	8.0	20.5	.80	6.3	81
30...	1303	8.00	40500	8.0	20.5	--	6.2	80
30...	1305	16.0	40600	8.0	20.5	--	6.3	81
APR								
07...	0925	1.00	39100	8.0	20.5	.50	6.8	87
07...	0927	7.50	44600	8.0	20.5	--	6.7	88
07...	0930	15.0	39100	8.0	20.5	--	6.8	87
NOV								
22...	1416	1.00	52800	8.2	24.5	.40	6.9	01
22...	1418	8.00	53500	8.1	24.0	--	6.1	89
22...	1420	16.0	53500	8.1	24.0	--	6.2	90
FEB , 1983								
08...	0930	1.00	44900	8.1	13.5	1.10	7.9	90
08...	0932	8.00	45100	8.1	13.5	--	8.0	91
08...	0934	17.0	45100	8.1	13.5	--	8.1	92
MAR								
15...	0856	1.00	45200	8.3	19.0	.70	6.5	84
15...	0858	8.00	46000	8.3	19.0	--	6.3	82
15...	0900	17.0	46000	8.3	19.0	--	5.6	73
MAY								
11...	1006	1.00	47700	8.0	23.5	.50	5.9	83
11...	1008	8.00	48100	8.1	23.5	--	5.6	79
11...	1010	17.0	48100	8.1	23.5	--	5.8	82
JUN								
28...	1140	1.00	59500	8.1	29.5	1.00	4.3	70
28...	1142	8.00	60000	8.1	29.0	--	4.0	65
28...	1144	17.0	60000	8.1	29.0	--	3.9	64

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

273811097142100 LINE 023 SITE 03--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
11...	.010	<.010	.010	.050	.42	.47	.48	.040
11...	--	--	--	--	--	--	--	--
11...	.010	<.010	.010	.060	.41	.47	.48	.030
25...	.020	.020	.040	.020	.60	.62	.66	.010
25...	-.010	.020	.010	.050	.47	.52	.53	.040
25...	--	--	--	--	--	--	--	--
OCT								
11...	-.010	.020	.010	.030	.57	.60	.61	.040
11...	--	--	--	--	--	--	--	--
11...	-.010	.020	.010	.050	1.5	1.5	1.5	.090
APR , 1980								
09...	.000	.010	.010	.130	1.1	1.2	1.2	.200
09...	--	--	--	--	--	--	--	--
09...	.000	.010	.010	.120	.67	.79	.80	.050
JUL								
16...	.050	.000	.050	.010	1.4	1.4	1.5	.040
16...	--	--	--	--	--	--	--	--
16...	.030	.000	.030	.060	1.1	1.2	1.2	.090
OCT								
21...	.000	.000	.000	.010	.78	.79	.79	.050
21...	.000	.000	.000	.030	.74	.77	.77	.040
NOV								
18...	.000	.000	.000	.030	.88	.91	.91	.060
18...	--	--	--	--	--	--	--	--
18...	.000	.000	.000	.030	.71	.74	.74	.090
MAR , 1981								
17...	.010	.010	.020	.130	.87	1.0	1.0	.040
17...	.000	.020	.020	.160	.64	.80	.82	.040
24...	.080	.020	.100	.070	.88	.95	1.1	.050
24...	--	--	--	--	--	--	--	--
24...	.080	.030	.110	.090	.83	.92	1.0	.040
DEC								
09...	--	<.020	<.100	<.070	--	.85	--	.010
09...	--	--	--	--	--	--	--	--
09...	--	<.020	<.100	<.070	--	1.0	--	.020
15...	--	<.020	<.100	<.070	--	.78	--	.040
15...	--	--	--	--	--	--	--	--
15...	--	<.020	<.100	<.070	--	.69	--	.020
MAR , 1982								
30...	--	<.020	<.100	.090	.54	.63	--	<.010
30...	--	--	--	--	--	--	--	--
30...	--	<.020	<.100	.150	.57	.72	--	<.010
APR								
07...	--	<.020	<.100	<.060	--	1.1	--	<.010
07...	--	--	--	--	--	--	--	--
07...	--	<.020	<.100	<.060	--	2.3	--	<.010
NOV								
22...	--	<.010	<.100	<.060	--	1.2	--	.150
22...	--	--	--	--	--	--	--	--
22...	--	<.010	<.100	<.060	--	1.7	--	.040
FEB , 1983								
08...	--	<.020	<.100	.060	.64	.70	--	.060
08...	--	--	--	--	--	--	--	--
08...	--	<.020	<.100	.090	.61	.70	--	.150
MAR								
15...	--	.020	<.100	.090	.51	.60	--	.060
15...	--	--	--	--	--	--	--	--
15...	--	<.020	<.100	.080	.72	.80	--	.090
MAY								
11...	--	<.020	<.100	.060	.44	.50	--	.020
11...	--	--	--	--	--	--	--	--
11...	--	<.020	<.100	<.060	--	.70	--	.030
JUN								
28...	--	<.020	<.100	.110	.69	.80	--	.030
28...	--	--	--	--	--	--	--	--
28...	--	.020	<.100	.140	.76	.90	--	.050

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

273132097174800 LINE 034 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
11...	1842	1.00	48000	8.0	25.0	--	6.6	99
11...	1845	12.0	49000	8.0	24.5	--	6.5	78
OCT								
11...	1118	1.00	43000	8.2	23.0	--	6.3	85
11...	1120	7.50	43000	8.2	23.5	--	6.1	83
11...	1122	15.0	43000	8.1	23.5	--	5.5	75
JUL , 1980								
16...	1310	1.00	60000	8.6	30.0	1.00	5.8	95
16...	1312	7.50	60500	8.6	29.5	--	5.5	90
16...	1315	15.0	61000	8.6	29.5	--	5.5	90
NOV								
18...	0944	1.00	45000	8.0	12.0	.80	8.3	90
18...	0946	7.00	45000	8.0	11.5	--	8.3	89
18...	0948	14.0	49900	7.9	11.0	--	8.1	88
MAR , 1981								
24...	0946	1.00	45000	8.1	17.5	1.10	7.1	86
24...	0948	6.00	45000	8.1	17.0	--	7.1	86
24...	0950	12.0	45000	8.2	17.0	--	7.1	86
DEC								
15...	0908	1.00	38100	7.9	14.0	.70	7.7	85
15...	0910	7.00	38100	7.9	14.0	--	7.6	84
15...	0912	14.0	38100	7.9	14.0	--	7.5	83
MAR , 1982								
30...	1225	1.00	40300	8.0	20.5	.40	6.6	85
30...	1227	7.50	40600	8.0	20.5	--	6.5	84
30...	1230	15.0	40800	7.9	20.5	--	6.3	81

273203097185100 LINE 034 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
11...	1855	1.00	51000	8.1	27.0	--	6.6	103
11...	1900	4.00	51000	8.1	27.0	--	6.5	101
12...	0645	1.00	50000	8.2	24.5	--	6.5	99
12...	0650	3.00	51000	8.2	24.5	--	6.4	96
OCT								
11...	1136	1.00	43000	8.1	22.0	--	6.5	86
11...	1138	3.00	42000	8.1	22.5	--	6.1	81
JUL , 1980								
16...	1315	1.00	60500	8.7	32.0	1.00	10.0	169
16...	1317	3.00	60500	8.7	32.0	--	10.6	179
NOV								
18...	0952	1.00	45000	7.9	10.5	.80	8.7	92
18...	0954	3.00	45000	7.9	10.5	--	8.7	92
MAR , 1981								
24...	1000	2.00	45000	8.1	17.5	--	7.3	89
DEC								
15...	0923	1.00	38200	7.9	12.0	.50	7.7	82
15...	0925	2.00	38100	7.9	12.0	--	7.7	82
MAR , 1982								
30...	1230	1.00	40300	8.0	20.0	.80	7.2	92
30...	1240	6.00	40700	8.0	20.0	--	7.2	92

