Colorado Estuary

The Colorado estuary covers an area of about 2 square miles (5 km^2) and consists of the tidal part of the Colorado River and part of the Intracoastal Waterway (Figure 5). The minimum depth at mlw is about 6 feet (1.8 m) in the river channel and about 15-feet (4.6 m) in the Intracoastal Waterway.

Water-quality data (Table 4) were collected during October 1974 and January and May 1975.

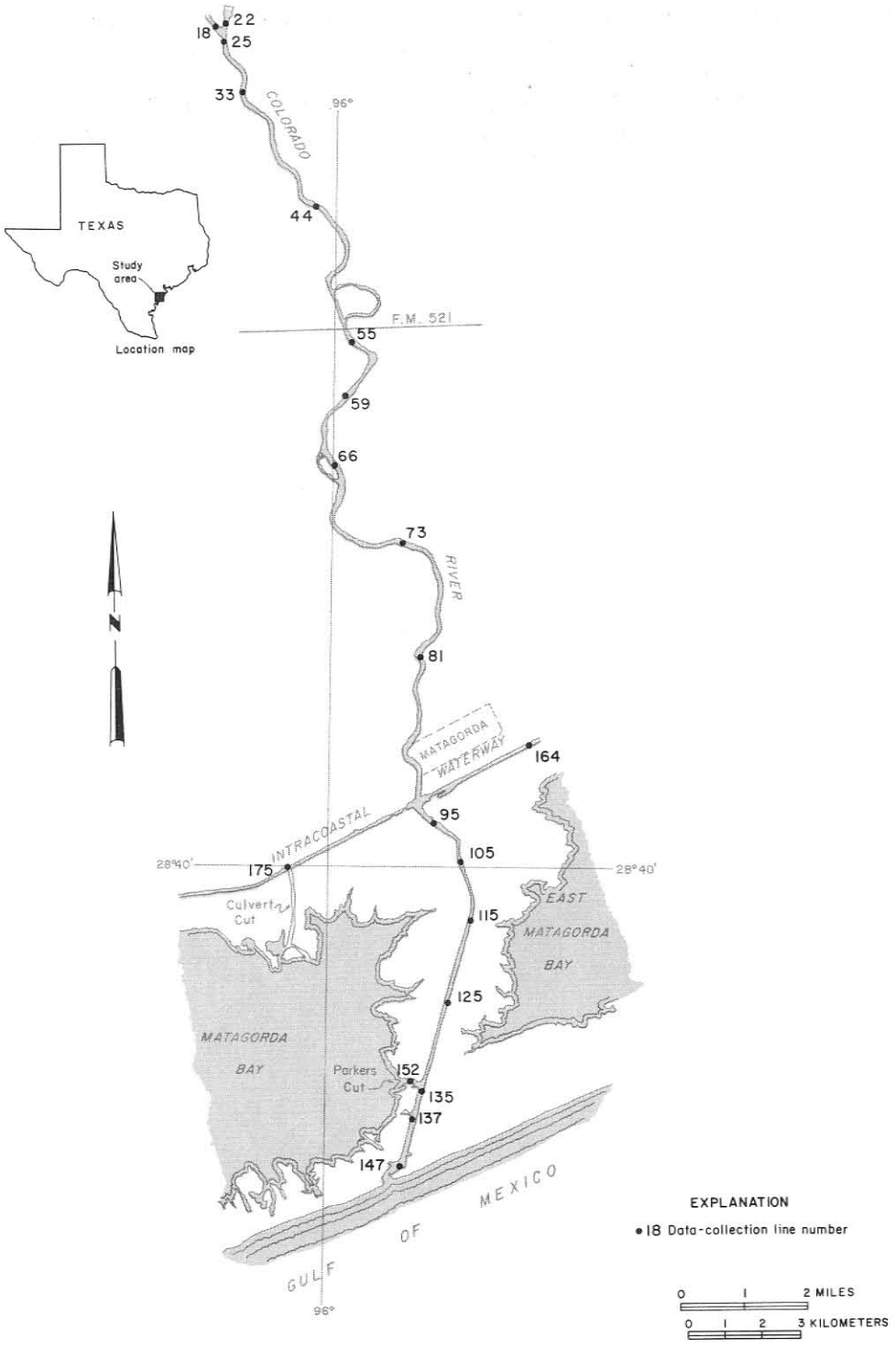

Figure 5

Data-Collection Sites in the Colorado Estuary

Base by U.S. Geological Survey, 1956

TABLE 4A--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
						LINE 18				
OCT 11, 74	1120	2	.3	500	25.0	7.9	8.4	100	70.	30
			3.0	500	25.0	7.9	8.4	100	75.	--
			5.2	500	25.0	7.9	8.5	101	75.	--
JAN 23, 75	1225	2	.3	570	13.6	8.0	10.0	95	30.	26
			1.5	570	13.6	8.0	9.8	93	35.	--
			3.4	570	13.6	8.0	9.6	90	20.	--
MAY 22, 75	1400	2	.3	510	26.9	--	7.7	95	110.	14
			1.8	510	27.0	--	7.7	95	110.	--
						LINE 55				
OCT 11, 74	1055	2	.3	500	25.0	7.9	8.2	98	70.	30
			1.5	500	25.0	7.9	8.2	98	70.	--
			3.0	500	25.0	7.9	8.2	98	75.	--
			4.9	500	25.0	7.9	8.4	100	80.	--
JAN 23, 75	1200	2	.3	570	13.4	8.0	9.6	91	30.	49
			1.5	570	13.4	8.0	9.7	92	30.	--
			3.0	570	13.4	8.0	10.0	95	30.	--
			4.3	570	13.5	8.0	10.2	97	40.	--
MAY 22, 75	1430	2	.3	500	26.5	--	7.6	93	95.	19
			2.1	500	26.5	--	7.6	93	100.	--
			4.3	500	26.5	--	7.5	91	105.	--
						LINE 81				
OCT 11, 74	1030	2	.3	500	25.0	7.8	8.0	95	40.	36
			3.0	500	25.0	7.8	8.0	95	55.	--
			6.1	500	25.0	7.8	8.0	95	65.	--
			9.4	500	25.0	7.8	8.1	96	500.	--
JAN 23, 75	1140	2	.3	570	13.2	8.1	10.1	95	20.	42
			1.5	570	13.2	8.1	10.1	95	15.	--
			3.0	570	13.2	8.1	10.1	95	25.	--
			6.1	570	13.1	8.1	10.1	95	35.	--
			12.2	570	13.1	8.1	10.2	96	60.	--
MAY 22, 75	1445	2	.3	500	26.6	--	7.8	96	60.	31
			4.0	500	26.5	--	7.8	95	70.	--
			7.9	500	26.5	--	7.6	93	95.	--
						LINE 95				
OCT 11, 74	1015	2	.3	540	25.0	7.9	8.2	98	40.	33
			1.5	540	25.0	7.9	8.2	98	50.	--
			3.0	5000	25.0	7.9	8.1	98	55.	--
			4.9	15000	25.0	7.7	7.2	90	50.	--
JAN 23, 75	1110	2	.3	1200	13.3	8.1	9.9	94	20.	48
			1.5	1200	13.2	8.1	9.8	92	90.	--
			3.0	8000	13.2	8.0	9.5	91	90.	--
			4.9	32000	14.1	8.1	8.9	97	240.	--
MAY 22, 75	1545	2	.3	900	26.7	--	8.0	99	55.	27
			2.1	1300	26.5	--	7.8	95	60.	--
			3.0	1400	26.5	--	7.8	95	60.	--
			3.7	7000	26.5	--	7.1	89	--	--
			4.0	30000	26.5	--	5.1	71	140.	--
						LINE 115				
OCT 11, 74	0940	2	.3	1200	25.0	8.0	7.8	92	20.	51

TABLE 4A--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 115 CONTINUED					
OCT 11, 74	0940	2	1.5	1600	25.0	8.1	7.9	94	20.	--
			3.0	21000	25.5	7.9	6.6	86	20.	--
			6.1	40000	26.0	8.0	6.2	89	75.	--
JAN 23, 75	1055	2	.3	2200	13.3	8.1	9.8	94	10.	43
			1.5	2200	13.3	8.1	9.8	94	10.	--
			3.0	26000	14.0	8.1	8.7	92	5.	--
			5.5	36000	14.3	8.1	8.2	92	5.	--
MAY 22, 75	1600	2	.3	910	26.9	--	8.3	102	45.	31
			2.4	7000	26.5	--	7.2	90	140.	--
			4.6	34000	26.8	--	6.1	86	30.	--
					LINE 137					
MAY 22, 75	1615	2	.3	18000	27.8	--	7.8	105	50.	39
			1.5	34000	27.7	--	6.8	97	65.	--
					LINE 147					
OCT 10, 74	0910	2	.3	7000	25.0	7.9	8.1	99	20.	46
			1.2	12000	25.0	7.9	7.8	96	25.	--
			1.8	24000	25.0	7.9	7.6	97	10.	--
JAN 23, 75	1030	2	.3	36000	14.0	8.1	8.2	91	425.	23
			1.5	36000	14.0	8.2	8.2	91	400.	--
			3.0	36000	13.9	8.1	8.6	96	--	--
					LINE 152					
OCT 10, 74	0925	2	.3	9700	25.0	8.0	7.9	96	20.	64
			1.5	20000	25.0	7.9	7.4	94	20.	--
			3.0	32000	25.0	7.9	7.1	95	15.	--
JAN 23, 75	1045	2	.3	15000	13.5	8.1	9.2	92	240.	26
			1.5	17000	13.5	8.1	9.2	93	190.	--
			3.7	31000	13.2	8.1	8.8	94	400.	--
MAY 22, 75	1610	2	.3	8000	27.2	--	7.9	100	40.	41
			1.5	32000	27.0	--	6.7	93	50.	--
			3.0	32000	27.0	--	6.7	93	50.	--
					LINE 164					
OCT 11, 74	1250	2	.3	3900	25.6	8.1	9.3	113	20.	51
			1.5	4400	25.6	8.0	8.9	108	15.	--
			3.0	11000	25.6	8.0	9.2	114	15.	--
			4.6	17000	25.6	8.0	10.3	132	25.	--
JAN 23, 75	1305	2	.3	5700	13.6	7.8	9.0	88	15.	41
			1.5	6100	13.5	7.8	9.6	93	15.	--
			3.0	6500	13.4	7.8	9.2	89	10.	--
			4.9	7000	13.4	7.8	9.4	91	20.	--
MAY 22, 75	1530	2	.3	1800	27.0	--	7.8	96	90.	21
			2.4	2100	26.6	--	7.6	95	100.	--
			4.9	2600	26.6	--	7.4	92	120.	--
					LINE 175					
OCT 11, 74	1220	2	.3	550	25.0	7.9	8.4	100	30.	43
			3.0	600	25.0	7.9	8.3	99	30.	--
			5.8	550	25.0	7.9	8.2	98	50.	--
JAN 23, 75	1120	2	.3	6500	13.3	8.0	9.7	94	20.	46

TABLE 4A--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
LINE 175 CONTINUED										
JAN 23, 75	1120	2	1.5	6700	13.3	7.9	9.5	92	20.	--
			3.0	7000	13.3	7.9	9.5	92	30.	--
			4.9	7000	13.3	7.9	9.5	92	30.	--
MAY 22, 75	1510	2	.3	1100	26.6	--	7.8	96	80.	24
			2.4	1100	26.6	--	7.7	95	90.	--
			4.6	1100	26.5	--	7.7	94	120.	--

TABLE 4B--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 18						
OCT 11, 74	1120	2	.3	9.5	.27	.01	.00	--	.15	.5	0	4.3
			5.2	9.3	.27	.01	.00	--	.14	.5	0	--
JAN 23, 75	1225	2	.3	11.0	.39	.00	.00	--	.14	1.0	--	--
			3.4	11.0	.60	.00	.00	--	.13	1.0	--	--
MAY 22, 75	1400	2	.3	9.4	.47	.00	.01	--	.14	.9	2	5.5
			1.8	9.5	.47	.00	.01	--	.14	.6	2	5.3
						LINE 81						
OCT 11, 74	1030	2	.3	--	.14	.00	.00	--	.11	.7	1	3.7
			9.4	--	.25	.00	.00	--	.20	1.4	4	--
JAN 23, 75	1140	2	.3	--	.43	.00	.00	--	.11	1.1	--	--
			12.2	--	.60	.00	.00	--	.13	1.3	--	--
MAY 22, 75	1445	2	.3	--	.47	.00	.00	--	.11	.8	2	8.4
			7.9	--	.45	.00	.01	--	.13	.8	2	9.4
						LINE 115						
OCT 11, 74	0940	2	.3	9.8	.26	.00	.00	--	.09	1.0	2	2.7
			6.1	1.0	.00	.02	.00	--	.08	1.1	1	--
JAN 23, 75	1055	2	.3	10.0	.36	.01	.00	--	.11	1.0	--	--
			5.5	1.2	.04	.04	.00	--	.06	1.2	--	--
MAY 22, 75	1600	2	.3	9.5	.48	.00	.00	--	.10	.7	2	4.3
			4.6	1.1	.04	.07	.02	--	.08	.6	0	3.9

TABLE 4C--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 18						
OCT 11, 74	1120	2	.3	472	43.0	18.0	26	3.5	180	29	45	263
			5.2	476	43.0	20.0	22	4.2	180	30	46	264
JAN 23, 75	1225	2	.3	556	53.0	17.0	32	4.0	206	35	51	305
			3.4	570	54.0	17.0	30	4.0	205	35	50	302
MAY 22, 75	1400	2	.3	506	51.0	17.0	26	3.6	188	33	45	278
			1.8	506	52.0	17.0	26	3.5	189	33	45	280
						LINE 81						
OCT 11, 74	1030	2	.3	488	--	--	--	--	--	--	--	--
			9.4	498	--	--	--	--	--	--	--	--
JAN 23, 75	1140	2	.3	559	--	--	--	--	--	--	--	--
			12.2	557	--	--	--	--	--	--	--	--
MAY 22, 75	1445	2	.3	501	--	--	--	--	--	--	--	--
			7.9	505	--	--	--	--	--	--	--	--
						LINE 115						
OCT 11, 74	0940	2	.3	1190	47.0	32.0	130	8.5	180	56	250	623
			6.1	37600	260.0	940.0	8300	310.0	146	2000	14000	25900
JAN 23, 75	1055	2	.3	2260	64.0	48.0	320	15.0	200	99	560	1210
			5.5	39200	290.0	870.0	7600	310.0	140	1800	14000	24900
MAY 22, 75	1600	2	.3	910	52.0	23.0	96	6.0	186	47	160	486
			4.6	33900	260.0	810.0	6400	240.0	133	1400	12000	21200

TABLE 40--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAL-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 18					
OCT 11, 74	1120	2	.3	20	1	3	--	0	0	--	--
			5.2	--	--	--	5	--	--	< 10.00	--
JAN 23, 75	1225	2	.3	--	--	--	--	--	--	--	.3
			3.4	--	--	--	--	--	--	--	.3
MAY 22, 75	1400	2	.3	--	--	--	--	--	--	--	.6
			1.8	--	--	--	--	--	--	--	.4
						LINE 115					
OCT 11, 74	0940	2	.3	10	1	2	--	3	0	--	--
			6.1	20	1	--	10	1	--	< 10.00	--
JAN 23, 75	1055	2	.3	--	--	--	--	--	--	--	.3
			5.5	--	--	--	--	--	--	--	.9
MAY 22, 75	1600	2	.3	--	--	--	--	--	--	--	.6
			4.6	--	--	--	--	--	--	--	1.0

TABLE 4D--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	BOTTOM DEPOSIT COBALT (CO) (UG/GM)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	BOTTOM DEPOSIT COPPER (CU) (UG/GM)
						LINE 18					
OCT 11, 74	1120	2	.3	.00	10.00	0	1	--	1	24.0	--
			5.2	--	--	--	--	10.00	--	--	< 10.00
						LINE 115					
OCT 11, 74	0940	2	.3	1.00	10.00	0	5	--	6	4.0	--
			6.1	.00	--	0	--	< 10.00	3	--	< 10.00

TABLE 4D--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CYANIDE (CN) (MG/L)	BOTTOM DEPOSIT CYANIDE (CN) (UG/GM)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	BOTTOM DEPOSIT IRON (FE) (UG/GM)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	BOTTOM DEPOSIT LEAD (PB) (UG/GM)
						LINE 18					
OCT 11, 74	1120	2	.3	--	--	0	2900	--	1	9	--
			5.2	--	.0	--	--	--	--	--	< 10.00
						LINE 115					
OCT 11, 74	0940	2	.3	--	--	10	170	--	3	8	--
			6.1	--	.0	100	--	--	1	--	< 10.00

TABLE 4D--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED LITH-IUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BOTTOM DEPOSIT MAN-GANESE (MN) (UG/GM)	DIS-SOLVED MER-CURY (HG) (UG/L)	TOTAL MER-CURY (HG) (UG/L)	BOTTOM DEPOSIT MER-CURY (HG) (UG/GM)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
						LINE 18						
OCT 11, 74	1120	2	.3	0	17	110	--	.0	.2	--	0	340
			5.2	--	--	--	170	--	--	.1	--	--
						LINE 115						
OCT 11, 74	0940	2	.3	17	10	30	--	.0	.2	--	3	440
			6.1	120	940	--	250	.1	--	.1	3	4400

TABLE 4D--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	BOTTOM DEPOSIT ZINC (ZN) (UG/GM)
						LINE 18
OCT 11, 74	1120	2	.3	8	20	--
			5.2	--	--	< 10.00
						LINE 115
OCT 11, 74	0940	2	.3	20	0	--
			6.1	40	--	10.00

TABLE 4E--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL ALDRIN (UG/L)	BOTTOM DEPOSIT ALDRIN (UG/KG)	TOTAL CHLORDANE (UG/L)	BOTTOM DEPOSIT CHLORDANE (UG/KG)	TOTAL DDD (UG/L)	BOTTOM DEPOSIT DDD (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDE (UG/KG)
						LINE 115					
OCT 11, 74	0940	2	.3	.00	--	.0	--	.00	--	.00	--
			6.1	--	.0	--	2.0	--	6.5	--	7.9

TABLE 4E--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL DDT (UG/L)	BOTTOM DEPOSIT DDT (UG/KG)	TOTAL DIEL-DRIN (UG/L)	BOTTOM DEPOSIT DIEL-DRIN (UG/KG)	TOTAL ENDRIN (UG/L)	BOTTOM DEPOSIT ENDRIN (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR (UG/KG)
						LINE 115					
OCT 11, 74	0940	2	.3	.00	--	.00	--	.00	--	.00	--
			6.1	--	1.2	--	.0	--	.0	--	.0

TABLE 4E--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR EPOXIDE (UG/KG)	TOTAL LINDANE (UG/L)	BOTTOM DEPOSIT LINDANE (UG/KG)	TOTAL PARA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL DIAZ-INON (UG/L)
					LINE 115						
OCT 11, 74	0940	2	.3	.00	--	.00	--	.00	.00	.00	.00
			6.1	--	.0	--	.0	--	--	--	--

TABLE 4E--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL PCB (UG/L)	BOTTOM DEPOSIT PCB (UG/KG)	TOTAL 2,4-D (UG/L)	BOTTOM DEPOSIT 2,4-D (UG/KG)	TOTAL 2,4,5-T (UG/L)	BOTTOM DEPOSIT 2,4,5-T (UG/KG)	TOTAL SILVEX (UG/L)	BOTTOM DEPOSIT SILVEX (UG/KG)
						LINE 18					
OCT 11, 74	1120	2	.3	--	--	--	--	--	--	.00	--
						LINE 115					
OCT 11, 74	0940	2	.3	--	--	.00	--	.00	--	.00	--
			6.1	--	.L	--	--	--	--	--	--

TABLE 4E--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL TOXA-PHENE (UG/L)	BOTTOM DEPOSIT TOXA-PHENE (UG/KG)	TOTAL ETHION (UG/L)	BOTTOM DEPOSIT ETHION (UG/KG)	TOTAL METHYL TRI-THION (UG/L)	BOTTOM DEPOSIT METHYL TRI-THION (UG/KG)	TOTAL TRI-THION (UG/L)	BOTTOM DEPOSIT TRI-THION (UG/KG)
					LINE 115						
OCT 11, 74	0940	2	.3	.0	--	--	--	--	--	--	--
			6.1	--	0.	--	--	--	--	--	--

TABLE 4F--QUALITY OF WATER IN THE COLORADO ESTUARY,

1975 WATER YEAR

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
						LINE 18	
OCT 11, 74	1120	2	.3	--	140	114	3.20
MAY 22, 75	1400	2	.3	300	102	30	2.30
						LINE 61	
OCT 11, 74	1030	2	.3	--	94	66	--
MAY 22, 75	1445	2	.3	--	84	70	--
						LINE 115	
OCT 11, 74	0940	2	.3	120	31	57	1.70
MAY 22, 75	1600	2	.3	210	68	84	1.10

Lavaca-Tres Palacios Estuary

The Lavaca-Tres Palacios estuary covers about 350 square miles (907 km^2) and 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 (Figure 6). Water depth at mlw is 13 feet (4.0 m) or less in Matagorda Bay, except in the Matagorda Ship Channel, which is more than 40 feet (12.2 m) deep. The rivers generally are less than 15 feet (4.6 m) deep.

Water-quality data (Table 5) were collected during October 1974 and February, April, June, and August 1975.

Figure 6.—Data-Collection Sites in the Lavaca-Tres Palacios Estuary

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 17					
FEB 11, 75	1225	2	.3	750	13.7	8.0	8.9	85	25.	51
			1.5	750	13.4	7.9	8.8	84	30.	--
			3.4	750	13.3	7.8	9.0	86	40.	--
APR 10, 75	1610	2	.3	480	20.2	7.5	6.1	66	375.	4
			1.5	480	20.1	7.5	6.1	66	450.	--
			3.4	480	20.1	7.5	6.1	66	500.	--
JUN 09, 75	1515	2	.3	690	29.1	--	8.8	113	--	44
			1.5	550	28.2	--	6.9	87	55.	--
			3.4	550	27.9	--	5.5	70	40.	--
AUG 19, 75	1725	2	.3	590	30.6	7.5	13.5	180	20.	51
			1.5	670	30.2	7.1	6.5	86	20.	--
			3.0	700	30.6	7.2	6.4	85	--	--
					LINE 22					
FEB 11, 75	1150	2	.3	500	13.3	7.9	8.7	82	35.	44
			1.5	500	13.2	8.0	8.8	83	30.	--
			3.0	500	13.2	8.0	9.1	86	30.	--
APR 10, 75	1545	2	.3	340	20.4	7.7	6.3	69	440.	4
			1.5	340	20.4	7.7	6.2	68	440.	--
			3.7	350	20.3	7.6	6.2	67	410.	--
JUN 09, 75	1535	2	.3	540	29.1	--	6.9	88	20.	54
			1.5	450	28.7	--	6.7	86	15.	--
			3.0	400	28.1	--	5.8	73	20.	--
AUG 19, 75	1755	2	.3	490	30.7	7.1	13.6	161	40.	43
			1.2	530	33.0	7.7	11.8	162	50.	--
			2.4	570	31.3	7.2	5.8	77	50.	--
					LINE 45					
OCT 16, 74	0905	2	.3	700	21.1	8.0	8.2	92	20.	46
			1.5	700	21.0	7.9	8.3	92	5.	--
			3.0	700	21.0	7.9	8.3	92	10.	--
			3.4	700	21.2	7.9	8.2	92	20.	--
FEB 11, 75	1250	2	.3	550	12.4	7.9	9.0	84	55.	37
			1.5	1150	12.5	7.9	8.6	80	55.	--
			2.4	3900	12.6	7.9	8.5	79	40.	--
			3.4	5800	12.7	7.8	8.6	80	30.	--
APR 10, 75	1630	2	.3	460	20.4	7.5	6.0	66	210.	11
			1.5	750	20.4	7.5	6.0	66	240.	--
			3.4	3000	20.2	7.5	5.6	62	250.	--
JUN 09, 75	1305	2	.3	450	29.2	--	7.8	100	20.	57
			1.5	450	29.1	--	7.7	99	20.	--
			3.7	450	28.8	--	7.0	90	30.	--
AUG 19, 75	1715	2	.3	530	31.3	6.3	10.2	136	40.	35
			1.5	530	30.5	8.2	10.0	132	40.	--
			3.0	470	30.6	7.8	5.9	79	100.	--
					LINE 65					
OCT 16, 74	0930	2	.3	1000	20.0	8.0	7.0	76	20.	51
			1.5	1000	20.1	8.0	7.0	76	20.	--
			3.0	1000	19.7	8.0	6.8	73	20.	--

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 65 CONTINUED					
OCT 16, 74	0930	2	3.7	1000	19.7	8.0	6.8	73	10.	--
FEB 11, 75	1305	2	.3	2300	14.9	8.0	9.1	90	30.	45
			1.2	5000	14.9	8.0	9.0	89	25.	--
			1.8	16000	14.9	8.1	9.0	93	10.	--
			2.4	18000	14.9	8.1	8.6	90	10.	--
			4.0	18000	14.9	8.0	8.8	92	10.	--
APR 10, 75	1645	2	.3	3600	20.6	7.6	6.2	89	110.	14
			1.8	4200	20.6	7.6	6.0	87	95.	--
			2.7	22000	20.3	7.6	4.8	66	25.	--
			4.0	29000	20.2	7.5	4.2	61	5.	--
JUN 09, 75	1440	2	.3	970	29.4	--	7.1	92	90.	44
			1.5	1100	29.4	--	7.0	91	90.	--
			3.4	1100	28.8	--	7.0	91	45.	--
AUG 19, 75	1650	2	.3	1800	31.0	7.8	9.4	125	40.	35
			1.5	2000	30.0	7.6	8.0	107	40.	--
			3.0	1700	30.5	6.2	5.7	75	50.	--
					LINE 85					
OCT 16, 74	1005	1	.3	7600	18.5	8.0	8.2	89	65.	23
			.9	7600	18.5	8.0	8.2	89	60.	--
			1.8	25000	21.1	7.9	5.2	63	110.	--
FEB 11, 75	1330	1	.3	28000	12.7	8.2	9.7	101	10.	107
			1.8	28000	12.7	8.2	9.8	102	25.	--
JUN 09, 75	1330	1	.5	2200	29.1	8.2	7.2	94	250.	13
			1.5	2600	29.1	8.2	7.3	95	225.	--
			2.1	3600	28.8	8.3	7.5	97	245.	--
AUG 19, 75	1600	1	.3	12000	30.3	7.4	7.5	103	80.	25
			1.8	12000	30.3	7.4	7.1	97	80.	--
OCT 16, 74	1015	3	.3	8200	19.2	8.0	6.9	75	25.	51
			1.7	9000	19.1	8.0	6.8	75	35.	--
FEB 11, 75	1345	3	.3	22000	12.8	8.3	9.9	101	10.	109
			1.5	25000	12.4	8.2	9.5	97	10.	--
JUN 09, 75	1345	3	.3	1400	28.8	8.2	7.4	95	170.	13
			1.8	1600	28.7	8.2	7.4	95	180.	--
AUG 19, 75	1610	3	.3	9600	30.6	7.4	8.2	112	80.	24
			1.5	9600	30.3	7.7	6.4	86	140.	--
OCT 16, 74	1045	4	.3	7500	17.6	8.0	7.1	76	15.	61
			.6	8000	17.4	8.0	7.1	76	20.	--
FEB 11, 75	1400	4	.3	21000	13.1	8.2	9.5	98	25.	67
			1.2	21000	12.7	8.2	9.4	96	30.	--
JUN 09, 75	1405	4	.3	1800	29.0	8.5	7.2	92	275.	11
			1.2	1800	29.0	8.5	7.1	91	350.	--
					LINE 90					
OCT 16, 74	1105	2	.3	6100	18.9	8.1	7.4	80	40.	33
			.9	6100	18.7	8.0	8.4	91	--	--
			1.8	31000	20.4	7.7	4.8	59	40.	--
AUG 19, 75	1550	2	.3	17000	30.5	7.4	6.6	92	50.	31
			1.2	15000	30.5	7.4	5.8	81	50.	--
OCT 16, 74	1115	3	.3	9700	19.6	8.0	6.7	74	50.	29

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 9C CONTINUED						
OCT 16, 74	1115	3	.9	12000	19.7	8.0	7.7	87	50.	--
			1.5	25000	21.4	7.9	5.7	70	95.	--
			2.7	30000	21.8	7.8	4.4	56	140.	--
FEB 11, 75	1415	3	.3	26000	13.3	8.3	10.4	108	10.	121
			1.5	29000	12.2	8.2	9.9	102	10.	--
			2.7	28000	12.7	8.1	9.7	101	10.	--
JUN 09, 75	1320	3	.3	3600	28.9	8.3	7.5	97	160.	16
			1.5	3600	28.9	8.3	7.6	99	160.	--
			2.4	4000	28.9	8.3	7.5	97	160.	--
AUG 19, 75	1545	3	.3	18000	30.3	8.3	6.4	89	45.	45
			1.2	18000	30.6	8.0	6.9	97	40.	--
			2.4	18000	31.0	8.4	5.2	73	70.	--
OCT 16, 74	1125	4	.3	11000	19.8	8.0	8.1	91	40.	30
			.9	11000	19.3	8.0	7.3	81	40.	--
			1.2	11000	19.3	8.0	6.9	77	65.	--
AUG 19, 75	1535	4	.3	17000	30.7	7.4	6.2	87	40.	31
			1.5	17000	32.0	7.5	5.8	83	105.	--
				LINE 10Z						
OCT 16, 74	0840	2	.3	34000	20.9	8.2	3.8	48	95.	76
			1.5	35000	21.0	8.2	3.6	46	90.	--
			3.0	39000	21.5	8.3	4.0	52	75.	--
			6.1	39000	20.9	8.3	5.1	66	60.	--
			10.4	40000	18.3	8.3	6.7	83	190.	--
FEB 11, 75	1700	2	.3	31000	14.8	8.2	8.8	98	10.	69
			1.5	33000	14.3	8.2	8.2	91	10.	--
			4.6	33000	13.6	8.2	7.8	85	5.	--
			7.6	34000	13.5	8.3	7.7	84	5.	--
			11.0	34000	13.3	8.4	7.9	86	25.	--
APR 09, 75	1445	2	.3	35000	21.1	8.2	10.1	129	15.	128
			3.0	31000	21.0	8.2	9.8	123	11.	--
			6.1	36000	20.1	8.2	7.8	98	10.	--
			10.7	36000	22.2	8.1	4.3	55	40.	--
JUN 09, 75	1615	2	.5	8300	29.5	8.5	10.7	143	100.	16
			3.0	8000	29.0	8.5	10.5	138	120.	--
			4.6	8000	29.5	8.5	10.5	143	100.	--
			6.1	22000	29.0	7.8	3.8	53	30.	--
			10.7	30000	29.0	7.9	3.4	49	55.	--
AUG 19, 75	1450	2	.3	25000	30.1	--	6.7	96	30.	57
			1.5	25000	29.9	8.8	6.2	89	30.	--
			3.0	34000	31.1	9.0	2.9	44	10.	--
			4.6	40000	28.8	8.3	.0	0	10.	--
			7.6	44000	28.8	8.3	.0	0	5.	--
			10.4	47000	29.1	7.8	.0	0	0.	--
				LINE 11O						
OCT 16, 74	0805	2	.3	19000	18.8	8.0	5.6	63	50.	46
			1.5	19000	18.5	8.1	7.0	78	40.	--
			3.4	21000	16.9	8.2	7.5	82	45.	--
FEB 11, 75	1740	2	.3	29000	15.2	7.6	6.5	70	10.	66
			.8	29000	13.7	8.0	7.1	76	5.	--
			1.2	32000	13.0	8.1	8.0	85	5.	--
			2.4	33000	12.6	8.2	8.5	91	10.	--
			4.0	32000	13.0	8.2	8.8	94	15.	--
APR 09, 75	1340	2	.3	30000	22.5	8.0	8.8	113	0.	66

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
					LINE 11C CONTINUED					
APR 09, 75	1340	2	1.5	31000	22.9	8.1	8.1	104	0.	--
			3.7	31000	25.4	8.0	5.5	74	35.	--
JUN 09, 75	1715	2	.3	3000	29.5	8.4	11.8	155	90.	24
			1.5	3000	29.5	8.1	10.8	142	80.	--
			3.0	3000	29.5	7.8	6.9	91	130.	--
			3.7	9500	29.0	7.6	5.1	67	100.	--
					LINE 12S					
FEB 11, 75	1725	2	.3	24000	14.1	8.3	10.6	110	20.	71
			.9	23000	13.9	8.3	10.6	110	15.	--
APR 09, 75	1410	2	.3	31000	23.0	8.2	8.6	110	5.	45
			1.5	31000	23.0	8.2	9.0	115	55.	--
			3.0	31000	24.5	8.0	5.9	78	60.	--
JUN 09, 75	1645	2	.5	4000	29.5	8.4	11.1	146	110.	13
			1.5	4000	29.0	8.4	11.2	145	110.	--
			2.7	7000	29.0	8.2	8.4	111	110.	--
AUG 19, 75	1140	2	.3	23000	30.6	7.3	5.4	78	25.	41
			.9	21000	30.8	7.4	5.9	84	30.	--
					LINE 14S					
OCT 16, 74	1000	1	.3	23000	19.2	8.3	11.1	128	110.	36
			1.5	23000	19.2	8.3	10.9	125	110.	--
FEB 11, 75	1625	1	.3	31000	13.3	8.3	9.9	106	0.	145
			1.8	31000	13.3	8.3	10.0	108	0.	--
APR 09, 75	1550	1	.3	35000	22.1	8.2	9.1	117	20.	98
			1.5	35000	23.0	8.2	8.4	111	20.	--
JUN 09, 75	1510	1	.5	11000	29.5	--	--	--	80.	25
			1.8	11000	29.5	8.4	8.6	115	120.	--
AUG 19, 75	1425	1	.3	29000	30.5	8.8	6.7	99	10.	55
			1.5	29000	31.0	8.5	6.3	93	15.	--
OCT 16, 74	0950	3	.3	23000	19.2	8.3	9.9	114	110.	48
			1.5	23000	19.0	8.3	10.1	116	95.	--
FEB 11, 75	1635	3	.3	32000	13.5	8.3	10.6	114	0.	110
			1.8	31000	13.0	8.4	11.2	119	10.	--
APR 09, 75	1555	3	.3	35000	22.2	8.2	8.9	114	20.	75
			1.5	35000	23.1	8.2	8.4	111	30.	--
JUN 09, 75	1500	3	.5	10000	29.5	8.4	8.3	111	100.	17
			2.0	10000	30.0	8.4	8.4	114	150.	--
AUG 19, 75	1435	3	.3	28000	30.4	7.8	7.0	101	25.	43
			1.8	29000	31.3	8.7	6.2	91	30.	--
					LINE 15D					
OCT 16, 74	0930	1	.3	23000	17.5	8.3	8.4	94	100.	33
			1.8	23000	18.1	8.3	9.4	107	100.	--
FEB 11, 75	1545	1	.3	31000	13.3	8.2	9.4	101	0.	98
			1.8	30000	13.1	8.2	9.7	103	5.	--
APR 09, 75	1540	1	.3	35000	22.0	8.2	8.5	109	40.	85
			1.8	35000	23.1	8.2	8.0	105	40.	--

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 15C CONTINUED					
JUN 09, 75	1515	1	.5	7000	29.5	8.5	10.1	135	100.	16
			1.4	7000	29.5	8.5	10.0	133	--	--
AUG 19, 75	1305	1	.3	29000	30.5	7.8	7.2	106	10.	76
			1.5	29000	30.3	8.3	6.8	98	15.	--
OCT 16, 74	0915	3	.3	21000	19.0	8.3	8.9	101	140.	18
			1.2	21000	19.1	8.3	8.7	99	160.	--
FEB 11, 75	1530	3	.3	30000	13.4	8.2	9.7	102	5.	99
			1.8	30000	13.0	8.2	9.7	103	5.	--
APR 09, 75	1530	3	.3	33000	22.0	8.2	8.5	109	45.	63
			1.8	33000	24.1	8.2	7.9	105	50.	--
JUN 09, 75	1530	3	.5	10000	29.5	8.4	9.8	131	70.	18
			1.5	10000	29.5	8.4	9.7	129	80.	--
			2.1	10000	30.0	8.3	9.6	130	110.	--
AUG 19, 75	1250	3	.3	28000	29.8	8.4	6.6	96	5.	53
			.9	28000	29.8	8.5	6.7	97	10.	--
			2.1	28000	29.0	8.6	5.0	71	20.	--
OCT 16, 74	0900	4	.3	24000	21.2	8.3	7.2	87	95.	--
			1.5	25000	20.5	8.3	7.6	92	105.	--
			3.0	34000	21.0	8.4	7.3	92	100.	--
			6.1	43000	21.5	8.3	6.9	91	115.	--
			10.4	43000	20.3	8.3	7.7	100	115.	--
FEB 11, 75	1515	4	.3	26000	13.0	8.2	10.1	104	0.	111
			1.5	31000	12.7	8.2	9.3	98	5.	--
			3.0	32000	12.6	8.2	8.9	93	10.	--
			6.1	34000	12.7	8.2	8.5	90	20.	--
			9.1	34000	12.8	8.2	8.5	91	20.	--
			12.2	36000	12.9	8.2	8.2	89	105.	--
APR 09, 75	1510	4	.5	32000	22.2	8.2	8.4	106	25.	76
			3.0	34000	21.0	8.2	7.8	99	25.	--
			6.1	35000	20.2	8.2	7.1	89	35.	--
			11.0	34000	20.9	8.2	7.0	89	40.	--
JUN 09, 75	1550	4	.5	13000	29.0	8.4	9.7	129	60.	32
			1.5	13000	29.0	8.4	9.4	125	55.	--
			2.4	13000	29.0	8.3	9.0	120	--	--
			3.0	23000	29.0	8.0	4.4	61	40.	--
			6.1	26000	29.0	8.0	4.3	61	35.	--
			10.4	37000	29.0	7.9	5.0	74	45.	--
AUG 19, 75	1220	4	.3	28000	29.8	7.8	6.1	87	10.	67
			1.5	28000	29.5	8.0	5.5	79	10.	--
			3.0	34000	30.0	7.9	4.8	72	5.	--
			4.6	40000	29.5	8.2	2.1	32	45.	--
			7.6	46000	29.5	8.2	.0	0	10.	--
			10.7	48000	29.7	9.0	.0	0	10.	--
					LINE 17S					
OCT 16, 74	1020	1	.3	23000	17.2	8.4	6.8	76	100.	28
			1.5	23000	17.5	8.5	5.8	65	110.	--
FEB 11, 75	1600	1	.3	32000	12.9	8.3	10.0	106	0.	126
			1.5	31000	12.6	8.3	10.0	105	0.	--
APR 09, 75	1645	1	.3	35000	22.9	8.3	8.0	105	15.	69
			1.5	34000	23.0	8.3	8.1	105	10.	--
JUN 09, 75	1430	1	.3	17000	29.5	8.4	8.1	112	50.	43
			1.5	21000	29.5	8.4	8.0	111	90.	--

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 175 CONTINUED					
AUG 19, 75	1405	1	.3	24000	30.5	7.0	6.3	90	0.	61
			1.5	28000	31.5	7.9	5.7	84	10.	--
					LINE 190					
FEB 11, 75	1120	2	.3	30000	13.7	8.1	8.0	87	20.	116
			1.2	30000	14.3	8.1	7.6	83	15.	--
APR 09, 75	1710	2	.3	34000	21.6	8.2	8.1	104	20.	72
			1.8	34000	22.9	8.2	7.6	99	20.	--
JUN 10, 75	1055	2	.3	17000	26.7	8.3	10.8	142	40.	41
			1.4	17000	26.7	8.3	10.5	138	55.	--
AUG 19, 75	0945	2	.3	34000	31.0	8.3	6.9	105	20.	94
			1.8	34000	29.4	8.3	6.6	97	15.	--
OCT 14, 74	1720	4	.3	30000	25.8	8.2	13.8	189	15.	66
			1.5	31000	25.8	8.2	12.4	170	25.	--
			3.0	31000	25.4	8.2	12.2	165	40.	--
			6.1	31000	25.4	8.2	9.5	128	40.	--
			10.4	35000	25.7	8.0	5.6	77	80.	--
OCT 16, 74	1055	4	.3	21000	20.0	8.3	9.0	115	115.	30
			1.5	25000	20.8	8.3	8.4	102	110.	--
			3.0	31000	21.0	8.4	7.0	89	105.	--
			4.6	34000	21.2	8.4	7.0	88	105.	--
			6.1	44000	21.7	8.4	6.0	81	105.	--
			10.4	40000	20.0	8.3	6.8	86	110.	--
FEB 11, 75	1310	4	.3	28000	13.7	8.1	8.7	92	20.	101
			3.0	31000	13.4	8.1	8.5	91	25.	--
			6.1	32000	13.4	8.1	8.1	87	40.	--
			9.1	32000	13.4	8.1	7.8	84	75.	--
			11.9	32000	13.5	8.1	7.4	80	80.	--
APR 09, 75	1715	4	.3	34000	20.1	8.2	8.1	100	30.	88
			3.0	34000	20.1	8.2	7.6	94	35.	--
			6.1	35000	20.1	8.2	7.5	94	30.	--
			9.1	36000	20.0	8.2	7.2	90	40.	--
APR 10, 75	1630	4	.3	35000	20.9	8.1	7.5	96	15.	77
			3.0	35000	20.8	8.1	7.3	94	25.	--
			6.1	35000	20.8	8.0	7.1	91	25.	--
			11.6	35000	20.9	8.0	6.3	81	55.	--
JUN 09, 75	1350	4	.5	16000	28.5	8.4	7.4	100	40.	45
			1.5	16000	28.5	8.4	7.4	100	30.	--
			2.4	17000	28.5	8.3	7.0	95	30.	--
			3.0	29000	28.0	8.1	4.0	56	30.	--
			6.1	34000	28.0	8.1	3.2	46	50.	--
			9.1	37000	28.0	8.0	2.4	35	55.	--
			11.0	37000	28.0	8.0	2.4	35	70.	--
JUN 10, 75	1020	4	.3	16000	26.7	8.3	8.9	116	55.	33
			1.5	18000	26.7	8.3	8.3	109	50.	--
			3.0	19000	26.6	8.2	7.8	103	55.	--
			6.1	25000	26.6	8.2	7.0	95	150.	--
			9.1	34000	25.9	7.9	4.3	60	300.	--
			12.2	34000	25.8	7.9	3.8	53	--	--
JUN 11, 75	0900	4	.3	11000	25.7	8.2	7.2	89	80.	30
			1.5	12000	25.8	8.2	6.9	87	75.	--
			3.0	15000	25.9	8.2	6.6	85	80.	--
			6.1	26000	26.1	8.2	6.0	80	80.	--
			9.1	36000	26.3	8.1	5.1	71	120.	--
			12.8	36000	26.2	8.1	4.8	67	--	--
AUG 19, 75	0915	4	.3	32000	29.2	8.3	5.5	80	20.	89

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
					LINE 190 CONTINUED					
AUG 19, 75	0915	4	1.5	32000	29.2	8.3	5.3	77	20.	--
			3.0	32000	29.4	8.3	5.0	72	20.	--
			6.1	47000	29.1	8.3	2.9	45	30.	--
			9.1	48000	29.0	8.0	1.9	30	35.	--
			11.0	50000	29.3	8.0	.7	11	40.	--
					LINE 200					
OCT 16, 74	1135	2	.3	26000	21.0	8.4	11.2	137	5.	46
			1.5	31000	21.5	8.4	11.0	138	20.	--
			3.0	36000	21.5	8.4	8.4	108	10.	--
			6.1	37000	21.3	8.4	9.5	122	15.	--
			10.4	40000	21.0	8.4	9.1	118	5.	--
FEB 11, 75	1330	2	.3	32000	13.6	8.1	8.3	90	15.	132
			3.0	33000	13.6	8.1	7.9	86	20.	--
			6.1	34000	13.9	8.1	7.8	86	25.	--
			9.1	34000	14.4	8.2	7.7	86	50.	--
			12.5	32000	14.5	8.2	7.8	86	70.	--
AUG 20, 75	1245	2	.3	39000	28.9	8.2	5.9	88	40.	112
			1.5	41000	28.5	8.2	5.9	88	40.	--
			3.0	44000	28.5	8.1	5.8	89	30.	--
			6.1	52000	28.2	8.1	4.9	77	35.	--
			9.1	52000	28.2	8.1	5.7	89	50.	--
			11.0	52000	28.5	8.1	5.6	88	70.	--
OCT 16, 74	1155	5	.3	25000	20.0	8.3	11.3	135	35.	41
			1.5	25000	20.3	8.3	10.0	120	35.	--
FEB 11, 75	1350	5	.3	31000	14.0	8.0	8.8	96	10.	134
			1.8	31000	14.0	8.1	8.6	93	10.	--
AUG 20, 75	1300	5	.3	41000	29.1	8.3	6.5	99	20.	82
			1.5	41000	29.0	8.3	6.7	101	25.	--
					LINE 210					
OCT 16, 74	1215	2	.3	32000	21.8	8.4	8.6	109	35.	41
			1.5	32000	21.3	8.4	8.6	108	40.	--
			3.0	38000	21.0	8.4	7.9	103	40.	--
			6.1	38000	21.5	8.4	7.9	103	35.	--
			10.4	41000	22.2	8.4	8.0	105	35.	--
FEB 11, 75	1445	2	.3	34000	14.7	8.2	8.5	96	15.	208
			3.0	34000	14.7	8.2	8.1	91	10.	--
			6.1	35000	14.7	8.2	8.5	96	15.	--
			9.1	35000	14.7	8.2	8.5	96	20.	--
			11.6	34000	15.3	8.3	7.5	84	140.	--
AUG 20, 75	1340	2	.3	43000	29.4	8.3	7.4	114	35.	105
			1.5	48000	28.0	8.2	7.6	115	25.	--
			3.0	50000	28.8	8.2	6.9	110	20.	--
			6.1	50000	28.4	8.2	6.6	103	25.	--
			10.4	50000	28.8	8.1	6.5	103	20.	--
					LINE 224					
APR 10, 75	1225	2	.3	21000	22.0	8.1	8.1	99	15.	57
			.9	23000	22.0	8.1	7.8	95	25.	--
					LINE 229					
FEB 12, 75	1215	2	.3	24000	13.6	8.2	9.9	102	15.	35
			1.2	24000	13.6	8.2	10.0	103	50.	--

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
					LINE 229 CONTINUED					
JUN 10, 75	1320	2	.3	10000	26.2	8.6	6.9	86	--	34
			1.5	8000	26.1	8.6	6.8	85	--	--
AUG 20, 75	1640	2	.3	14000	32.0	8.5	7.5	106	20.	38
			1.5	14000	32.0	8.5	7.4	104	100.	--
					LINE 235					
APR 10, 75	1245	2	.3	34000	21.5	8.0	7.8	100	10.	76
			1.8	34000	21.5	8.0	8.0	103	5.	--
					LINE 247					
FEB 12, 75	1135	6	.3	30000	12.7	8.2	9.2	97	60.	26
			1.4	30000	12.7	8.2	9.3	98	90.	--
JUN 10, 75	1220	6	.3	29000	26.7	8.4	6.3	86	--	14
			1.5	29000	26.7	8.4	6.3	86	--	--
AUG 20, 75	1725	6	.3	29000	31.0	8.5	7.3	107	15.	42
			1.5	29000	31.0	8.5	6.5	96	70.	--
					LINE 249					
OCT 14, 74	1650	2	.3	30000	26.8	8.3	11.0	153	30.	41
			1.8	30000	26.8	8.3	11.2	156	40.	--
FEB 12, 75	1125	2	.5	32000	13.1	8.2	9.5	101	5.	67
			1.2	32000	13.2	8.2	9.7	103	10.	--
FEB 12, 75	0935	2	.3	32000	13.3	8.1	8.6	92	20.	100
			1.7	32000	13.3	8.1	8.7	94	15.	--
APR 10, 75	1300	2	.3	34000	20.8	8.0	8.4	106	5.	87
			1.2	34000	21.0	8.0	8.4	106	5.	--
JUN 10, 75	1130	2	.3	25000	26.6	8.2	7.0	93	--	16
			1.5	25000	26.5	8.2	6.9	92	--	--
AUG 19, 75	1035	2	.3	34000	29.9	8.4	7.1	106	30.	36
			1.5	34000	29.2	8.4	6.7	99	40.	--
					LINE 254					
OCT 15, 74	1450	2	.9	3800	22.4	7.6	6.1	70	50.	15
APR 10, 75	1050	2	.3	4600	21.0	8.2	9.2	103	20.	69
			1.5	4600	20.9	8.2	8.7	98	20.	--
			2.4	11000	20.9	8.2	7.1	82	30.	--
			3.4	14000	20.6	8.1	5.2	60	40.	--
AUG 20, 75	1510	2	.3	630	32.0	8.3	6.6	89	--	40
			1.5	630	31.4	8.0	4.8	64	90.	--
			3.0	630	31.5	8.0	4.2	57	40.	--
					LINE 258					
FEB 12, 75	1500	2	.8	19000	16.4	8.2	10.0	108	90.	--
APR 10, 75	1035	2	.3	26000	21.9	8.2	7.6	94	60.	46
			.9	26000	21.9	8.2	7.7	95	95.	--
AUG 20, 75	1500	2	.3	9600	33.0	8.5	6.8	96	65.	37
			.9	9600	33.0	8.5	6.2	87	80.	--

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 264					
OCT 15, 74	1500	2	.9	20000	21.3	8.0	6.8	82	500.	8
FEB 12, 75	1510	2	.3	27000	14.9	8.0	9.5	104	20.	42
			1.2	27000	14.9	8.0	9.7	106	25.	--
APR 10, 75	1025	2	.3	30000	21.8	8.1	7.8	99	15.	57
			1.2	30000	21.7	8.1	7.8	99	15.	--
AUG 20, 75	1420	2	.3	19000	32.2	8.4	7.1	101	20.	64
			1.5	17000	32.0	8.3	6.8	97	190.	--
					LINE 270					
FEB 12, 75	1600	2	.3	31000	13.7	8.0	9.3	100	5.	48
			1.5	31000	13.6	8.0	9.4	101	20.	--
			4.3	31000	13.6	8.0	9.4	101	40.	--
APR 10, 75	1100	2	.3	33000	20.5	8.0	6.3	79	15.	93
			1.5	33000	20.5	8.0	6.3	79	10.	--
			4.0	33000	21.0	8.0	6.4	81	25.	--
AUG 20, 75	0945	2	.3	24000	30.0	8.1	5.0	71	20.	79
			1.5	26000	30.2	8.1	4.6	66	30.	--
			3.4	26000	30.8	8.1	3.8	55	25.	--
					LINE 284					
OCT 14, 74	1245	1	.3	28000	25.8	8.2	9.0	122	20.	64
			1.5	28000	25.8	8.2	9.0	122	10.	--
FEB 12, 75	1650	1	.3	31000	14.2	8.0	9.7	105	20.	47
			1.2	31000	14.3	8.0	9.6	105	25.	--
APR 10, 75	1120	1	.3	31000	21.1	8.1	7.1	89	25.	70
			1.2	31000	21.0	8.1	7.2	90	25.	--
AUG 20, 75	1010	1	.3	29000	28.8	8.2	5.7	81	10.	59
			1.2	32000	29.0	8.2	5.6	81	35.	--
OCT 14, 74	1305	2	.3	24000	26.1	8.2	9.4	124	35.	74
			1.5	24000	26.0	8.2	9.2	121	35.	--
			3.0	24000	25.9	8.2	8.6	113	20.	--
			4.6	25000	25.8	8.2	8.0	107	35.	--
FEB 12, 75	1635	2	.5	32000	13.6	8.0	9.2	99	60.	18
			1.5	32000	13.6	8.0	9.2	99	60.	--
			3.7	32000	13.5	8.0	9.4	101	70.	--
APR 10, 75	1145	2	.3	33000	20.8	8.1	7.3	92	20.	84
			1.5	34000	20.5	8.1	7.4	82	25.	--
			4.3	35000	20.1	8.1	6.6	82	50.	--
AUG 20, 75	1035	2	.3	29000	29.0	8.3	7.0	100	15.	56
			1.5	27000	29.1	8.2	6.6	94	20.	--
			3.0	32000	29.1	8.2	5.9	86	30.	--
			4.0	32000	29.1	8.2	5.4	78	50.	--
OCT 14, 74	1315	3	.3	28000	26.2	8.3	9.4	129	20.	64
			1.8	28000	27.0	8.2	9.6	132	25.	--
FEB 12, 75	1625	3	.3	32000	13.9	8.1	9.9	108	5.	67
			1.5	32000	13.9	8.1	10.0	109	5.	--
			2.1	32000	14.0	8.1	10.2	111	10.	--
APR 10, 75	1200	3	.3	32000	21.0	8.1	7.4	92	30.	46

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 284 CONTINUED					
APR 10, 75	1200	3	1.5	31000	21.0	8.1	7.4	92	25.	--
AUG 20, 75	1045	3	.3	29000	29.0	8.3	6.8	97	30.	60
			1.8	27000	29.0	8.3	6.2	89	30.	--
					LINE 300					
OCT 14, 74	1415	1	.3	23000	26.0	8.3	9.7	128	35.	66
			2.1	23000	25.9	8.3	9.5	125	70.	--
FEB 12, 75	1645	1	.5	30000	15.0	8.4	8.4	93	20.	108
			1.4	28000	15.8	8.4	8.7	97	20.	--
APR 10, 75	1300	1	.3	35000	20.1	8.1	7.2	90	10.	81
			1.8	35000	20.1	8.1	7.0	88	10.	--
AUG 19, 75	1425	1	.3	38000	28.8	8.2	7.4	110	95.	63
			1.7	38000	28.8	8.2	8.0	119	80.	--
OCT 14, 74	1345	2	.3	25000	26.0	8.3	9.1	121	--	79
			1.5	24000	26.0	8.3	9.4	124	--	--
			4.0	24000	26.2	8.2	10.0	132	35.	--
FEB 12, 75	1655	2	.5	32000	14.2	8.3	8.2	91	20.	78
			1.5	32000	14.2	8.3	8.1	90	20.	--
			3.2	31000	14.3	8.3	7.5	82	20.	--
APR 10, 75	1245	2	.3	35000	20.2	8.1	7.1	89	10.	128
			1.5	35000	20.5	8.1	7.1	90	10.	--
			3.4	35000	20.7	8.1	6.8	86	25.	--
AUG 19, 75	1440	2	.3	32000	30.0	8.3	8.5	125	20.	93
			1.5	34000	29.5	8.2	7.9	116	15.	--
			3.0	36000	29.2	8.2	6.8	100	10.	--
			3.7	36000	29.2	8.2	6.5	96	20.	--
AUG 20, 75	1100	2	.3	32000	29.0	8.3	5.6	81	15.	113
			1.5	36000	29.0	8.3	5.1	75	20.	--
			3.0	36000	28.8	8.1	3.9	57	60.	--
			4.0	36000	28.6	8.1	4.2	62	70.	--
OCT 14, 74	1330	3	.3	26000	26.0	8.3	10.5	140	60.	61
			1.8	27000	26.0	8.2	9.4	127	45.	--
FEB 12, 75	1710	3	.5	32000	14.2	8.4	8.6	93	15.	102
			1.5	32000	14.5	8.4	7.4	81	15.	--
APR 10, 75	1230	3	.3	34000	20.9	8.1	7.1	90	50.	57
			1.5	34000	20.9	8.1	7.1	90	55.	--
AUG 20, 75	1115	3	.3	29000	28.9	8.3	5.3	76	--	52
			1.8	29000	28.8	8.2	5.3	76	50.	--
					LINE 320					
APR 09, 75	1515	2	.3	23000	21.8	8.1	10.4	127	50.	30
			1.5	23000	21.5	8.1	9.9	121	65.	--
			3.0	25000	21.4	8.1	9.7	118	140.	--
			4.6	25000	21.4	8.1	9.5	116	185.	--
					LINE 333					
FEB 12, 75	1445	1	.5	7100	15.6	8.3	8.3	84	100.	41
			1.4	7200	15.6	8.3	8.4	85	135.	--
APR 09, 75	1425	1	.3	30000	22.4	8.3	10.7	135	30.	30

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 333 CONTINUED					
APR 09, 75	1425	1	1.5	32000	21.9	8.2	9.7	123	125.	--
AUG 20, 75	1105	1	.3	36000	30.5	8.3	6.4	97	10.	53
			1.5	38000	30.1	8.3	6.0	91	20.	--
FEB 12, 75	1430	2	.3	20000	15.2	8.4	8.2	86	20.	56
			1.2	20000	15.4	8.4	9.5	101	30.	--
APR 09, 75	1440	2	.3	34000	21.7	8.3	10.2	131	50.	33
			1.8	34000	21.4	8.2	10.0	127	70.	--
AUG 20, 75	1155	2	.3	34000	31.2	8.2	5.2	79	20.	63
			1.8	36000	31.6	8.2	3.0	47	30.	--
FEB 12, 75	1355	3	.3	20000	15.5	8.5	10.5	112	20.	88
			.9	24000	15.4	8.5	10.0	108	25.	--
APR 09, 75	1445	3	.3	30000	22.0	8.2	10.2	129	25.	28
			1.5	30000	21.4	8.2	9.9	124	80.	--
AUG 20, 75	1205	3	.3	30000	31.0	8.4	6.7	100	--	52
			1.5	30000	30.8	8.3	5.4	81	50.	--
					LINE 350					
OCT 14, 74	1530	1	.3	--	26.2	8.2	--	--	5.	99
			1.5	28000	26.5	8.2	6.2	84	5.	--
			2.7	27000	27.7	8.1	4.8	67	5.	--
FEB 12, 75	1310	1	.5	25000	15.3	8.2	9.4	102	30.	53
			1.5	24000	15.7	8.2	7.8	84	30.	--
APR 10, 75	1405	1	.3	35000	20.5	8.1	7.2	91	45.	42
			1.1	35000	20.5	8.1	7.0	89	40.	--
AUG 19, 75	1315	1	.3	43000	29.0	8.2	6.0	92	40.	92
			1.2	43000	28.8	8.1	5.8	89	20.	--
OCT 14, 74	1455	2	.3	21000	26.0	8.3	11.5	151	5.	104
			1.5	21000	26.0	8.2	10.9	143	5.	--
			4.0	21000	26.1	8.2	11.1	146	30.	--
FEB 12, 75	1535	2	.5	25000	14.3	8.4	10.6	113	15.	124
			1.5	27000	14.1	8.2	8.6	92	20.	--
			2.7	27000	14.1	8.2	7.3	78	20.	--
APR 10, 75	1350	2	.3	35000	20.5	8.1	7.2	91	30.	75
			1.5	35000	20.5	8.1	7.0	89	30.	--
			3.7	35000	20.6	8.1	7.0	89	30.	--
AUG 19, 75	1325	2	.3	39000	30.0	8.2	8.0	121	60.	90
			1.5	39000	29.8	8.2	6.8	103	60.	--
			3.0	41000	29.2	8.1	6.6	100	80.	--
OCT 14, 74	1440	3	.3	24000	26.2	8.3	9.8	129	15.	66
			2.1	29000	26.0	8.2	8.7	118	35.	--
FEB 12, 75	1610	3	.3	28000	14.4	8.3	9.0	98	10.	79
			1.5	29000	14.3	8.3	8.6	93	15.	--
			2.3	27000	14.5	8.3	8.0	87	10.	--
APR 10, 75	1345	3	.3	34000	20.6	8.1	7.3	91	50.	48
			2.1	34000	21.0	8.1	7.3	92	40.	--
AUG 19, 75	1405	3	.3	39000	30.2	8.2	8.2	124	80.	112
			1.5	39000	30.0	8.2	8.3	126	75.	--
			2.4	39000	30.0	8.2	8.1	123	60.	--
					LINE 363					
OCT 14, 74	1545	1	.3	38000	26.1	8.2	6.8	96	--	94

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
				LINE 363 CONTINUED						
OCT 14, 74	1545	1	2.4	38000	26.8	8.2	6.9	99	5.	--
FEB 12, 75	1235	1	.3	28000	15.1	8.0	8.6	94	30.	66
			1.5	29000	14.6	8.0	8.1	86	60.	--
			2.3	29000	15.0	8.0	7.5	82	60.	--
APR 10, 75	1430	1	.3	36000	20.1	8.1	7.0	88	15.	69
			1.5	36000	20.5	8.1	6.7	85	15.	--
AUG 19, 75	1205	1	.3	43000	29.5	8.4	12.4	194	30.	122
			1.5	43000	28.9	8.3	10.1	155	35.	--
			2.3	43000	28.4	8.2	7.9	120	15.	--
OCT 14, 74	1600	2	.3	35000	26.0	8.3	8.3	115	2.	112
			1.2	35000	26.0	8.3	8.2	114	5.	--
			2.4	35000	26.1	8.2	7.8	108	5.	--
			4.0	36000	26.8	8.2	6.3	89	5.	--
FEB 12, 75	1205	2	.6	31000	14.0	8.0	8.0	87	35.	76
			1.5	30000	13.8	7.9	8.0	87	40.	--
			3.0	32000	13.9	8.1	7.9	86	50.	--
APR 10, 75	1445	2	.3	38000	20.1	8.1	7.1	90	15.	102
			1.5	38000	20.1	8.1	7.2	91	30.	--
			3.7	36000	20.1	8.1	7.1	89	25.	--
AUG 19, 75	1150	2	.3	39000	29.2	8.3	8.5	127	30.	115
			1.5	43000	28.9	8.2	7.0	108	25.	--
			3.0	47000	28.5	8.1	3.7	57	35.	--
			4.0	50000	28.5	7.8	1.5	23	40.	--
OCT 14, 74	1610	3	.3	30000	26.0	8.3	8.6	118	5.	89
			1.5	30000	26.1	8.3	8.6	118	5.	--
			3.4	30000	26.3	8.2	7.5	103	5.	--
FEB 12, 75	1145	3	.6	32000	13.9	8.2	8.1	88	20.	80
			1.5	32000	13.7	8.2	8.1	87	30.	--
			3.4	32000	13.6	8.2	7.5	81	50.	--
APR 10, 75	1500	3	.3	35000	20.2	8.1	7.6	95	10.	112
			1.5	35000	20.2	8.1	7.5	94	15.	--
			3.0	35000	20.2	8.1	7.2	90	10.	--
AUG 19, 75	1135	3	.3	38000	29.0	8.2	7.2	107	20.	94
			1.5	38000	29.0	8.2	6.8	101	40.	--
			3.0	38000	28.8	8.2	6.4	96	65.	--
OCT 14, 74	1625	5	.3	34000	26.1	8.3	8.1	112	5.	66
			1.8	34000	26.0	8.3	8.4	117	10.	--
			3.7	34000	26.4	8.2	7.9	110	15.	--
FEB 12, 75	1125	5	.6	33000	13.8	8.2	7.4	81	10.	148
			.9	34000	13.7	8.2	7.3	79	10.	--
			2.4	34000	13.7	8.1	7.2	78	10.	--
			3.4	32000	13.7	8.2	7.0	75	10.	--
APR 10, 75	1525	5	.3	34000	20.1	8.1	7.6	95	0.	123
			1.5	35000	20.1	8.1	7.6	95	0.	--
			3.0	33000	20.8	8.1	7.1	90	5.	--
AUG 19, 75	1115	5	.3	32000	29.8	8.3	7.3	107	40.	42
			1.5	36000	29.2	8.3	6.7	99	35.	--
			3.4	36000	29.1	8.2	5.9	87	60.	--
OCT 14, 74	1640	6	.3	31000	26.4	8.3	10.2	140	0.	61
			1.5	32000	26.5	8.3	10.3	143	0.	--
			3.0	32000	26.7	8.3	9.9	138	15.	--
FEB 12, 75	1020	6	.6	33000	13.5	8.2	7.3	79	15.	159