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
11...	.010	<.010	.010	.060	.74	.80	.81	.030
11...	.010	<.010	.010	.060	.60	.66	.67	.030
12...	.000	<.010	<.100	.080	.69	.77	.77	.030
12...	.010	<.010	.010	.130	1.1	1.2	1.2	.050
OCT								
11...	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

273203097185100 LINE 034 SITE 02--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
JUL , 1980								
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
NOV								
18...	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--
MAR , 1981								
24...	--	--	--	--	--	--	--	--
DEC								
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
MAR , 1982								
30...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--

272104097222800 LINE 053 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)
APR , 1979											
11...	1210	1.00	54000	8.7	25.0	.60	6.5	100	--	6800	6600
11...	1214	5.00	54000	8.7	25.0	--	6.3	96	--	--	--
OCT											
11...	1045	1.00	41500	8.2	23.0	--	6.7	90	1.8	5000	4900
11...	1046	5.00	41500	8.2	23.0	--	6.7	90	--	--	--
JUL , 1980											
16...	1210	1.00	58000	8.4	29.5	.50	5.4	88	--	7400	7300
16...	1212	2.00	59000	8.4	30.0	--	5.6	92	--	--	--
NOV											
18...	1048	1.00	45800	8.0	12.5	--	8.6	95	--	5500	5400
MAR , 1981											
24...	1040	1.00	44200	8.2	18.0	.40	6.1	74	1.9	5500	5300
24...	1042	4.50	43000	8.1	18.0	--	6.0	73	--	--	--
DEC											
15...	1030	1.00	40900	8.1	14.5	--	8.0	91	6.1	4900	4700
MAR , 1982											
30...	1145	1.00	40800	8.0	21.0	.40	6.9	90	1.4	5000	4800

DATE	CALCIUM DISSOLVED (MG/L AS CA)	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
APR , 1979											
11...	410	1400	12000	64	440	220	180	0	3300	21000	.90
11...	--	--	--	--	--	--	--	--	--	--	--
OCT											
11...	200	1100	9000	56	160	150	123	0	2400	17000	.80
11...	--	--	--	--	--	--	--	--	--	--	--
JUL , 1980											
16...	500	1500	12000	61	650	150	123	0	3300	20000	1.0
16...	--	--	--	--	--	--	--	--	--	--	--
NOV											
18...	400	1100	8800	52	440	--	140	--	2200	17000	.70
MAR , 1981											
24...	390	1100	8900	53	270	--	180	--	2500	16000	.90
24...	--	--	--	--	--	--	--	--	--	--	--
DEC											
15...	400	950	8800	55	320	--	170	--	2300	16000	.90
MAR , 1982											
30...	350	1000	8100	50	220	--	150	--	2200	15000	.50

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

272104097222800 LINE 053 SITE 01--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
APR , 1979										
11...	8.3	39000	.010	<.010	.010	.080	.81	.89	.90	.030
11...	--	--	--	--	--	--	--	--	--	--
OCT										
11...	5.0	30000	-.010	.020	.010	.040	.85	.89	.90	.020
11...	--	--	--	--	--	--	--	--	--	--
JUL , 1980										
16...	4.0	38000	.010	.010	.020	.030	1.2	1.2	1.2	.050
16...	--	--	--	--	--	--	--	--	--	--
NOV										
18...	4.0	30000	.000	.000	.000	.030	.71	.74	.74	.040
MAR , 1981										
24...	6.9	29000	.110	.120	.230	.190	1.5	1.7	1.9	.060
24...	--	--	--	--	--	--	--	--	--	--
DEC										
15...	9.5	29000	--	<.020	<.100	.080	1.9	2.0	--	.050
MAR , 1982										
30...	4.6	27000	.090	.060	.150	.400	.90	1.3	1.5	<.010

272116097230200 LINE 053 SITE 02

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
APR , 1979								
11...	1200	1.00	54000	8.7	24.5	.60	6.4	98
11...	1205	11.0	54000	8.6	24.5	--	6.2	95
OCT								
11...	1031	1.00	42000	8.2	23.0	--	6.7	90
11...	1033	6.00	41000	8.2	23.0	--	6.7	90
11...	1035	13.0	41000	8.2	23.0	--	6.4	86
JUL , 1980								
16...	1200	1.00	58500	8.3	29.5	.60	4.7	76
16...	1202	6.00	58500	8.3	29.5	--	4.7	76
16...	1205	12.0	63000	8.3	29.5	--	4.3	71
NOV								
18...	1058	1.00	45500	8.0	12.5	1.00	8.5	94
18...	1100	7.00	45500	8.0	12.5	--	8.5	94
18...	1102	14.0	45500	8.0	12.5	--	8.6	95
MAR , 1981								
24...	1026	1.00	43000	8.2	17.5	.40	6.0	72
24...	1028	6.00	43000	8.2	17.5	--	6.1	74
24...	1030	13.0	43000	8.5	17.5	--	6.3	76
DEC								
15...	1001	1.00	40500	8.0	15.0	.40	7.4	85
15...	1003	7.00	40800	8.0	14.5	--	7.4	84
15...	1005	15.0	40700	8.0	14.5	--	7.4	84
MAR , 1982								
30...	1130	1.00	40200	7.9	20.5	.50	6.7	86
30...	1132	7.50	40300	7.9	20.0	--	6.5	83
30...	1135	15.0	40300	8.0	20.0	--	6.6	84

271543097301900 LINE 107 SITE 02

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)
APR , 1979										
11...	1120	1.00	57000	8.7	25.0	--	6.4	100	--	.010
11...	1125	7.00	57000	8.6	24.5	--	6.2	96	--	--
OCT										
11...	0922	1.00	39000	8.3	23.5	--	7.1	95	--	-.010
11...	0925	7.00	39000	8.3	23.5	--	7.1	95	--	--
JUL , 1980										
16...	1130	1.00	62500	8.3	29.5	.40	6.1	100	3.0	.020
16...	1135	7.00	64000	8.2	30.0	--	5.0	84	--	--

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

271543097301900 LINE 107 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)
NOV, 1980										
18...	1135	1.00	42500	8.3	13.5	.60	8.6	95	--	.000
18...	1137	8.00	43000	8.3	13.5	--	8.6	96	--	--
MAR , 1981										
24...	1122	1.00	40000	8.3	19.0	.30	8.1	99	--	.080
24...	1124	7.00	40000	8.5	18.0	--	6.8	82	--	--
DEC										
15...	1104	1.00	34700	8.4	16.0	.50	7.5	85	--	--
15...	1106	7.00	36700	8.3	16.0	--	7.3	84	--	--
MAR , 1982										
30...	1100	1.00	32200	8.2	20.0	.50	7.8	96	--	.100
30...	1102	8.00	34300	8.0	20.0	--	6.5	81	--	--

DATE	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)	CADMIUM DISSOLVED (UG/L AS CD)
APR , 1979										
11...	<.010	.010	.110	1.1	1.2	1.2	.060	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
OCT										
11...	.020	.010	.040	1.5	1.5	1.5	.070	6	400	1
11...	--	--	--	--	--	--	--	--	--	--
JUL , 1980										
16...	.010	.030	.070	1.6	1.7	1.7	.090	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
NOV										
18...	.000	.000	.040	1.2	1.2	1.2	.010	7	400	20
18...	--	--	--	--	--	--	--	--	--	--
MAR , 1981										
24...	.020	.100	.060	1.4	1.5	1.6	.080	1	300	0
24...	--	--	--	--	--	--	--	--	--	--
DEC										
15...	<.020	<.100	<.070	--	1.5	--	.060	11	200	<1
15...	--	--	--	--	--	--	--	--	--	--
MAR , 1982										
30...	.030	.130	.100	1.4	1.5	1.6	<.010	7	200	1
30...	--	--	--	--	--	--	--	--	--	--