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
					LINE 363 CONTINUED					
FEB 12, 75	1020	6	1.5	33000	13.4	8.2	7.2	78	20.	--
			3.4	34000	13.9	8.2	7.8	86	15.	--
APR 10, 75	1545	6	.3	34000	20.5	8.1	8.1	101	15.	96
			1.5	34000	20.5	8.1	7.9	99	15.	--
			2.7	34000	20.5	8.1	7.7	96	5.	--
AUG 19, 75	1045	6	.3	34000	29.8	8.3	7.4	110	40.	77
			1.5	34000	29.5	8.3	6.9	101	30.	--
			2.6	34000	29.4	8.2	6.0	88	30.	--
					LINE 375					
FEB 11, 75	1635	1	.3	33000	15.5	8.3	8.3	94	10.	156
			1.5	34000	15.4	8.3	7.4	83	20.	--
			3.0	34000	15.5	8.3	7.4	84	110.	--
			4.1	32000	15.8	8.3	7.3	82	90.	--
AUG 20, 75	1425	1	.3	47000	29.5	8.2	8.1	129	10.	124
			1.5	47000	29.0	8.2	7.6	119	10.	--
			4.0	50000	29.2	8.1	7.1	113	15.	--
OCT 16, 74	1235	2	.3	35000	22.0	8.5	9.0	115	30.	51
			1.8	35000	21.8	8.5	8.8	113	30.	--
FEB 11, 75	1650	2	.3	34000	15.2	8.5	8.3	93	10.	224
			1.5	34000	15.1	8.4	8.2	92	10.	--
			3.0	34000	14.6	8.4	7.7	86	25.	--
			4.0	33000	14.7	8.4	7.4	82	70.	--
AUG 20, 75	1400	2	.3	44000	29.2	8.2	7.2	112	0.	102
			1.5	50000	28.8	8.1	6.8	108	15.	--
			3.7	50000	28.9	8.1	5.9	94	10.	--
FEB 11, 75	1745	3	.3	34000	14.4	8.4	8.1	89	10.	--
			1.5	35000	14.2	8.4	7.4	82	15.	--
			3.0	35000	14.2	8.4	7.4	82	20.	--
			3.7	34000	14.4	8.3	7.3	80	35.	--
AUG 20, 75	1225	3	.3	39000	29.0	8.3	6.7	100	45.	178
			1.5	39000	28.8	8.2	6.5	97	40.	--
			3.7	39000	28.5	8.2	5.7	84	70.	--
OCT 16, 74	1100	4	.3	30000	20.2	8.4	10.5	128	90.	46
			2.1	30000	20.0	8.4	10.1	123	80.	--
FEB 11, 75	1815	4	.3	35000	14.6	8.2	8.5	96	15.	110
			1.2	35000	14.8	8.2	8.7	99	15.	--
APR 10, 75	1615	4	.3	33000	21.1	8.1	7.5	95	30.	48
			2.1	33000	21.1	8.1	7.1	90	25.	--
JUN 11, 75	0935	4	.3	18000	25.9	8.2	8.1	105	50.	50
			1.5	18000	25.9	8.2	7.5	97	75.	--
			2.7	18000	25.9	8.1	7.0	91	120.	--
AUG 20, 75	1200	4	.3	32000	28.2	8.3	5.8	83	60.	58
			2.1	32000	28.0	8.3	5.7	81	100.	--
					LINE 382					
OCT 16, 74	1325	2	.3	34000	21.4	8.4	8.4	106	30.	51
			1.5	38000	22.2	8.5	8.8	114	40.	--
			3.7	38000	22.5	8.4	8.8	116	30.	--
FEB 11, 75	1505	2	.3	34000	15.4	8.3	8.4	95	10.	247
			3.0	34000	15.6	8.3	8.4	94	10.	--

TABLE 5A--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 382 CONTINUED						
FEB 11, 75	1505	2	4.3	34000	15.6	8.3	8.5	96	10.	--
APR 15, 75	0915	2	.5	38000	19.0	--	8.1	100	20.	54
			1.5	38000	19.0	--	8.5	105	15.	--
			3.4	38000	18.9	--	8.5	105	40.	--
AUG 20, 75	1545	2	.3	50000	29.5	8.2	10.9	176	35.	163
			1.5	50000	29.0	8.2	12.4	197	30.	--
			3.0	50000	29.0	8.2	10.9	173	30.	--
			7.9	50000	28.4	8.2	10.2	159	10.	--
				LINE 903						
OCT 16, 74	1255	49	.3	34000	22.0	8.4	8.5	109	30.	38
			1.5	35000	21.2	8.4	8.1	104	35.	--
			3.0	35000	21.2	8.4	8.0	103	35.	--
			6.1	35000	21.2	8.4	8.1	104	45.	--
			9.1	37000	21.3	8.4	8.0	103	55.	--
			14.0	43000	22.0	8.4	8.3	111	60.	--
FEB 11, 75	1600	49	.3	35000	16.5	8.3	8.2	95	5.	230
			3.0	37000	15.9	8.3	8.2	95	10.	--
			6.1	38000	15.9	8.2	6.6	77	10.	--
			11.3	39000	16.2	8.2	5.4	63	120.	--
AUG 20, 75	1500	49	.3	54000	29.0	8.2	10.0	161	10.	--
			1.5	54000	28.5	8.3	10.4	168	15.	--
			3.0	54000	28.5	8.3	11.9	192	10.	--
			6.1	54000	28.2	8.2	11.3	179	15.	--
			9.1	54000	28.0	8.0	6.3	100	20.	--
			11.6	54000	28.0	7.9	5.3	84	25.	--

TABLE 5B--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 17						
FEB 11, 75	1225	2	.3	20.0	.73	.06	.00	--	.12	.9	0	7.8
APR 10, 75	1610	2	.3	12.0	.85	.06	.04	--	.20	4.2	0	15.0
			3.4	13.0	.79	.06	.04	--	.38	6.0	0	21.0
JUN 09, 75	1515	2	.3	25.0	.24	.00	.00	--	.10	2.7	0	14.0
AUG 19, 75	1725	2	.3	26.0	.00	.00	.00	--	.08	4.1	3	--
						LINE 22						
FEB 11, 75	1150	2	.3	18.0	.36	.03	.00	--	.07	1.0	1	12.0
APR 10, 75	1545	2	.3	11.0	.77	.23	.06	--	.28	6.3	0	19.0
			3.7	11.0	.61	.18	.06	--	.29	6.1	0	16.0
JUN 09, 75	1535	2	.3	22.0	.37	.01	.06	--	.11	2.4	0	12.0
AUG 19, 75	1755	2	.3	27.0	.00	.01	.00	--	.14	5.9	3	--
						LINE 65						
OCT 16, 74	0930	2	.3	--	.00	.00	.01	--	.06	2.0	0	6.2
FEB 11, 75	1305	2	.3	--	.43	.05	.01	--	.13	1.7	--	--
			4.0	--	.05	.05	.01	--	.07	1.0	--	--
APR 10, 75	1645	2	.3	--	.31	.13	.01	--	.09	2.3	4	6.8
			4.0	--	.01	.18	.00	--	.07	2.0	0	4.2
JUN 09, 75	1440	2	.3	--	.17	.03	.02	--	.12	2.5	--	--
			3.4	--	.17	.04	.01	--	.12	1.8	--	--
AUG 19, 75	1650	2	.3	--	.00	.00	.00	--	.09	3.3	--	--
			3.0	--	.00	.01	.00	--	.09	1.9	--	--
						LINE 85						
OCT 16, 74	1015	3	.3	--	.03	.10	.01	--	.13	1.4	0	13.0
			1.7	--	.01	.04	.00	--	.11	1.5	0	8.0
FEB 11, 75	1345	3	.3	--	.00	.00	.01	--	.05	1.8	--	--
JUN 09, 75	1345	3	.3	--	.22	.01	.01	--	.21	2.2	--	--
AUG 19, 75	1610	3	.3	16.0	.00	.00	.00	--	.14	1.7	3	--
						LINE 102						
OCT 16, 74	0840	2	.3	--	.00	.12	.01	--	.07	1.3	0	23.0
			10.4	--	.01	.05	.01	--	.14	1.9	0	6.8
FEB 11, 75	1700	2	.3	--	.00	.05	.00	--	.05	1.4	--	--
			11.0	--	.00	.04	.01	--	.07	--	--	--
APR 09, 75	1445	2	.3	--	.00	.02	.01	--	.04	1.6	0	4.4
			10.7	--	.00	.16	.00	--	.11	1.4	0	--
JUN 09, 75	1615	2	.5	--	.00	.00	.01	--	.10	2.8	--	--
			10.7	--	.02	.19	.05	--	.10	1.1	--	--
AUG 19, 75	1450	2	.3	--	.00	.00	.00	--	.09	1.0	3	--

TABLE 5B--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 102 CONTINUED						
AUG 19, 75	1450	2	10.4	--	.00	.20	.01	--	.10	1.7	2	--
						LINE 110						
OCT 16, 74	0805	2	.3	--	.00	.79	.01	--	.44	2.6	2	7.8
			3.4	--	.00	.05	.00	--	.09	1.9	20	--
FEB 11, 75	1740	2	.3	--	.04	.98	.01	--	.46	2.1	--	--
			4.0	--	.00	.01	.00	--	.06	.8	--	--
APR 09, 75	1340	2	.3	--	.01	.35	.00	--	.22	1.7	0	4.7
			3.7	--	.01	.21	.00	--	.14	1.4	0	4.2
JUN 09, 75	1715	2	.3	--	.06	.15	.02	--	.22	4.4	--	--
			3.7	--	.07	.32	.02	--	.22	2.8	--	--
						LINE 143						
OCT 16, 74	0950	3	.3	--	.00	.04	.00	--	.09	1.9	0	5.6
			1.5	--	.00	.03	.00	--	.09	1.9	0	5.4
FEB 11, 75	1635	3	.3	--	.00	.00	.00	--	.07	1.5	0	--
			1.8	--	.01	.05	.00	--	.06	1.3	0	--
APR 09, 75	1555	3	.3	--	.00	.01	.00	--	.04	1.5	0	--
			1.5	--	.00	.01	.00	--	.07	1.7	0	--
JUN 09, 75	1500	3	.5	--	.00	.00	.01	--	.10	2.2	5	19.0
			2.0	--	.00	.01	.01	--	.13	2.6	5	--
AUG 19, 75	1435	3	1.8	7.6	.00	.02	.01	--	.09	2.0	7	--
						LINE 150						
OCT 16, 74	0900	4	.3	7.9	.00	.01	.00	--	.07	1.8	0	5.0
			10.4	1.5	.00	.02	.01	--	.08	1.5	0	3.0
FEB 11, 75	1515	4	.3	3.3	.00	.03	.00	--	.09	1.4	1	5.2
			12.2	1.0	.00	.12	.00	--	.13	.8	0	9.4
APR 09, 75	1510	4	.5	3.1	.01	.08	.00	--	.05	1.7	0	3.7
			11.0	--	.00	.03	.00	--	.05	1.1	0	--
JUN 09, 75	1550	4	.5	5.7	.00	.96	.01	--	.07	2.3	4	12.0
			10.4	2.9	.02	.15	.05	--	.08	1.5	2	9.0
AUG 19, 75	1220	4	.3	8.9	.00	.00	.00	--	.09	1.7	5	--
			10.7	3.0	.00	.00	.00	--	.06	1.9	2	--
						LINE 175						
OCT 16, 74	1020	1	.3	--	.00	.00	.00	--	.06	2.8	0	6.2
			1.5	--	.00	.02	.00	--	.07	3.1	--	7.6
FEB 11, 75	1600	1	.3	--	.01	.03	.00	--	.01	1.6	--	--
			1.5	--	.01	.06	.00	--	.02	1.8	--	--
APR 09, 75	1645	1	.3	--	.00	.01	.00	--	.03	1.3	0	--
			1.5	--	.00	.01	.01	--	.03	1.4	--	--
JUN 09, 75	1430	1	.3	--	.00	.01	.01	--	.08	2.1	--	--
			1.5	--	.00	.00	.01	--	.08	2.5	--	--
AUG 19, 75	1405	1	.3	7.8	.00	.00	.00	--	.06	1.1	3	--
						LINE 190						
FEB 11, 75	1120	2	.3	--	.00	.01	.00	--	.02	--	--	--

TABLE 58--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SiO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 190 CONTINUED						
JUN 10, 75	1055	2	.3	--	.02	.00	.01	--	.06	2.2	--	7.8
			1.4	--	.00	.01	.01	--	.06	1.9	--	9.4
AUG 19, 75	0945	2	.3	--	.00	.01	.00	--	.07	1.4	--	--
						LINE 200						
OCT 16, 74	1135	2	.3	--	.00	.01	.00	--	.06	2.6	0	9.8
			10.4	--	.01	.02	.00	--	.07	1.3	0	2.8
FEB 11, 75	1350	5	.3	--	.00	.01	.00	--	.06	.8	--	6.2
			1.8	--	.00	.04	.00	--	.03	1.1	--	--
AUG 20, 75	1300	5	.3	--	.00	.01	.00	--	.08	2.2	0	--
						LINE 224						
APR 10, 75	1225	2	.3	7.2	.00	.01	.01	--	.05	3.4	0	6.1
						LINE 229						
FEB 12, 75	1215	2	.3	4.3	.00	.01	.00	--	.07	1.5	--	5.6
JUN 10, 75	1320	2	.3	7.7	.01	.01	.02	--	.09	3.4	0	9.2
			1.5	--	.02	.00	.01	--	.09	3.1	--	--
AUG 20, 75	1640	2	.3	--	.00	.01	.00	--	.08	2.5	5	--
						LINE 247						
FEB 12, 75	1135	6	1.4	--	.00	.02	.00	--	.10	--	--	5.1
JUN 10, 75	1220	6	.3	4.6	.00	.02	.01	--	.12	2.5	--	8.3
			1.5	4.8	.00	.00	.01	--	.19	2.9	--	--
						LINE 254						
OCT 15, 74	1450	2	.9	23.0	.00	.06	.00	--	.13	2.2	0	--
APR 10, 75	1050	2	.3	11.0	1.50	.00	.08	--	.17	2.4	0	6.5
			3.4	8.8	.31	.09	.06	--	.19	4.4	0	4.4
AUG 20, 75	1510	2	.3	25.0	.00	.00	.00	--	.16	3.1	5	--
			3.0	--	.01	.08	.00	--	.18	1.7	0	--
						LINE 264						
OCT 15, 74	1500	2	.9	--	.00	.01	.00	--	.22	5.2	0	14.0
FEB 12, 75	1510	2	.3	--	.00	.02	.00	--	.04	1.7	--	4.1
APR 10, 75	1025	2	.3	--	.00	.01	.01	--	.05	1.5	0	4.2
AUG 20, 75	1420	2	.3	--	.00	.01	.00	--	.08	1.5	9	--
						LINE 270						
FEB 12, 75	1600	2	.3	--	.01	.04	.00	--	.04	1.5	--	--
			4.3	--	.01	.04	.00	--	.07	1.0	--	--
APR 10, 75	1100	2	.3	--	.01	.07	.01	--	.06	.8	0	3.6
			4.0	--	.00	.02	.00	--	.05	.8	0	--

TABLE 5B--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 270 CONTINUED						
AUG 20, 75	0945	2	.3	--	.00	.01	.00	--	.10	2.3	1	--
			3.4	--	.00	.04	.00	--	.10	1.2	0	--
						LINE 284						
OCT 14, 74	1245	1	.3	--	.00	.00	.01	--	.06	2.3	0	--
			1.5	--	.01	.00	.00	--	.07	2.5	0	23.0
FEB 12, 75	1650	1	.3	--	.00	.01	.00	--	.04	1.4	--	4.2
APR 10, 75	1120	1	.3	--	.00	.01	.01	--	.05	.5	0	3.0
			1.2	--	.00	.01	.00	--	.05	.5	0	3.4
AUG 20, 75	1010	1	.3	--	.00	.01	.00	--	.07	1.3	0	--
			1.2	--	.00	.01	.00	--	.08	1.9	--	--
						LINE 300						
OCT 14, 74	1330	3	.3	--	.00	.00	.00	--	.06	1.9	0	24.0
			1.8	--	.00	.00	.01	--	.07	2.1	0	--
FEB 12, 75	1710	3	.3	--	.00	.01	.00	--	.06	--	--	3.3
			.5	--	--	--	--	--	--	1.6	--	--
			1.5	--	.01	.02	.00	--	.03	1.2	--	3.7
APR 10, 75	1230	3	.3	--	.00	.01	.02	--	.06	1.2	0	2.8
			1.5	--	.00	.01	.00	--	.06	.9	0	3.2
AUG 20, 75	1115	3	.3	--	.01	.01	.00	--	.07	1.2	0	--
			1.8	--	.00	.03	.00	--	.08	1.0	--	--
						LINE 333						
FEB 12, 75	1445	1	.5	7.4	.50	.05	.01	--	.11	1.1	--	4.7
			1.4	7.3	.49	.05	.01	--	.16	1.0	--	4.4
APR 09, 75	1425	1	.3	.8	.00	.01	.01	--	.06	2.7	0	3.4
			1.5	.9	.00	.01	.03	--	.16	3.3	0	5.1
AUG 20, 75	1105	1	.3	7.3	.00	.00	.00	--	.12	6.0	0	--
			1.5	--	.00	.01	.00	--	.26	8.1	--	--
FEB 12, 75	1355	3	.3	--	.09	.02	.01	--	.05	--	--	5.6
			.9	--	.09	.02	.00	--	.06	--	--	6.7
AUG 20, 75	1205	3	.3	--	.00	.00	.00	--	.08	1.6	0	--
						LINE 350						
FEB 12, 75	1535	2	.5	--	.00	.01	.00	--	.05	2.3	--	4.3
			2.7	--	.00	.04	.00	--	.10	1.6	--	3.4
AUG 19, 75	1325	2	.3	--	.00	.01	.00	--	.06	.9	1	--
			3.0	--	.00	.02	.00	--	.11	1.1	0	--
OCT 14, 74	1440	3	.3	--	.00	.00	.00	--	.07	2.4	0	4.0
			2.1	--	.00	.00	.00	--	.06	1.8	0	--
APR 10, 75	1345	3	.3	--	.00	.00	.00	--	.06	1.1	0	3.5
			2.1	--	.00	.00	.00	--	.06	1.7	0	3.2
						LINE 363						
OCT 14, 74	1545	1	.3	2.8	.00	.00	.01	--	.06	1.7	0	--

TABLE 58--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
					LINE 363 CONTINUED							
OCT 14, 74	1545	1	2.4	2.8	.00	.00	.00	--	.06	1.7	0	3.0
FEB 12, 75	1235	1	.3	1.3	.01	.01	.00	--	.05	1.6	--	3.1
			2.3	1.1	.01	.03	.00	--	.13	1.5	--	3.5
APR 10, 75	1430	1	.3	--	.00	.01	.00	--	.05	.9	0	2.7
			1.5	--	.00	.02	.00	--	.05	1.1	0	2.6
AUG 19, 75	1205	1	.3	--	.00	.02	.00	--	.33	8.2	0	--
			2.3	--	.00	.00	.00	--	.08	2.1	12	--
OCT 14, 74	1625	5	.3	--	.00	.00	.00	--	.06	2.0	0	3.8
			3.7	--	.00	.01	.01	--	.13	1.7	0	--
APR 10, 75	1525	5	.3	--	.00	.00	.00	--	.03	1.0	2	3.3
			3.0	--	.01	.01	.00	--	.03	.6	0	2.5
FEB 12, 75	1020	6	.6	--	.00	.01	.00	--	.04	1.1	--	3.8
			3.4	--	.00	.01	.00	--	.05	1.2	--	5.2
AUG 19, 75	1045	6	.3	--	.00	.00	.00	--	.05	1.2	1	--
			2.6	--	.01	.02	.00	--	.06	.6	4	--
					LINE 375							
OCT 16, 74	1235	2	.3	--	.00	.00	.00	--	.07	2.0	0	3.4
FEB 11, 75	1650	2	.3	--	.01	.03	.00	--	.05	1.8	--	4.2
			4.0	--	.02	.04	.00	--	.14	1.2	--	5.7
AUG 20, 75	1400	2	.3	--	.00	.00	.00	--	.05	.9	0	--
			3.7	--	.20	.02	.00	--	.15	4.6	0	--
FEB 11, 75	1815	4	.3	--	.00	.01	.00	--	.05	--	--	4.3
			1.2	--	.01	.01	.00	--	.05	--	--	3.9
JUN 11, 75	0935	4	.3	--	.00	.03	.01	--	.06	1.6	--	7.0
			2.7	--	.00	.04	.01	--	.14	1.7	--	--
					LINE 382							
FEB 11, 75	1505	2	.3	--	.01	.05	.00	--	.07	--	--	3.3
			4.3	--	.01	.03	.00	--	.07	--	--	3.3
					LINE 903							
OCT 16, 74	1255	49	.3	3.9	--	--	--	--	--	--	0	8.0
			14.0	2.1	--	--	--	--	--	--	0	2.2
FEB 11, 75	1600	49	.3	1.1	.01	.04	.00	--	.06	1.2	--	--
			11.3	1.8	.02	.06	.00	--	.14	1.0	--	--
AUG 20, 75	1500	49	.3	.5	.01	.00	.00	--	.05	1.3	0	--
			11.6	--	.00	.05	.00	--	.12	5.2	5	--

TABLE 5C--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 17						
FEB 11, 75	1225	2	.3	758	85.0	6.5	65	4.0	261	31	100	441
APR 10, 75	1610	2	.3	481	48.0	3.3	41	4.4	122	24	65	258
			3.4	478	48.0	3.0	40	4.4	123	25	65	259
JUN 09, 75	1515	2	.3	689	93.0	5.5	37	2.9	310	17	52	386
AUG 19, 75	1725	2	.3	569	68.0	6.7	44	5.1	224	16	62	339
						LINE 22						
FEB 11, 75	1150	2	.3	498	65.0	4.6	36	4.0	214	16	51	301
APR 10, 75	1545	2	.3	346	38.0	3.7	24	4.5	108	14	39	188
			3.7	346	38.0	3.5	24	4.6	109	13	39	187
JUN 09, 75	1535	2	.3	541	69.0	5.0	30	3.0	229	12	42	296
AUG 19, 75	1755	2	.3	492	49.0	7.8	37	7.0	177	14	58	287
						LINE 65						
OCT 16, 74	0930	2	.3	1030	--	--	--	--	--	--	--	--
FEB 11, 75	1305	2	.3	2200	--	--	--	--	--	--	--	--
			4.0	18200	--	--	--	--	--	--	--	--
APR 10, 75	1645	2	.3	3620	--	--	--	--	--	--	--	--
			4.0	27500	--	--	--	--	--	--	--	--
JUN 09, 75	1440	2	.3	971	--	--	--	--	--	--	--	--
			3.4	1050	--	--	--	--	--	--	--	--
AUG 19, 75	1650	2	.3	1810	--	--	--	--	--	--	--	--
			3.0	1670	--	--	--	--	--	--	--	--
						LINE 85						
OCT 16, 74	1015	3	.3	8150	--	--	--	--	--	--	--	--
			1.7	9000	--	--	--	--	--	--	--	--
FEB 11, 75	1345	3	.3	21600	--	--	--	--	--	--	--	--
JUN 09, 75	1345	3	.3	1440	--	--	--	--	--	--	--	--
AUG 19, 75	1610	3	.3	10000	99.0	190.0	1800	71.0	172	450	3000	5710
						LINE 102						
OCT 16, 74	0840	2	.3	34000	--	--	--	--	--	--	--	--
			10.4	40400	--	--	--	--	--	--	--	--
FEB 11, 75	1700	2	.3	33400	--	--	--	--	--	--	--	--
APR 09, 75	1445	2	.3	35000	--	--	--	--	--	--	--	--
			10.7	35000	--	--	--	--	--	--	--	--
JUN 09, 75	1615	2	.5	8340	--	--	--	--	--	--	--	--
			10.7	29800	--	--	--	--	--	--	--	--
AUG 19, 75	1450	2	.3	23600	--	--	--	--	--	--	--	--
			10.4	46600	--	--	--	--	--	--	--	--

TABLE 5C--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (LAB)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
						LINE 110						
OCT 16, 74	0805	2	.3	19100	--	--	--	--	--	--	--	--
			3.4	21600	--	--	--	--	--	--	--	--
FEB 11, 75	1740	2	.3	29300	--	--	--	--	--	--	--	--
			4.0	33900	--	--	--	--	--	--	--	--
APR 09, 75	1340	2	.3	30000	--	--	--	--	--	--	--	--
			3.7	31000	--	--	--	--	--	--	--	--
JUN 09, 75	1715	2	.3	3060	--	--	--	--	--	--	--	--
			3.7	9550	--	--	--	--	--	--	--	--
						LINE 143						
OCT 16, 74	0950	3	.3	22900	--	--	--	--	--	--	--	--
			1.5	22700	--	--	--	--	--	--	--	--
FEB 11, 75	1635	3	.3	31200	--	--	--	--	--	--	--	--
			1.8	32000	--	--	--	--	--	--	--	--
APR 09, 75	1555	3	.3	34700	--	--	--	--	--	--	--	--
			1.5	34500	--	--	--	--	--	--	--	--
JUN 09, 75	1500	3	.5	10600	--	--	--	--	--	--	--	--
			2.0	10700	--	--	--	--	--	--	--	--
AUG 19, 75	1435	3	1.8	29000	250.0	700.0	5600	200.0	156	1300	9800	17900
						LINE 150						
OCT 16, 74	0900	4	.3	23600	180.0	610.0	4800	190.0	132	1300	8300	15500
			10.4	43200	320.0	1000.0	8800	360.0	144	2200	15000	27800
FEB 11, 75	1515	4	.3	24600	200.0	600.0	5200	200.0	154	1300	9000	16600
			12.2	33500	270.0	860.0	7000	280.0	144	1500	13000	23000
APR 09, 75	1510	4	.5	31900	260.0	730.0	6300	290.0	152	1600	11000	20300
			11.0	34500	--	--	--	--	--	--	--	--
JUN 09, 75	1550	4	.5	12700	100.0	260.0	2200	85.0	123	500	3900	7110
			10.4	33200	260.0	830.0	7000	260.0	138	1700	13000	23100
AUG 19, 75	1220	4	.3	26300	240.0	670.0	5000	190.0	156	1200	9300	16700
			10.7	48800	440.0	1300.0	9900	360.0	156	2500	18000	32600
						LINE 175						
OCT 16, 74	1020	1	.3	22800	--	--	--	--	--	--	--	--
			1.5	23100	--	--	--	--	--	--	--	--
FEB 11, 75	1600	1	.3	31200	--	--	--	--	--	--	--	--
			1.5	30900	--	--	--	--	--	--	--	--
APR 09, 75	1645	1	.3	34700	--	--	--	--	--	--	--	--
			1.5	34600	--	--	--	--	--	--	--	--
JUN 09, 75	1430	1	.3	17600	--	--	--	--	--	--	--	--
			1.5	21400	--	--	--	--	--	--	--	--
AUG 19, 75	1405	1	.3	29200	310.0	690.0	5600	200.0	160	1300	10000	18200
						LINE 190						
JUN 10, 75	1055	2	.3	17400	--	--	--	--	--	--	--	--

TABLE 5C--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS-SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 190 CONTINUED						
JUN 10, 75	1055	2	1.4	17300	--	--	--	--	--	--	--	--
AUG 19, 75	0945	2	.3	34900	--	--	--	--	--	--	--	--
						LINE 200						
OCT 16, 74	1135	2	.3	25900	--	--	--	--	--	--	--	--
			10.4	39600	--	--	--	--	--	--	--	--
AUG 20, 75	1245	2	.3	39200	--	--	--	--	--	--	--	--
			11.0	51800	--	--	--	--	--	--	--	--
FEB 11, 75	1350	5	.3	30900	--	--	--	--	--	--	--	--
			1.8	30800	--	--	--	--	--	--	--	--
AUG 20, 75	1300	5	.3	41600	--	--	--	--	--	--	--	--
						LINE 224						
APR 10, 75	1225	2	.3	20700	200.0	490.0	4000	160.0	184	930	7300	13200
						LINE 229						
FEB 12, 75	1215	2	.3	22200	200.0	550.0	4700	180.0	142	1100	8400	15200
JUN 10, 75	1320	2	.3	9500	67.0	180.0	1600	65.0	120	380	2700	5060
			1.5	9600	--	--	--	--	--	--	--	--
AUG 20, 75	1640	2	.3	13700	--	--	--	--	--	--	--	--
						LINE 247						
JUN 10, 75	1220	6	.3	20900	170.0	490.0	3800	150.0	151	930	6800	12400
			1.5	21000	100.0	500.0	3800	160.0	150	960	6800	12400
						LINE 254						
OCT 15, 74	1450	2	.9	3850	79.0	91.0	650	26.0	208	170	1200	2340
APR 10, 75	1050	2	.3	4470	92.0	110.0	820	31.0	240	210	1500	2890
			3.4	13900	150.0	310.0	2600	98.0	244	680	4600	8570
AUG 20, 75	1510	2	.3	728	38.0	14.0	70	10.0	172	24	96	362
			3.0	611	--	--	--	--	--	--	--	--
						LINE 264						
OCT 15, 74	1500	2	.9	20300	--	--	--	--	--	--	--	--
FEB 12, 75	1510	2	.3	25800	--	--	--	--	--	--	--	--
APR 10, 75	1025	2	.3	28100	--	--	--	--	--	--	--	--
AUG 20, 75	1420	2	.3	18900	--	--	--	--	--	--	--	--
						LINE 270						
FEB 12, 75	1600	2	.3	30900	--	--	--	--	--	--	--	--
			4.3	30900	--	--	--	--	--	--	--	--
APR 10, 75	1100	2	.3	31500	--	--	--	--	--	--	--	--
			4.0	33800	--	--	--	--	--	--	--	--

TABLE 5C--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (LAB)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
						LINE 270 CONTINUED						
AUG 20, 75	0945	2	.3	24800	--	--	--	--	--	--	--	--
			3.4	25700	--	--	--	--	--	--	--	--
						LINE 284						
OCT 14, 74	1245	1	.3	28500	--	--	--	--	--	--	--	--
			1.5	28300	--	--	--	--	--	--	--	--
FEB 12, 75	1650	1	.3	28600	--	--	--	--	--	--	--	--
APR 10, 75	1120	1	.3	30900	--	--	--	--	--	--	--	--
			1.2	30700	--	--	--	--	--	--	--	--
AUG 20, 75	1010	1	.3	27500	--	--	--	--	--	--	--	--
			1.2	34600	--	--	--	--	--	--	--	--
						LINE 300						
OCT 14, 74	1330	3	.3	25900	--	--	--	--	--	--	--	--
			1.8	26600	--	--	--	--	--	--	--	--
FEB 12, 75	1710	3	.5	32100	--	--	--	--	--	--	--	--
			1.5	31700	--	--	--	--	--	--	--	--
APR 10, 75	1230	3	.3	32400	--	--	--	--	--	--	--	--
			1.5	32400	--	--	--	--	--	--	--	--
AUG 20, 75	1115	3	.3	29100	--	--	--	--	--	--	--	--
			1.8	28800	--	--	--	--	--	--	--	--
						LINE 333						
FEB 12, 75	1445	1	.5	7010	97.0	160.0	1300	55.0	175	320	2300	4330
			1.4	7150	100.0	180.0	1400	60.0	175	350	2400	4580
APR 09, 75	1425	1	.3	28600	250.0	670.0	5900	230.0	168	1500	11000	19600
			1.5	29500	250.0	700.0	6000	250.0	169	1400	11000	19700
AUG 20, 75	1105	1	.3	36700	--	--	--	--	172	1800	13000	--
			1.5	39600	--	--	--	--	--	--	--	--
AUG 20, 75	1205	3	.3	27000	--	--	--	--	--	--	--	--
						LINE 350						
FEB 12, 75	1535	2	.5	24600	--	--	--	--	--	--	--	--
			2.7	27100	--	--	--	--	--	--	--	--
AUG 19, 75	1325	2	.3	39500	--	--	--	--	--	--	--	--
			3.0	41100	--	--	--	--	--	--	--	--
OCT 14, 74	1440	3	.3	23500	--	--	--	--	--	--	--	--
			2.1	29300	--	--	--	--	--	--	--	--
APR 10, 75	1345	3	.3	33500	--	--	--	--	--	--	--	--
			2.1	33300	--	--	--	--	--	--	--	--
						LINE 363						
OCT 14, 74	1545	1	.3	38500	250.0	830.0	7500	300.0	146	1900	13000	23900
			2.4	38500	250.0	960.0	7500	300.0	146	1900	13000	24000
FEB 12, 75	1235	1	.3	27500	250.0	760.0	6300	260.0	156	1600	11000	20300
			2.3	28600	240.0	760.0	6300	250.0	157	1600	11000	20200

TABLE 5C--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (LAB)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
						LINE 363 CONTINUED						
APR 10, 75	1430	1	.3	35400	--	--	--	--	--	--	--	--
			1.5	35100	--	--	--	--	--	--	--	--
AUG 19, 75	1205	1	.3	42400	--	--	--	--	--	--	--	--
			2.3	42800	--	--	--	--	--	--	--	--
OCT 14, 74	1625	5	.3	34100	--	--	--	--	--	--	--	--
			3.7	34400	--	--	--	--	--	--	--	--
APR 10, 75	1525	5	.3	33900	--	--	--	--	--	--	--	--
			3.0	34300	--	--	--	--	--	--	--	--
FEB 12, 75	1020	6	.6	34400	--	--	--	--	--	--	--	--
			3.4	33300	--	--	--	--	--	--	--	--
AUG 19, 75	1045	6	.3	35300	--	--	--	--	--	--	--	--
			2.6	35700	--	--	--	--	--	--	--	--
						LINE 375						
OCT 16, 74	1235	2	.3	35200	--	--	--	--	--	--	--	--
FEB 11, 75	1650	2	.3	33300	--	--	--	--	--	--	--	--
			4.0	33900	--	--	--	--	--	--	--	--
AUG 20, 75	1400	2	.3	45100	--	--	--	--	--	--	--	--
			3.7	51200	--	--	--	--	--	--	--	--
JUN 11, 75	0935	4	.3	18300	--	--	--	--	--	--	--	--
			2.7	18300	--	--	--	--	--	--	--	--
						LINE 903						
OCT 16, 74	1255	49	.3	--	230.0	870.0	6500	270.0	150	1500	12000	21400
			14.0	--	270.0	940.0	8100	320.0	148	2000	15000	26700
FEB 11, 75	1600	49	.3	35600	290.0	920.0	7500	310.0	136	2000	14000	25100
			11.3	38900	320.0	1000.0	8500	350.0	142	2000	15000	27200
AUG 20, 75	1500	49	.3	53400	460.0	1400.0	11000	400.0	154	2800	20000	36100
			11.6	54200	--	--	--	--	--	--	--	--

TABLE 50--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 17					
FEB 11, 75	1225	2	.3	--	--	--	--	--	--	--	.5
APR 10, 75	1610	2	.3	--	--	--	--	--	--	--	.4
			3.4	--	--	--	--	--	--	--	.4
JUN 09, 75	1515	2	.3	--	--	--	--	--	--	--	.4
AUG 19, 75	1725	2	.3	--	--	--	--	--	--	--	.4
						LINE 22					
FEB 11, 75	1150	2	.3	--	--	--	--	--	--	--	.4
APR 10, 75	1545	2	.3	--	--	--	--	--	--	--	.4
			3.7	--	--	--	--	--	--	--	.3
JUN 09, 75	1535	2	.3	--	--	--	--	--	--	--	.3
AUG 19, 75	1755	2	.3	--	--	--	--	--	--	--	.4
						LINE 65					
OCT 16, 74	0930	2	.3	30	5	--	--	0	--	--	--
						LINE 85					
OCT 16, 74	1015	3	.3	30	3	2	--	0	0	--	--
AUG 19, 75	1610	3	.3	--	--	--	--	--	--	--	.7
						LINE 102					
OCT 16, 74	0840	2	.3	30	1	1	--	0	0	--	--
			10.4	30	1	1	--	0	0	--	--
						LINE 110					
OCT 16, 74	0805	2	.3	50	1	--	--	1	--	--	--
						LINE 143					
OCT 16, 74	0950	3	.3	40	2	2	--	0	0	--	--
AUG 19, 75	1435	3	1.8	--	--	--	--	--	--	--	1.1
						LINE 150					
OCT 16, 74	0900	4	.3	340	2	2	--	1	0	--	--
			10.4	40	0	--	--	1	--	--	--
FEB 11, 75	1515	4	.3	--	--	--	--	--	--	--	1.0
			12.2	--	--	--	--	--	--	--	1.2
APR 09, 75	1510	4	.5	--	--	--	--	--	--	--	1.1
JUN 09, 75	1550	4	.5	--	--	--	--	--	--	--	.4
			10.4	--	--	--	--	--	--	--	1.4
AUG 19, 75	1220	4	.3	--	--	--	--	--	--	--	1.0

TABLE 5D--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 15C CONTINUED					
AUG 19, 75	1220	4	10.7	--	--	--	--	--	--	--	1.4
						LINE 175					
OCT 16, 74	1020	1	.3	40	1	--	--	1	--	--	--
AUG 19, 75	1405	1	.3	--	--	--	--	--	--	--	1.1
						LINE 200					
OCT 16, 74	1135	2	.3	10	1	2	--	0	0	--	--
						LINE 224					
APR 10, 75	1225	2	.3	--	--	--	--	--	--	--	.7
						LINE 229					
FEB 12, 75	1215	2	.3	--	--	--	--	--	--	--	.9
JUN 10, 75	1320	2	.3	--	--	--	--	--	--	--	.6
						LINE 247					
JUN 10, 75	1220	6	.3	--	--	--	--	--	--	--	.7
			1.5	--	--	--	--	--	--	--	.8
						LINE 254					
OCT 15, 74	1450	2	.9	80	3	--	--	1	--	--	--
APR 10, 75	1050	2	.3	--	--	--	--	--	--	--	.5
			3.4	--	--	--	--	--	--	--	.7
AUG 20, 75	1510	2	.3	--	--	--	--	--	--	--	.5
						LINE 264					
OCT 15, 74	1500	2	.9	120	1	5	--	2	0	--	--
						LINE 333					
FEB 12, 75	1445	1	.5	--	--	--	--	--	--	--	.5
			1.4	--	--	--	--	--	--	--	.5
APR 09, 75	1425	1	.3	--	--	--	--	--	--	--	.9
			1.5	--	--	--	--	--	--	--	1.0
AUG 20, 75	1105	1	.3	--	--	--	--	--	--	--	1.1
						LINE 350					
OCT 14, 74	1440	3	.3	30	1	2	--	1	0	--	--
						LINE 363					
OCT 14, 74	1545	1	.3	40	1	--	--	2	--	--	--
FEB 12, 75	1235	1	.3	--	--	--	--	--	--	--	1.1

TABLE 50--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
					LINE 363 CONTINUED						
FEB 12, 75	1235	1	2.3	--	--	--	--	--	--	--	1.1
OCT 14, 74	1625	5	.3	30	1	1	--	--	0	--	--
						LINE 375					
OCT 16, 74	1235	2	.3	60	2	--	--	1	--	--	--
						LINE 903					
OCT 16, 74	1255	49	.3	160	2	--	--	--	--	--	--
FEB 11, 75	1600	49	.3	--	--	--	--	--	--	--	1.2
			11.3	--	--	--	--	--	--	--	1.3
AUG 20, 75	1500	49	.3	--	--	--	--	--	--	--	1.5

TABLE 5D--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	BOTTOM DEPOSIT COBALT (CO) (UG/GM)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	BOTTOM DEPOSIT COPPER (CU) (UG/GM)
						LINE 65					
OCT 16, 74	0930	2	.3	5.00	--	0	--	--	4	--	--
						LINE 85					
OCT 16, 74	1015	3	.3	3.00	< 10.00	0	3	--	6	5.0	--
						LINE 102					
OCT 16, 74	0840	2	.3	1.00	< 10.00	0	0	--	4	3.0	--
			10.4	3.00	< 10.00	0	0	--	4	12.0	--
						LINE 110					
OCT 16, 74	0805	2	.3	4.00	--	0	--	--	11	--	--
						LINE 143					
OCT 16, 74	0950	3	.3	3.00	< 10.00	0	3	--	4	4.0	--
						LINE 150					
OCT 16, 74	0900	4	.3	3.00	< 10.00	0	0	--	4	5.0	--
			10.4	1.00	--	0	--	--	3	--	--
						LINE 175					
OCT 16, 74	1020	1	.3	1.00	--	0	--	--	3	--	--
						LINE 200					
OCT 16, 74	1135	2	.3	1.00	< 10.00	0	0	--	3	4.0	--
						LINE 254					
OCT 15, 74	1450	2	.9	3.00	--	0	--	--	5	--	--
						LINE 264					
OCT 15, 74	1500	2	.9	1.00	10.00	0	7	--	6	18.0	--
						LINE 350					
OCT 14, 74	1440	3	.3	1.00	< 10.00	0	0	--	3	5.0	--
						LINE 363					
OCT 14, 74	1545	1	.3	1.00	--	0	--	--	5	--	--
OCT 14, 74	1625	5	.3	1.00	< 10.00	--	3	--	--	6.0	--
						LINE 375					
OCT 16, 74	1235	2	.3	4.00	--	0	--	--	4	--	--
						LINE 903					
OCT 16, 74	1255	49	.3	4.00	--	--	--	--	--	--	--

TABLE 50--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CYANIDE (CN) (MG/L)	BOTTOM DEPOSIT CYANIDE (CN) (UG/GM)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	BOTTOM DEPOSIT IRON (FE) (UG/GM)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	BOTTOM DEPOSIT LEAD (PB) (UG/GM)
						LINE 65					
OCT 16, 74	0930	2	.3	--	--	10	--	--	0	--	--
						LINE 85					
OCT 16, 74	1015	3	.3	--	--	30	480	--	0	0	--
						LINE 102					
OCT 16, 74	0840	2	.3	--	--	90	440	--	0	6	--
			10.4	--	--	90	5700	--	0	4	--
						LINE 110					
OCT 16, 74	0805	2	.3	--	--	60	--	--	0	--	--
						LINE 143					
OCT 16, 74	1000	1	.3	--	--	100	1200	--	0	0	--
						LINE 150					
OCT 16, 74	0900	4	.3	--	--	70	170	--	0	1	--
			10.4	--	--	140	--	--	0	--	--
						LINE 175					
OCT 16, 74	1020	1	.3	--	--	70	--	--	0	--	--
						LINE 200					
OCT 16, 74	1135	2	.3	--	--	60	750	--	2	2	--
						LINE 254					
OCT 15, 74	1450	2	.9	--	--	20	--	--	0	--	--
						LINE 264					
OCT 15, 74	1500	2	.9	--	--	90	5600	--	0	16	--
						LINE 350					
OCT 14, 74	1440	3	.3	--	--	60	650	--	3	3	--
						LINE 363					
OCT 14, 74	1545	1	.3	--	--	90	--	--	2	--	--
OCT 14, 74	1625	5	.3	--	--	80	530	--	--	0	--
						LINE 375					
OCT 16, 74	1235	2	.3	--	--	90	--	--	3	--	--
						LINE 903					
OCT 16, 74	1255	49	.3	--	--	170	--	--	--	--	--

TABLE 50--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED LITH-IUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BOTTOM DEPOSIT MAN-GANESE (MN) (UG/GM)	DIS-SOLVED MER-CURY (HG) (UG/L)	TOTAL MER-CURY (HG) (UG/L)	BOTTOM DEPOSIT MER-CURY (HG) (UG/GM)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
						LINE 65						
OCT 16, 74	0930	2	.3	17	15	--	--	.2	--	--	0	870
						LINE 85						
OCT 16, 74	1015	3	.3	33	35	43	--	.2	.6	--	0	1300
						LINE 102						
OCT 16, 74	0840	2	.3	100	75	98	--	.2	--	--	0	3800
			10.4	120	120	220	--	.1	--	--	2	4200
						LINE 110						
OCT 16, 74	0805	2	.3	58	75	--	--	.2	--	--	2	2400
						LINE 143						
OCT 16, 74	0950	3	.3	17	66	95	--	.1	.5	--	3	2800
						LINE 150						
OCT 16, 74	0900	4	.3	75	54	53	--	.2	.3	--	3	2900
			10.4	130	110	--	--	.1	--	--	2	4600
						LINE 175						
OCT 16, 74	1020	1	.3	75	75	--	--	.2	--	--	0	2900
						LINE 200						
OCT 16, 74	1135	2	.3	83	30	60	--	.6	.4	--	0	3200
						LINE 254						
OCT 15, 74	1450	2	.9	25	40	--	--	.2	--	--	0	850
						LINE 264						
OCT 15, 74	1500	2	.9	67	45	500	--	.5	.7	--	0	2600
						LINE 350						
OCT 14, 74	1440	3	.3	75	65	60	--	.2	.2	--	0	2700
						LINE 363						
OCT 14, 74	1545	1	.3	120	110	--	--	.1	--	--	0	4100
OCT 14, 74	1625	5	.3	100	70	95	--	.5	.5	--	--	3700
						LINE 375						
OCT 16, 74	1235	2	.3	100	81	--	--	.2	--	--	0	3800
						LINE 903						
OCT 16, 74	1255	49	.3	--	97	--	--	.3	--	--	--	--

TABLE 50--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	BOTTOM DEPOSIT ZINC (ZN) (UG/GM)
						LINE 65
OCT 16, 74	0930	2	.3	8	--	--
						LINE 85
OCT 16, 74	1015	3	.3	20	20	--
						LINE 102
OCT 16, 74	0840	2	.3	50	60	--
			10.4	50	80	--
						LINE 110
OCT 16, 74	0805	2	.3	60	--	--
						LINE 143
OCT 16, 74	0950	3	.3	30	50	--
						LINE 150
OCT 16, 74	0900	4	.3	50	50	--
			10.4	80	--	--
						LINE 175
OCT 16, 74	1020	1	.3	40	--	--
						LINE 200
OCT 16, 74	1135	2	.3	40	40	--
						LINE 254
OCT 15, 74	1450	2	.9	30	--	--
						LINE 264
OCT 15, 74	1500	2	.9	30	70	--
						LINE 350
OCT 14, 74	1440	3	.3	40	40	--
						LINE 363
OCT 14, 74	1545	1	.3	60	--	--
OCT 14, 74	1625	5	.3	50	5	--
						LINE 375
OCT 16, 74	1235	2	.3	40	--	--
						LINE 903
OCT 16, 74	1255	49	.3	170	--	--

TABLE 5E--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL ALDRIN (UG/L)	BOTTOM DEPOSIT ALDRIN (UG/KG)	TOTAL CHLOR-DANE (UG/L)	BOTTOM DEPOSIT CHLOR-DANE (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDD (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDE (UG/KG)
						LINE 85					
OCT 16, 74	1015	3	.3	.00	--	.0	--	.00	--	.00	--
			1.7	--	.0	--	.0	--	.0	--	1.2
						LINE 102					
OCT 16, 74	0840	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 110					
OCT 16, 74	0805	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 143					
OCT 16, 74	1000	1	.3	.00	--	.0	--	.00	--	.00	--
						LINE 175					
OCT 16, 74	1020	1	.3	.00	--	.0	--	.00	--	.00	--
						LINE 200					
OCT 16, 74	1135	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 254					
OCT 15, 74	1450	2	.9	--	.0	--	--	--	--	--	--
						LINE 264					
OCT 15, 74	1500	2	.9	.00	.0	.0	.0	.00	1.4	.00	19.0
						LINE 363					
OCT 14, 74	1625	5	.3	.00	--	.0	--	.00	--	.00	--
						LINE 903					
OCT 16, 74	1255	49	.3	.00	--	.0	--	.00	--	.00	--

TABLE 5E--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL DDT (UG/L)	BOTTOM DEPOSIT DDT (UG/KG)	TOTAL DIEL-DRIN (UG/L)	BOTTOM DEPOSIT DIEL-DRIN (UG/KG)	TOTAL ENDRIN (UG/L)	BOTTOM DEPOSIT ENDRIN (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR (UG/KG)
						LINE 85					
OCT 16, 74	1015	3	.3	.00	--	.00	--	.00	--	.00	--
			1.7	--	.0	--	.0	--	.0	--	.0
						LINE 102					
OCT 16, 74	0840	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 110					
OCT 16, 74	0805	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 143					
OCT 16, 74	1000	1	.3	.00	--	.00	--	.00	--	.00	--
						LINE 175					
OCT 16, 74	1020	1	.3	.00	--	.00	--	.00	--	.00	--
						LINE 200					
OCT 16, 74	1135	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 264					
OCT 15, 74	1500	2	.9	.00	1.5	.00	.0	.00	.0	.00	.0
						LINE 363					
OCT 14, 74	1625	5	.3	.00	--	.00	--	.00	--	.00	--
						LINE 903					
OCT 16, 74	1255	49	.3	.00	--	.00	--	.00	--	.00	--

TABLE 5E--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR EPOXIDE (UG/KG)	TOTAL LINDANE (UG/L)	BOTTOM DEPOSIT LINDANE (UG/KG)	TOTAL PARA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL DIAZ-INON (UG/L)
						LINE 85					
OCT 16, 74	1015	3	.3	.00	--	.00	--	.00	.00	.00	.00
			1.7	--	.0	--	.0	--	--	--	--
						LINE 102					
OCT 16, 74	0840	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 110					
OCT 16, 74	0805	2	.3	.00	--	.00	--	.00	.00	.03	.00
						LINE 143					
OCT 16, 74	1000	1	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 175					
OCT 16, 74	1020	1	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 200					
OCT 16, 74	1135	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 264					
OCT 15, 74	1500	2	.9	.00	.0	.00	.0	.00	.00	.00	.01
						LINE 363					
OCT 14, 74	1625	5	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 903					
OCT 16, 74	1255	49	.3	.00	--	.00	--	.00	.00	.00	.00

TABLE 5E--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL PCB (UG/L)	BOTTOM DEPOSIT PCB (UG/KG)	TOTAL 2,4-D (UG/L)	BOTTOM DEPOSIT 2,4-D (UG/KG)	TOTAL 2,4,5-T (UG/L)	BOTTOM DEPOSIT 2,4,5-T (UG/KG)	TOTAL SILVEX (UG/L)	BOTTOM DEPOSIT SILVEX (UG/KG)
						LINE 85					
OCT 16, 74	1015	3	.3	.0	--	.00	--	.00	--	.00	--
			1.7	--	.0	--	--	--	--	--	--
						LINE 102					
OCT 16, 74	0840	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 110					
OCT 16, 74	0805	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 143					
OCT 16, 74	1000	1	.3	.0	--	.00	--	.00	--	.00	--
						LINE 150					
OCT 16, 74	0930	1	.3	--	--	.00	--	.00	--	.00	--
OCT 16, 74	0900	4	10.4	--	--	--	.0	--	.0	--	--
						LINE 175					
OCT 16, 74	1020	1	.3	.0	--	.00	--	.00	--	.00	--
						LINE 200					
OCT 16, 74	1135	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 264					
OCT 15, 74	1500	2	.9	.0	.0	.00	--	.00	--	.00	--
						LINE 363					
OCT 14, 74	1625	5	.3	.0	--	.00	--	.00	--	.00	--
						LINE 503					
OCT 16, 74	1255	49	.3	.0	--	.00	--	.00	--	.00	--

TABLE 5E--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL TOXAPHENE (UG/L)	BOTTOM DEPOSIT TOXAPHENE (UG/KG)	TOTAL ETHION (UG/L)	BOTTOM DEPOSIT ETHION (UG/KG)	TOTAL METHYL TRITHION (UG/L)	BOTTOM DEPOSIT METHYL TRITHION (UG/KG)	TOTAL TRITHION (UG/L)	BOTTOM DEPOSIT TRITHION (UG/KG)
						LINE 65					
OCT 16, 74	1015	3	.3	.0	--	--	--	--	--	--	--
			1.7	--	0.	--	--	--	--	--	--
						LINE 102					
OCT 16, 74	0840	2	.3	.0	--	--	--	--	--	--	--
						LINE 110					
OCT 16, 74	0805	2	.3	.0	--	--	--	--	--	--	--
						LINE 143					
OCT 16, 74	1000	1	.3	.0	--	--	--	--	--	--	--
						LINE 175					
OCT 16, 74	1020	1	.3	.0	--	--	--	--	--	--	--
						LINE 200					
OCT 16, 74	1135	2	.3	.0	--	--	--	--	--	--	--
						LINE 264					
OCT 15, 74	1500	2	.9	.0	0.	--	--	--	--	--	--
						LINE 363					
OCT 14, 74	1625	5	.3	.0	--	--	--	--	--	--	--
						LINE 903					
OCT 16, 74	1255	49	.3	.0	--	--	--	--	--	--	--

TABLE 5F--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
						LINE 17	
FEB 11, 75	1225	2	.3	--	--	--	.00
JUN 09, 75	1515	2	.3	--	23	52	.40
AUG 19, 75	1725	2	.3	--	--	44	3.20
						LINE 22	
FEB 11, 75	1150	2	.3	--	--	--	1.00
APR 10, 75	1545	2	.3	--	--	--	.00
JUN 09, 75	1535	2	.3	280	40	200	1.00
AUG 19, 75	1755	2	.3	80	--	36	5.40
						LINE 65	
OCT 16, 74	0930	2	.3	--	*	130	--
FEB 11, 75	1305	2	.3	--	--	--	1.60
APR 10, 75	1645	2	.3	--	600	650	.00
JUN 09, 75	1440	2	.3	20	4	12	1.00
AUG 19, 75	1650	2	.3	--	--	30	3.10
						LINE 85	
OCT 16, 74	1015	3	.3	--	*	4	--
FEB 11, 75	1345	3	.3	--	--	--	1.10
JUN 09, 75	1345	3	.3	--	80	93	--
AUG 19, 75	1610	3	.3	0	--	4	2.30
						LINE 110	
OCT 16, 74	0805	2	.3	--	*	180	--
APR 09, 75	1340	2	.3	180	--	40	--
JUN 09, 75	1715	2	.3	--	*	180	--
						LINE 143	
OCT 16, 74	0950	3	.3	--	150	2	--
FEB 11, 75	1635	3	.3	--	--	--	.00
APR 09, 75	1555	3	.3	36	--	12	.40
JUN 09, 75	1500	3	.3	--	2	38	--
AUG 19, 75	1435	3	.3	2	--	0	2.50
						LINE 150	
OCT 16, 74	0900	4	.3	--	1	31	--

* - TOO NUMEROUS TO COUNT

TABLE 5F--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

BACTERICLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
				LINE 15C CONTINUED			
FEB 11, 75	1515	4	.3	--	--	--	.60
APR 09, 75	1510	4	.5	--	--	12	1.20
AUG 19, 75	1220	4	.3	10	--	6	.90
				LINE 175			
OCT 16, 74	1020	1	.3	0	0	2	--
FEB 11, 75	1600	1	.3	--	--	--	.60
APR 09, 75	1645	1	.3	220	--	320	.30
AUG 19, 75	1405	1	.3	2	--	4	1.10
				LINE 190			
JUN 10, 75	1055	2	.3	10	0	6	.40
AUG 19, 75	0945	2	.3	--	--	--	1.50
				LINE 200			
OCT 16, 74	1135	2	.3	0	0	4	--
FEB 11, 75	1350	5	.3	--	--	--	.40
AUG 20, 75	1300	5	.3	5	--	0	.60
				LINE 224			
APR 10, 75	1225	2	.3	12	13	4	.30
				LINE 229			
FEB 12, 75	1215	2	.3	--	--	--	1.30
JUN 10, 75	1320	2	.3	--	12	6	3.40
AUG 20, 75	1640	2	.3	--	--	64	1.10
				LINE 254			
OCT 15, 74	1450	2	.9	--	100	74	--
APR 10, 75	1050	2	.3	70	46	42	7.00
AUG 20, 75	1510	2	.3	--	--	14	--
				LINE 264			
OCT 15, 74	1500	2	.9	--	*	36	--
FEB 12, 75	1510	2	.3	--	--	--	.60
APR 10, 75	1025	2	.3	70	20	40	1.70
AUG 20, 75	1420	2	.3	--	--	10	.50

* - TOO NUMEROUS TO COUNT

TABLE 5F--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

BACTERICLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
						LINE 270	
APR 10, 75	1100	2	.3	*	*	75	.30
AUG 20, 75	0945	2	.3	--	--	148	--
						LINE 284	
OCT 14, 74	1245	1	.3	--	--	--	.10
APR 10, 75	1120	1	.3	--	2	6	1.40
AUG 20, 75	1010	1	.3	--	--	--	.70
						LINE 300	
OCT 14, 74	1330	3	.3	--	--	--	.70
FEB 12, 75	1710	3	.3	--	--	--	.60
APR 10, 75	1230	3	.3	--	--	--	.50
AUG 20, 75	1115	3	.3	--	--	--	.80
						LINE 333	
FEB 12, 75	1445	1	.5	--	--	--	.10
APR 09, 75	1425	1	.3	--	--	170	2.50
AUG 20, 75	1105	1	.3	--	--	40	3.90
AUG 20, 75	1205	3	.3	--	--	--	1.30
						LINE 350	
FEB 12, 75	1535	2	.5	--	--	--	6.70
AUG 19, 75	1325	2	.3	--	--	--	.80
APR 10, 75	1345	3	.3	--	--	--	1.60
						LINE 363	
OCT 14, 74	1545	1	.3	0	0	1	--
FEB 12, 75	1235	1	.3	--	--	--	.40
APR 10, 75	1430	1	.3	80	0	4	.70
AUG 19, 75	1205	1	.3	0	--	0	2.80
OCT 14, 74	1625	5	.3	2	0	0	--
APR 10, 75	1525	5	.3	1	0	0	.50
FEB 12, 75	1020	6	.6	--	--	--	.40
AUG 19, 75	1045	6	.3	2	--	0	1.50
						LINE 375	
FEB 11, 75	1650	2	.3	--	--	--	.00

TABLE 5F--QUALITY OF WATER IN THE LAVACA-TRES PALACIOS ESTUARY,

1975 WATER YEAR--CONTINUED

BACTERICLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
				LINE 375 CONTINUED			
AUG 20, 75	1400	2	.3	--	--	--	1.9C
				LINE 503			
OCT 16, 74	1255	49	.3	0	0	0	--
FEB 11, 75	1600	49	.3	--	--	--	.3C
AUG 20, 75	1500	49	.3	16	--	9	.4C

Guadalupe Estuary

The Guadalupe estuary covers an area of about 210 square miles (544 km^2) and 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 parts of the Intracoastal Waterway (Figure 7). At mlw the Guadalupe River is about 10 feet (3.0 m) deep; Mission Lake, Guadalupe Bay, and Hynes Bay are less than 3 feet (0.9 m) deep; San Antonio Bay is less than 6 feet (1.8 m) deep; Espiritu Santo Bay is about 8 feet (2.4 m) deep; Mesquite Bay is about 4 feet (1.2 m) deep; Victoria Channel is more than 8 feet (2.4 m) deep; and the Intracoastal Waterway is about 15 feet (4.6 m) deep.

Water-quality data (Table 6) were collected during October 1974 and January, April, May, and August 1975.