DATE	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
APR , 1979									
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
OCT									
11...	20	0	140	4	40	.3	0	0	10
11...	--	--	--	--	--	--	--	--	--
JUL , 1980									
16...	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--
NOV									
18...	30	50	160	0	40	.1	0	0	30
18...	--	--	--	--	--	--	--	--	--
MAR , 1981									
24...	30	50	210	0	40	.3	0	0	50
24...	--	--	--	--	--	--	--	--	--
DEC									
15...	30	2	120	2	40	.3	<1	<1	30
15...	--	--	--	--	--	--	--	--	--
MAR , 1982									
30...	30	2	150	1	20	.2	<1	<1	30
30...	--	--	--	--	--	--	--	--	--

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

271543097301900 LINE 107 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT , 1979												
11...	0922	1.00	.0	<5	--	--	.000	<.5	.0	<5.0	.000	<.5
NOV , 1980												
18...	1135	1.00	.0	--	.00	--	.000	--	.0	--	.000	--
18...	1137	8.00	--	.00	--	.0	--	.0	--	.00	--	.0
DEC , 1981												
15...	1104	1.00	.0	--	.00	--	.000	--	.0	--	.000	--
15...	1106	7.00	--	.00	--	.0	--	.0	--	.00	--	.0

DATE	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)
OCT , 1979											
11...	.000	.3	.000	<.5	.00	.000	<.5	.000	.000	<.5	.00
NOV , 1980											
18...	.000	--	.000	--	.00	.000	--	.000	.000	--	.00
18...	--	.1	--	.0	--	--	.0	--	--	.0	--
DEC , 1981											
15...	.000	--	.000	--	.00	.000	--	.000	.000	--	.00
15...	--	.1	--	.0	--	--	.0	--	--	.0	--

DATE	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL. (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)
OCT , 1979											
11...	.000	<.5	.000	<.5	.000	.9	.00	.00	<.5	.00	.00
NOV , 1980											
18...	.000	--	.000	--	.000	--	.00	.00	--	.00	.00
18...	--	.0	--	.0	--	.0	--	--	.0	--	--
DEC , 1981											
15...	.000	--	.000	--	.000	--	.00	.00	--	.00	.00
15...	--	.0	--	.0	--	.0	--	--	.0	--	--

DATE	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT , 1979											
11...	.00	--	.00	.0	.0	.00	.00	.00	--	.00	.00
NOV , 1980											
18...	.00	--	.00	.0	.0	--	.00	.00	.00	.01	.00
18...	--	.0	--	--	--	.00	--	--	--	--	--
DEC , 1981											
15...	.00	--	.00	.0	.0	--	.00	.03	.00	.00	.00
15...	--	.0	--	--	--	.00	--	--	--	--	--

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

271211097243200 LINE 125 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
OCT , 1979								
11...	0852	1.00	44700	8.4	23.5	--	6.4	88
11...	0854	7.00	42000	8.4	22.5	--	6.5	87
JUL , 1980								
16...	1055	1.00	59000	8.4	29.5	.50	6.2	101
16...	1057	5.00	59000	8.3	29.5	--	5.8	94
NOV								
18...	1238	1.00	47000	8.2	13.5	.80	8.6	97
18...	1240	7.00	47500	8.2	13.5	--	8.5	96
MAR , 1981								
24...	1223	1.00	44500	8.4	19.0	.40	7.9	99
24...	1225	6.00	44500	8.4	18.5	--	7.8	97
DEC								
15...	1203	1.00	41400	8.2	16.5	.40	7.7	91
15...	1205	6.00	42400	8.2	16.5	--	7.1	85
MAR , 1982								
30...	1008	1.00	35100	8.1	19.5	.80	7.7	95
30...	1010	6.00	35800	8.1	19.5	--	7.0	87

271213097253500 LINE 125 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
APR , 1979											
11...	1045	1.00	51000	8.7	24.5	.80	6.4	97	6400	6200	400
11...	1050	14.0	51000	8.7	24.5	--	5.3	95	--	--	--
OCT											
11...	0811	1.00	42000	8.3	23.5	--	6.3	86	5100	4900	210
11...	0813	8.00	41000	8.3	23.5	--	6.4	87	--	--	--
11...	0815	17.0	43000	8.1	22.5	--	6.8	91	--	--	--
JUL , 1980											
16...	1045	1.00	58100	8.4	29.5	.80	5.4	87	7400	7300	510
16...	1047	6.00	58500	8.4	29.5	--	5.4	87	--	--	--
16...	1050	12.0	58500	8.4	29.5	--	5.4	87	--	--	--
NOV											
18...	1227	1.00	47700	8.2	13.5	.60	8.6	97	5600	5500	430
18...	1229	7.00	48000	8.2	13.0	--	8.5	96	--	--	--
18...	1231	14.0	48500	8.2	13.0	--	8.4	95	--	--	--
MAR , 1981											
24...	1159	1.00	44200	8.3	18.5	.50	7.5	93	5500	5300	390
24...	1201	7.00	44500	8.4	18.5	--	8.1	100	--	--	--
24...	1203	14.0	44000	8.5	18.0	--	7.7	94	--	--	--
DEC											
15...	1141	1.00	42600	8.3	16.5	.40	7.7	92	5000	4900	400
15...	1143	7.00	43000	8.3	16.5	--	7.3	87	--	--	--
15...	1145	14.0	43400	8.2	16.0	--	7.4	88	--	--	--
MAR , 1982											
30...	1020	1.00	35700	8.1	20.0	.60	7.4	92	4400	4300	340
30...	1022	6.50	36900	8.0	19.0	--	7.0	86	--	--	--
30...	1025	13.0	37400	7.9	19.0	--	6.7	83	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
APR , 1979										
11...	1300	11000	61	410	210	172	0	3200	19000	.80
11...	--	--	--	--	--	--	--	--	--	--
OCT										
11...	1100	9300	57	160	140	115	0	2500	17000	.70
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--	--
JUL , 1980										
16...	1500	12000	61	570	150	123	0	2700	24000	.90
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

271213097253500 125 SITE 03--Continued

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
NOV , 1980										
18...	1100	9500	56	480	--	150	--	2000	18000	.70
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--
MAR , 1981										
24...	1100	9000	53	300	--	170	--	2400	18000	.80
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
DEC										
15...	980	9300	58	320	--	170	--	2300	17000	.80
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
MAR , 1982										
30...	870	7000	46	220	--	170	--	2000	14000	.60
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979										
11...	6.6	35000	.010	<.010	.010	.100	.71	.81	.82	.030
11...	--	--	.010	<.010	.010	.160	1.1	1.3	1.3	.030
OCT										
11...	4.1	30000	.000	.020	.020	.080	.83	.91	.93	.020
11...	--	--	--	--	--	--	--	--	--	--
11...	--	--	.000	.020	.020	.080	1.7	1.8	1.8	.030
JUL , 1980										
16...	2.8	41000	.030	.010	.040	.100	1.1	1.2	1.2	.040
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	.020	.010	.030	.070	1.4	1.5	1.5	.050
NOV										
18...	4.8	32000	.000	.000	.000	.050	.95	1.0	1.0	.040
18...	--	--	--	--	--	--	--	--	--	--
18...	--	--	.000	.000	.000	.030	1.2	1.2	1.2	.060
MAR , 1981										
24...	6.1	31000	.220	.090	.310	.050	1.2	1.2	1.5	.050
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	.100	.060	.160	.030	1.7	1.7	1.9	.050
DEC										
15...	9.4	30000	--	<.020	<.100	<.070	--	1.8	--	.060
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	<.020	<.100	<.070	--	1.9	--	.070
MAR , 1982										
30...	8.4	25000	--	.050	<.100	.210	1.2	1.4	--	<.010
30...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	.070	<.100	.340	1.2	1.5	--	.020

265857097261600 LINE 145 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
11...	0940	1.00	52000	8.4	25.5	--	6.5	100
11...	0944	4.00	53000	8.4	25.5	--	6.2	97
MAR , 1981								
24...	1312	1.00	45000	7.7	19.0	.20	3.0	38
24...	1314	2.00	45000	7.7	19.5	--	3.0	38
DEC								
15...	1253	1.00	45400	8.3	15.0	.50	8.0	94
15...	1255	2.00	45400	8.3	15.0	--	8.1	95
MAR , 1982								
30...	0923	1.00	36900	8.3	21.0	.80	7.4	95
30...	0925	4.00	39000	8.4	21.5	--	7.1	92