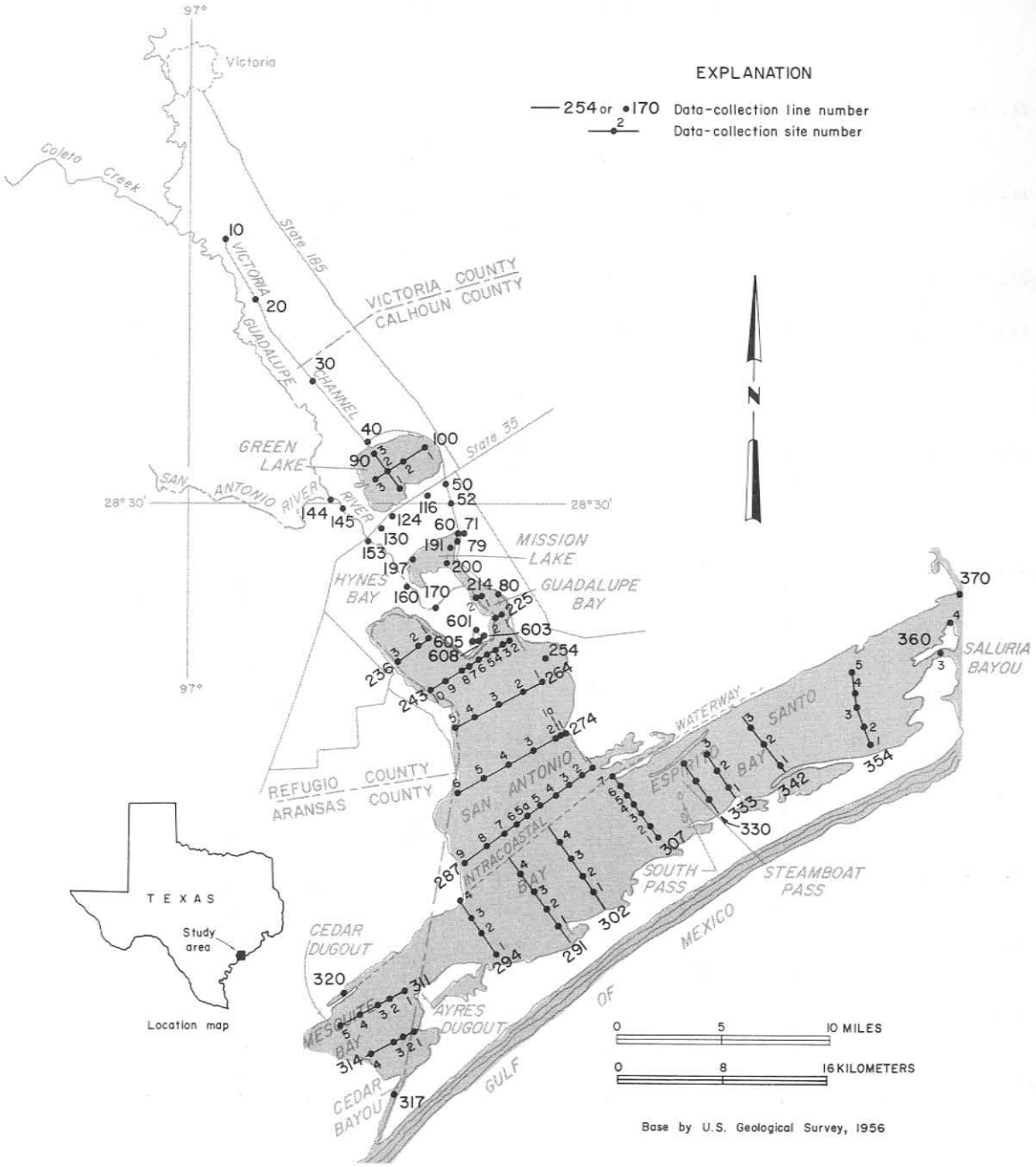

Figure 7.—Data-Collection Sites in the Guadalupe Estuary

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
					LINE 40					
AUG 26, 75	1700	2	.3	1400	27.7	8.1	7.2	98	140.	14
			1.5	1400	27.2	8.1	7.2	91	200.	--
			3.4	1400	27.2	8.0	6.8	86	280.	--
					LINE 80					
OCT 16, 74	1425	2	.3	6000	22.5	8.3	7.8	91	30.	55
			.9	6800	22.5	8.2	8.0	93	30.	--
			1.5	16000	21.8	8.1	6.0	71	40.	--
			3.4	22000	21.8	8.1	5.4	66	150.	--
APR 15, 75	1705	2	.3	6000	22.0	8.3	10.3	120	--	37
			1.5	15000	21.5	8.1	9.1	107	--	--
			2.4	23000	20.5	8.0	7.1	84	--	--
			3.7	33000	20.4	7.9	5.0	62	--	--
MAY 27, 75	1445	2	.3	1800	28.8	--	7.8	100	375.	14
			2.7	1800	28.9	--	7.5	96	375.	--
AUG 26, 75	1625	2	.3	820	27.8	8.2	6.7	83	65.	26
			1.5	820	27.6	8.2	6.7	84	70.	--
			3.7	770	27.4	8.2	6.8	85	85.	--
					LINE 145					
JAN 28, 75	1640	2	.3	800	18.3	8.2	9.3	98	40.	35
			1.5	800	18.3	8.2	9.3	98	30.	--
			3.0	800	18.4	8.2	9.4	99	30.	--
					LINE 153					
APR 15, 75	1430	2	.3	730	20.9	8.0	8.0	89	--	15
			1.5	730	20.9	8.0	8.0	89	--	--
			3.0	750	20.9	8.0	8.0	89	--	--
			4.6	800	20.9	8.0	8.0	89	--	--
MAY 27, 75	1620	2	.3	560	26.0	--	5.7	70	> 500.	
			1.5	550	26.0	--	5.7	70	> 500.	--
			3.0	550	26.0	--	5.7	70	> 500.	--
			6.1	550	26.0	--	5.7	70	> 500.	--
					LINE 170					
OCT 16, 74	1515	2	.3	760	23.4	7.9	6.2	72	70.	23
			.9	760	23.4	7.9	7.6	88	75.	--
			1.5	760	22.3	7.9	8.2	93	85.	--
			3.0	750	22.7	8.0	7.4	85	75.	--
JAN 28, 75	1740	2	.3	800	18.4	8.2	8.8	93	50.	29
			1.5	800	18.6	8.2	8.9	95	40.	--
			2.7	800	18.6	8.0	9.3	99	400.	--
APR 15, 75	1515	2	.3	650	21.2	8.0	8.0	89	--	15
			1.5	650	21.2	8.0	8.0	89	--	--
			2.7	620	21.5	8.0	8.1	91	--	--
MAY 27, 75	1530	2	.3	600	26.9	--	5.6	69	> 500.	10
			1.5	600	26.9	--	5.6	69	> 500.	--
			2.7	600	27.0	--	5.7	70	> 500.	--
AUG 26, 75	1555	2	.3	740	28.0	7.9	6.1	77	60.	27
			1.5	740	27.9	7.9	6.0	76	60.	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 170 CONTINUED					
AUG 26, 75	1555	2	3.0	740	27.8	7.9	6.0	76	85.	--
					LINE 200					
OCT 16, 74	1545	2	.3	750	19.7	8.0	7.6	82	60.	28
			1.2	750	19.9	8.0	7.5	82	70.	--
JAN 28, 75	1755	2	.3	800	20.7	8.4	8.6	95	115.	18
			.9	800	20.7	8.3	8.7	96	100.	--
APR 15, 75	1530	2	.3	680	22.5	8.1	8.9	101	--	30
			.9	680	22.5	8.1	9.1	103	--	--
MAY 27, 75	1510	2	.3	540	29.9	--	6.9	91	90.	38
			1.1	700	29.9	--	7.0	92	40.	--
AUG 26, 75	1530	2	.3	740	27.7	8.2	7.4	93	95.	21
			1.2	740	27.7	8.2	7.3	91	95.	--
					LINE 225					
OCT 16, 74	1615	1	.3	1800	20.7	8.2	7.9	88	65.	30
			.9	1800	20.7	8.2	7.9	88	55.	--
JAN 28, 75	1550	1	.3	700	21.4	8.4	9.4	106	100.	18
			.6	700	21.4	8.4	9.4	106	100.	--
APR 15, 75	1555	1	.3	1000	22.4	8.2	9.5	108	--	--
			1.2	4600	21.9	8.2	8.4	97	--	--
MAY 27, 75	1720	1	.3	500	29.8	--	9.9	130	70.	29
			.9	500	29.8	--	9.8	129	80.	--
AUG 26, 75	1520	1	.3	730	27.6	8.3	7.8	98	60.	28
			.9	730	27.6	8.3	7.6	95	60.	--
OCT 16, 74	1620	2	.3	600	19.8	8.1	7.6	83	95.	19
			1.2	600	19.8	8.1	7.5	82	120.	--
JAN 28, 75	1540	2	.3	800	21.0	8.4	9.0	100	105.	12
			.9	800	20.8	8.4	9.1	101	95.	--
APR 15, 75	1550	2	.3	930	22.9	8.3	9.7	111	--	35
			.9	1200	22.8	8.3	9.6	110	--	--
MAY 27, 75	1715	2	.3	1700	29.5	--	7.8	101	56.	26
			.9	1500	29.4	--	7.8	101	80.	--
AUG 26, 75	1515	2	.3	740	26.9	8.3	8.5	105	100.	29
			1.2	730	26.9	8.4	8.2	101	120.	--
					LINE 236					
OCT 16, 74	1725	1	.3	2200	20.5	8.6	10.3	114	70.	23
			.9	3000	19.9	8.5	8.7	96	140.	--
JAN 28, 75	1450	1	.3	1400	21.0	8.7	9.9	110	300.	9
			.6	1400	20.9	8.7	9.9	110	280.	--
APR 15, 75	1615	1	.3	7300	22.0	8.7	12.3	143	--	15
			.9	7300	22.0	8.7	12.5	145	--	--
MAY 28, 75	1245	1	.3	1500	26.8	--	7.7	95	150.	20
			.9	1000	26.8	--	7.6	94	150.	--
AUG 26, 75	1415	1	.3	1100	27.9	8.2	4.3	54	85.	23

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 236 CONTINUED					
AUG 26, 75	1415	1	.9	1100	27.9	8.2	4.4	56	90.	--
JAN 28, 75	1440	2	.3	2000	20.6	8.8	10.0	111	325.	9
			.6	1900	20.5	8.8	10.0	111	325.	--
APR 15, 75	1630	2	.3	8300	22.1	8.6	11.9	136	--	13
			.9	8300	22.1	8.6	11.9	138	--	--
MAY 28, 75	1240	2	.3	2000	26.9	--	7.8	98	140.	15
			.9	2000	26.9	--	7.7	96	140.	--
AUG 26, 75	1410	2	.3	730	27.8	8.3	7.1	90	50.	28
			.9	730	27.8	8.2	6.9	87	50.	--
OCT 16, 74	1715	3	.3	3300	20.6	8.5	8.3	92	90.	22
			.9	3200	20.1	7.6	8.3	91	160.	--
JAN 28, 75	1430	3	.3	8300	20.1	8.8	9.3	104	160.	18
			.6	8300	20.1	8.8	9.4	106	110.	--
APR 15, 75	1640	3	.3	9000	22.1	8.5	11.6	135	--	12
			.9	9000	22.1	8.5	11.1	129	--	--
MAY 28, 75	1235	3	.3	1000	26.8	--	7.3	90	130.	17
			.9	1000	26.8	--	7.2	89	150.	--
AUG 26, 75	1405	3	.3	650	27.8	8.2	6.9	87	45.	29
			.9	650	27.8	8.2	6.9	87	45.	--
					LINE 243					
JAN 28, 75	1900	2	.3	5400	20.9	8.8	10.2	116	60.	--
			1.5	7100	21.1	8.8	10.4	118	60.	--
			3.0	7800	20.7	8.8	9.7	109	25.	--
APR 15, 75	1620	2	.3	14000	22.0	--	10.9	128	50.	--
			1.8	34000	21.5	--	9.6	123	75.	--
			3.7	34000	21.5	--	8.9	113	40.	--
MAY 28, 75	1320	2	.3	1500	26.7	--	8.0	99	100.	22
			1.5	1500	26.7	--	7.4	91	120.	--
			3.4	2000	26.7	--	7.3	91	120.	--
AUG 26, 75	1325	2	.3	900	28.0	8.2	7.0	89	45.	26
			1.5	1300	27.9	8.2	6.8	86	55.	--
			3.0	2100	27.8	8.2	6.5	83	60.	--
OCT 16, 74	1630	3	.3	1200	19.8	8.3	7.5	82	75.	24
			.9	1300	19.9	8.2	7.8	85	75.	--
			1.2	11000	20.0	7.9	5.5	62	115.	--
JAN 28, 75	1835	3	.3	3200	20.1	8.5	8.9	98	25.	--
			.6	3200	20.3	8.4	9.3	103	30.	--
APR 15, 75	1610	3	.3	9500	21.9	--	10.0	116	45.	46
			.9	9500	21.9	--	7.3	85	40.	--
MAY 28, 75	1315	3	.3	650	26.5	--	8.0	98	90.	17
			.9	600	26.2	--	7.9	96	80.	--
AUG 26, 75	1335	3	.3	2000	27.8	8.3	7.3	94	70.	27
			.9	2100	28.0	8.3	7.1	91	80.	--
OCT 16, 74	1640	5	.3	2100	20.2	8.3	7.7	85	70.	28
			1.2	2800	20.3	8.3	6.3	70	170.	--
JAN 28, 75	1520	5	.3	800	20.5	8.4	9.2	101	95.	20
			.9	800	20.4	8.4	9.2	101	90.	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 243 CONTINUED						
APR 15, 75	1600	5	.3	3100	22.1	--	10.2	115	40.	46
			1.2	3200	22.1	--	10.2	115	40.	--
MAY 28, 75	1305	5	.3	660	26.2	--	7.9	96	110.	19
			1.2	600	26.1	--	7.9	96	140.	--
AUG 26, 75	1340	5	.3	750	28.1	8.4	7.5	95	40.	36
			1.2	650	28.0	8.3	7.3	92	50.	--
OCT 16, 74	1655	7	.3	6100	21.0	8.3	7.4	84	115.	23
			1.2	9500	20.1	8.2	6.5	73	120.	--
JAN 28, 75	1510	7	.3	800	20.8	8.4	9.3	103	90.	19
			.9	800	20.7	8.4	9.3	102	60.	--
APR 15, 75	1550	7	.3	9000	22.0	--	10.8	126	30.	51
			1.2	10000	22.1	--	10.5	122	100.	--
MAY 28, 75	1300	7	.3	600	26.5	--	7.5	91	110.	17
			1.2	600	26.5	--	7.5	91	110.	--
AUG 26, 75	1350	7	.3	1100	28.0	8.0	7.1	90	70.	25
			1.2	2100	28.1	7.8	5.6	72	100.	--
OCT 16, 74	1700	9	.3	3800	21.4	8.5	9.1	103	60.	24
			.9	7300	20.5	8.3	8.8	99	50.	--
			1.4	7800	19.8	8.2	7.8	87	100.	--
JAN 28, 75	1500	9	.3	5600	20.1	8.8	10.7	119	65.	22
			.9	5200	20.1	8.8	10.7	119	70.	--
APR 15, 75	1540	9	.3	12000	22.0	--	11.7	138	25.	60
			.9	12000	22.0	--	11.5	135	25.	--
MAY 28, 75	1225	9	.3	1000	27.0	--	7.5	93	160.	13
			1.2	1000	26.9	--	7.5	93	180.	--
AUG 26, 75	1400	9	.3	700	27.9	8.3	7.3	92	55.	25
			1.2	1100	27.8	8.2	6.7	85	80.	--
				LINE 254						
OCT 16, 74	1350	2	.3	7900	20.4	8.5	7.8	88	50.	33
			1.5	19000	21.2	8.0	5.5	65	180.	--
JAN 28, 75	1925	2	.3	10000	21.6	8.8	9.2	107	60.	--
			.9	11000	21.1	8.6	9.7	109	80.	--
APR 15, 75	1700	2	.3	23000	22.5	--	9.7	118	70.	56
			1.2	23000	22.6	--	8.7	107	65.	--
MAY 28, 75	0915	2	.3	4200	26.9	--	7.1	89	100.	26
			1.2	5100	26.9	--	6.7	84	100.	--
			2.4	7000	26.9	--	6.6	84	90.	--
AUG 26, 75	1010	2	.3	4500	27.3	8.6	7.0	88	50.	23
			2.4	5200	27.0	8.5	6.8	86	--	--
				LINE 264						
OCT 16, 74	1615	1	.3	5300	20.2	8.4	8.1	90	55.	24
			.9	6500	20.3	8.3	10.0	112	60.	--
			1.5	17000	20.0	8.2	7.5	86	55.	--
			3.7	29000	20.2	7.9	6.9	83	70.	--
JAN 28, 75	1345	1	.3	5600	19.9	8.8	10.4	116	45.	28
			1.8	6200	19.7	8.8	9.0	99	45.	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 264 CONTINUED						
JAN 28, 75	1345	1	3.7	8300	19.5	8.7	7.8	87	55.	--
APR 15, 75	1635	1	.3	25000	21.7	--	9.8	121	45.	61
			2.4	25000	22.0	--	6.5	80	10.	--
MAY 28, 75	1135	1	.3	2000	26.9	--	7.5	94	90.	18
			1.5	2000	26.9	--	7.3	91	70.	--
			3.4	4500	26.8	--	6.9	86	120.	--
AUG 26, 75	1235	1	.3	4600	27.3	8.3	7.2	90	70.	17
			1.5	4700	27.2	8.2	6.8	85	80.	--
			2.4	7500	27.2	8.3	6.6	84	90.	--
			3.4	9700	27.2	8.2	6.4	81	125.	--
OCT 16, 74	1805	2	.3	4500	20.3	8.5	10.0	110	55.	25
			.9	6500	20.2	8.3	9.4	104	95.	--
			1.5	10000	19.9	8.2	7.4	83	120.	--
JAN 28, 75	1400	2	.3	3100	19.9	8.7	10.2	112	105.	28
			1.2	3600	19.5	8.7	9.8	107	70.	--
MAY 28, 75	1145	2	.3	7000	27.0	--	7.1	90	120.	18
			1.5	7000	26.9	--	6.6	84	150.	--
AUG 26, 75	1230	2	.3	6500	27.2	8.3	7.1	90	70.	30
			1.5	7000	27.2	8.2	6.6	84	100.	--
OCT 16, 74	1745	4	.3	8000	21.2	8.3	8.4	95	45.	29
			1.5	11000	20.4	8.0	6.9	78	65.	--
OCT 17, 74	1000	4	.3	8500	19.0	8.4	7.7	85	40.	34
			.9	8500	18.9	8.3	7.9	87	30.	--
			1.2	17000	20.1	8.0	5.8	67	30.	--
			1.7	19000	20.2	8.1	5.5	63	40.	--
JAN 28, 75	1410	4	.3	1500	20.2	8.9	12.2	133	145.	22
			.9	1700	20.1	8.9	12.2	133	--	--
			1.5	2700	19.2	8.8	8.7	94	120.	--
APR 15, 75	1520	4	.3	14000	21.6	--	12.4	146	35.	46
			1.2	14000	21.9	--	11.8	139	45.	--
MAY 28, 75	1200	4	.3	4300	27.0	--	7.4	93	100.	18
			2.1	4500	27.0	--	7.4	93	110.	--
AUG 26, 75	1215	4	.3	9800	27.2	8.3	6.8	86	70.	23
			1.8	11000	27.1	8.3	6.6	84	125.	--
AUG 26, 75	1205	5	.3	14000	27.2	8.3	6.8	88	40.	36
			1.5	15000	27.1	8.3	6.4	84	35.	--
				LINE 274						
OCT 17, 74	1130	1	.3	9400	19.7	8.3	7.6	84	35.	33
			1.5	17000	19.7	8.1	6.7	76	35.	--
			3.7	27000	20.4	7.9	6.4	77	20.	--
JAN 28, 75	1255	1	.3	11000	20.4	8.6	8.0	91	40.	39
			1.5	11000	19.9	8.6	7.8	88	25.	--
			3.0	11000	19.7	8.6	8.1	90	30.	--
APR 15, 75	1230	1	.3	28000	21.7	8.2	8.3	104	--	40
			1.5	30000	20.7	8.0	6.6	81	--	--
			3.4	35000	21.2	8.1	6.8	87	--	--
MAY 28, 75	0930	1	.3	10000	26.0	--	7.1	89	20.	35
			1.5	10000	26.1	--	7.0	88	10.	--
			3.4	10000	26.0	--	6.9	86	10.	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
					LINE 274 CONTINUED					
AUG 26, 75	1130	1	.3	7500	27.0	8.5	7.3	92	105.	17
			1.2	9400	27.0	8.5	6.9	87	150.	--
OCT 17, 74	1055	2	.3	6100	19.2	8.3	10.0	109	20.	18
			.9	11000	19.8	7.9	6.4	72	20.	--
			1.4	15000	20.8	7.4	2.5	29	10.	--
JAN 28, 75	1240	2	.3	8400	19.4	8.8	9.6	107	60.	37
			1.1	8400	19.2	8.8	9.1	100	40.	--
APR 15, 75	1235	2	.3	20000	20.9	8.4	11.7	139	--	59
			1.2	22000	20.6	8.4	11.0	131	--	--
			1.5	29000	20.4	8.1	7.7	94	--	--
MAY 28, 75	1120	2	.3	8500	26.7	--	6.3	80	90.	21
			1.2	8500	26.0	--	6.3	79	80.	--
AUG 26, 75	1145	2	.3	5500	27.3	8.6	7.0	89	40.	22
			2.4	5300	27.2	8.6	7.0	89	60.	--
OCT 17, 74	1040	3	.3	10000	19.3	8.3	8.3	92	20.	47
			.9	12000	19.4	8.2	8.3	93	20.	--
			1.2	14000	19.7	8.1	8.8	99	20.	--
			1.5	22000	20.5	7.9	6.0	71	20.	--
			2.7	25000	20.6	7.9	5.8	70	35.	--
JAN 28, 75	1230	3	.3	4200	18.9	8.9	12.0	129	105.	25
			.9	4300	18.8	8.9	11.4	123	70.	--
			1.8	5700	18.1	8.8	8.8	95	110.	--
APR 15, 75	1435	3	.3	26000	21.1	--	11.8	144	105.	75
			1.8	24000	21.4	--	8.6	104	110.	--
MAY 28, 75	1110	3	.3	5000	26.2	--	7.6	94	110.	22
			1.8	5000	26.2	--	7.4	91	120.	--
AUG 26, 75	1155	3	.3	7500	27.3	8.5	6.9	87	90.	20
			2.4	7500	27.2	8.4	6.3	80	160.	--
OCT 17, 74	1025	5	.3	13000	19.4	8.2	9.6	118	20.	50
			.9	15000	19.7	8.2	9.3	116	20.	--
			1.5	18000	20.1	8.0	8.1	93	20.	--
			2.4	19000	20.0	8.0	6.1	70	40.	--
JAN 28, 75	1210	5	.3	8500	18.9	8.9	11.2	123	30.	54
			.9	8800	18.8	8.9	11.2	123	40.	--
			1.2	10000	18.8	8.8	9.5	104	40.	--
			1.5	10000	18.9	8.7	9.1	100	30.	--
APR 15, 75	1450	5	.3	21000	21.4	--	12.1	146	40.	58
			1.5	30000	20.8	--	8.4	105	90.	--
			3.0	36000	20.2	--	3.6	45	--	--
			4.9	36000	20.5	--	4.3	54	180.	--
MAY 28, 75	1100	5	.3	6000	26.1	--	7.2	90	120.	20
			1.5	5000	26.1	--	7.3	90	100.	--
					LINE 287					
OCT 17, 74	1145	2	.3	14000	20.1	8.1	7.5	85	30.	46
			.9	15000	20.0	8.1	7.4	85	20.	--
			1.5	27000	20.7	7.9	6.0	73	165.	--
JAN 28, 75	1055	2	.3	12000	19.2	8.6	8.6	96	40.	39
			.9	12000	19.3	8.6	8.9	100	30.	--
APR 15, 75	0935	2	.3	22000	19.2	8.3	9.2	106	--	76
			.6	30000	19.7	8.2	7.9	95	--	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 287 CONTINUED						
APR 15, 75	0935	2	.9	34000	19.7	8.1	7.6	93	--	--
MAY 28, 75	0950	2	.3	10000	26.8	--	7.0	89	60.	27
			.9	10000	26.9	--	6.7	85	70.	--
AUG 26, 75	1225	2	.3	6500	26.1	8.5	8.2	103	120.	29
			1.2	6500	26.0	8.5	8.2	103	100.	--
OCT 17, 74	1200	4	.3	13000	20.5	8.2	8.1	93	20.	50
			.9	15000	19.9	8.1	7.8	90	20.	--
			2.0	28000	20.7	7.9	6.3	77	35.	--
JAN 28, 75	1110	4	.5	7000	18.3	8.9	9.3	100	65.	43
			1.5	6900	18.3	8.9	9.0	97	40.	--
APR 15, 75	0945	4	.3	29000	19.8	8.4	9.1	110	--	75
			.9	30000	19.9	8.3	8.5	104	--	--
			1.5	38000	20.2	8.2	7.3	92	--	--
MAY 28, 75	1000	4	.3	7000	26.1	--	7.4	93	80.	16
			1.5	7000	26.0	--	7.4	93	90.	--
AUG 26, 75	1240	4	.3	4500	26.9	8.5	9.1	112	90.	35
			1.5	9500	26.3	8.4	8.0	100	90.	--
OCT 17, 74	1215	6	.3	15000	20.0	8.1	7.6	87	20.	56
			1.8	25000	20.5	7.9	5.7	69	30.	--
JAN 28, 75	1125	6	.3	8800	18.4	8.9	10.3	112	20.	58
			1.8	9800	18.2	8.8	9.5	103	20.	--
APR 15, 75	0955	6	.3	34000	19.9	8.4	8.9	110	--	70
			1.2	34000	19.9	8.3	8.1	100	--	--
MAY 28, 75	1015	6	.3	6000	26.1	--	7.4	93	100.	21
			2.1	6000	26.1	--	7.2	90	80.	--
AUG 26, 75	1255	6	.3	6500	27.0	8.4	8.4	106	115.	42
			2.1	15000	26.8	8.3	6.9	90	120.	--
OCT 16, 74	1735	8	.3	18000	21.0	8.5	11.0	129	40.	53
			1.5	18000	21.0	8.5	11.1	131	45.	--
OCT 17, 74	1225	8	.3	14000	20.6	8.1	7.6	86	10.	71
			1.5	26000	21.1	8.0	6.2	76	10.	--
			3.0	26000	21.1	8.0	6.2	76	20.	--
			4.6	26000	21.1	7.9	6.2	76	30.	--
JAN 28, 75	1140	8	.3	13000	18.7	8.6	8.5	94	50.	49
			1.5	13000	18.7	8.6	8.5	94	50.	--
APR 15, 75	1005	8	.3	18000	20.3	8.5	--	--	--	39
			1.8	26000	19.8	8.3	7.9	94	--	--
MAY 28, 75	1040	8	.3	5800	26.2	--	7.6	95	150.	17
			1.5	6000	26.2	--	7.4	93	180.	--
AUG 26, 75	1400	8	.3	14000	27.0	8.4	9.5	122	40.	--
			1.8	22000	26.2	8.3	8.2	108	40.	--
				LINE 291						
OCT 16, 74	1710	2	.3	18000	21.2	8.5	11.1	131	20.	48
			1.8	22000	20.5	8.4	9.8	117	85.	--
JAN 28, 75	1540	2	.3	17000	20.0	8.5	10.6	122	5.	86
			1.8	16000	20.5	8.5	10.4	121	5.	--
APR 15, 75	1335	2	.3	35000	21.1	--	7.8	100	40.	68

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 291 CONTINUED					
APR 15, 75	1335	2	1.8	35000	21.1	--	8.2	105	80.	--
MAY 28, 75	1015	2	.3	22000	27.0	8.3	7.6	101	60.	46
			1.7	21000	27.0	8.3	7.3	97	50.	--
AUG 26, 75	1320	2	.3	18000	27.5	8.4	9.1	120	60.	63
			1.8	21000	27.0	8.3	7.8	104	70.	--
OCT 16, 74	1700	4	.3	16000	20.8	8.5	11.8	137	240.	46
			1.5	18000	20.2	8.4	10.3	118	100.	--
JAN 28, 75	1530	4	.3	13000	20.5	8.6	10.5	121	20.	53
			1.8	13000	22.0	8.5	10.0	118	60.	--
APR 15, 75	1325	4	.3	30000	21.5	--	9.3	116	75.	66
			1.8	31000	22.0	--	6.3	80	65.	--
MAY 28, 75	1000	4	.3	8000	27.4	8.7	9.4	121	75.	36
			1.5	9000	27.4	8.6	9.6	123	75.	--
AUG 26, 75	1305	4	.3	18000	27.0	8.3	8.6	113	85.	48
			1.8	19000	26.6	8.3	7.9	104	80.	--
					LINE 294					
APR 15, 75	1345	1	.3	33000	21.9	--	9.0	115	15.	66
			1.8	33000	22.0	--	8.6	110	100.	--
MAY 28, 75	1025	1	.3	17000	26.9	8.3	7.6	100	45.	41
			1.8	17000	26.9	8.3	7.3	96	45.	--
AUG 26, 75	1330	1	.3	22000	28.0	8.4	9.1	125	90.	50
			1.8	24000	27.6	8.3	7.5	103	80.	--
OCT 16, 74	1720	2	.3	20000	21.5	8.5	11.1	134	15.	51
			1.8	27000	20.5	8.4	9.7	118	15.	--
OCT 17, 74	1300	2	.3	26000	21.6	7.9	7.0	86	10.	89
			2.0	28000	20.7	7.9	6.9	84	35.	--
JAN 28, 75	1555	2	.3	15000	20.0	8.5	10.7	123	10.	69
			1.8	17000	20.8	8.5	11.3	133	10.	--
APR 15, 75	1350	2	.3	29000	21.5	--	9.9	124	20.	64
			1.8	29000	21.5	--	9.1	114	20.	--
MAY 28, 75	1035	2	.3	13000	27.4	8.4	8.8	114	30.	53
			1.8	13000	27.3	8.4	8.4	108	50.	--
AUG 26, 75	1340	2	.3	21000	27.9	8.4	8.8	121	35.	40
			1.8	22000	27.6	8.3	7.2	99	30.	--
OCT 16, 74	1740	4	.3	21000	20.9	8.4	9.6	114	50.	30
			1.8	21000	20.7	8.5	9.8	115	105.	--
			3.7	21000	20.7	8.4	10.8	127	100.	--
JAN 28, 75	1610	4	.3	20000	22.0	8.4	9.8	120	30.	44
			1.5	20000	21.1	8.4	10.2	121	30.	--
			3.0	20000	21.0	8.3	10.0	119	5.	--
			4.0	19000	21.0	8.3	10.5	124	10.	--
APR 15, 75	1310	4	.3	21000	21.0	--	9.0	107	105.	31
			2.1	23000	21.0	--	7.5	90	130.	--
			4.0	27000	21.4	--	6.1	75	175.	--
MAY 28, 75	1045	4	.3	10000	27.0	8.5	9.1	115	60.	36
			1.5	10000	26.9	8.5	9.1	115	70.	--
			3.7	10000	27.0	8.5	9.1	115	105.	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 294 CONTINUED						
AUG 26, 75	1415	4	.3	25000	27.1	8.4	8.2	111	30.	58
			1.5	27000	27.1	8.3	8.0	110	30.	--
			3.7	35000	26.3	8.2	7.2	100	45.	--
				LINE 302						
OCT 16, 74	1640	2	.3	25000	20.9	8.5	10.4	127	15.	36
			1.5	26000	20.7	8.5	10.4	125	0.	--
JAN 28, 75	1400	2	.5	21000	20.0	8.5	8.4	98	0.	130
			1.8	26000	21.0	8.5	9.8	120	5.	--
APR 15, 75	1255	2	.3	40000	21.5	--	8.2	108	20.	56
			1.5	40000	22.1	--	8.2	108	20.	--
MAY 27, 75	1630	2	.3	24000	28.8	8.3	10.6	147	20.	53
			1.5	24000	28.7	8.3	10.1	140	85.	--
AUG 26, 75	1135	2	.3	13000	25.2	8.4	7.5	94	110.	28
			1.8	13000	24.9	8.5	7.4	93	100.	--
OCT 16, 74	1650	4	.3	18000	20.9	8.5	11.4	134	5.	48
			1.5	24000	20.2	8.5	11.1	131	50.	--
JAN 28, 75	1410	4	.5	11000	20.0	8.8	11.7	131	10.	71
			1.8	21000	20.5	8.5	9.6	113	10.	--
APR 15, 75	1300	4	.3	38000	21.5	--	8.2	106	20.	60
			1.8	38000	21.9	--	7.8	101	20.	--
MAY 27, 75	1645	4	.3	17000	29.2	8.5	11.7	160	--	58
			1.5	17000	29.2	8.6	11.5	158	20.	--
AUG 26, 75	1145	4	.3	9500	25.3	8.5	7.9	96	85.	35
			1.8	18000	25.0	8.4	7.0	89	85.	--
				LINE 307						
OCT 16, 74	1630	1	.3	33000	21.2	8.5	10.0	127	0.	71
			1.5	33000	21.1	8.5	10.4	132	0.	--
JAN 28, 75	1340	1	.5	26000	20.2	8.3	9.4	112	0.	161
			1.5	22000	21.1	8.2	9.1	110	0.	--
APR 15, 75	1230	1	.3	40000	21.2	--	8.0	104	20.	78
			1.8	38000	21.2	--	7.7	100	10.	--
MAY 27, 75	1620	1	.3	25000	28.8	8.3	10.3	145	25.	74
			1.8	25000	28.8	8.2	10.3	145	30.	--
AUG 26, 75	1120	1	.3	15000	25.2	8.4	7.4	93	60.	37
			1.8	15000	25.2	8.4	7.8	98	45.	--
OCT 16, 74	1620	3	.3	34000	20.9	8.5	10.2	129	0.	61
			1.5	38000	20.5	8.5	10.4	133	0.	--
JAN 28, 75	1330	3	.5	22000	21.1	8.3	9.1	110	5.	113
			1.7	21000	21.2	8.3	9.2	110	20.	--
APR 15, 75	1225	3	.3	38000	21.0	--	7.9	103	5.	93
			1.8	40000	21.0	--	8.0	104	10.	--
MAY 27, 75	1610	3	.3	25000	28.9	8.2	10.2	144	20.	61
			1.5	25000	28.9	8.1	10.2	144	25.	--
AUG 26, 75	1110	3	.3	17000	25.3	8.3	6.9	87	60.	38
			1.8	17000	25.2	8.3	7.2	91	60.	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 307 CONTINUED						
JAN 28, 75	1320	5	.5	21000	21.1	8.4	9.5	113	45.	71
			1.7	21000	21.5	8.5	9.1	110	70.	--
APR 15, 75	1215	5	.3	38000	21.6	--	8.1	105	25.	92
			1.8	38000	21.4	--	8.2	106	130.	--
MAY 27, 75	1600	5	.3	22000	29.2	8.3	10.3	143	40.	86
			1.5	22000	29.2	8.3	7.7	107	30.	--
AUG 26, 75	1100	5	.3	18000	25.2	8.3	7.5	95	45.	34
			1.7	18000	25.0	8.2	7.6	96	80.	--
JAN 28, 75	1325	7	.3	14000	20.4	8.6	8.5	98	--	47
			2.1	14000	20.4	8.6	7.4	85	30.	--
			4.3	14000	20.5	8.6	7.7	89	35.	--
APR 15, 75	0925	7	.3	35000	20.1	8.0	7.1	89	--	62
			2.1	38000	19.8	8.0	7.3	92	--	--
			4.3	38000	19.9	7.9	7.4	94	--	--
MAY 27, 75	1700	7	.3	17000	28.4	8.3	10.5	142	50.	41
			1.5	18000	28.1	8.3	7.9	107	30.	--
			3.7	18000	27.8	8.2	7.1	96	50.	--
MAY 28, 75	0940	7	.3	14000	26.9	8.6	8.5	109	90.	41
			1.5	14000	26.9	8.6	8.6	110	110.	--
			3.4	14000	27.1	8.5	8.3	106	120.	--
AUG 26, 75	1210	7	.3	19000	26.0	8.4	7.2	94	100.	39
			1.5	18000	26.0	8.4	7.0	91	95.	--
			3.0	33000	25.8	8.3	6.0	83	80.	--
				LINE 311						
OCT 17, 74	1320	1	.3	24000	20.9	8.0	9.6	116	20.	41
			1.2	24000	20.9	8.0	9.6	116	20.	--
APR 16, 75	1030	1	.3	26000	21.8	--	7.5	93	50.	59
			.9	26000	21.9	--	7.3	90	50.	--
MAY 28, 75	1125	1	.3	26000	27.6	8.2	8.8	121	135.	25
			.9	26000	27.6	8.2	8.9	122	260.	--
AUG 26, 75	1450	1	.3	39000	26.6	8.2	8.1	116	60.	42
			.9	39000	26.1	8.2	8.5	120	50.	--
OCT 17, 74	1420	3	.3	26000	21.3	8.0	7.4	90	10.	74
			.9	26000	20.2	8.0	7.5	89	--	--
			1.4	26000	22.2	8.2	8.5	105	70.	--
APR 16, 75	1025	3	.3	26000	22.0	--	8.3	102	45.	79
			.9	26000	22.0	--	8.1	100	40.	--
MAY 28, 75	1120	3	.3	23000	27.6	8.2	8.9	120	100.	30
			1.2	22000	27.4	8.2	9.0	122	130.	--
OCT 17, 74	1430	5	.3	25000	21.3	8.0	7.2	88	10.	80
			1.7	32000	21.7	8.1	7.3	92	45.	--
APR 16, 75	1105	5	.3	29000	22.0	--	8.4	105	40.	51
			.9	29000	22.0	--	8.4	105	40.	--
			1.8	29000	22.4	--	8.3	104	40.	--
MAY 28, 75	1205	5	.3	16000	27.2	8.2	9.2	121	140.	38
			1.5	16000	27.2	8.2	9.1	118	155.	--
			2.7	16000	27.2	8.2	8.9	116	230.	--
AUG 26, 75	1530	5	.3	36000	27.3	8.3	8.1	114	70.	33