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

265857097270200 LINE 145 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
11...	0930	1.00	48000	8.4	24.5	--	6.5	97
11...	0935	13.0	48000	8.4	24.5	--	6.5	97
OCT								
10...	1935	1.00	44000	8.5	25.0	--	6.6	93
10...	1937	8.50	45000	8.5	25.0	--	6.6	93
10...	1939	17.0	43000	8.5	25.0	--	6.8	95
JUL , 1980								
16...	1010	1.00	58500	8.5	30.0	.90	6.1	100
16...	1012	8.00	59000	8.5	29.5	--	5.6	91
16...	1015	16.0	59000	8.5	29.5	--	5.6	91
NOV								
18...	1330	1.00	50500	8.1	12.0	.50	8.9	99
18...	1332	7.00	51200	8.1	12.0	--	8.9	100
18...	1334	14.0	51500	8.1	12.0	--	8.9	100
MAR , 1981								
24...	1303	1.00	46000	8.2	18.5	.40	6.0	75
24...	1305	8.00	46000	8.2	18.5	--	5.8	72
24...	1307	16.0	46000	8.2	18.5	--	5.9	74
DEC								
15...	1240	1.00	44300	8.3	15.0	.40	7.3	85
15...	1242	7.00	44300	8.3	15.0	--	7.3	85
15...	1244	14.0	44200	8.3	14.5	--	7.5	86
MAR , 1982								
30...	0910	1.00	36600	8.2	20.5	.70	7.2	91
30...	0912	8.00	35800	8.2	20.5	--	7.0	88
30...	0915	16.0	36100	8.2	20.5	--	6.9	87

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
11...	.010	<.010	.010	.060	.76	.82	.83	.030
11...	--	--	--	--	--	--	--	--
OCT								
10...	-.010	.020	.010	.030	1.1	1.1	1.1	.030
10...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--
JUL , 1980								
16...	.020	.000	.020	.060	1.0	1.1	1.1	.050
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
NOV								
18...	.000	.000	.000	.050	1.4	1.4	1.4	.060
18...	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--
MAR , 1981								
24...	.140	.090	.230	.180	1.4	1.6	1.8	.050
24...	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--
DEC								
15...	--	<.020	<.100	<.070	--	1.6	--	.050
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
MAR , 1982								
30...	--	<.020	<.100	.410	.89	1.3	--	<.010
30...	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

264822097281400 LINE 163 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
11...	0850	1.00	43000	8.2	24.0	.40	6.7	97
11...	0853	15.0	47000	8.2	24.0	--	6.6	97
OCT								
10...	1832	1.00	40000	8.5	25.0	--	6.7	93
10...	1834	7.50	38000	8.4	25.0	--	6.8	93
10...	1836	15.0	39000	8.4	24.5	--	6.8	93
JUL , 1980								
16...	1040	1.00	57500	8.5	28.0	1.10	5.0	79
16...	1042	8.00	58500	8.6	28.0	--	4.5	71
16...	1045	16.0	59500	8.5	28.0	--	4.4	70
NOV								
18...	1404	1.00	53000	8.1	11.5	.50	8.5	95
18...	1406	7.00	53000	8.1	11.5	--	8.5	95
18...	1408	14.0	53000	8.1	11.5	--	8.5	95
MAR , 1981								
24...	1349	1.00	45000	8.2	19.0	.50	6.0	75
24...	1351	6.00	45000	8.2	19.0	--	5.8	73
24...	1353	12.0	45000	8.2	19.5	--	5.6	71
DEC								
15...	1320	1.00	44500	8.3	17.0	.40	6.9	84
15...	1322	7.00	44500	8.2	17.0	--	7.0	85
15...	1324	14.0	44500	8.2	17.0	--	7.1	86
MAR , 1982								
30...	0821	1.00	36200	8.1	21.5	.60	6.7	86
30...	0823	7.50	36800	8.2	21.5	--	6.5	82
30...	0825	15.0	37600	8.2	22.0	--	5.8	76

263613097220100 LINE 188 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
11...	0800	1.00	46000	8.1	24.0	.20	6.7	98
11...	0805	5.00	47000	8.1	24.0	--	6.6	97
OCT								
10...	1736	2.00	38000	8.3	24.5	--	8.4	114
JUL , 1980								
16...	0900	1.00	56500	8.2	29.0	.30	5.7	91
16...	0902	4.00	56500	8.2	28.5	--	5.6	88
NOV								
18...	1505	1.00	52000	8.0	13.0	.20	8.5	98
MAR , 1981								
24...	1506	1.00	40000	8.4	20.5	.60	10.9	138
24...	1508	2.00	40000	8.3	20.5	--	10.6	134
DEC								
15...	1415	1.00	42700	8.2	16.0	.20	9.0	106
MAR , 1982								
29...	1208	1.00	35800	8.0	19.5	.50	7.6	95
29...	1210	3.00	35200	8.0	19.5	--	7.7	96

263532097242800 LINE 188 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
APR , 1979											
11...	0750	1.00	46000	8.0	24.0	--	6.8	99	--	--	--
11...	0755	11.0	47000	8.0	24.0	--	6.6	96	6000	5900	440
OCT											
10...	1724	1.00	38200	8.3	25.0	--	6.8	93	4500	4400	210
10...	1725	7.50	38000	8.3	25.0	--	6.2	85	--	--	--
10...	1726	15.0	40000	8.3	25.5	--	6.4	89	--	--	--
JUL , 1980											
16...	0845	1.00	55200	8.2	29.0	.70	5.4	86	6900	6800	470
16...	0847	7.00	56500	8.2	29.0	--	4.9	78	--	--	--
16...	0850	14.0	56500	8.2	28.5	--	5.2	82	--	--	--

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

263532097242800 LINE 188 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	HARDNESS (MG/L AS CACO3)	HARDNESS, NONCARBONATE (MG/L CACO3)	CALCIUM DISSOLVED (MG/L AS CA)
NOV , 1980											
18...	1450	1.00	50000	8.4	14.0	.20	8.4	98	6100	6000	470
18...	1452	10.0	49000	8.4	14.0	--	8.3	96	--	--	--
MAR , 1981											
24...	1433	1.00	39900	8.1	19.0	.70	7.2	88	4900	4700	360
24...	1435	6.00	40000	8.1	19.0	--	6.9	85	--	--	--
24...	1437	11.0	40000	8.0	19.0	--	7.0	86	--	--	--
DEC											
15...	1350	1.00	42500	8.1	17.0	.30	7.8	94	5000	4900	390
15...	1352	6.50	42400	8.1	17.0	--	7.5	90	--	--	--
15...	1354	13.0	43500	8.1	17.0	--	7.1	86	--	--	--
MAR , 1982											
29...	1155	1.00	34100	8.0	19.5	.40	7.3	90	4300	4200	320
29...	1158	7.00	34400	8.0	19.5	--	7.1	88	--	--	--
29...	1200	14.0	35200	8.0	19.5	--	6.8	85	--	--	--