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 311 CONTINUED					
AUG 26, 75	1530	5	1.8	36000	27.2	8.3	8.1	114	65.	--
					LINE 314					
OCT 17, 74	1330	1	.3	26000	20.8	8.0	7.5	91	10.	100
			1.2	26000	21.3	8.0	7.6	93	30.	--
APR 16, 75	1045	1	.3	28000	22.0	--	8.4	105	25.	91
			.9	27000	22.0	--	7.7	96	15.	--
MAY 28, 75	1135	1	.3	34000	27.3	8.2	8.3	117	60.	36
			1.1	34000	27.2	8.2	8.0	113	180.	--
AUG 26, 75	1500	1	.3	41000	27.4	8.3	8.2	119	25.	58
			1.2	42000	27.0	8.2	8.2	121	35.	--
OCT 17, 74	1340	3	.3	26000	20.5	8.0	7.5	90	10.	77
			1.5	38000	21.7	8.0	7.1	92	100.	--
APR 16, 75	1050	3	.3	29000	22.0	--	8.4	105	--	82
			.9	28000	22.0	--	8.3	104	40.	--
MAY 28, 75	1145	3	.3	33000	27.4	8.2	8.4	120	40.	48
			1.2	33000	27.3	8.2	8.5	120	55.	--
AUG 26, 75	1505	3	.3	39000	27.7	8.3	8.3	122	20.	69
			1.2	49000	27.2	8.2	7.1	108	50.	--
OCT 17, 74	1405	4	.3	25000	20.7	8.1	7.5	90	10.	89
			1.4	34000	21.4	8.1	7.3	92	30.	--
APR 16, 75	1055	4	.3	28000	22.0	--	8.6	108	25.	67
			.9	28000	22.0	--	8.5	106	25.	--
MAY 28, 75	1150	4	.3	32000	27.3	8.3	8.6	119	35.	61
			1.2	32000	26.9	8.2	7.9	110	50.	--
AUG 26, 75	1515	4	.3	38000	27.6	8.3	8.2	121	10.	62
			1.2	41000	27.6	8.2	7.5	110	15.	--
					LINE 330					
OCT 16, 74	1610	1	.3	38000	20.8	8.3	9.5	123	0.	94
			1.8	40000	20.7	8.3	9.7	124	0.	--
OCT 16, 74	1600	2	.3	37000	20.7	8.4	10.0	127	0.	97
			1.8	38000	20.8	8.4	10.2	132	5.	--
OCT 16, 74	1550	3	.3	36000	21.3	8.4	10.3	132	0.	94
			1.8	39000	20.5	8.5	10.4	133	0.	--
					LINE 333					
JAN 28, 75	1220	1	.5	35000	19.1	8.1	9.2	112	0.	231
			1.5	35000	19.0	8.1	9.2	112	0.	--
			2.1	32000	19.7	8.0	8.7	105	0.	--
MAY 27, 75	1545	1	.3	29000	28.9	8.2	10.8	154	15.	99
			1.8	29000	28.7	8.2	10.9	156	30.	--
AUG 26, 75	1045	1	.3	25000	26.2	8.4	6.3	84	20.	69
			2.1	27000	26.1	8.4	6.3	85	25.	--
JAN 28, 75	1200	2	.5	32000	19.2	8.2	8.5	101	0.	208
			1.5	34000	19.1	8.2	8.5	102	0.	--
			2.1	32000	19.2	8.0	7.0	83	10.	--

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 333 CONTINUED						
MAY 27, 75	1530	2	.3	26000	28.9	8.2	10.8	152	20.	99
			1.8	26000	28.6	8.2	11.2	158	30.	--
AUG 26, 75	1035	2	.3	24000	26.2	8.4	6.4	84	20.	62
			2.1	27000	26.1	8.5	6.0	81	45.	--
JAN 28, 75	1150	3	.5	27000	19.9	8.2	8.3	100	5.	132
			1.8	24000	20.0	8.2	8.5	100	10.	--
APR 15, 75	1155	3	.3	34000	21.1	--	8.5	108	30.	58
			1.8	38000	21.8	--	7.7	100	50.	--
MAY 27, 75	1520	3	.3	25000	29.1	8.3	10.5	148	5.	102
			1.5	25000	29.1	8.3	11.1	156	10.	--
AUG 26, 75	1025	3	.3	24000	26.0	8.5	6.8	89	50.	46
			2.0	27000	26.0	8.5	6.5	88	40.	--
						LINE 342				
OCT 16, 74	1525	1	.3	40000	22.0	8.5	9.8	129	5.	76
			2.1	40000	21.0	8.5	9.9	129	5.	--
JAN 28, 75	1105	1	.3	31000	19.1	8.1	8.6	102	5.	262
			1.5	36000	19.0	8.0	8.3	101	5.	--
			1.5	35000	19.0	8.0	8.2	100	10.	--
APR 15, 75	1125	1	.3	38000	20.8	--	8.2	106	0.	122
			2.4	38000	21.5	--	8.2	106	0.	--
MAY 27, 75	1435	1	.3	30000	28.5	8.2	9.6	137	10.	160
			1.5	34000	28.2	8.2	9.8	142	10.	--
			2.1	34000	28.1	8.2	8.0	116	20.	--
AUG 26, 75	0950	1	.3	35000	26.9	8.4	6.1	86	10.	93
			2.1	36000	27.0	8.4	5.9	83	20.	--
OCT 16, 74	1530	2	.3	40000	22.0	8.5	9.8	129	5.	74
			2.1	40000	21.5	8.5	9.4	124	5.	--
JAN 28, 75	1120	2	.5	22000	19.1	8.2	9.5	109	5.	178
			1.5	24000	19.5	8.1	9.7	113	0.	--
			2.3	26000	19.6	8.1	8.4	99	40.	--
APR 15, 75	1130	2	.3	38000	20.7	--	7.8	100	15.	93
			2.7	38000	21.0	--	7.8	101	25.	--
MAY 27, 75	1455	2	.3	23000	28.6	8.2	8.6	119	0.	104
			1.5	24000	28.6	8.2	8.6	119	10.	--
			2.1	25000	28.6	8.2	8.5	120	10.	--
AUG 26, 75	1000	2	.3	33000	26.8	8.4	6.2	87	10.	95
			1.5	35000	26.8	8.4	5.8	82	10.	--
			2.6	35000	26.5	8.4	5.9	83	10.	--
OCT 16, 74	1540	3	.3	40000	21.7	8.5	9.8	129	0.	124
			1.8	40000	21.5	8.5	10.5	138	10.	--
JAN 28, 75	1130	3	.5	27000	19.8	8.2	8.9	107	10.	128
			1.8	27000	20.0	8.3	9.1	110	50.	--
APR 15, 75	1140	3	.3	38000	20.9	--	8.2	106	15.	86
			1.8	36000	21.2	--	8.2	106	0.	--
MAY 27, 75	1510	3	.3	28000	29.0	8.2	9.4	134	--	132
			1.5	29000	29.0	8.2	9.2	131	0.	--
AUG 26, 75	1010	3	.3	22000	26.5	8.4	6.5	86	35.	56

TABLE 6A--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 342 CONTINUED					
AUG 26, 75	1010	3	2.1	27000	26.2	8.4	6.3	85	30.	--
					LINE 354					
OCT 16, 74	1510	1	.3	40000	21.5	8.5	9.8	129	5.	91
			2.1	40000	20.8	8.4	9.9	129	0.	--
JAN 28, 75	1045	1	.3	34000	19.0	8.0	8.2	99	5.	208
			2.0	32000	19.5	8.1	8.8	106	5.	--
APR 15, 75	1115	1	.3	40000	21.2	--	8.4	109	5.	120
			2.4	40000	20.5	--	7.8	100	5.	--
MAY 27, 75	1420	1	.3	34000	28.5	8.2	8.8	129	5.	112
			1.8	34000	28.4	8.2	8.4	122	0.	--
AUG 26, 75	0935	1	.3	38000	27.1	8.3	5.3	76	20.	102
			2.1	41000	26.8	8.2	3.8	55	25.	--
OCT 16, 74	1500	3	.3	41000	22.5	8.5	8.9	119	25.	76
			1.5	42000	21.8	8.5	9.1	117	30.	--
JAN 28, 75	1025	3	.3	35000	20.0	8.1	7.8	98	10.	100
			.9	32000	20.0	8.1	8.3	101	10.	--
APR 15, 75	1100	3	.3	40000	20.1	--	8.2	104	5.	89
			1.8	40000	20.2	--	8.1	103	0.	--
MAY 27, 75	1405	3	.3	28000	28.4	8.2	7.6	107	10.	86
			1.8	28000	28.2	8.2	7.3	103	10.	--
AUG 26, 75	0925	3	.3	39000	27.1	8.4	5.4	78	15.	121
			1.8	47000	26.9	8.2	4.3	64	30.	--
OCT 16, 74	1450	5	.3	40000	21.1	8.5	8.7	113	100.	99
			1.8	40000	21.0	8.5	8.6	112	60.	--
JAN 28, 75	1000	5	.5	38000	19.0	8.1	7.8	96	0.	181
			1.5	45000	19.0	8.0	7.7	97	0.	--
			2.6	47000	19.3	8.0	7.3	95	35.	--
APR 15, 75	1050	5	.3	40000	20.1	--	8.5	108	0.	120
			1.5	40000	20.1	--	8.4	106	0.	--
			2.7	38000	21.0	--	8.2	106	25.	--
MAY 27, 75	1355	5	.3	33000	29.0	8.4	8.2	121	5.	--
			1.5	34000	28.6	8.4	7.4	109	10.	--
			2.4	34000	28.7	8.2	7.4	109	40.	--
AUG 26, 75	0915	5	.3	41000	27.2	8.3	5.1	75	20.	97
			1.5	44000	27.2	8.3	4.4	66	25.	--
			2.7	44000	27.2	8.3	4.2	63	20.	--

TABLE 6B--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SiO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 80						
OCT 16, 74	1425	2	.3	--	.00	.00	.00	--	.08	3.8	5	6.8
			3.4	--	.00	.05	.00	--	.17	2.1	0	7.4
APR 15, 75	1705	2	.3	--	.61	.00	.01	--	.15	1.5	0	3.7
			3.7	--	.04	.13	.01	--	.13	1.4	0	4.5
MAY 27, 75	1445	2	.3	--	.04	.02	.01	--	.19	3.1	--	--
			2.7	--	.04	.06	.01	--	.45	3.3	--	--
AUG 26, 75	1625	2	.3	--	.25	.00	.00	--	.12	2.3	--	--
			3.7	--	.26	.00	.00	--	.15	2.6	0	--
						LINE 145						
JAN 28, 75	1640	2	.3	12.0	.62	.01	.00	--	.51	1.6	0	16.0
						LINE 153						
APR 15, 75	1430	2	.3	13.0	2.40	.01	.00	--	.68	1.3	43	--
MAY 27, 75	1620	2	.3	14.0	1.90	.01	.01	--	.70	1.4	--	--
						LINE 170						
OCT 16, 74	1515	2	.3	15.0	1.50	.00	.00	--	.49	1.1	0	38.0
			3.0	--	1.60	.00	.00	--	.48	1.5	0	5.6
AUG 26, 75	1555	2	.3	15.0	1.50	.00	.00	--	.37	.9	0	--
						LINE 200						
OCT 16, 74	1545	2	.3	--	1.50	.02	.00	--	.45	.5	0	3.4
JAN 28, 75	1755	2	.3	--	.59	.03	.00	--	.69	1.3	2	10.0
APR 15, 75	1530	2	.3	--	2.60	.02	.01	--	.58	.9	0	4.1
MAY 27, 75	1510	2	.3	--	.27	.01	.01	--	.13	1.7	--	--
AUG 26, 75	1530	2	.3	--	1.40	.00	.00	--	.40	1.2	0	--
						LINE 243						
OCT 16, 74	1640	5	.3	--	.58	.00	.00	--	.34	1.8	0	3.2
JAN 28, 75	1520	5	.3	--	.98	.00	.01	--	.50	1.2	0	11.0
APR 15, 75	1600	5	.3	--	1.20	.01	.01	--	.38	1.1	0	10.0
			1.2	--	1.20	.01	.01	--	.36	1.0	0	10.0
MAY 28, 75	1305	5	.3	--	1.70	.00	.01	--	.37	1.2	1	6.4
AUG 26, 75	1340	5	.3	15.0	.80	.00	.00	--	.20	1.7	0	--
						LINE 254						
OCT 16, 74	1350	2	.3	--	.01	.00	.00	--	.18	2.6	0	11.0
			1.5	--	.00	.07	.00	--	.21	2.3	--	--
JAN 28, 75	1925	2	.3	5.5	.00	.00	.00	--	.18	2.7	0	11.0

TABLE 6B--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIC-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 254 CONTINUED						
APR 15, 75	1700	2	.3	--	.01	.01	.00	--	.07	1.3	0	3.6
			1.2	--	.02	.03	.00	--	.28	1.8	0	9.1
MAY 28, 75	0915	2	.3	--	.01	.01	.00	--	.16	2.2	1	40.0
AUG 26, 75	1010	2	.3	--	.00	.00	.00	--	.16	1.4	0	--
						LINE 264						
OCT 16, 74	1745	4	.3	13.0	.00	.00	.00	--	.19	2.6	0	6.4
			1.5	--	.00	.00	.00	--	.19	2.2	0	5.8
JAN 28, 75	1410	4	.3	--	.41	.01	.01	--	.41	2.9	--	--
APR 15, 75	1520	4	.3	7.1	.31	.00	.00	--	.17	1.7	2	3.6
			1.2	7.2	.26	.00	.00	--	.17	1.3	0	5.3
MAY 28, 75	1200	4	.3	9.8	.27	.00	.01	--	.29	2.1	--	--
AUG 26, 75	1215	4	.3	12.0	.00	.00	.00	--	.17	1.4	0	--
						LINE 274						
OCT 17, 74	1055	2	.3	--	.45	.00	.00	--	.24	2.1	0	--
			1.4	--	.08	.13	.00	--	.19	1.2	0	6.4
JAN 28, 75	1240	2	.3	--	.02	.04	.01	--	.17	2.7	--	--
APR 15, 75	1235	2	.3	--	.08	.00	.01	--	.12	1.3	0	12.0
			1.5	--	.11	.02	.00	--	.10	1.6	0	4.6
MAY 28, 75	1120	2	.3	--	.03	.02	.00	--	.18	1.7	--	--
AUG 26, 75	1145	2	.3	--	.00	.00	.00	--	.17	1.4	0	--
						LINE 287						
OCT 17, 74	1225	8	.3	--	.00	.00	.00	--	.16	1.9	0	7.2
			4.6	--	.00	.00	.00	--	.12	1.7	0	3.8
JAN 28, 75	1140	8	.3	--	.00	.01	.01	--	.11	1.4	--	--
APR 15, 75	1005	8	.3	--	.06	.06	.00	--	.15	1.9	0	5.9
			1.8	--	.06	.02	.00	--	.10	1.5	0	2.6
MAY 28, 75	1040	8	.3	--	.00	.00	.01	--	.20	3.0	--	--
AUG 26, 75	1400	8	.3	11.0	.00	.00	.00	--	.15	1.6	0	--
						LINE 291						
OCT 16, 74	1710	2	.3	--	--	--	--	--	--	1.7	--	--
			1.8	--	--	--	--	--	--	1.4	--	--
						LINE 294						
OCT 16, 74	1720	2	.3	--	.00	.00	.00	--	.11	--	0	4.2
			1.8	--	.00	.00	.00	--	.12	--	0	4.6
JAN 28, 75	1555	2	.3	--	.00	.00	.00	--	.09	1.9	--	--
APR 15, 75	1350	2	.3	--	.00	.00	.00	--	.07	1.3	0	6.0
			1.8	--	.00	.01	.00	--	.10	1.3	0	8.0
MAY 28, 75	1035	2	.3	--	.00	.00	.00	--	.15	2.2	--	--

TABLE 6B--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 294 CONTINUED						
AUG 26, 75	1340	2	.3	10.0	.01	.01	.00	--	.15	1.3	0	--
						LINE 307						
OCT 16, 74	1620	3	.3	--	.00	.00	.00	--	.08	1.7	0	4.2
			1.5	--	--	--	--	--	--	--	--	5.0
JAN 28, 75	1330	3	.5	--	.00	.01	.01	--	.13	1.8	--	--
			1.7	--	.00	.01	.01	--	.12	1.1	--	--
APR 15, 75	1225	3	.3	--	.01	.05	.00	--	.04	.7	0	2.3
			1.8	--	.01	.05	.00	--	.04	.7	1	3.8
MAY 27, 75	1610	3	.3	--	.01	.00	.00	--	.09	1.9	--	--
AUG 26, 75	1110	3	.3	--	.02	.00	.00	--	.16	1.1	0	--
						LINE 311						
OCT 17, 74	1430	5	.3	6.9	.00	.01	.00	--	.10	1.6	0	4.0
			1.7	--	.00	.00	.00	--	.11	2.4	--	--
APR 16, 75	1105	5	.3	4.2	.03	.01	.00	--	.07	.8	0	4.9
MAY 28, 75	1205	5	.3	6.3	.00	.01	.01	--	.16	2.3	--	--
AUG 26, 75	1530	5	.3	6.5	.01	.00	.00	--	.16	1.2	0	--
						LINE 314						
OCT 17, 74	1340	3	.3	--	.00	.00	.01	--	.09	2.0	0	4.2
			1.5	--	.00	.00	.00	--	.12	2.9	--	--
APR 16, 75	1050	3	.3	--	.00	.01	.01	--	.05	.9	1	7.5
MAY 28, 75	1145	3	.3	--	.00	.01	.01	--	.10	2.1	--	--
AUG 26, 75	1505	3	.3	--	.00	.00	.01	--	.09	1.0	0	--
						LINE 330						
OCT 16, 74	1600	2	.3	--	--	--	--	--	--	--	26	3.8
			1.8	--	.00	.01	.01	--	.05	--	--	3.8
						LINE 333						
JAN 28, 75	1200	2	.5	--	.00	.00	.00	--	.06	1.1	2	11.0
			2.1	--	.00	.02	.00	--	.06	.8	2	3.6
MAY 27, 75	1530	2	.3	4.0	.00	.01	.00	--	.07	1.6	10	4.5
			1.8	4.2	.00	.01	.01	--	.13	1.6	13	4.6
AUG 26, 75	1035	2	.3	--	.00	.01	.00	--	.13	1.0	0	--
			2.1	--	.00	.00	.01	--	.13	.9	--	--
						LINE 354						
OCT 16, 74	1500	3	.3	.9	.00	.00	.01	--	.06	--	0	3.4
			1.5	--	--	--	--	--	--	1.3	--	3.4
JAN 28, 75	1025	3	.3	1.4	.00	.01	.00	--	.05	.8	3	9.5
			.9	1.3	.00	.00	.00	--	.06	.9	--	8.9
APR 15, 75	1100	3	.3	.3	.00	.00	.00	--	.02	1.2	4	5.1

TABLE 6B--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
					LINE 354 CONTINUED							
APR 15, 75	1100	3	1.8	.5	.00	.01	.00	--	.03	1.1	2	3.3
MAY 27, 75	1405	3	.3	.6	.00	.00	.01	--	.05	1.0	18	3.8
			1.8	.6	.01	.00	.00	--	.06	1.2	12	26.0
AUG 26, 75	0925	3	.3	5.6	.00	.01	.00	--	.09	1.0	1	--
			1.8	--	.00	.00	.01	--	.07	.9	--	--

TABLE 6C--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CON-DUCTANCE (MICRO-MHOS) (LAB)	DIS-SOLVED CALCIUM (CA) (MG/L)	DIS-SOLVED MAGNE-SIUM (MG) (MG/L)	DIS SOLVED SODIUM (NA) (MG/L)	DIS-SOLVED POTAS-SIUM (K) (MG/L)	BICAR-BONATE (HCO3) (MG/L)	DIS-SOLVED SULFATE (SO4) (MG/L)	DIS-SOLVED CHLORIDE (CL) (MG/L)	DIS-SOLVED SOLIDS (SUM OF CONSTI-TUENTS) (MG/L)
						LINE 80						
OCT 16, 74	1425	2	.3	6010	--	--	--	--	--	--	--	--
			3.4	21800	--	--	--	--	--	--	--	--
APR 15, 75	1705	2	.3	6840	--	--	--	--	--	--	--	--
			3.7	33100	--	--	--	--	--	--	--	--
MAY 27, 75	1445	2	.3	1750	--	--	--	--	--	--	--	--
			2.7	1800	--	--	--	--	--	--	--	--
AUG 26, 75	1625	2	.3	798	--	--	--	--	--	--	--	--
			3.7	802	--	--	--	--	--	--	--	--
						LINE 145						
JAN 28, 75	1640	2	.3	738	89.0	13.0	46	4.0	284	52	66	422
						LINE 153						
APR 15, 75	1430	2	.3	677	70.0	16.0	47	4.6	238	50	75	393
MAY 27, 75	1620	2	.3	559	60.0	9.9	34	5.2	180	47	46	305
						LINE 170						
OCT 16, 74	1515	2	.3	765	79.0	19.0	48	3.6	281	53	65	421
			3.0	749	--	--	--	--	--	--	--	--
AUG 26, 75	1555	2	.3	739	83.0	19.0	44	3.2	280	50	62	415
						LINE 200						
OCT 16, 74	1545	2	.3	749	--	--	--	--	--	--	--	--
JAN 28, 75	1755	2	.3	758	--	--	--	--	--	--	--	--
APR 15, 75	1530	2	.3	692	--	--	--	--	--	--	--	--
MAY 27, 75	1510	2	.3	544	--	--	--	--	--	--	--	--
AUG 26, 75	1530	2	.3	737	--	--	--	--	--	--	--	--
						LINE 243						
OCT 16, 74	1640	5	.3	2110	--	--	--	--	--	--	--	--
JAN 28, 75	1520	5	.3	759	--	--	--	--	--	--	--	--
APR 15, 75	1600	5	.3	3060	--	--	--	--	--	--	--	--
			1.2	3120	--	--	--	--	--	--	--	--
MAY 28, 75	1305	5	.3	663	--	--	--	--	--	--	--	--
AUG 26, 75	1340	5	.3	734	73.0	20.0	60	3.8	264	57	87	446
						LINE 254						
OCT 16, 74	1350	2	.3	7900	--	--	--	--	--	--	--	--
			1.5	19100	--	--	--	--	--	--	--	--
JAN 28, 75	1925	2	.3	10400	110.0	200.0	1800	68.0	215	450	3200	5940

TABLE 6C--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (LAB)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
						LINE 254 CONTINUED						
APR 15, 75	1700	2	.3	23400	--	--	--	--	--	--	--	--
			1.2	23800	--	--	--	--	--	--	--	--
MAY 28, 75	0915	2	.3	4150	--	--	--	--	--	--	--	--
AUG 26, 75	1010	2	.3	4500	--	--	--	--	--	--	--	--
						LINE 264						
OCT 16, 74	1745	4	.3	7950	95.0	180.0	1300	55.0	191	340	2300	4380
			1.5	11400	--	--	--	--	--	--	--	--
JAN 28, 75	1410	4	.3	1620	--	--	--	--	--	--	--	--
APR 15, 75	1520	4	.3	13400	140.0	280.0	2500	110.0	234	590	4400	8140
			1.2	13400	150.0	290.0	2400	110.0	233	500	4400	7970
MAY 28, 75	1200	4	.3	4340	74.0	91.0	720	34.0	174	200	1300	2520
AUG 26, 75	1215	4	.3	10200	130.0	180.0	1700	62.0	196	430	3000	5610
						LINE 274						
OCT 17, 74	1055	2	.3	6060	--	--	--	--	--	--	--	--
			1.4	14500	--	--	--	--	--	--	--	--
JAN 28, 75	1240	2	.3	8450	--	--	--	--	--	--	--	--
APR 15, 75	1235	2	.3	20000	--	--	--	--	--	--	--	--
			1.5	28300	--	--	--	--	--	--	--	--
MAY 28, 75	1120	2	.3	8520	--	--	--	--	--	--	--	--
AUG 26, 75	1145	2	.3	6000	--	--	--	--	--	--	--	--
						LINE 287						
OCT 17, 74	1225	8	.3	14300	--	--	--	--	--	--	--	--
			4.6	25900	--	--	--	--	--	--	--	--
JAN 28, 75	1140	8	.3	12800	--	--	--	--	--	--	--	--
APR 15, 75	1005	8	.3	17700	--	--	--	--	--	--	--	--
			1.8	26200	--	--	--	--	--	--	--	--
MAY 28, 75	1040	8	.3	5820	--	--	--	--	--	--	--	--
AUG 26, 75	1400	8	.3	14400	200.0	270.0	2600	120.0	190	590	4700	8590
						LINE 291						
OCT 16, 74	1710	2	.3	20900	--	--	--	--	--	--	--	--
			1.8	27100	--	--	--	--	--	--	--	--
						LINE 294						
JAN 28, 75	1555	2	.3	15400	--	--	--	--	--	--	--	--
APR 15, 75	1350	2	.3	29500	--	--	--	--	--	--	--	--
			1.8	29900	--	--	--	--	--	--	--	--
MAY 28, 75	1035	2	.3	13100	--	--	--	--	--	--	--	--
AUG 26, 75	1340	2	.3	20900	220.0	470.0	3800	160.0	186	890	6600	12200

TABLE 6C--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

CHEMICAL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (LAB)	DISSOLVED CALCIUM (CA) (MG/L)	DISSOLVED MAGNESIUM (MG) (MG/L)	DISSOLVED SODIUM (NA) (MG/L)	DISSOLVED POTASSIUM (K) (MG/L)	BICARBONATE (HCO3) (MG/L)	DISSOLVED SULFATE (SO4) (MG/L)	DISSOLVED CHLORIDE (CL) (MG/L)	DISSOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
						LINE 307						
OCT 16, 74	1620	3	.3	33900	--	--	--	--	--	--	--	--
JAN 28, 75	1330	3	.5	20800	--	--	--	--	--	--	--	--
			1.7	21200	--	--	--	--	--	--	--	--
APR 15, 75	1225	3	.3	40200	--	--	--	--	--	--	--	--
			1.8	40200	--	--	--	--	--	--	--	--
MAY 27, 75	1610	3	.3	25000	--	--	--	--	--	--	--	--
AUG 26, 75	1110	3	.3	16400	--	--	--	--	--	--	--	--
						LINE 311						
OCT 17, 74	1430	5	.3	25600	180.0	630.0	5100	200.0	158	1500	9400	17100
			1.7	31700	--	--	--	--	--	--	--	--
APR 16, 75	1105	5	.3	29500	250.0	690.0	5700	270.0	177	1400	10000	18400
MAY 28, 75	1205	5	.3	16200	150.0	420.0	3300	130.0	165	810	6000	10900
AUG 26, 75	1530	5	.3	37900	270.0	800.0	7200	290.0	160	1700	13000	23300
						LINE 314						
OCT 17, 74	1340	3	.3	26600	--	--	--	--	--	--	--	--
			1.5	38300	--	--	--	--	--	--	--	--
APR 16, 75	1050	3	.3	29000	--	--	--	--	--	--	--	--
MAY 28, 75	1145	3	.3	33000	--	--	--	--	--	--	--	--
AUG 26, 75	1505	3	.3	41100	--	--	--	--	--	--	--	--
						LINE 333						
JAN 28, 75	1200	2	.5	29500	--	--	--	--	--	--	--	--
			2.1	38000	--	--	--	--	--	--	--	--
MAY 27, 75	1530	2	.3	26200	230.0	700.0	5600	220.0	144	1400	10000	18200
			1.8	26500	190.0	720.0	5200	220.0	152	1000	9900	17300
AUG 26, 75	1035	2	.3	22200	--	--	--	--	--	--	--	--
			2.1	27300	--	--	--	--	--	--	--	--
						LINE 354						
OCT 16, 74	1500	3	.3	--	280.0	960.0	8400	320.0	147	2100	15000	27100
			1.5	41600	--	--	--	--	--	--	--	--
JAN 28, 75	1025	3	.3	35000	280.0	830.0	7100	250.0	154	1700	12000	22200
			.9	34900	260.0	800.0	7100	250.0	154	1600	12000	22100
APR 15, 75	1100	3	.3	41000	320.0	960.0	8000	330.0	140	1800	14000	25500
			1.8	41000	310.0	940.0	8000	320.0	140	1800	14000	25400
MAY 27, 75	1405	3	.3	32900	290.0	920.0	6800	260.0	137	1700	13000	23000
			1.8	32600	290.0	880.0	7000	260.0	139	1600	13000	23100
AUG 26, 75	0925	3	.3	38100	370.0	830.0	7100	280.0	180	1700	13000	23400
			1.8	48600	--	--	--	--	--	--	--	--

TABLE 6D--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 80					
OCT 16, 74	1425	2	.3	60	6	--	--	1	--	--	--
			3.4	30	3	--	--	0	--	--	--
						LINE 145					
JAN 28, 75	1640	2	.3	--	--	--	--	--	--	--	.4
						LINE 153					
APR 15, 75	1430	2	.3	--	--	--	--	--	--	--	.3
MAY 27, 75	1620	2	.3	--	--	--	--	--	--	--	.4
						LINE 170					
OCT 16, 74	1515	2	.3	0	1	--	--	1	--	--	--
AUG 26, 75	1555	2	.3	--	--	--	--	--	--	--	.5
						LINE 200					
OCT 16, 74	1545	2	.3	30	4	5	--	1	0	--	--
						LINE 243					
OCT 16, 74	1640	5	.3	40	4	--	--	1	--	--	--
AUG 26, 75	1340	5	.3	--	--	--	--	--	--	--	.3
						LINE 254					
OCT 16, 74	1350	2	.3	40	3	4	--	0	0	--	--
JAN 28, 75	1925	2	.3	--	--	--	--	--	--	--	.2
						LINE 264					
OCT 16, 74	1745	4	.3	60	4	--	--	1	--	--	--
APR 15, 75	1520	4	.3	--	--	--	--	--	--	--	.6
			1.2	--	--	--	--	--	--	--	.7
MAY 28, 75	1200	4	.3	--	--	--	--	--	--	--	.4
AUG 26, 75	1215	4	.3	--	--	--	--	--	--	--	.5
						LINE 287					
OCT 17, 74	1225	8	.3	0	3	4	--	0	0	--	--
AUG 26, 75	1400	8	.3	--	--	--	--	--	--	--	.6
						LINE 294					
OCT 16, 74	1720	2	.3	30	4	--	--	0	--	--	--
AUG 26, 75	1340	2	.3	--	--	--	--	--	--	--	.7

TABLE 6D--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ALUMI-NUM (AL) (UG/L)	DIS-SOLVED ARSENIC (AS) (UG/L)	TOTAL ARSENIC (AS) (UG/L)	BOTTOM DEPOSIT ARSENIC (AS) (UG/GM)	DIS-SOLVED CAD-MIUM (CD) (UG/L)	TOTAL CADMIUM (CD) (UG/L)	BOTTOM DEPOSIT CADMIUM (CD) (UG/GM)	DIS-SOLVED FLUORIDE (F) (MG/L)
						LINE 307					
OCT 16, 74	1620	3	.3	30	1	--	--	1	--	--	--
						LINE 311					
APR 16, 75	1105	5	.3	--	--	--	--	--	--	--	1.0
MAY 28, 75	1205	5	.3	--	--	--	--	--	--	--	.8
AUG 26, 75	1530	5	.3	--	--	--	--	--	--	--	1.1
						LINE 314					
OCT 17, 74	1340	3	.3	10	2	2	--	1	0	--	--
						LINE 333					
MAY 27, 75	1530	2	.3	--	--	--	--	--	--	--	1.0
			1.8	--	--	--	--	--	--	--	1.0
						LINE 354					
OCT 16, 74	1500	3	.3	30	0	1	--	0	0	--	--
JAN 28, 75	1025	3	.3	--	--	--	--	--	--	--	.6
			.9	--	--	--	--	--	--	--	1.1
APR 15, 75	1100	3	.3	--	--	--	--	--	--	--	1.1
			1.8	--	--	--	--	--	--	--	1.2
MAY 27, 75	1405	3	.3	--	--	--	--	--	--	--	1.1
			1.8	--	--	--	--	--	--	--	1.2
AUG 26, 75	0925	3	.3	--	--	--	--	--	--	--	1.0

TABLE 6D--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CHRO-MIUM (CR) (UG/L)	TOTAL CHRO-MIUM (CR) (UG/L)	DIS-SOLVED COBALT (CO) (UG/L)	TOTAL COBALT (CO) (UG/L)	BOTTOM DEPOSIT COBALT (CO) (UG/GM)	DIS-SOLVED COPPER (CU) (UG/L)	TOTAL COPPER (CU) (UG/L)	BOTTOM DEPOSIT COPPER (CU) (UG/GM)
						LINE 80					
OCT 16, 74	1425	2	.3	1.00	--	0	--	--	9	--	--
			3.4	1.00	--	0	--	--	--	--	--
						LINE 170					
OCT 16, 74	1515	2	.3	3.00	--	0	--	--	4	--	--
						LINE 200					
OCT 16, 74	1545	2	.3	3.00	< 10.00	0	3	--	9	6.0	--
						LINE 243					
OCT 16, 74	1640	5	.3	1.00	--	0	--	--	3	--	--
						LINE 254					
OCT 16, 74	1350	2	.3	4.00	< 10.00	0	7	--	3	4.0	--
						LINE 264					
OCT 16, 74	1745	4	.3	4.00	--	0	--	--	5	--	--
						LINE 287					
OCT 17, 74	1225	8	.3	1.00	10.00	0	3	--	5	6.0	--
						LINE 294					
OCT 16, 74	1720	2	.3	.00	--	0	--	--	3	--	--
						LINE 307					
OCT 16, 74	1620	3	.3	.00	--	0	--	--	4	--	--
						LINE 314					
OCT 17, 74	1340	3	.3	.00	10.00	0	0	--	5	6.0	--
						LINE 354					
OCT 16, 74	1500	3	.3	1.00	< 10.00	0	0	--	5	6.0	--

TABLE 6D--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED CYANIDE (CN) (MG/L)	BOTTOM DEPOSIT CYANIDE (CN) (UG/GM)	DIS-SOLVED IRON (FE) (UG/L)	TOTAL IRON (FE) (UG/L)	BOTTOM DEPOSIT IRON (FE) (UG/GM)	DIS-SOLVED LEAD (PB) (UG/L)	TOTAL LEAD (PB) (UG/L)	BOTTOM DEPOSIT LEAD (PB) (UG/GM)
						LINE 80					
OCT 16, 74	1425	2	.3	--	--	30	--	--	0	--	--
			3.4	--	--	70	--	--	0	--	--
						LINE 170					
OCT 16, 74	1515	2	.3	--	--	0	--	--	0	--	--
						LINE 200					
OCT 16, 74	1545	2	.3	--	--	10	1200	--	0	0	--
						LINE 243					
OCT 16, 74	1640	5	.3	--	--	0	--	--	2	--	--
						LINE 254					
OCT 16, 74	1350	2	.3	--	--	20	840	--	1	0	--
						LINE 264					
OCT 16, 74	1745	4	.3	--	--	10	--	--	0	--	--
						LINE 287					
OCT 17, 74	1225	8	.3	--	--	30	370	--	3	0	--
						LINE 294					
OCT 16, 74	1720	2	.3	--	--	40	--	--	0	--	--
						LINE 307					
OCT 16, 74	1620	3	.3	--	--	70	--	--	1	--	--
						LINE 314					
OCT 17, 74	1340	3	.3	--	--	60	360	--	0	2	--
						LINE 354					
OCT 16, 74	1500	3	.3	--	--	100	540	--	0	6	--

TABLE 6D--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED LITH-IUM (LI) (UG/L)	DIS-SOLVED MAN-GANESE (MN) (UG/L)	TOTAL MAN-GANESE (MN) (UG/L)	BOTTOM DEPOSIT MAN-GANESE (MN) (UG/GM)	DIS-SOLVED MER-CURY (HG) (UG/L)	TOTAL MER-CURY (HG) (UG/L)	BOTTOM DEPOSIT MER-CURY (HG) (UG/GM)	DIS-SOLVED NICKEL (NI) (UG/L)	DIS-SOLVED STRON-TIUM (SR) (UG/L)
						LINE 80						
OCT 16, 74	1425	2	.3	33	35	--	--	.2	--	--	2	1200
			3.4	75	68	--	--	.2	--	--	2	2800
						LINE 170						
OCT 16, 74	1515	2	.3	25	42	--	--	.1	--	--	7	750
						LINE 200						
OCT 16, 74	1545	2	.3	17	10	37	--	.2	.2	--	3	710
						LINE 243						
OCT 16, 74	1640	5	.3	25	0	--	--	.1	--	--	0	780
						LINE 254						
OCT 16, 74	1350	2	.3	33	21	80	--	.2	.3	--	0	1300
						LINE 264						
OCT 16, 74	1745	4	.3	42	36	--	--	.2	--	--	3	1300
						LINE 287						
OCT 17, 74	1225	8	.3	58	35	49	--	.4	.3	--	0	2000
						LINE 294						
OCT 16, 74	1720	2	.3	75	69	--	--	.3	--	--	0	2700
						LINE 307						
OCT 16, 74	1620	3	.3	100	75	--	--	.1	--	--	0	3700
						LINE 314						
OCT 17, 74	1340	3	.3	92	75	66	--	.2	.5	--	0	3400
						LINE 354						
OCT 16, 74	1500	3	.3	130	120	93	--	.4	.4	--	0	4400

TABLE 6D--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

SELECTED IONS ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED ZINC (ZN) (UG/L)	TOTAL ZINC (ZN) (UG/L)	BOTTOM DEPOSIT ZINC (ZN) (UG/GM)
						LINE 80
OCT 16, 74	1425	2	.3	30	--	--
			3.4	20	--	--
						LINE 170
OCT 16, 74	1515	2	.3	20	--	--
						LINE 200
OCT 16, 74	1545	2	.3	20	10	--
						LINE 243
OCT 16, 74	1640	5	.3	8	--	--
						LINE 254
OCT 16, 74	1350	2	.3	8	5	--
						LINE 264
OCT 16, 74	1745	4	.3	10	--	--
						LINE 287
OCT 17, 74	1225	8	.3	20	20	--
						LINE 294
OCT 16, 74	1720	2	.3	30	--	--
						LINE 307
OCT 16, 74	1620	3	.3	50	--	--
						LINE 314
OCT 17, 74	1340	3	.3	30	30	--
						LINE 354
OCT 16, 74	1500	3	.3	60	100	--

TABLE 6E--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL ALDRIN (UG/L)	BOTTOM DEPOSIT ALDRIN (UG/KG)	TOTAL CHLORDANE (UG/L)	BOTTOM DEPOSIT CHLORDANE (UG/KG)	TOTAL DDD (UG/L)	BOTTOM DEPOSIT DDD (UG/KG)	TOTAL DDE (UG/L)	BOTTOM DEPOSIT DDE (UG/KG)
						LINE 80					
OCT 16, 74	1425	2	.3	.00	--	.0	--	.00	--	.00	--
						LINE 200					
OCT 16, 74	1545	2	.3	.00	--	.0	--	.00	--	.00	--
			1.2	--	.0	--	.0	--	.0	--	.5
						LINE 243					
OCT 16, 74	1640	5	.3	.00	--	.0	--	.00	--	.00	--
			1.2	--	.0	--	.0	--	.4	--	1.1
						LINE 254					
OCT 16, 74	1350	2	.3	.00	--	.0	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.2	--	.4
						LINE 264					
OCT 16, 74	1745	4	.3	.00	--	.0	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.0	--	.2
						LINE 287					
OCT 17, 74	1225	8	.3	.00	--	.0	--	.00	--	.00	--
						LINE 307					
OCT 16, 74	1620	3	.3	.00	--	.0	--	.00	--	.00	--
						LINE 314					
OCT 17, 74	1340	3	.3	.00	--	.0	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.0	--	.2
						LINE 354					
OCT 16, 74	1500	3	.3	.00	--	.0	--	.00	--	.00	--

TABLE 6E--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL TOXAPHENE (UG/L)	BOTTOM DEPOSIT TOXAPHENE (UG/KG)	TOTAL ETHION (UG/L)	BOTTOM DEPOSIT ETHION (UG/KG)	TOTAL METHYL TRITHION (UG/L)	BOTTOM DEPOSIT METHYL TRITHION (UG/KG)	TOTAL TRITHION (UG/L)	BOTTOM DEPOSIT TRITHION (UG/KG)
						LINE 80					
OCT 16, 74	1425	2	.3	.0	--	--	--	--	--	--	--
						LINE 200					
OCT 16, 74	1545	2	.3	.0	--	--	--	--	--	--	--
			1.2	--	0.	--	--	--	--	--	--
						LINE 243					
OCT 16, 74	1640	5	.3	.0	--	--	--	--	--	--	--
			1.2	--	0.	--	--	--	--	--	--
						LINE 254					
OCT 16, 74	1350	2	.3	.0	--	--	--	--	--	--	--
			1.5	--	0.	--	--	--	--	--	--
						LINE 264					
OCT 16, 74	1745	4	.3	.0	--	--	--	--	--	--	--
			1.5	--	0.	--	--	--	--	--	--
						LINE 287					
OCT 17, 74	1225	8	.3	.0	--	--	--	--	--	--	--
						LINE 307					
OCT 16, 74	1620	3	.3	.0	--	--	--	--	--	--	--
						LINE 314					
OCT 17, 74	1340	3	.3	.0	--	--	--	--	--	--	--
			1.5	--	0.	--	--	--	--	--	--
						LINE 354					
OCT 16, 74	1500	3	.3	.0	--	--	--	--	--	--	--

TABLE 6E--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL PCB (UG/L)	BOTTOM DEPOSIT PCB (UG/KG)	TOTAL 2,4-D (UG/L)	BOTTOM DEPOSIT 2,4-D (UG/KG)	TOTAL 2,4,5-T (UG/L)	BOTTOM DEPOSIT 2,4,5-T (UG/KG)	TOTAL SILVEX (UG/L)	BOTTOM DEPOSIT SILVEX (UG/KG)
						LINE 80					
OCT 16, 74	1425	2	.3	.0	--	.00	--	.00	--	.00	--
						LINE 200					
OCT 16, 74	1545	2	.3	.0	--	.00	--	.00	--	.00	--
			1.2	--	.0	--	--	--	--	--	--
						LINE 243					
OCT 16, 74	1640	5	.3	.0	--	.00	--	.00	--	.00	--
			1.2	--	.0	--	--	--	--	--	--
						LINE 254					
OCT 16, 74	1350	2	.3	.0	--	.00	--	.00	--	.00	--
			1.5	--	.0	--	--	--	--	--	--
						LINE 264					
OCT 16, 74	1745	4	.3	.0	--	.00	--	.00	--	.00	--
			1.5	--	.0	--	--	--	--	--	--
						LINE 287					
OCT 17, 74	1225	8	.3	.0	--	.00	--	.00	--	.00	--
						LINE 307					
OCT 16, 74	1620	3	.3	.0	--	.00	--	.00	--	.00	--
						LINE 314					
OCT 17, 74	1340	3	.3	.0	--	.00	--	.00	--	.00	--
			1.5	--	.0	--	--	--	--	--	--
						LINE 354					
OCT 16, 74	1500	3	.3	.0	--	.00	--	.00	--	.00	--

TABLE 6E--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL HEPTA-CHLOR EPOXIDE (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR EPOXIDE (UG/KG)	TOTAL LINDANE (UG/L)	BOTTOM DEPOSIT LINDANE (UG/KG)	TOTAL PARA-THION (UG/L)	TOTAL METHYL PARA-THION (UG/L)	TOTAL MALA-THION (UG/L)	TOTAL DIAZ-INON (UG/L)
						LINE 80					
OCT 16, 74	1425	2	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 200					
OCT 16, 74	1545	2	.3	.00	--	.00	--	.00	.00	.00	.00
			1.2	--	.0	--	.0	--	--	--	--
						LINE 243					
OCT 16, 74	1640	5	.3	.00	--	.00	--	.00	.00	.00	.00
			1.2	--	.0	--	.0	--	--	--	--
						LINE 254					
OCT 16, 74	1350	2	.3	.00	--	.00	--	.00	.00	.00	.00
			1.5	--	.0	--	.0	--	--	--	--
						LINE 264					
OCT 16, 74	1745	4	.3	.00	--	.00	--	.00	.00	.00	.00
			1.5	--	.0	--	.0	--	--	--	--
						LINE 287					
OCT 17, 74	1225	8	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 307					
OCT 16, 74	1620	3	.3	.00	--	.00	--	.00	.00	.00	.00
						LINE 314					
OCT 17, 74	1340	3	.3	.00	--	.00	--	.00	.00	.00	.00
			1.5	--	.0	--	.0	--	--	--	--
						LINE 354					
OCT 16, 74	1500	3	.3	.00	--	.00	--	.00	.00	.00	.00

TABLE 6E--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

INSECTICIDE AND HERBICIDE ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	TOTAL DDT (UG/L)	BOTTOM DEPOSIT DDT (UG/KG)	TOTAL DIEL-DRIN (UG/L)	BOTTOM DEPOSIT DIEL-DRIN (UG/KG)	TOTAL ENDRIN (UG/L)	BOTTOM DEPOSIT ENDRIN (UG/KG)	TOTAL HEPTA-CHLOR (UG/L)	BOTTOM DEPOSIT HEPTA-CHLOR (UG/KG)
						LINE 80					
OCT 16, 74	1425	2	.3	.00	--	.00	--	.00	--	.00	--
						LINE 200					
OCT 16, 74	1545	2	.3	.00	--	.00	--	.00	--	.00	--
			1.2	--	.0	--	.0	--	.0	--	.0
						LINE 243					
OCT 16, 74	1640	5	.3	.00	--	.00	--	.00	--	.00	--
			1.2	--	.0	--	.0	--	.0	--	.0
						LINE 254					
OCT 16, 74	1350	2	.3	.00	--	.00	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.0	--	.0
						LINE 264					
OCT 16, 74	1745	4	.3	.00	--	.00	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.0	--	.0
						LINE 287					
OCT 17, 74	1225	8	.3	.00	--	.00	--	.00	--	.00	--
						LINE 307					
OCT 16, 74	1620	3	.3	.00	--	.00	--	.00	--	.00	--
						LINE 314					
OCT 17, 74	1340	3	.3	.00	--	.00	--	.00	--	.00	--
			1.5	--	.0	--	.0	--	.0	--	.0
						LINE 354					
OCT 16, 74	1500	3	.3	.00	--	.00	--	.00	--	.00	--

TABLE 6F--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
						LINE 80	
APR 15, 75	1705	2	.3	--	64	20	1.00
MAY 27, 75	1445	2	.3	--	18	44	3.10
AUG 26, 75	1625	2	.3	--	540	310	--
						LINE 145	
JAN 28, 75	1640	2	.3	--	--	--	.60
						LINE 153	
APR 15, 75	1430	2	.3	--	--	--	.20
MAY 27, 75	1620	2	.3	--	--	--	.10
						LINE 170	
AUG 26, 75	1555	2	.3	--	160	290	.90
						LINE 200	
OCT 16, 74	1545	2	.3	36	--	28	--
JAN 28, 75	1755	2	.3	--	--	--	4.50
APR 15, 75	1530	2	.3	220	180	160	--
MAY 27, 75	1510	2	.3	170	140	30	5.90
AUG 26, 75	1530	2	.3	--	6	14	2.70
						LINE 243	
OCT 16, 74	1640	5	.3	--	--	28	--
JAN 28, 75	1520	5	.3	--	--	--	.60
APR 15, 75	1600	5	.3	50	40	24	1.10
MAY 28, 75	1305	5	.3	150	120	36	1.30
AUG 26, 75	1340	5	.3	20	0	0	3.80
						LINE 254	
OCT 16, 74	1350	2	.3	0	4	1	--
APR 15, 75	1700	2	.3	0	0	0	.00
MAY 28, 75	0915	2	.3	0	0	0	7.20
AUG 26, 75	1010	2	.3	140	5	4	3.10
						LINE 264	
OCT 16, 74	1745	4	.3	64	--	0	--
JAN 28, 75	1410	4	.3	--	--	--	5.40

TABLE 6F--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
				LINE 264 CONTINUED			
APR 15, 75	1520	4	.3	0	0	0	2.10
AUG 26, 75	1215	4	.3	--	--	--	2.60
				LINE 274			
APR 15, 75	1235	2	.3	--	--	--	2.60
AUG 26, 75	1145	2	.3	--	2	12	3.20
				LINE 287			
JAN 28, 75	1140	8	.3	--	--	--	1.20
APR 15, 75	1005	8	.3	0	0	0	.70
MAY 28, 75	1040	8	.3	--	0	170	2.70
AUG 26, 75	1400	8	.3	0	0	1	2.80
				LINE 294			
APR 15, 75	1350	2	.3	--	--	--	.80
AUG 26, 75	1340	2	.3	--	--	--	2.00
				LINE 307			
JAN 28, 75	1330	3	.5	--	--	--	.00
APR 15, 75	1225	3	.3	0	0	0	--
MAY 27, 75	1610	3	.3	50	0	2	1.00
AUG 26, 75	1110	3	.3	--	--	--	3.70
				LINE 311			
APR 16, 75	1105	5	.3	0	0	2	--
MAY 28, 75	1205	5	.3	--	22	100	1.60
AUG 26, 75	1530	5	.3	0	0	2	3.40
				LINE 314			
APR 16, 75	1050	3	.3	--	0	12	.30
MAY 28, 75	1145	3	.3	840	36	64	2.80
AUG 26, 75	1505	3	.3	0	0	0	2.00
				LINE 330			
OCT 16, 74	1600	2	.3	0	2	1	--
				LINE 333			
JAN 28, 75	1200	2	.5	--	--	--	.00
MAY 27, 75	1530	2	.3	0	0	0	.70

TABLE 6F--QUALITY OF WATER IN THE GUADALUPE ESTUARY,

1975 WATER YEAR--CONTINUED

BACTERIOLOGICAL AND CHLOROPHYLL ANALYSES

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	IMMEDIATE COLIFORM (COL. PER 100 ML)	FECAL COLIFORM (COL. PER 100 ML)	STREPTOCOCCI (COLONIES PER 100 ML)	CHLOROPHYLL A (UG/L)
					LINE 333 CONTINUED		
AUG 26, 75	1035	2	.3	4	4	8	1.20
AUG 26, 75	1025	3	.3	0	2	0	--
					LINE 354		
OCT 16, 74	1500	3	.3	0	0	0	--
JAN 28, 75	1025	3	.3	--	--	--	.10
APR 15, 75	1100	3	.3	2	0	1	.40
MAY 27, 75	1405	3	.3	0	0	0	.20
AUG 26, 75	0925	3	.3	320	104	176	1.40

Mission-Aransas Estuary

The Mission-Aransas estuary covers an area of about 160 square miles (414 km^2) and 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, parts of the Intracoastal Waterway, Lydia Ann Channel, and Aransas Pass (Figure 8). Water depth at mlw is less than 2 feet (0.6 m) in Mission Bay, less than 8 feet (2.4 m) in Copano Bay, less than 13 feet (4.0 m) in Aransas Bay, less than 5 feet (1.5 m) in St. Charles Bay, 4 feet (1.2 m) or less in Carlos and Redfish Bays, about 15 feet (4.6 m) in the Intracoastal Waterway, about 20 feet (6.1 m) in the Lydia Ann Channel, and more than 40 feet (12.2 m) in Aransas Pass.

Water-quality data (Table 7) were collected during October 1974 and January, April, May, and August 1975.

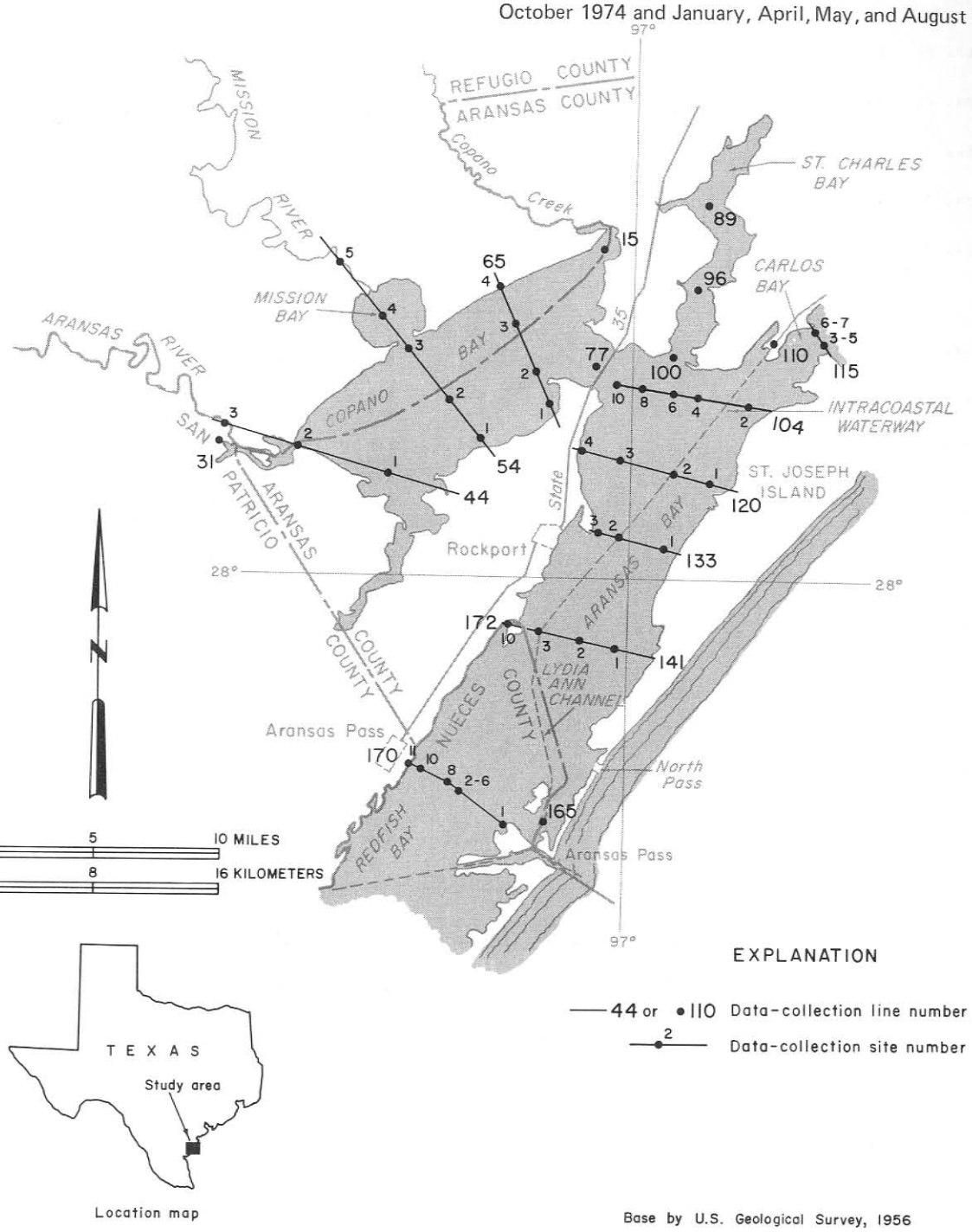

Figure 8.—Data-Collection Sites in the Mission-Aransas Estuary

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 15					
OCT 17, 74	1110	2	.3	15000	21.0	8.2	9.3	108	30.	99
			1.2	15000	20.9	8.1	9.6	112	20.	--
JAN 29, 75	1150	2	.3	16000	20.7	8.2	8.4	98	10.	54
			1.2	16000	20.7	8.2	8.6	100	15.	--
APR 16, 75	1300	2	.3	20000	22.5	8.3	8.5	104	--	75
			1.5	20000	22.4	8.3	8.5	102	--	--
MAY 29, 75	1145	2	.3	22000	26.7	--	6.9	92	20.	32
			1.5	22000	26.7	--	6.9	92	20.	--
AUG 27, 75	1350	2	.3	24000	27.3	8.4	6.8	92	0.	92
			1.5	24000	27.2	8.4	6.7	91	5.	--
					LINE 44					
OCT 17, 74	0945	1	.3	10000	19.9	8.1	10.0	112	--	56
			2.1	10000	19.9	8.1	9.7	109	30.	--
JAN 29, 75	1015	1	.3	14000	19.4	8.2	9.1	102	20.	68
			2.1	14000	19.4	8.2	9.1	102	15.	--
APR 16, 75	1055	1	.3	18000	21.8	8.3	8.6	104	--	68
			1.2	18000	21.7	8.3	8.6	102	--	--
			2.4	18000	21.7	8.2	8.7	104	--	--
MAY 29, 75	1335	1	.3	18000	26.3	--	7.5	97	5.	86
			2.1	18000	26.3	--	7.4	96	10.	--
AUG 27, 75	1110	1	.3	21000	28.0	8.3	6.7	92	10.	61
			1.2	21000	27.8	8.3	6.5	89	10.	--
			2.4	21000	27.8	8.3	6.2	85	30.	--
OCT 17, 74	0925	2	.3	6200	18.4	8.4	9.7	104	50.	41
			1.2	10000	20.8	8.1	8.0	92	40.	--
JAN 29, 75	0945	2	.3	14000	20.3	8.2	8.5	98	40.	46
			.9	14000	20.2	8.2	8.2	93	35.	--
APR 16, 75	1035	2	.3	18000	21.8	8.3	7.9	95	--	50
			.9	18000	21.7	8.3	8.0	95	--	--
MAY 29, 75	1355	2	.3	18000	26.3	--	7.7	100	5.	52
			.9	18000	26.2	--	7.5	97	5.	--
AUG 27, 75	1055	2	.3	21000	27.4	8.3	5.7	76	10.	37
			1.1	21000	27.2	8.3	5.4	72	30.	--
					LINE 54					
OCT 17, 74	1600	1	.3	12000	20.1	8.1	--	--	30.	76
			2.1	12000	20.4	8.0	9.3	107	25.	--
JAN 29, 75	1030	1	.3	16000	19.6	8.2	8.9	101	10.	123
			2.1	16000	19.7	8.2	9.0	102	40.	--
APR 16, 75	1110	1	.3	18000	21.7	8.2	8.6	102	--	77
			1.2	18000	21.7	8.3	8.7	104	--	--
			2.1	18000	21.7	8.3	8.7	104	--	--
MAY 29, 75	1315	1	.3	18000	26.2	--	7.7	100	10.	65
			2.1	18000	26.2	--	7.6	99	10.	--
AUG 27, 75	1125	1	.3	22000	28.1	8.4	6.5	89	10.	101