DATE	MAGNESIUM, DISSOLVED (MG/L AS MG)	SODIUM, DISSOLVED (MG/L AS NA)	SODIUM ADSORPTION RATIO	POTASSIUM, DISSOLVED (MG/L AS K)	BICARBONATE FET-FLD (MG/L AS HCO3)	ALKALINITY FIELD (MG/L AS CACO3)	CARBONATE FET-FLD (MG/L AS CO3)	SULFATE DISSOLVED (MG/L AS SO4)	CHLORIDE, DISSOLVED (MG/L AS CL)	FLUORIDE, DISSOLVED (MG/L AS F)
APR , 1979										
11...	--	--	--	--	--	--	--	--	--	--
11...	1200	9700	55	420	200	164	0	2700	18000	.80
OCT										
10...	960	7800	51	140	130	107	0	2100	14000	.70
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
JUL , 1980										
16...	1400	12000	63	520	160	131	0	2900	23000	.80
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
NOV										
18...	1200	10000	56	490	--	150	--	2500	19000	.70
18...	--	--	--	--	--	--	--	--	--	--
MAR , 1981										
24...	960	7900	50	260	--	140	--	2300	14000	.80
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
DEC										
15...	990	8900	55	330	--	140	--	2400	16000	.80
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
MAR , 1982										
29...	850	6600	44	210	--	150	--	2000	13000	.60
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--

DATE	SILICA, DISSOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979										
11...	--	--	--	--	--	--	--	--	--	--
11...	19	33000	.010	<.010	.010	.100	.70	.80	.81	.030
OCT										
10...	4.5	25000	-.010	.020	.010	.020	.84	.86	.87	.040
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
JUL , 1980										
16...	2.6	40000	.020	.000	.020	.000	1.0	1.0	1.0	.040
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
NOV										
18...	6.2	34000	.000	.000	.000	.040	.96	1.0	1.0	.060
18...	--	--	--	--	--	--	--	--	--	--
MAR , 1981										
24...	6.3	26000	.000	.040	.040	.150	.95	1.1	1.1	.030
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

263532097242800 LINE 188 SITE 02--Continued

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
DEC , 1981										
15...	6.3	29000	--	<.020	<.100	<.070	--	1.1	--	.030
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
MAR , 1982										
29...	4.1	23000	--	<.020	.110	.110	.73	.84	.95	<.010
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--

263516097252300 LINE 188 SITE 03

DATE	TIME	SAM-PLING DEPTH (FEET)	SPE-CIFIC CON-DUCT-ANCE (UMHOS)	PH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	TRANS-PAR-ENCY (SECCHI DISK) (M)	OXYGEN, DIS-SOLVED (MG/L)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION)
APR , 1979								
10...	1805	1.00	47000	8.0	24.5	--	6.6	97
10...	1810	5.00	47000	8.0	24.5	--	6.6	97
11...	0740	1.00	46000	8.0	24.0	.30	6.8	99
11...	0745	5.00	46000	8.0	24.0	--	6.8	100
OCT								
10...	1718	1.00	40000	8.3	25.0	--	6.7	93
10...	1720	6.00	26500	8.3	25.5	--	6.8	90
JUL , 1980								
16...	0850	1.00	56500	8.2	29.0	.40	5.7	91
16...	0852	4.50	56500	8.2	29.0	--	5.4	86
NOV								
18...	1518	1.00	49000	8.1	14.0	.20	8.6	99
18...	1520	3.00	50000	8.1	14.0	--	8.6	100
MAR , 1981								
24...	1447	1.00	39000	8.2	20.0	.60	7.8	97
24...	1449	5.00	39000	8.2	20.0	--	8.1	101
DEC								
15...	1431	1.00	42000	8.2	17.5	.30	8.3	101
15...	1433	4.00	42000	8.2	17.5	--	8.4	102
MAR , 1982								
29...	1228	1.00	33500	8.0	19.5	.60	7.9	98
29...	1230	5.00	34100	8.1	20.0	--	7.8	98

DATE	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	PHOS-PHORUS, TOTAL (MG/L AS P)
APR , 1979								
10...	.000	<.010	<.100	.060	.65	.71	.71	.040
10...	.020	<.010	.020	.070	.74	.81	.83	.050
11...	-.010	.020	.010	.100	.63	.73	.74	.040
11...	-.010	.020	.010	.130	.59	.72	.73	.050
OCT								
10...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--
JUL , 1980								
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
NOV								
18...	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--
MAR , 1981								
24...	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--
DEC , 1981								
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
MAR , 1982								
29...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

262423097204400 LINE 217 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
APR , 1979									
10...	1540	1.00	45000	7.9	25.0	.40	6.5	97	--
10...	1544	16.0	44000	7.9	24.5	--	6.5	94	--
OCT									
10...	1518	1.00	33000	8.4	23.5	--	7.2	94	--
10...	1520	8.00	31000	8.3	23.5	--	7.1	92	--
10...	1522	16.0	33000	8.3	24.5	--	6.4	85	--
JUL , 1980									
15...	1145	1.00	50000	8.5	30.0	.40	6.6	104	7.0
15...	1147	8.00	53000	8.5	30.0	--	5.9	94	--
15...	1150	16.0	56500	8.4	30.0	--	5.3	86	--
NOV									
19...	0823	1.00	35200	8.5	9.5	.50	9.4	92	--
19...	0825	7.50	49200	8.3	11.0	--	8.6	93	--
19...	0827	15.0	49200	8.1	11.0	--	8.6	93	--
MAR , 1981									
25...	1226	1.00	34000	8.1	18.5	.40	7.1	85	--
25...	1228	5.00	35000	8.1	18.5	--	6.8	82	--
25...	1230	11.0	31000	8.1	18.5	--	6.8	80	--
DEC									
16...	0833	1.00	39500	8.2	14.5	.50	9.4	106	--
16...	0835	7.50	39800	8.2	15.0	--	9.0	103	--
16...	0837	15.0	40100	8.2	15.0	--	8.7	100	--
MAR , 1982									
29...	1120	1.00	34400	8.0	21.0	.40	6.7	85	--
29...	1123	8.00	34900	8.0	21.0	--	6.6	84	--
29...	1125	16.0	34500	8.0	21.0	--	6.5	83	--

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
10...	.080	.040	.120	.160	.48	.64	.76	.080
10...	--	--	--	--	--	--	--	--
OCT								
10...	-.010	.020	.010	.030	.76	.79	.80	.050
10...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--
JUL , 1980								
15...	.020	.010	.030	.000	1.3	1.3	1.3	.070
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
NOV								
19...	.200	.010	.210	.040	1.1	1.1	1.3	.060
19...	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--
MAR , 1981								
25...	.970	.130	1.10	.100	1.4	1.5	2.6	.120
25...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--
DEC								
16...	--	<.020	<.100	<.070	--	.96	--	.020
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
MAR , 1982								
29...	.270	.060	.330	.250	.85	1.1	1.4	.D30
29...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

261929097264500 LINE 247 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
APR , 1979									
10...	1405	1.00	17000	7.9	25.0	.60	7.0	92	--
10...	1407	7.00	21000	7.8	25.0	--	6.5	87	--
10...	1410	14.0	43000	7.8	24.5	--	5.6	82	--
OCT									
10...	0922	--	--	--	--	--	--	--	.8
10...	0926	--	--	--	--	--	--	--	1.0
10...	1416	1.00	11000	8.3	27.0	--	9.7	124	--
10...	1418	7.50	15000	8.4	26.5	--	7.7	99	--
10...	1420	15.0	32800	8.4	28.0	--	2.6	37	2.0
JUL , 1980									
15...	1110	1.00	16000	8.7	30.5	.40	7.6	105	--
15...	1112	8.00	38000	8.3	30.0	--	2.3	34	--
15...	1115	17.0	56000	8.3	30.0	--	.6	10	3.6
NOV									
19...	0910	1.00	21200	8.4	15.0	.70	7.4	77	4.6
19...	0912	8.00	39900	7.9	14.5	--	6.5	72	--
19...	0914	16.0	46200	7.8	13.0	--	7.1	79	4.0
MAR , 1981									
25...	1210	1.00	32000	8.2	20.5	.50	6.7	82	6.4
25...	1212	7.50	32000	7.8	20.0	--	3.8	46	--
25...	1214	15.0	33000	7.8	20.0	--	3.2	39	1.9
DEC									
16...	0903	1.00	24700	8.0	17.5	.80	7.3	82	2.8
16...	0905	7.00	29000	7.8	20.0	--	2.7	33	--
16...	0907	14.0	35300	7.8	21.5	--	.7	9	1.8
MAR , 1982									
29...	1050	1.00	12100	8.1	21.5	.30	7.4	87	3.3
29...	1053	7.50	14300	7.9	21.0	--	5.3	63	--
29...	1055	15.0	36400	7.5	22.0	--	.3	4	1.0