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 54 CONTINUED					
AUG 27, 75	1125	1	2.4	22000	28.0	8.3	6.1	84	25.	--
OCT 17, 74	1015	2	.3	12000	20.3	8.2	10.4	120	40.	74
			1.8	12000	20.3	8.2	10.4	120	35.	--
JAN 29, 75	1050	2	.3	16000	19.4	8.2	9.0	102	20.	37
			2.1	16000	19.4	8.1	9.1	103	10.	--
MAY 29, 75	1300	2	.3	20000	26.7	--	7.2	96	20.	27
			2.1	20000	26.7	--	7.2	96	30.	--
AUG 27, 75	1135	2	.3	20000	28.1	8.4	6.8	93	10.	78
			2.4	21000	28.0	8.3	6.3	86	90.	--
OCT 17, 74	1030	3	.3	11000	18.8	8.1	9.5	104	50.	51
			1.2	10000	19.0	8.1	9.6	105	55.	--
JAN 29, 75	1105	3	.3	13000	20.4	8.2	8.4	97	30.	31
			1.2	13000	20.2	8.2	8.5	97	60.	--
APR 16, 75	1135	3	.3	18000	21.7	8.2	8.3	99	--	27
			1.5	18000	21.7	8.2	8.4	100	--	--
MAY 29, 75	1240	3	.3	18000	26.7	--	7.1	93	40.	22
			1.5	18000	26.8	--	7.1	93	40.	--
AUG 27, 75	1145	3	.3	22000	28.2	8.3	6.7	92	10.	55
			1.5	23000	28.0	8.3	6.3	86	25.	--
					LINE 65					
OCT 17, 74	1205	1	.3	14000	21.0	8.1	11.8	137	35.	117
			1.5	14000	21.1	8.1	11.2	130	40.	--
JAN 29, 75	1255	1	.3	18000	19.7	8.2	9.2	105	5.	126
			1.8	18000	19.7	8.2	9.4	107	0.	--
APR 16, 75	1210	1	.3	18000	21.9	8.3	9.0	108	--	68
			1.2	18000	21.9	8.3	9.0	108	--	--
			2.1	18000	21.8	8.3	9.0	108	--	--
MAY 29, 75	1105	1	.3	17000	26.5	--	6.9	91	10.	51
			2.1	17000	26.8	--	6.9	91	30.	--
AUG 27, 75	1245	1	.3	21000	27.9	8.3	6.8	93	0.	120
			2.1	22000	27.8	8.3	6.2	85	5.	--
OCT 17, 74	1145	2	.3	14000	21.0	8.2	9.8	114	35.	127
			2.1	16000	21.5	8.0	8.6	101	35.	--
JAN 29, 75	1235	2	.3	16000	19.7	8.2	9.1	103	5.	78
			2.1	16000	19.6	8.2	8.3	94	5.	--
APR 16, 75	1220	2	.3	18000	21.9	8.3	9.0	108	--	74
			1.2	18000	21.9	8.3	9.0	108	--	--
			2.1	18000	22.1	8.3	8.8	106	--	--
MAY 29, 75	1115	2	.3	17000	26.7	--	7.0	92	20.	63
			1.5	17000	26.7	--	6.9	91	30.	--
AUG 27, 75	1320	2	.3	22000	27.3	8.3	6.8	91	5.	109
			1.8	24000	27.3	8.3	6.5	87	10.	--
OCT 17, 74	1135	3	.3	12000	20.8	8.2	10.3	120	50.	104
			1.8	13000	20.9	8.0	9.3	108	70.	--
JAN 29, 75	1225	3	.3	16000	19.6	8.2	9.1	103	0.	71
			2.1	16000	19.5	8.2	8.9	101	55.	--

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
					LINE 65 CONTINUED					
APR 16, 75	1230	3	.3	18000	21.9	--	8.9	107	--	67
			1.2	18000	21.9	8.3	8.9	107	--	--
			2.1	18000	21.9	8.3	8.9	107	--	--
MAY 29, 75	1125	3	.3	19000	26.8	--	7.0	92	20.	33
			2.1	19000	26.8	--	7.0	92	30.	--
AUG 27, 75	1330	3	.3	21000	27.3	8.3	6.8	91	0.	127
			2.1	22000	27.4	8.3	6.7	89	70.	--
OCT 17, 74	1130	4	.3	12000	20.5	8.2	9.6	110	40.	76
			1.8	12000	21.0	8.1	8.7	101	55.	--
JAN 29, 75	1215	4	.3	13000	20.2	8.2	9.2	105	50.	39
			1.8	14000	19.6	8.1	8.4	94	45.	--
APR 16, 75	1245	4	.3	18000	22.1	--	8.5	102	--	43
			1.8	18000	22.1	8.2	8.4	101	--	--
MAY 29, 75	1130	4	.3	22000	26.7	--	7.0	93	20.	31
			1.8	22000	26.8	--	6.7	89	30.	--
AUG 27, 75	1335	4	.3	26000	27.3	8.3	6.6	89	0.	113
			2.1	27000	27.2	8.3	6.1	84	0.	--
					LINE 77					
OCT 17, 74	1215	2	.3	17000	21.2	8.1	10.7	126	--	--
			1.5	18000	21.1	8.1	11.2	132	--	--
			2.7	23000	21.9	8.1	12.3	150	--	--
					LINE 89					
OCT 17, 74	1725	2	.3	11000	22.0	8.0	7.8	91	20.	61
			1.5	13000	21.4	7.9	7.3	85	40.	--
JAN 29, 75	1440	2	.3	11000	21.2	8.3	9.1	105	20.	44
			1.2	11000	21.2	8.3	9.2	106	15.	--
APR 16, 75	1445	2	.3	16000	23.1	8.2	8.5	102	--	42
			1.2	16000	23.1	8.2	8.3	100	--	--
MAY 29, 75	0955	2	.3	18000	26.1	--	7.2	94	40.	30
			1.2	18000	26.1	--	7.1	92	10.	--
AUG 27, 75	1445	2	.3	20000	27.5	8.3	7.2	97	5.	38
			1.5	20000	27.4	8.3	7.0	95	15.	--
					LINE 100					
OCT 17, 74	1755	2	.3	20000	22.0	7.9	7.9	96	20.	71
			1.1	20000	22.0	7.9	8.0	98	30.	--
JAN 29, 75	1515	2	.3	16000	21.8	8.3	9.8	117	25.	77
			1.2	16000	21.7	8.3	8.4	99	25.	--
APR 16, 75	1425	2	.3	24000	23.1	8.2	8.0	99	--	28
			1.2	24000	23.4	8.2	7.9	99	--	--
MAY 29, 75	0935	2	.3	17000	26.1	--	6.7	87	40.	31
			1.2	17000	26.1	--	6.6	86	20.	--
AUG 27, 75	1425	2	.3	33000	27.1	8.2	6.0	85	10.	63
			1.2	37000	26.8	8.2	5.5	77	25.	--
					LINE 104					
OCT 17, 74	1545	2	.3	22000	22.0	7.9	7.4	90	10.	98

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)	
					LINE 104 CONTINUED						
OCT 17, 74	1545	2	1.7	29000	21.3	8.0	7.6	94	50.	--	
JAN 29, 75	1600	2	.3	27000	20.6	8.3	9.5	116	0.	148	
			1.8	27000	20.5	8.3	9.2	112	0.	--	
			3.7	27000	20.4	8.3	8.8	107	0.	--	
APR 16, 75	1140	2	.3	25000	22.5	--	7.5	94	25.	42	
			1.2	25000	23.0	--	7.5	94	50.	--	
MAY 26, 75	1240	2	.3	26000	27.2	8.2	8.8	119	100.	38	
			1.2	26000	27.2	8.2	9.7	131	--	--	
AUG 27, 75	1125	2	.3	42000	27.8	8.5	8.7	130	15.	87	
			1.5	42000	27.5	8.5	9.0	134	20.	--	
OCT 17, 74	1550	4	.3	21000	21.8	8.0	7.4	90	10.	114	
			1.7	24000	21.5	8.0	8.0	98	40.	--	
JAN 29, 75	1535	4	.3	25000	20.3	8.3	9.3	112	0.	97	
			1.2	25000	20.4	8.3	9.4	113	0.	--	
APR 16, 75	1145	4	.3	24000	22.5	--	8.2	100	25.	55	
			1.5	23000	23.0	--	8.0	99	15.	--	
MAY 26, 75	1250	4	.3	24000	27.1	8.2	8.8	117	90.	51	
			1.5	24000	27.2	8.2	8.4	112	115.	--	
AUG 27, 75	1115	4	.3	39000	27.0	8.4	8.6	123	20.	100	
			1.5	39000	26.9	8.5	8.5	121	10.	--	
OCT 17, 74	1600	8	.3	17000	21.8	7.9	7.2	87	5.	123	
			2.0	22000	21.9	8.0	7.8	95	30.	--	
JAN 29, 75	1400	8	.3	20000	20.1	8.3	9.0	105	--	98	
			2.1	21000	19.7	8.3	8.9	102	10.	--	
APR 16, 75	1200	8	.3	23000	22.3	--	8.9	109	30.	60	
			1.8	24000	22.9	--	8.2	101	30.	--	
MAY 26, 75	1305	8	.3	22000	27.5	8.3	9.5	128	20.	53	
			1.8	22000	27.5	8.3	9.9	134	40.	--	
AUG 27, 75	1045	8	.3	38000	27.2	8.4	7.4	106	--	83	
			1.9	38000	27.0	8.4	7.2	103	10.	--	
OCT 17, 74	1630	10	.3	15000	22.3	7.8	8.9	106	5.	121	
			1.5	21000	21.8	7.9	9.0	110	10.	--	
			2.4	23000	22.0	7.8	7.9	96	35.	--	
JAN 29, 75	1345	10	.3	16000	20.4	8.3	8.9	102	25.	89	
			2.1	22000	19.5	8.3	8.8	102	0.	--	
APR 16, 75	1215	10	.3	19000	22.5	--	9.1	111	20.	75	
			1.8	20000	22.6	--	8.4	104	30.	--	
MAY 26, 75	1310	10	.3	20000	27.4	8.2	8.4	114	30.	53	
			2.1	20000	27.4	8.2	9.2	124	30.	--	
AUG 27, 75	1040	10	.3	35000	26.8	8.3	7.5	106	5.	87	
			1.8	35000	26.4	8.3	7.2	100	5.	--	
					LINE 110						
APR 16, 75	1530	2	.3	20000	23.3	8.3	8.6	105	--	27	
			2.4	20000	22.3	8.2	8.2	100	--	--	
			4.3	20000	22.3	8.2	8.0	98	--	--	
AUG 27, 75	1140	2	.3	33000	27.9	8.4	11.1	156	25.	62	

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 110 CONTINUED						
AUG 27, 75	1140	2	1.5	33000	27.0	8.4	10.9	154	30.	--
			3.7	33000	26.3	8.4	11.6	161	--	--
				LINE 115						
OCT 17, 74	1445	3	.3	26000	20.7	7.9	7.6	92	10.	103
			.9	25000	20.8	7.9	7.6	93	10.	--
			1.1	25000	20.8	7.9	8.8	107	10.	--
			1.2	25000	21.2	8.0	8.8	107	40.	--
JAN 29, 75	1630	3	.3	22000	21.9	8.2	8.9	109	--	109
			1.2	22000	21.9	8.2	9.1	111	--	--
APR 16, 75	1120	4	.3	29000	22.1	--	7.8	98	60.	32
			.9	29000	22.8	--	7.5	95	65.	--
OCT 17, 74	1500	5	.3	26000	21.0	7.9	7.6	93	5.	97
			1.2	26000	21.0	8.0	7.8	95	10.	--
			1.4	26000	21.2	8.0	9.2	112	100.	--
JAN 29, 75	1615	5	.3	24000	21.9	8.2	8.8	107	10.	75
			.9	24000	21.8	8.2	9.2	112	5.	--
APR 16, 75	1125	5	.3	27000	22.0	--	7.9	99	20.	46
			.9	27000	22.2	--	7.6	95	20.	--
MAY 28, 75	1230	5	.3	19000	26.8	8.0	8.0	105	80.	43
			1.2	19000	26.9	8.0	7.5	99	290.	--
AUG 27, 75	1540	5	.3	38000	28.0	8.3	8.7	128	40.	45
			1.2	38000	27.8	8.3	8.9	131	50.	--
OCT 17, 74	1525	7	.3	25000	21.7	7.9	6.8	84	5.	80
			1.1	28000	22.0	7.8	7.0	88	30.	--
JAN 29, 75	1655	7	.3	24000	22.1	8.2	9.9	121	--	89
			.8	24000	22.1	8.2	10.1	123	--	--
				LINE 120						
OCT 17, 74	1345	1	.3	21000	21.5	8.2	10.3	124	20.	119
			1.8	27000	20.9	8.2	9.6	119	40.	--
			3.7	27000	20.9	8.1	8.5	105	60.	--
JAN 29, 75	1830	1	.3	31000	20.1	8.2	8.7	106	20.	--
			1.5	31000	20.1	8.2	8.8	107	50.	--
			3.7	26000	20.5	8.2	9.0	108	20.	--
APR 16, 75	1415	1	.5	23000	22.1	--	9.4	115	10.	64
			1.8	23000	22.1	--	9.2	112	40.	--
			3.7	23000	22.1	--	9.0	110	10.	--
MAY 28, 75	1420	1	.3	24000	27.1	8.2	9.0	120	20.	51
			1.5	23000	27.1	8.3	9.4	125	20.	--
			3.0	24000	27.0	8.3	9.3	124	40.	--
AUG 27, 75	1215	1	.3	39000	25.2	8.3	7.2	99	--	105
			1.5	41000	24.8	8.3	5.7	79	0.	--
			3.7	41000	23.0	8.3	5.0	68	0.	--
OCT 17, 74	1340	2	.3	26000	21.8	8.2	9.9	122	30.	117
			2.1	21000	21.9	8.1	9.0	110	55.	--
APR 16, 75	1350	2	.5	19000	22.1	--	9.3	112	40.	52
			2.4	19000	22.4	--	9.0	108	80.	--
MAY 28, 75	1410	2	.3	22000	27.2	8.2	9.5	127	50.	48

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCT-ANCE (MICRO-MHOS) (FIELD)	TEMPER-ATURE (DEG. C)	PH	DIS-SOLVED OXYGEN (MG/L)	PERCENT SATUR-ATION	TUR-BIDITY (JTU)	TRANS-PARENCY SECCHI DISK (CM)
				LINE 120 CONTINUED						
MAY 28, 75	1410	2	2.1	22000	27.1	8.2	9.4	125	50.	--
AUG 27, 75	1250	2	.3	36000	25.0	8.4	8.6	116	10.	117
			2.4	39000	24.2	8.3	6.8	92	0.	--
OCT 17, 74	1330	3	.3	23000	21.9	8.2	9.2	112	35.	114
			1.2	23000	21.9	8.2	9.2	112	40.	--
			2.4	23000	22.0	8.1	7.6	93	45.	--
JAN 29, 75	1815	3	.3	22000	20.4	8.1	8.7	104	0.	--
			1.5	22000	20.4	8.1	8.6	102	0.	--
			2.4	22000	20.4	8.1	8.9	105	0.	--
APR 16, 75	1345	3	.5	19000	22.0	--	9.3	112	45.	62
			1.5	19000	22.1	--	9.3	112	65.	--
			2.7	19000	22.2	--	8.9	107	20.	--
MAY 28, 75	1400	3	.3	21000	27.2	8.2	9.9	132	35.	58
			1.5	21000	27.1	8.2	9.7	129	40.	--
			2.4	21000	27.1	8.3	9.7	129	40.	--
AUG 27, 75	1300	3	.3	33000	26.1	8.4	8.1	109	20.	100
			2.4	35000	25.0	8.4	7.7	104	45.	--
OCT 17, 74	1325	4	.3	25000	22.8	8.2	8.5	106	45.	94
			2.1	23000	23.0	8.2	8.2	101	55.	--
JAN 29, 75	1805	4	.3	23000	20.5	8.1	8.7	102	5.	--
			1.5	23000	20.5	8.2	8.7	102	0.	--
			2.6	23000	20.8	8.2	8.9	106	5.	--
APR 16, 75	1335	4	.5	19000	22.4	--	9.4	113	20.	62
			1.5	19000	22.8	--	9.2	112	20.	--
			2.4	19000	23.0	--	8.9	109	25.	--
MAY 28, 75	1350	4	.3	20000	27.1	8.2	9.4	125	20.	69
			1.5	22000	27.1	8.2	9.3	124	20.	--
			2.4	22000	27.1	8.2	8.9	119	60.	--
AUG 27, 75	1305	4	.3	33000	26.0	8.4	8.2	114	10.	153
			2.4	35000	25.3	8.3	6.6	89	10.	--
				LINE 133						
OCT 17, 74	1425	1	.3	25000	23.0	8.3	11.9	149	15.	107
			1.5	26000	22.3	8.3	11.6	143	20.	--
			3.0	26000	22.0	8.2	10.8	133	35.	--
JAN 29, 75	1730	1	.3	22000	20.3	8.3	8.8	105	0.	279
			1.5	22000	20.5	8.3	8.0	95	0.	--
			2.4	22000	20.6	8.3	8.6	106	0.	--
APR 16, 75	1430	1	.3	26000	22.1	--	9.1	112	10.	105
			2.4	27000	22.5	--	7.8	96	15.	--
MAY 28, 75	1435	1	.3	24000	26.9	8.3	9.7	129	40.	86
			1.5	24000	26.9	8.3	9.7	129	40.	--
			2.4	24000	26.9	8.3	9.6	128	30.	--
AUG 27, 75	1345	1	.3	42000	26.9	8.4	8.4	124	--	131
			1.5	44000	26.9	8.4	7.7	115	15.	--
			3.0	47000	26.0	8.3	5.8	85	200.	--
OCT 17, 74	1415	2	.3	26000	22.0	8.3	11.2	138	25.	89
			1.8	26000	21.8	8.3	10.9	135	30.	--
			4.0	26000	22.1	8.1	9.0	111	105.	--
JAN 29, 75	1740	2	.3	22000	20.4	8.2	8.2	98	0.	180

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICRO-MHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 133 CONTINUED						
JAN 29, 75	1740	2	1.5	16000	20.2	8.2	8.6	99	10.	--
			3.7	20000	20.9	8.2	7.7	92	20.	--
APR 16, 75	1445	2	.5	23000	22.0	--	9.0	110	25.	65
			1.8	13000	22.1	--	9.3	109	50.	--
			3.7	23000	22.1	--	8.6	105	60.	--
MAY 28, 75	1445	2	.3	23000	27.4	8.2	9.7	131	20.	53
			1.5	23000	27.4	8.2	9.6	130	20.	--
			3.0	23000	27.3	8.2	10.5	140	30.	--
AUG 27, 75	1330	2	.3	41000	26.7	8.4	8.5	123	30.	166
			1.5	44000	26.7	8.5	8.3	124	20.	--
			4.0	47000	26.2	8.4	7.1	104	30.	--
OCT 17, 74	1405	3	.3	24000	23.1	8.3	11.0	136	30.	94
			1.2	25000	22.7	8.3	11.7	146	30.	--
JAN 29, 75	1745	3	.3	20000	20.5	8.2	8.7	102	0.	--
			1.7	22000	20.5	8.2	8.0	95	0.	--
APR 16, 75	1450	3	.5	22000	22.2	--	9.5	116	10.	66
			1.2	22000	22.4	--	9.3	113	15.	--
MAY 28, 75	1455	3	.3	24000	27.4	8.3	8.4	114	60.	51
			1.2	24000	27.4	8.3	9.5	128	75.	--
AUG 27, 75	1325	3	.3	36000	26.5	8.4	8.3	115	0.	155
			1.2	42000	26.0	8.4	8.1	117	10.	--
				LINE 141						
OCT 17, 74	1435	1	.3	25000	22.9	8.3	8.9	111	20.	69
			1.2	25000	21.8	8.3	8.9	110	20.	--
			2.4	25000	21.8	8.3	8.7	107	35.	--
JAN 29, 75	1710	1	.3	24000	20.2	8.3	8.3	98	0.	207
			1.5	26000	20.5	8.3	8.3	100	5.	--
			2.7	22000	21.0	8.2	7.6	92	5.	--
APR 16, 75	1535	1	.5	23000	22.0	--	9.0	110	15.	86
			2.7	23000	22.1	--	8.9	109	5.	--
MAY 28, 75	1535	1	.3	26000	26.6	8.2	10.0	135	5.	58
			2.1	26000	26.6	8.3	8.9	120	20.	--
AUG 27, 75	1455	1	.3	47000	28.0	8.3	7.0	106	10.	189
			2.4	49000	28.0	8.3	6.4	98	0.	--
OCT 17, 74	1455	2	.3	25000	22.7	8.3	9.3	116	20.	84
			1.2	25000	21.7	8.3	8.9	110	30.	--
			2.4	26000	21.8	8.2	7.7	95	35.	--
JAN 29, 75	1700	2	.5	32000	21.0	8.3	7.5	94	0.	249
			1.5	39000	21.0	8.2	7.0	91	0.	--
			2.9	37000	21.5	8.3	7.8	100	5.	--
APR 16, 75	1520	2	.5	23000	22.0	--	9.1	111	10.	65
			1.5	23000	22.0	--	9.0	110	15.	--
			2.7	23000	22.1	--	8.8	107	10.	--
MAY 28, 75	1525	2	.3	28000	27.2	8.2	9.1	125	20.	66
			2.4	29000	27.2	8.2	8.8	121	35.	--
AUG 27, 75	1500	2	.3	47000	28.1	8.3	7.0	106	--	155
			1.5	47000	28.1	8.3	6.7	102	5.	--
			2.7	47000	28.0	8.2	6.1	92	15.	--
OCT 17, 74	1540	3	.3	26000	22.7	8.3	8.5	106	35.	76

TABLE 7A--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

FIELD DETERMINATIONS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	SPECIFIC CONDUCTANCE (MICROMHOS) (FIELD)	TEMPERATURE (DEG. C)	PH	DISSOLVED OXYGEN (MG/L)	PERCENT SATURATION	TURBIDITY (JTU)	TRANSPARENCY SECCHI DISK (CM)
				LINE 141 CONTINUED						
OCT 17, 74	1540	3	1.8	37000	22.5	8.3	7.4	104	30.	--
			3.7	38000	23.5	8.2	6.8	81	60.	--
JAN 29, 75	1650	3	.5	13000	22.1	8.2	7.6	89	5.	252
			1.5	13000	22.8	8.2	7.3	87	5.	--
			3.4	12000	24.2	8.2	7.5	91	10.	--
APR 16, 75	1510	3	.5	23000	22.0	--	9.1	111	15.	64
			1.8	23000	22.1	--	9.0	110	20.	--
			3.7	23000	22.4	--	9.2	112	45.	--
MAY 28, 75	1515	3	.3	26000	27.0	8.3	9.2	124	20.	64
			1.5	26000	26.9	8.2	9.5	128	--	--
			3.0	26000	26.9	8.3	8.8	119	15.	--
AUG 27, 75	1515	3	.3	47000	28.0	8.3	6.4	97	30.	184
			1.5	49000	28.0	8.3	5.9	91	30.	--
			3.7	47000	28.0	8.2	5.2	78	45.	--
AUG 28, 75	0810	3	.3	41000	27.8	8.4	6.6	97	20.	240
			1.5	42000	27.8	8.4	6.1	91	10.	--
			3.7	46000	28.1	8.3	4.6	70	30.	--
				LINE 165						
OCT 17, 74	1515	2	.3	26000	22.5	8.3	8.8	110	25.	81
			1.5	31000	22.1	8.3	8.2	104	30.	--
			3.0	31000	22.2	8.2	7.9	100	40.	--
			5.5	31000	22.3	8.2	7.7	97	40.	--
JAN 30, 75	0920	2	.3	46000	19.2	8.0	6.7	85	10.	197
			1.5	46000	19.2	8.0	6.4	81	10.	--
			3.0	46000	19.5	8.0	6.4	82	10.	--
			4.4	46000	20.1	7.9	6.4	83	10.	--
APR 16, 75	1620	2	.3	42000	21.0	--	10.0	132	15.	108
			1.8	42000	21.0	--	10.0	132	5.	--
			3.7	42000	21.1	--	9.9	130	10.	--
MAY 28, 75	1605	2	.3	34000	27.1	8.2	9.2	130	0.	157
			1.5	34000	27.1	8.2	9.4	132	10.	--
			3.4	34000	27.1	8.2	9.2	130	5.	--
AUG 28, 75	0835	2	.3	52000	28.2	8.2	6.7	105	30.	205
			1.5	50000	28.2	8.4	6.7	103	20.	--
			4.3	52000	28.2	8.2	6.6	103	10.	--

TABLE 7b--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 15						
OCT 17, 74	1110	2	.3	9.3	.00	.01	.00	--	.06	1.4	0	5.6
			1.2	9.3	.00	.00	.00	--	.06	1.4	0	--
JAN 29, 75	1150	2	.3	7.4	.00	.00	.00	--	.06	1.2	5	15.0
APR 16, 75	1300	2	.3	9.4	.00	.03	.00	--	.08	1.4	5	8.2
			1.5	--	.01	.02	.00	--	.09	1.1	4	4.0
MAY 29, 75	1145	2	.3	6.7	.00	.02	.01	--	.10	1.5	0	30.0
AUG 27, 75	1350	2	.3	8.3	.00	.01	.00	--	.05	.7	0	--
						LINE 44						
OCT 17, 74	0925	2	.3	--	.00	.01	.00	--	.10	3.0	0	8.6
			1.2	--	.00	.00	.00	--	.06	1.5	0	--
JAN 29, 75	0945	2	.3	--	.00	.01	.00	--	.06	.9	8	16.0
APR 16, 75	1035	2	.3	--	.00	.03	.00	--	.08	2.1	3	13.0
MAY 29, 75	1355	2	.3	--	.00	.00	.01	--	.09	2.2	0	32.0
AUG 27, 75	1055	2	.3	--	.00	.02	.00	--	.09	1.7	0	--
						LINE 54						
OCT 17, 74	1000	1	.3	--	.00	.01	.00	--	.07	1.5	0	7.6
			2.1	--	.00	.01	.00	--	.07	1.7	4	--
JAN 29, 75	1030	1	.3	--	.00	.01	.01	--	.06	.9	--	--
			2.1	--	.00	.00	.01	--	.06	.9	--	--
APR 16, 75	1110	1	.3	--	.05	.02	.01	--	.10	.9	1	3.7
			2.1	--	.04	.03	.00	--	.11	1.0	2	3.8
MAY 29, 75	1315	1	.3	--	.00	.00	.00	--	.10	1.9	--	--
			2.1	--	.00	.01	.01	--	.10	1.8	--	--
AUG 27, 75	1125	1	.3	--	.00	.00	.00	--	.06	1.0	0	--
OCT 17, 74	1030	3	.3	--	.00	.00	.00	--	.06	1.9	4	6.2
			1.2	--	.00	.01	.00	--	.08	2.0	0	--
JAN 29, 75	1105	3	.3	--	.00	.02	.00	--	.07	1.0	--	--
			1.2	--	.00	.06	.03	--	.30	1.5	--	--
APR 16, 75	1135	3	.3	--	.07	.12	.00	--	.14	1.1	3	9.8
			1.5	--	.07	.01	.00	--	.14	1.2	0	8.0
MAY 29, 75	1240	3	.3	--	.01	.02	.01	--	.12	1.2	--	--
			1.5	--	.02	.00	.00	--	.12	1.6	--	--
AUG 27, 75	1145	3	.3	--	.02	.01	.00	--	.07	1.0	0	--
						LINE 89						
OCT 17, 74	1725	2	.3	15.0	.00	.00	.00	--	.05	2.9	0	2.3
JAN 29, 75	1440	2	.3	8.2	.00	.00	.01	--	.06	1.1	--	--
APR 16, 75	1445	2	.3	10.0	.00	.00	.00	--	.06	1.7	0	6.4
			1.2	--	.00	.00	.00	--	.06	1.8	0	6.8

TABLE 7a--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 89 CONTINUED						
MAY 29, 75	0955	2	.3	10.0	.00	.01	.00	--	.06	1.1	--	--
AUG 27, 75	1445	2	.3	10.8	.00	.00	.00	--	.04	1.5	0	--
						LINE 104						
OCT 17, 74	1600	8	.3	--	.00	.00	.00	--	.07	2.9	0	6.0
			2.0	--	.00	.01	.00	--	.10	2.1	0	--
JAN 29, 75	1400	8	.3	--	.00	.00	.00	--	.06	1.1	--	--
APR 16, 75	1200	8	.3	--	.00	.00	.00	--	.07	1.0	0	4.3
			1.5	--	.01	.00	.01	--	.08	.9	0	6.4
MAY 28, 75	1305	8	.3	--	.00	.00	.01	--	.10	1.5	--	--
AUG 27, 75	1045	8	.3	5.7	.01	.00	.00	--	.06	.8	0	--
						LINE 115						
OCT 17, 74	1500	5	.3	7.0	.00	.00	.00	--	.09	1.3	0	4.2
			1.4	--	.00	.01	.00	--	.12	1.9	--	--
JAN 29, 75	1615	5	.3	4.1	.00	.00	.01	--	.07	1.4	--	--
APR 16, 75	1125	5	.3	--	.01	.00	.00	--	.06	.7	0	3.4
			.9	--	.01	.00	.00	--	.08	.6	0	7.3
MAY 28, 75	1230	5	.3	5.6	.04	.05	.01	--	.13	.9	--	--
AUG 27, 75	1540	5	.3	6.5	.00	.00	.00	--	.10	1.2	0	--
			1.2	--	.01	.01	.00	--	.11	1.2	--	--
						LINE 120						
OCT 17, 74	1345	1	.3	--	.00	.01	.00	--	.08	1.5	0	5.1
			3.7	--	.00	.02	.00	--	.09	1.9	0	--
JAN 29, 75	1830	1	.3	--	.01	.01	.00	--	.06	1.6	--	--
			3.7	--	.00	.01	.01	--	.12	2.4	--	--
APR 16, 75	1415	1	.5	--	.00	.00	.00	--	.06	1.0	0	3.9
			3.7	--	.00	.00	.00	--	.08	.9	0	5.0
MAY 28, 75	1420	1	.3	--	.00	.02	.00	--	.09	1.5	--	--
			3.3	--	.00	.00	.01	--	.08	1.4	--	--
AUG 27, 75	1215	1	.3	--	.01	.01	.00	--	.06	.7	0	--
						LINE 133						
OCT 17, 74	1405	3	.3	--	--	--	--	--	--	1.8	8	4.4
			1.2	--	.00	.01	.00	--	.08	1.6	0	--
JAN 29, 75	1745	3	.3	--	.00	.01	.01	--	.06	1.5	--	--
			1.7	--	.00	.01	.00	--	.06	1.5	--	--
APR 16, 75	1450	3	.5	--	.00	.01	.00	--	.06	.8	0	15.0
			1.2	--	.00	.00	.00	--	.06	1.3	0	4.1
MAY 28, 75	1455	3	.3	--	.00	.00	.00	--	.09	1.7	--	--
			1.2	--	.00	.00	.01	--	.11	1.4	--	--
AUG 27, 75	1325	3	.3	--	.00	.01	.00	--	.06	.9	0	--
			1.2	--	.01	.00	.00	--	.04	.8	0	--

TABLE 78--QUALITY OF WATER IN THE MISSION-ARANSAS ESTUARY,

1975 WATER YEAR--CONTINUED

NUTRIENT AND OTHER ENVIRONMENTAL CHARACTERISTICS

DATE OF COLLECTION	TIME	SITE	DEPTH (METERS)	DIS-SOLVED SILICA (SIO2) (MG/L)	TOTAL NITRATE (N) (MG/L)	AMMONIA NITROGEN (N) (MG/L)	TOTAL NITRITE (N) (MG/L)	DIS-SOLVED PHOS-PHORUS ORTHO (P) (MG/L)	TOTAL PHOS-PHORUS (P) (MG/L)	BIO-CHEMICAL OXYGEN DEMAND (BOD) (MG/L)	PHENOLS (UG/L)	TOTAL ORGANIC CARBON (MG/L)
						LINE 141						
OCT 17, 74	1455	2	.3	7.3	.00	.00	.01	--	.08	1.7	0	4.6
			2.4	7.0	.00	.00	.00	--	.08	1.7	0	--
JAN 29, 75	1700	2	.5	2.7	.01	.09	.00	--	.05	2.0	--	--
			2.9	1.6	.00	.01	.01	--	.05	1.5	--	--
APR 16, 75	1520	2	.5	4.9	.00	.01	.00	--	.06	1.0	0	4.2
			2.7	4.8	.00	.01	.00	--	.05	.9	0	3.5
MAY 28, 75	1525	2	.3	1.8	.00	.00	.00	--	.08	1.5	--	--
			2.4	1.6	.00	.00	.01	--	.08	1.6	--	--
AUG 27, 75	1500	2	.3	2.9	.01	.00	.00	--	.06	.9	0	--
			2.7	--	.00	.00	.00	--	.08	.8	--	--