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
10...	1.46	.640	2.10	.410	.79	--	3.3	.470
10...	--	--	--	--	--	--	--	--
10...	.070	.080	.150	.430	.49	.92	1.1	.120
OCT								
10...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--
10...	.280	.120	.400	.010	1.5	1.5	1.9	.260
10...	--	--	--	--	--	--	--	--
10...	.010	.000	.010	.410	.79	1.2	1.2	.100
JUL , 1980								
15...	.390	.080	.470	.040	1.9	1.9	2.4	.200
15...	--	--	--	--	--	--	--	--
15...	.030	.020	.050	.460	1.3	1.8	1.9	.200
NOV								
19...	.820	.160	.980	.410	1.3	1.7	2.7	.290
19...	--	--	--	--	--	--	--	--
19...	.130	.020	.150	.170	.93	1.1	1.3	.100
MAR , 1981								
25...	2.34	.360	2.70	.050	1.7	1.7	4.4	.380
25...	--	--	--	--	--	--	--	--
25...	.570	.110	.680	.470	1.3	1.8	2.5	.190
DEC								
16...	1.04	.160	1.20	.370	1.0	1.4	2.6	.260
16...	--	--	--	--	--	--	--	--
16...	.330	.080	.410	.520	1.1	1.6	2.0	.160
MAR , 1982								
29...	1.90	.300	2.20	.270	.83	1.1	3.3	.380
29...	--	--	--	--	--	--	--	--
29...	.260	.060	.320	.840	.86	1.7	2.0	.120

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

261922097182800 LINE 263 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
10...	1320	1.00	45000	7.7	24.0	.50	6.5	94
10...	1325	15.0	47000	7.8	24.0	--	6.5	94
OCT								
10...	1326	1.00	27000	8.4	24.0	--	6.5	84
10...	1328	8.00	26000	8.4	24.0	--	6.4	82
10...	1330	17.0	21000	8.4	24.0	--	6.8	86
JUL , 1980								
15...	1040	1.00	59500	8.5	28.5	1.10	4.5	72
15...	1042	8.50	58500	8.4	28.5	--	4.3	68
15...	1044	17.0	60000	8.3	28.5	--	3.9	62
NOV								
19...	0954	1.00	42200	8.4	11.5	.50	9.1	96
19...	0956	8.00	43800	8.3	11.0	--	8.9	94
19...	0958	16.0	45000	8.3	11.0	--	8.7	92
MAR , 1981								
25...	1135	1.00	37000	8.4	19.5	.60	7.3	90
25...	1137	7.50	38000	8.4	19.5	--	7.3	90
25...	1139	15.0	36000	8.4	19.5	--	7.4	91
DEC								
16...	0943	1.00	37500	8.2	15.0	.60	8.6	97
16...	0945	6.50	37700	8.2	15.0	--	8.4	95
16...	0947	13.0	37500	8.2	15.0	--	8.4	95
MAR , 1982								
29...	1021	1.00	36700	7.9	21.0	.40	6.0	77
29...	1023	8.00	36600	8.0	20.5	--	6.0	76
29...	1025	16.0	37600	7.9	21.0	--	6.0	78

261256097121800 LINE 274 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
JUL , 1980								
15...	1008	1.00	56500	8.6	29.0	.40	5.9	94
15...	1010	2.50	56500	8.6	29.0	--	5.9	94
NOV								
19...	1029	1.00	42000	8.5	10.5	.50	9.6	99
19...	1031	4.00	42200	8.5	10.5	--	9.6	99
MAR , 1981								
25...	1112	1.00	35000	8.2	19.5	.50	8.1	99
25...	1114	3.50	36000	8.1	19.5	--	8.0	98
DEC								
16...	1030	1.00	49500	8.1	16.0	--	7.5	91
16...	1032	2.50	49600	8.1	16.0	--	7.7	94
MAR , 1982								
29...	0953	1.00	47900	7.9	21.0	.30	6.2	84
29...	0955	3.00	47800	7.9	21.0	--	6.3	85

261226097135700 LINE 274 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
10...	1245	1.00	47000	7.9	24.5	.50	6.4	94
10...	1248	4.00	47000	7.9	24.5	--	6.4	94
OCT								
10...	1253	1.00	44000	8.4	24.0	--	7.0	96
10...	1255	3.00	46900	8.4	24.0	--	6.6	92
JUL , 1980								
15...	1002	1.00	57000	8.3	29.0	.30	6.1	97
15...	1005	4.00	56500	8.3	29.0	--	5.9	94
NOV								
19...	1024	1.00	43900	8.5	10.5	.40	9.5	99
19...	1026	4.00	43800	8.5	10.5	--	9.4	98

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

261226097135700 LINE 274 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
MAR , 1981								
25...	1101	1.00	36000	8.1	19.5	.30	7.8	96
25...	1103	4.00	36000	8.1	19.5	--	7.8	96
DEC								
16...	1020	1.00	41700	8.1	16.0	.60	7.8	92
16...	1022	3.00	43700	8.1	16.0	--	7.9	94
MAR , 1982								
29...	0948	1.00	48600	8.0	21.0	.20	6.9	93
29...	0950	4.00	48600	8.0	21.0	--	6.9	93

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, N02+N03 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
10...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--
OCT								
10...	-.010	.020	.010	.030	.53	.56	.57	.030
10...	.000	.020	.020	.040	.63	.67	.69	.060
JUL , 1980								
15...	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--
NOV								
19...	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--
MAR , 1981								
25...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--
DEC								
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
MAR , 1982								
29...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--

261153097153400 LINE 274 SITE 03

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
APR , 1979									
10...	1230	1.00	48000	7.7	23.5	.40	6.4	94	--
10...	1235	13.0	48000	7.7	23.5	--	6.3	93	--
OCT									
10...	1243	1.00	32300	8.5	24.0	--	6.9	91	1.4
10...	1244	5.00	35000	8.0	24.5	--	6.5	87	--
10...	1245	10.0	47000	8.0	26.0	--	4.7	68	--
JUL , 1980									
15...	0955	1.00	57500	8.3	28.5	.40	5.3	84	2.6
15...	0958	5.00	57500	8.3	28.5	--	5.2	82	--
NOV									
19...	1017	1.00	45800	8.5	11.5	.60	9.0	97	2.5
19...	1019	5.00	46000	8.4	11.5	--	8.9	95	--
19...	1021	11.0	47200	8.3	11.5	--	8.4	91	--
MAR , 1981									
25...	1055	1.00	36000	8.1	19.0	.20	7.5	91	2.1
25...	1057	7.00	38000	8.1	19.0	--	7.1	87	--
25...	1059	14.0	40000	8.0	19.0	--	6.9	85	--
DEC									
16...	1006	1.00	41900	8.1	16.5	.60	7.7	92	1.6
16...	1008	6.00	45500	8.0	17.0	--	7.5	92	--
16...	1010	12.0	46700	7.9	17.0	--	7.4	91	--
MAR , 1982									
29...	0940	1.00	46600	8.0	21.0	.20	6.8	91	2.5
29...	0943	6.00	48000	8.0	21.0	--	6.4	86	--
29...	0945	12.0	48000	7.5	21.0	--	5.7	77	--

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

261153097153400 LINE 274 SITE 03--Continued

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
10...	--	--	--	--	--	--	--	--
10...	.000	.020	.020	.090	.28	.37	.39	.060
OCT								
10...	.010	.000	.010	.040	.82	.86	.87	.060
10...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--
JUL , 1980								
15...	.020	.000	.020	.000	.81	.81	.83	.050
15...	--	--	--	--	--	--	--	--
NOV								
19...	.130	.020	.150	.080	.88	.96	1.1	.060
19...	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--
MAR , 1981								
25...	.290	.060	.350	.040	2.1	2.1	2.5	.090
25...	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--
DEC								
16...	--	<.020	<.100	<.070	--	.93	--	.020
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
MAR , 1982								
29...	.110	.020	.130	.130	.62	.75	.88	<.010
29...	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--

260553097111200 LINE 287 SITE 01

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
10...	1155	1.00	46000	7.8	22.5	.80	6.7	94
10...	1200	4.00	46000	7.8	22.5	--	6.5	92
OCT								
10...	1204	1.00	46000	8.1	25.0	--	6.6	93
10...	1206	4.00	47000	8.1	25.5	--	6.2	89
JUL , 1980								
15...	0935	1.00	53500	8.3	28.0	.50	6.1	94
15...	0938	2.00	53500	8.3	28.0	--	6.1	94
NOV								
19...	1132	1.00	53200	8.1	11.5	--	9.5	105
19...	1134	2.00	53200	8.1	11.5	--	9.5	105
MAR , 1981								
25...	1017	1.00	46000	8.0	19.5	.40	7.5	96
25...	1019	2.00	47000	8.0	19.5	--	7.4	95
DEC								
16...	1133	1.50	50000	8.0	19.0	--	7.5	97
MAR , 1982								
29...	0905	1.00	41600	8.2	19.0	.20	7.1	90
29...	0910	4.00	41800	8.2	19.0	--	7.1	88

260526097121000 LINE 287 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
APR , 1979										
10...	0958	1.00	44000	8.0	22.0	1.10	6.8	94	--	--
10...	1000	5.00	45000	8.0	21.5	--	6.7	93	--	--
10...	1005	12.0	43000	8.1	21.5	--	6.8	93	--	--
OCT										
10...	0922	1.00	51000	8.0	24.5	--	6.0	86	--	--
10...	0924	6.00	52000	8.0	24.5	--	6.1	88	--	--
10...	0926	13.0	51000	8.0	24.5	--	6.3	90	1	400

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

260526097121000 LINE 287 SITE 02--Continued

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	ARSENIC DISSOLVED (UG/L AS AS)	BARIUM, DISSOLVED (UG/L AS BA)
JUL , 1980										
15...	0925	1.00	53500	8.2	27.5	.80	6.2	95	--	--
15...	0928	7.00	53500	8.2	27.0	--	6.2	94	--	--
15...	0930	14.0	52000	8.2	26.0	--	6.1	90	--	--
NOV										
19...	1100	1.00	51100	8.3	11.0	.40	8.7	95	1	300
19...	1102	12.0	51500	8.3	10.5	--	8.7	94	--	--
19...	1104	24.0	52200	8.2	10.5	--	8.7	94	--	--
MAR , 1981										
25...	1008	1.00	51000	8.0	18.5	.50	7.8	100	--	--
25...	1010	11.0	51000	8.0	19.0	--	7.8	101	--	--
DEC										
16...	1100	1.00	50300	8.0	20.0	.50	6.7	89	1	100
16...	1102	7.00	50300	8.0	20.0	--	6.7	89	--	--
16...	1104	14.0	50300	8.0	19.5	--	6.7	88	--	--
MAR , 1982										
29...	0847	1.00	42400	8.2	19.0	.20	6.9	88	1	<100
29...	0849	7.00	42500	8.2	19.0	--	6.9	88	--	--
29...	0850	14.0	42600	8.2	19.0	--	6.8	86	--	--

DATE	CADMIUM DISSOLVED (UG/L AS CD)	CHROMIUM, DISSOLVED (UG/L AS CR)	COPPER, DISSOLVED (UG/L AS CU)	IRON, DISSOLVED (UG/L AS FE)	LEAD, DISSOLVED (UG/L AS PB)	MANGANESE, DISSOLVED (UG/L AS MN)	MERCURY DISSOLVED (UG/L AS HG)	SELENIUM, DISSOLVED (UG/L AS SE)	SILVER, DISSOLVED (UG/L AS AG)	ZINC, DISSOLVED (UG/L AS ZN)
APR , 1979										
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
OCT										
10...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
10...	0	20	0	150	6	40	.2	0	0	30
JUL , 1980										
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
15...	--	--	--	--	--	--	--	--	--	--
NOV										
19...	30	40	100	190	200	40	.1	0	0	40
19...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
MAR , 1981										
25...	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--
DEC										
16...	<1	40	2	190	1	60	<.1	<1	<1	40
16...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
MAR , 1982										
29...	<1	40	2	150	1	40	.2	<1	<1	40
29...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--

DATE	TIME	SAMPLING DEPTH (FEET)	PCB, TOTAL (UG/L)	PCB, TOTAL IN BOTTOM MATERIAL (UG/KG)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)	PCN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ALDRIN, TOTAL (UG/L)	ALDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	CHLORDANE, TOTAL (UG/L)	CHLORDANE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDD, TOTAL (UG/L)	DDD, TOTAL IN BOTTOM MATERIAL (UG/KG)
OCT , 1979												
10...	0926	13.0	.0	--	--	--	.000	--	.0	--	.000	--
NOV , 1980												
19...	1100	1.00	.0	--	.00	--	.000	--	.0	--	.000	--
19...	1104	24.0	--	.00	--	.0	--	.0	--	.00	--	.0
DEC , 1981												
16...	1100	1.00	.0	--	.00	--	.000	--	.0	--	.000	--
16...	1104	14.0	--	.00	--	.0	--	.0	--	.00	--	.0

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

260526097121000 LINE 287 SITE 02--Continued

DATE	DDE, TOTAL (UG/L)	DDE, TOTAL IN BOTTOM MATERIAL (UG/KG)	DDT, TOTAL (UG/L)	DDT, TOTAL IN BOTTOM MATERIAL (UG/KG)	DIAZINON, TOTAL (UG/L)	DIELDRIN TOTAL (UG/L)	DIELDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ENDOSULFAN, TOTAL (UG/L)	ENDRIN, TOTAL (UG/L)	ENDRIN, TOTAL IN BOTTOM MATERIAL (UG/KG)	ETHION, TOTAL (UG/L)
OCT , 1979											
10...	.000	--	.000	--	.00	.000	--	.000	.000	--	.00
NOV , 1980											
19...	.000	--	.000	--	.00	.000	--	.000	.000	--	.00
19...	--	.1	--	.0	--	--	.0	--	--	.0	--
DEC , 1981											
16...	.000	--	.000	--	.00	.000	--	.000	.000	--	.00
16...	--	.2	--	.0	--	--	.0	--	--	.0	--

DATE	HEPTACHLOR, TOTAL (UG/L)	HEPTACHLOR, TOTAL IN BOTTOM MATERIAL (UG/KG)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	HEPTACHLOR EPOXIDE TOT. IN BOTTOM MATL. (UG/KG)	LINDANE TOTAL (UG/L)	LINDANE TOTAL IN BOTTOM MATERIAL (UG/KG)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHOXYCHLOR, TOT. IN BOTTOM MATL. (UG/KG)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)
OCT , 1979											
10...	.000	--	.000	--	.000	--	.00	.00	--	.00	.00
NOV , 1980											
19...	.000	--	.000	--	.000	--	.00	.00	--	.00	.00
19...	--	.0	--	.0	--	.0	--	--	.0	--	--
DEC , 1981											
16...	.000	--	.000	--	.000	--	.00	.00	--	.00	.00
16...	--	.0	--	.0	--	.0	--	--	.0	--	--

DATE	MIREX, TOTAL (UG/L)	MIREX, TOTAL IN BOTTOM MATERIAL (UG/KG)	PARATHION, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOXAPHENE, TOTAL IN BOTTOM MATERIAL (UG/KG)	TOTAL TRITHION (UG/L)	2,4-D, TOTAL (UG/L)	2, 4-DP TOTAL (UG/L)	2,4,5-T TOTAL (UG/L)	SILVEX, TOTAL (UG/L)
OCT , 1979											
10...	.00	--	.00	.0	.0	--	.00	.00	--	.00	.00
NOV , 1980											
19...	.00	--	.00	.0	.0	--	.00	.00	.00	.00	.00
19...	--	.0	--	--	--	.00	--	--	--	--	--
DEC , 1981											
16...	.00	--	.00	.0	.0	--	.00	.02	.00	.00	.00
16...	--	.0	--	--	--	.00	--	--	--	--	--

260439097131000 LINE 287 SITE 04

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
10...	0945	1.00	39000	7.6	23.5	.90	6.7	95
10...	0948	6.00	39000	7.5	23.5	--	6.8	95
OCT								
10...	0908	1.00	51000	8.0	23.5	--	7.5	105
10...	0909	3.00	51000	8.0	24.0	--	7.7	109
10...	0910	7.00	51000	8.0	24.5	--	6.6	94
JUL , 1980								
15...	0940	1.00	53500	8.2	29.0	--	6.2	97
15...	0942	7.00	53500	8.2	28.5	--	5.2	81
NOV								
19...	1119	1.00	52000	8.4	11.5	.40	8.7	96
19...	1121	5.00	50700	8.4	11.5	--	8.8	96
MAR , 1981								
25...	1030	1.00	50000	8.0	19.0	.60	7.5	97
25...	1032	2.50	49000	8.0	19.0	--	7.6	98
DEC								
16...	1118	1.00	50400	8.0	18.0	.50	6.9	88
16...	1120	7.50	50400	8.0	18.0	--	6.8	87
MAR , 1982								
29...	0912	1.00	42800	8.1	21.5	.30	7.1	95
29...	0915	9.00	43800	8.1	20.5	--	6.9	91

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

255952097172400 LINE 343 SITE 02

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)
APR , 1979									
10...	1040	1.00	49000	7.9	23.5	.70	6.6	46	--
10...	1042	10.0	46000	7.8	23.5	--	6.5	94	--
10...	1045	20.0	46000	7.8	22.5	--	6.4	91	--
10...	1050	31.0	51000	7.9	21.5	--	6.1	87	--
OCT									
10...	1014	1.00	42200	8.1	24.5	--	6.2	86	1.2
10...	1016	10.0	52000	8.0	26.0	--	5.0	74	--
10...	1018	20.0	54000	8.0	27.0	--	4.4	67	--
10...	1020	40.0	50500	8.0	26.5	--	5.0	74	.7
JUL , 1980									
15...	0820	1.00	53500	8.1	29.0	.60	5.4	85	2.0
15...	0822	18.0	53000	8.1	28.5	--	3.8	59	--
15...	0824	36.0	53000	7.9	28.5	--	2.2	34	2.3
NOV									
19...	1211	1.00	49800	8.2	15.0	.80	8.4	98	1.5
19...	1213	10.0	50200	8.2	14.5	--	8.3	96	--
19...	1215	20.0	50400	8.2	14.5	--	8.1	94	--
19...	1217	37.0	--	8.1	14.0	--	8.0	93	1.2
MAR , 1981									
25...	0911	1.00	45000	8.3	19.5	.80	7.8	99	2.2
25...	0913	20.0	46000	8.3	19.5	--	8.0	102	--
25...	0915	35.0	50000	8.1	18.5	--	6.7	85	--
DEC									
16...	1224	1.00	47300	7.9	19.5	.30	6.7	87	1.4
16...	1226	10.0	48400	8.0	18.5	--	6.6	84	--
16...	1228	25.0	49100	7.9	19.0	--	6.5	84	--
16...	1230	35.0	50000	8.0	19.5	--	6.3	83	1.0
MAR , 1982									
29...	0805	1.00	43700	--	--	.50	--	--	1.8
29...	0810	36.0	46400	--	--	--	--	--	2.2

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
10...	.010	.060	.070	.090	.24	.33	.40	.030
10...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--
10...	-.010	.020	.010	.550	.15	.70	.71	.060
OCT								
10...	.010	.020	.030	.070	.48	.55	.58	.070
10...	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--
10...	-.010	.040	.030	.090	.21	.30	.33	.040
JUL , 1980								
15...	.010	.010	.020	.010	.54	.55	.57	.030
15...	--	--	--	--	--	--	--	--
15...	.010	.020	.030	.000	.54	.54	.57	.030
NOV								
19...	.000	.000	.000	.030	.57	.60	.60	.050
19...	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--
19...	.000	.000	.000	.050	.59	.64	.64	.040
MAR , 1981								
25...	.070	.020	.090	.020	.71	.73	.82	.050
25...	--	--	--	--	--	--	--	--
25...	-.010	.020	.010	.030	.50	.53	.54	.040
DEC								
16...	--	<.020	<.100	<.070	--	.70	--	.070
16...	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--
16...	--	<.020	<.100	<.070	--	.65	--	.010
MAR , 1982								
29...	--	<.020	<.100	.100	.45	.55	--	<.010
29...	--	<.020	<.100	.130	.46	.59	--	<.010

Table 10.--Quality of water in the Laguna Madre estuary, water years 1979-83--Continued

260357097081000 LINE 901 SITE 95

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
10...	1130	1.00	45000	7.9	26.0	2.50	6.8	94
10...	1133	20.0	44000	8.0	21.0	--	6.9	95
10...	1135	40.0	46000	8.1	20.5	--	6.8	93
JUL , 1980								
15...	0900	1.00	53500	8.2	24.5	.70	6.4	94
15...	0902	18.0	53500	8.2	24.5	--	6.5	96
15...	0904	36.0	53500	8.2	24.5	--	6.4	94
MAR , 1981								
25...	0950	1.00	51000	8.0	18.0	1.30	7.9	100
25...	0952	20.0	50000	8.0	18.5	--	7.8	100
25...	0954	37.0	50000	8.1	18.5	--	7.6	97

DATE	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	PHOSPHORUS, TOTAL (MG/L AS P)
APR , 1979								
10...	.010	<.010	.010	.050	.08	.13	.14	.020
10...	--	--	--	--	--	--	--	--
10...	.020	.020	.040	.070	.17	.24	.28	.040
JUL , 1980								
15...	.010	.010	.020	.000	.76	.76	.78	.030
15...	--	--	--	--	--	--	--	--
15...	.010	.010	.020	.000	.59	.59	.61	.030
MAR , 1981								
25...	.080	.020	.100	.020	.60	.62	.72	.030
25...	--	--	--	--	--	--	--	--
25...	.010	.010	.020	.040	.43	.47	.49	.030

263415097144000 LINE 902 SITE 90

DATE	TIME	SAMPLING DEPTH (FEET)	SPECIFIC CONDUCTANCE (UMHOS)	PH (STANDARD UNITS)	TEMPERATURE (DEG C)	TRANSPARENCY (SECCHI DISK) (M)	OXYGEN, DISSOLVED (MG/L)	OXYGEN, DISSOLVED (PERCENT SATURATION)
APR , 1979								
11...	0700	1.00	46000	8.4	22.0	--	7.3	103
11...	0705	44.0	46000	8.3	22.0	--	7.1	100
JUL , 1980								
16...	0730	1.00	54500	8.2	24.5	2.60	6.3	92
16...	0732	21.0	61000	8.3	25.0	--	6.0	91
16...	0735	42.0	60000	8.2	24.5	--	5.9	88
DEC , 1981								
15...	1504	1.00	49300	8.1	21.0	2.60	6.6	88
15...	1506	10.0	49400	8.1	21.0	--	6.6	88
15...	1508	20.0	49500	8.0	21.0	--	6.7	90
15...	1510	30.0	49500	8.0	21.0	--	6.7	90
15...	1512	40.0	49500	8.0	21.0	--	6.7	90
15...	1514	52.0	49600	7.9	20.5	--	6.8	90
MAR , 1982								
29...	1325	1.00	42400	8.1	19.0	--	7.0	89
29...	1328	22.5	45300	8.0	19.0	--	6.7	86
29...	1330	45.0	45600	8.0	19.0	--	6.6	85